

November 23, 2016

BY COURIER & RESS

Ms. Kirsten Walli  
Board Secretary  
Ontario Energy Board  
Suite 2700, 2300 Yonge Street  
Toronto, Ontario  
M4P 1E4

**RE: EB-2016-0245 – Union Gas Limited (“Union”) – 2017 Rates – Updated Interrogatory Responses (“IRs”)**

Dear Ms. Walli,

In response to Federation of Rental-housing Providers of Ontario (“FRPO”) letter dated November 13, 2016, please find enclosed Union’s updated interrogatory responses and supplemental information related to Exhibit B.FRPO.1, Exhibit B.FRPO.2 and Exhibit B.FRPO.3 in the above noted proceeding.

If you have any questions with respect to this submission please contact me at 519-436-5334.

Yours truly,

*[Original Signed by]*

Vanessa Innis  
Manager, Regulatory Applications

Encl.

cc: Crawford Smith, Torys  
All Intervenors (EB-2016-0245)

November 11, 2016

BY COURIER & RESS

Ms. Kirsten Walli  
Board Secretary  
Ontario Energy Board  
2300 Yonge Street, 27<sup>th</sup> Floor  
Toronto, ON M4P 1E4

**RE: EB-2016-0245 – Union Gas Limited (“Union”) – 2017 Rates – Interrogatory Responses**

Dear Ms. Walli:

Please find attached Union’s responses to the interrogatories for the above proceeding.

If you have any questions with respect to this submission please contact me at 519-436-5334.

Yours truly,

*[original signed by]*

Vanessa Innis  
Manager, Regulatory Applications

cc: Crawford Smith (Torys)  
EB-2016-0245 Intervenors

UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Exhibit A, Tab 1, p. 6, Working Papers, Schedule 11

Preamble: Union provided the allocation of the 2017 Demand Side Management (DSM) Budget to rate classes at Working Papers / Schedule 11.

- a) Please explain any changes to the allocation of the DSM budget to rate classes from 2016 to 2017.

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**Response:**

- a) The 2017 DSM budget is allocated to rate classes using the methodology approved in Union's 2015-2020 Demand Side Management Plan application (EB-2015-0029). The description of the methodology is provided at EB-2015-0029, Exhibit A, Tab 3, p. 10. The changes to the allocation between rate classes are as a result of the DSM program changes and subsequent changes to program budget between 2016 and 2017.

UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Exhibit A, Tab 1, p. 6, Working Papers, Schedule 17

Preamble: Union proposes to adjust its 2017 volumes and rates to reflect the 2015 Lost Revenue Adjustment Mechanism (LRAM) volume savings using its 2015 pre-audited results

- a) Please advise when the 2015 audited LRAM volumes will be available.
- b) If the audited 2015 LRAM volumes are available, please provide an update to the evidence.

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**Response:**

- a) and b) The 2015 post-audit LRAM volumes will be available after the conclusion of the audit process. The audit process is expected to be completed by March 2017.

UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Exhibit A, Tab 1, p. 7, Working Papers, Schedule 10, p. 2, Rate Order, Appendix G

Preamble: Union noted that the OEB approved capital pass-through treatment for a number of major capital projects. Union included the OEB-approved 2017 costs for each of the cited major capital projects in 2017 rates.

- a) For each major capital project, please provide a status update and confirm that the asset will be in service in 2017.
- b) Please provide the original schedules referenced in the footnotes at Working Papers / Schedule 10 / p. 2. If there are any differences between the original schedules and the schedules set out in Appendix G, please explain the variances.
- c) For each major capital project, please provide the rate impacts (by rate class) associated with the incorporation of the project-specific 2017 revenue requirement in rates.

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**Response:**

- a) Please see Attachment 1 for Union's capital project information. None of the capital-pass through projects are completed at this time. Projects with in-service dates of November 2015 (Parkway West and Brantford-Kirkwall/Parkway D) continue to incur capital costs in 2016 related to construction clean-up.
- b) Please see Attachment 2 for the original schedules referenced in the footnotes at Rate Order, Working Papers, Schedule 10, p. 2. There are no variances between the original schedules and the schedules set out in Appendix G. However, Rate Order, Working Papers, Schedule 10, p. 2, note 1, incorrectly references EB-2013-0074, Schedule 9-7. The appropriate reference is EB-2013-0074, Schedule 10-7. Union has provided Schedule 10-7 in Attachment 2.
- c) Please see Attachment 3 for the rate impacts associated with the 2017 capital pass-through projects.

Capital Project Information

| (Cdn \$ 000's)  |                                                          | EB-2012-0433          | EB-2013-0074                          | EB-2014-0261                    | EB-2014-0182                 | EB-2015-0200                     |
|-----------------|----------------------------------------------------------|-----------------------|---------------------------------------|---------------------------------|------------------------------|----------------------------------|
|                 |                                                          | <u>(Parkway West)</u> | <u>(Brantford-Kirkwall/Parkway D)</u> | <u>(Lobo C/Hamilton-Milton)</u> | <u>(Burlington Oakville)</u> | <u>(Dawn H/Lobo D/Bright C )</u> |
|                 |                                                          | (a)                   | (b)                                   | (c)                             | (d)                          | (e)                              |
| <u>Line No.</u> |                                                          |                       |                                       |                                 |                              |                                  |
| 1               | In-Service Date (Actual/Estimated)                       | Nov-15                | Nov-15                                | Nov-16                          | Nov-16                       | Nov-17                           |
| 2               | Approved Capital Costs                                   | \$219,430             | \$204,076                             | \$390,715                       | \$119,477                    | \$622,505                        |
| 3               | Estimated Capital Costs                                  | \$232,356             | \$196,875                             | \$362,593                       | \$84,449                     | \$622,505                        |
| 4               | Revenue Requirement in 2017 Rates                        | \$17,182              | \$15,433                              | \$29,121                        | \$8,284                      | \$6,758                          |
| 5               | Revenue Requirement in 2016 Rates                        | \$16,457              | \$14,720                              | \$683                           | \$77                         | \$(1,716)                        |
| 6               | 2016 Estimated Revenue Requirement                       | \$15,783              | \$13,444                              | \$914                           | \$(277)                      | \$(2,249)                        |
| 7               | 2016 Estimated Deferral Account Balance (line 6-line 5)* | \$(674)               | \$(1,276)                             | \$231                           | \$(354)                      | \$(533)                          |

Note:

There is no forecasted Revenue Requirement for 2017 other than the Board-approved amounts therefore, there is no forecasted balance for 2017 deferrals.

\* Line 7 - Debit (positive) number represents an under recovery in 2016 rates; Credit (negative) number respresents an over recovery in 2016 rates.

Filed: 2013-08-23  
EB-2012-0433  
Schedule 12-6  
Updated

UNION GAS LIMITED  
Parkway West Project Revenue Requirement by Rate Class

| Line No. | Particulars (\$000's)   | 2014<br>(a)  | Variance<br>(b) = (c - a) | 2015<br>(c)    | Variance<br>(d) = (e - c) | 2016<br>(e)    | Variance<br>(f) = (g - e) | 2017<br>(g)    | Variance<br>(h) = (i - g) | 2018<br>(i)   |
|----------|-------------------------|--------------|---------------------------|----------------|---------------------------|----------------|---------------------------|----------------|---------------------------|---------------|
| 1        | Rate M1                 | (482)        | (1,105)                   | (1,587)        | (141)                     | (1,728)        | 341                       | (1,386)        | 290                       | (1,097)       |
| 2        | Rate M2                 | (57)         | (34)                      | (91)           | 126                       | 36             | 49                        | 85             | 41                        | 125           |
| 3        | Rate M4                 | (13)         | (5)                       | (18)           | 35                        | 17             | 12                        | 29             | 10                        | 39            |
| 4        | Rate M5                 | (17)         | (54)                      | (70)           | (24)                      | (94)           | 11                        | (83)           | 10                        | (73)          |
| 5        | Rate M7                 | (4)          | 6                         | 2              | 21                        | 23             | 4                         | 27             | 3                         | 30            |
| 6        | Rate M9                 | (0)          | 6                         | 6              | 9                         | 15             | 1                         | 15             | 0                         | 16            |
| 7        | Rate M10                | (0)          | 0                         | 0              | 0                         | 0              | 0                         | 0              | 0                         | 0             |
| 8        | Rate T1                 | (9)          | (17)                      | (27)           | 9                         | (18)           | 8                         | (10)           | 7                         | (3)           |
| 9        | Rate T2                 | (32)         | (13)                      | (45)           | 106                       | 61             | 33                        | 95             | 27                        | 122           |
| 10       | Rate T3                 | (1)          | 44                        | 43             | 64                        | 107            | 4                         | 111            | 3                         | 114           |
| 11       | Subtotal - Union South  | <u>(614)</u> | <u>(1,172)</u>            | <u>(1,786)</u> | <u>205</u>                | <u>(1,581)</u> | <u>463</u>                | <u>(1,118)</u> | <u>390</u>                | <u>(728)</u>  |
| 12       | Excess Utility Space    | (9)          | (21)                      | (30)           | (8)                       | (38)           | 5                         | (33)           | 5                         | (28)          |
| 13       | Rate C1                 | (0)          | (12)                      | (13)           | (9)                       | (22)           | 1                         | (20)           | 1                         | (20)          |
| 14       | Rate M12                | 643          | 8,308                     | 8,950          | 9,706                     | 18,657         | 37                        | 18,694         | (26)                      | 18,668        |
| 15       | Rate M13                | (0)          | (0)                       | (1)            | 0                         | (1)            | 0                         | (0)            | 0                         | (0)           |
| 16       | Rate M16                | 0            | (1)                       | (1)            | (0)                       | (1)            | 0                         | (1)            | 0                         | (1)           |
| 17       | Subtotal - Ex-franchise | <u>633</u>   | <u>8,273</u>              | <u>8,906</u>   | <u>9,689</u>              | <u>18,595</u>  | <u>44</u>                 | <u>18,639</u>  | <u>(20)</u>               | <u>18,619</u> |
| 18       | R01                     | (219)        | (333)                     | (552)          | 131                       | (421)          | 158                       | (263)          | 134                       | (129)         |
| 19       | R10                     | (28)         | 5                         | (24)           | 83                        | 59             | 24                        | 83             | 20                        | 103           |
| 20       | R20                     | (22)         | (45)                      | (68)           | 5                         | (63)           | 18                        | (45)           | 15                        | (30)          |
| 21       | R100                    | (19)         | (56)                      | (75)           | (20)                      | (95)           | 14                        | (81)           | 12                        | (69)          |
| 22       | R25                     | (7)          | (22)                      | (29)           | (9)                       | (38)           | 5                         | (33)           | 4                         | (28)          |
| 23       | Subtotal - Union North  | <u>(295)</u> | <u>(452)</u>              | <u>(747)</u>   | <u>189</u>                | <u>(557)</u>   | <u>218</u>                | <u>(339)</u>   | <u>185</u>                | <u>(154)</u>  |
| 24       | In-franchise            | (909)        | (1,624)                   | (2,533)        | 395                       | (2,138)        | 682                       | (1,457)        | 575                       | (882)         |
| 25       | Ex-franchise            | 633          | 8,273                     | 8,906          | 9,689                     | 18,595         | 44                        | 18,639         | (20)                      | 18,619        |
| 26       | Total                   | <u>(276)</u> | <u>6,649</u>              | <u>6,373</u>   | <u>10,084</u>             | <u>16,457</u>  | <u>726</u>                | <u>17,182</u>  | <u>555</u>                | <u>17,737</u> |

**UNION GAS LIMITED**  
Brantford to Kirkwall and Parkway D Compressor Project - Annual Rate Adjustments by Rate Class

| Line No. | Particulars (\$000's)   | 2015<br>(a)        | Variance<br>(b) = (c - a) | 2016<br>(c)          | Variance<br>(d) = (e - c) | 2017<br>(e)          | Variance<br>(f) = (g - e) | 2018<br>(g)          |
|----------|-------------------------|--------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|
| 1        | Rate M1                 | (2,310)            | 280                       | (2,029)              | 331                       | (1,698)              | 295                       | (1,403)              |
| 2        | Rate M2                 | (440)              | 230                       | (210)                | 48                        | (162)                | 40                        | (121)                |
| 3        | Rate M4                 | (117)              | 66                        | (51)                 | 12                        | (39)                 | 10                        | (29)                 |
| 4        | Rate M5                 | (57)               | (13)                      | (70)                 | 11                        | (59)                 | 10                        | (49)                 |
| 5        | Rate M7                 | (46)               | 33                        | (14)                 | 4                         | (10)                 | 3                         | (7)                  |
| 6        | Rate M9                 | (13)               | 13                        | (0)                  | 1                         | 0                    | 0                         | 1                    |
| 7        | Rate M10                | (0)                | 0                         | (0)                  | 0                         | (0)                  | 0                         | (0)                  |
| 8        | Rate T1                 | (71)               | 29                        | (42)                 | 8                         | (34)                 | 7                         | (27)                 |
| 9        | Rate T2                 | (364)              | 217                       | (146)                | 35                        | (111)                | 29                        | (83)                 |
| 10       | Rate T3                 | (86)               | 89                        | 3                    | 4                         | 7                    | 2                         | 9                    |
| 11       | Subtotal - Union South  | <u>(3,504)</u>     | <u>945</u>                | <u>(2,559)</u>       | <u>454</u>                | <u>(2,105)</u>       | <u>397</u>                | <u>(1,708)</u>       |
| 12       | Excess Utility Space    | (27)               | (8)                       | (34)                 | 5                         | (29)                 | 5                         | (25)                 |
| 13       | Rate C1                 | (6)                | (5)                       | (11)                 | 1                         | (10)                 | 1                         | (8)                  |
| 14       | Rate M12                | 2,934              | 13,218                    | 16,152               | 44                        | 16,197               | (114)                     | 16,083               |
| 15       | Rate M13                | (1)                | 0                         | (0)                  | 0                         | (0)                  | 0                         | (0)                  |
| 16       | Rate M16                | <u>(1)</u>         | <u>0</u>                  | <u>(1)</u>           | <u>0</u>                  | <u>(0)</u>           | <u>0</u>                  | <u>(0)</u>           |
| 17       | Subtotal - Ex-franchise | <u>2,900</u>       | <u>13,206</u>             | <u>16,106</u>        | <u>51</u>                 | <u>16,157</u>        | <u>(108)</u>              | <u>16,050</u>        |
| 18       | R01                     | 410                | 470                       | 881                  | 151                       | 1,032                | 131                       | 1,162                |
| 19       | R10                     | 198                | 161                       | 359                  | 22                        | 382                  | 19                        | 400                  |
| 20       | R20                     | 1                  | 32                        | 32                   | 17                        | 49                   | 15                        | 64                   |
| 21       | R100                    | (59)               | (10)                      | (70)                 | 13                        | (57)                 | 12                        | (45)                 |
| 22       | R25                     | <u>(24)</u>        | <u>(6)</u>                | <u>(30)</u>          | <u>5</u>                  | <u>(25)</u>          | <u>4</u>                  | <u>(21)</u>          |
| 23       | Subtotal - Union North  | <u>527</u>         | <u>646</u>                | <u>1,173</u>         | <u>208</u>                | <u>1,381</u>         | <u>180</u>                | <u>1,561</u>         |
|          |                         | 0                  | 0                         | 0                    | 0                         | 0                    | 0                         | 0                    |
| 24       | In-franchise            | (2,977)            | 1,591                     | (1,386)              | 661                       | (724)                | 577                       | (147)                |
| 25       | Ex-franchise            | 2,900              | 13,206                    | 16,106               | 51                        | 16,157               | (108)                     | 16,050               |
|          |                         | 0                  | 0                         | 0                    | 0                         | 0                    | 0                         | 0                    |
| 26       | Total                   | <u><u>(77)</u></u> | <u><u>14,797</u></u>      | <u><u>14,720</u></u> | <u><u>712</u></u>         | <u><u>15,433</u></u> | <u><u>469</u></u>         | <u><u>15,902</u></u> |

Filed: 2014-12-12  
EB-2014-0182  
Exhibit A  
Tab 9  
Schedule 9

UNION GAS LIMITED  
Burlington to Oakville Project - Annual Rate Adjustment by Rate Class

| Line No. | Particulars (\$000's)            | 2016<br>(a)  | Variance<br>(b) = (c - a) | 2017<br>(c)    | Variance<br>(d) = (e - c) | 2018<br>(e)  |
|----------|----------------------------------|--------------|---------------------------|----------------|---------------------------|--------------|
| 1        | Rate M1                          | 84           | 3,351                     | 3,435          | 94                        | 3,528        |
| 2        | Rate M2                          | 192          | 1,289                     | 1,480          | 6                         | 1,486        |
| 3        | Rate M4                          | 71           | 423                       | 495            | 0                         | 495          |
| 4        | Rate M5                          | (26)         | (18)                      | (44)           | 4                         | (40)         |
| 5        | Rate M7                          | 26           | 154                       | 181            | 0                         | 181          |
| 6        | Rate M9                          | 10           | 51                        | 61             | (0)                       | 61           |
| 7        | Rate M10                         | 0            | 2                         | 2              | (0)                       | 2            |
| 8        | Rate T1                          | 66           | 365                       | 431            | (1)                       | 431          |
| 9        | Rate T2                          | 557          | 2,750                     | 3,306          | (15)                      | 3,291        |
| 10       | Rate T3                          | 71           | 354                       | 425            | (2)                       | 423          |
| 11       | Subtotal - Union South           | <u>1,051</u> | <u>8,720</u>              | <u>9,771</u>   | <u>86</u>                 | <u>9,858</u> |
| 12       | Excess Utility Space             | (13)         | (12)                      | (24)           | 2                         | (22)         |
| 13       | Rate C1                          | (1)          | (2)                       | (3)            | 1                         | (3)          |
| 14       | Rate M12                         | (414)        | (15)                      | (429)          | 68                        | (361)        |
| 15       | Rate M13                         | 2            | (2)                       | (1)            | 2                         | 2            |
| 16       | Rate M16                         | (0)          | (0)                       | (0)            | 0                         | (0)          |
| 17       | Subtotal - Ex-franchise          | <u>(426)</u> | <u>(31)</u>               | <u>(457)</u>   | <u>73</u>                 | <u>(384)</u> |
| 18       | Rate 01                          | (403)        | (355)                     | (758)          | 63                        | (694)        |
| 19       | Rate 10                          | (61)         | (49)                      | (110)          | 10                        | (100)        |
| 20       | Rate 20                          | (41)         | (37)                      | (78)           | 7                         | (71)         |
| 21       | Rate 100                         | (31)         | (30)                      | (61)           | 5                         | (56)         |
| 22       | Rate 25                          | (11)         | (11)                      | (22)           | 2                         | (20)         |
| 23       | Subtotal - Union North           | <u>(548)</u> | <u>(482)</u>              | <u>(1,030)</u> | <u>87</u>                 | <u>(943)</u> |
| 24       | In-franchise (line 11 + line 23) | 503          | 8,238                     | 8,741          | 174                       | 8,915        |
| 25       | Ex-franchise (line 17)           | (426)        | (31)                      | (457)          | 73                        | (384)        |
| 26       | Total (line 24 + line 25)        | <u>77</u>    | <u>8,208</u>              | <u>8,284</u>   | <u>247</u>                | <u>8,531</u> |

EB-2014-0261  
Settlement Agreement  
Appendix 3  
Schedule 6

UNION GAS LIMITED

Hamilton-Milton Pipeline and Lobo C Compressor Project Revenue Requirement by Rate Class - Per Settlement

| Line No. | Particulars (\$000's)   | 2016<br>(a)    | Variance<br>(b) = (c - a) | 2017<br>(c)    | Variance<br>(d) = (e - c) | 2018<br>(e)    |
|----------|-------------------------|----------------|---------------------------|----------------|---------------------------|----------------|
| 1        | Rate M1                 | (2,162)        | (475)                     | (2,637)        | 469                       | (2,168)        |
| 2        | Rate M2                 | (135)          | 369                       | 234            | 70                        | 304            |
| 3        | Rate M4                 | (21)           | 116                       | 96             | 17                        | 113            |
| 4        | Rate M5                 | (99)           | (76)                      | (175)          | 15                        | (159)          |
| 5        | Rate M7                 | 4              | 65                        | 69             | 6                         | 75             |
| 6        | Rate M9                 | 8              | 28                        | 37             | 1                         | 38             |
| 7        | Rate M10                | 0              | 1                         | 1              | 0                         | 1              |
| 8        | Rate T1                 | (34)           | 39                        | 5              | 12                        | 17             |
| 9        | Rate T2                 | (49)           | 401                       | 352            | 51                        | 403            |
| 10       | Rate T3                 | 65             | 203                       | 268            | 6                         | 275            |
| 11       | Subtotal - Union South  | <u>(2,423)</u> | <u>672</u>                | <u>(1,750)</u> | <u>646</u>                | <u>(1,104)</u> |
| 12       | Excess Utility Space    | (46)           | (35)                      | (81)           | 7                         | (74)           |
| 13       | Rate C1                 | (14)           | (17)                      | (31)           | 2                         | (29)           |
| 14       | Rate M12                | 3,078          | 27,282                    | 30,360         | 175                       | 30,535         |
| 15       | Rate M13                | (1)            | (0)                       | (1)            | 0                         | (1)            |
| 16       | Rate M16                | (2)            | (1)                       | (3)            | 0                         | (3)            |
| 17       | Subtotal - Ex-franchise | <u>3,014</u>   | <u>27,229</u>             | <u>30,243</u>  | <u>184</u>                | <u>30,427</u>  |
| 18       | Rate 01                 | (549)          | 276                       | (273)          | 216                       | (57)           |
| 19       | Rate 10                 | 15             | 216                       | 231            | 33                        | 265            |
| 20       | Rate 20                 | 780            | 158                       | 938            | 25                        | 963            |
| 21       | Rate 100                | (113)          | (80)                      | (193)          | 18                        | (174)          |
| 22       | Rate 25                 | (42)           | (33)                      | (75)           | 7                         | (68)           |
| 23       | Subtotal - Union North  | <u>92</u>      | <u>537</u>                | <u>628</u>     | <u>299</u>                | <u>928</u>     |
| 24       | In-franchise            | (2,331)        | 1,209                     | (1,122)        | 946                       | (177)          |
| 25       | Ex-franchise            | 3,014          | 27,229                    | 30,243         | 184                       | 30,427         |
| 26       | Total                   | <u>683</u>     | <u>28,438</u>             | <u>29,121</u>  | <u>1,130</u>              | <u>30,251</u>  |

Filed: 2015-09-24  
EB-2015-0200  
Exhibit A  
Tab 10  
Schedule 5  
UPDATED

UNION GAS LIMITED  
Lobo D, Bright C and Dawn H Compressor Project Revenue Requirement by Rate Class

| Line No. | Particulars (\$000's)   | 2016<br>(a)    | Variance<br>(b) = (c - a) | 2017<br>(c)    | Variance<br>(d) = (e - c) | 2018<br>(e)    |
|----------|-------------------------|----------------|---------------------------|----------------|---------------------------|----------------|
| 1        | Rate M1                 | (1,448)        | (4,404)                   | (5,853)        | (171)                     | (6,024)        |
| 2        | Rate M2                 | (183)          | (482)                     | (665)          | 575                       | (90)           |
| 3        | Rate M4                 | (43)           | (113)                     | (156)          | 166                       | 10             |
| 4        | Rate M5                 | (52)           | (166)                     | (219)          | (90)                      | (309)          |
| 5        | Rate M7                 | (13)           | (30)                      | (43)           | 91                        | 48             |
| 6        | Rate M9                 | (1)            | (0)                       | (1)            | 38                        | 37             |
| 7        | Rate M10                | (0)            | (0)                       | (0)            | 1                         | 1              |
| 8        | Rate T1                 | (33)           | (89)                      | (122)          | 56                        | (66)           |
| 9        | Rate T2                 | (125)          | (305)                     | (430)          | 548                       | 118            |
| 10       | Rate T3                 | (4)            | 16                        | 13             | 274                       | 286            |
| 11       | Subtotal - Union South  | <u>(1,902)</u> | <u>(5,575)</u>            | <u>(7,477)</u> | <u>1,488</u>              | <u>(5,988)</u> |
| 12       | Excess Utility Space    | (21)           | (52)                      | (73)           | (37)                      | (110)          |
| 13       | Rate C1                 | (6)            | (22)                      | (28)           | (28)                      | (56)           |
| 14       | Rate M12                | 1,120          | 16,889                    | 18,009         | 34,076                    | 52,085         |
| 15       | Rate M13                | (1)            | (2)                       | (2)            | (0)                       | (2)            |
| 16       | Rate M16                | (1)            | (3)                       | (4)            | (2)                       | (5)            |
| 17       | Subtotal - Ex-franchise | <u>1,091</u>   | <u>16,811</u>             | <u>17,902</u>  | <u>34,009</u>             | <u>51,911</u>  |
| 18       | Rate 01                 | (660)          | (2,012)                   | (2,672)        | 254                       | (2,418)        |
| 19       | Rate 10                 | (91)           | (259)                     | (350)          | 242                       | (108)          |
| 20       | Rate 20                 | (73)           | (227)                     | (299)          | (2)                       | (301)          |
| 21       | Rate 100                | (60)           | (194)                     | (254)          | (78)                      | (332)          |
| 22       | Rate 25                 | (22)           | (71)                      | (92)           | (34)                      | (126)          |
| 23       | Subtotal - Union North  | <u>(906)</u>   | <u>(2,762)</u>            | <u>(3,667)</u> | <u>383</u>                | <u>(3,284)</u> |
| 24       | In-franchise            | (2,807)        | (8,336)                   | (11,144)       | 1,871                     | (9,272)        |
| 25       | Ex-franchise            | 1,091          | 16,811                    | 17,902         | 34,009                    | 51,911         |
| 26       | Total                   | <u>(1,716)</u> | <u>8,474</u>              | <u>6,758</u>   | <u>35,881</u>             | <u>42,639</u>  |

UNION GAS LIMITED  
Union North  
Average Unit Rate Impacts associated with 2017 Capital Pass-through Projects

|      |                                    |         | Current                   |                       | Parkway Projects (3)     |                        |                   | Burlington Oakville (3)  |                        |                   | 2016 D-P Expansion (3)   |                        |                   | 2017 D-P Expansion (3)   |                        |                   | Total                    |                        |                   |
|------|------------------------------------|---------|---------------------------|-----------------------|--------------------------|------------------------|-------------------|--------------------------|------------------------|-------------------|--------------------------|------------------------|-------------------|--------------------------|------------------------|-------------------|--------------------------|------------------------|-------------------|
| Line |                                    | Billing | Approved                  | Proposed              | Revenue                  | Rate                   | Percent           | Revenue                  | Rate                   | Percent           | Revenue                  | Rate                   | Percent           | Revenue                  | Rate                   | Percent           | Revenue                  | Rate                   | Percent           |
| No.  | Particulars (cents/m³)             | Units   | Rates (1)<br>(cents / m³) | Forecast<br>Usage (2) | Requirement<br>(\$000's) | Change<br>(cents / m³) | Change (4)<br>(%) | Requirement<br>(\$000's) | Change<br>(cents / m³) | Change (4)<br>(%) | Requirement<br>(\$000's) | Change<br>(cents / m³) | Change (4)<br>(%) | Requirement<br>(\$000's) | Change<br>(cents / m³) | Change (4)<br>(%) | Requirement<br>(\$000's) | Change<br>(cents / m³) | Change (4)<br>(%) |
|      |                                    |         | (a)                       | (b)                   | (c)                      | (d) = (c/b)            | (e)=(d/a)         | (f)                      | (g)=(f/b)              | (h)=(g/a)         | (i)                      | (j)=(i/b)              | (k)=(j/a)         | (l)                      | (m)=(l/b)              | (n)=(m/a)         | (o)=(c+f+i+l)            | (p)=(o/b)              | (q)=(p/a)         |
|      | Rate 01                            |         |                           |                       |                          |                        |                   |                          |                        |                   |                          |                        |                   |                          |                        |                   |                          |                        |                   |
| 1    | Delivery                           | 10³m³   | 16.8730                   | 909,690               | (1,778)                  | (0.1955)               | -1.2%             | (690)                    | (0.0758)               | -0.4%             | (2,280)                  | (0.2506)               | -1.5%             | (2,762)                  | (0.3036)               | -1.8%             | (7,509)                  | (0.8255)               | -4.9%             |
| 2    | Gas Supply Transportation          | 10³m³   | 6.6445                    | 926,963               | 14                       | 0.0015                 | 0.0%              | 11                       | 0.0012                 | 0.0%              | 32                       | 0.0034                 | 0.1%              | 45                       | 0.0049                 | 0.1%              | 101                      | 0.0109                 | 0.2%              |
| 3    | Storage                            | 10³m³   | 4.0087                    | 909,690               | 2,721                    | 0.2991                 | 7.5%              | (79)                     | (0.0086)               | -0.2%             | 1,978                    | 0.2175                 | 5.4%              | 48                       | 0.0052                 | 0.1%              | 4,668                    | 0.5131                 | 12.8%             |
| 4    | Average Rate 01                    | 10³m³   | 27.2684                   | 909,690               | 956                      | 0.1051                 | 0.4%              | (757)                    | (0.0833)               | -0.3%             | (270)                    | (0.0297)               | -0.1%             | (2,669)                  | (0.2934)               | -1.1%             | (2,740)                  | (0.3012)               | -1.1%             |
|      | Rate 10                            |         |                           |                       |                          |                        |                   |                          |                        |                   |                          |                        |                   |                          |                        |                   |                          |                        |                   |
| 5    | Delivery                           | 10³m³   | 5.8013                    | 337,112               | (205)                    | (0.0607)               | -1.0%             | (90)                     | (0.0266)               | -0.5%             | (285)                    | (0.0846)               | -1.5%             | (361)                    | (0.1072)               | -1.8%             | (941)                    | (0.2791)               | -4.8%             |
| 6    | Gas Supply Transportation          | 10³m³   | 6.1566                    | 343,530               | (1)                      | (0.0003)               | 0.0%              | 0                        | -                      | 0.0%              | (0)                      | (0.0001)               | 0.0%              | (0)                      | -                      | 0.0%              | (2)                      | (0.0005)               | 0.0%              |
| 7    | Storage                            | 10³m³   | 2.8096                    | 337,112               | 712                      | 0.2112                 | 7.5%              | (21)                     | (0.0061)               | -0.2%             | 518                      | 0.1536                 | 5.5%              | 12                       | 0.0037                 | 0.1%              | 1,222                    | 0.3625                 | 12.9%             |
| 8    | Average Rate 10                    |         | 14.4286                   | 337,112               | 507                      | 0.1503                 | 1.0%              | (110)                    | (0.0327)               | -0.2%             | 232                      | 0.0689                 | 0.5%              | (349)                    | (0.1036)               | -0.7%             | 280                      | 0.0829                 | 0.6%              |
|      | Rate 20 (5)                        |         |                           |                       |                          |                        |                   |                          |                        |                   |                          |                        |                   |                          |                        |                   |                          |                        |                   |
| 9    | Delivery                           | 10³m³   | 2.3209                    | 606,176               | (171)                    | (0.0282)               | -1.2%             | (73)                     | (0.0120)               | -0.5%             | (238)                    | (0.0393)               | -1.7%             | (301)                    | (0.0496)               | -2.1%             | (783)                    | (0.1292)               | -5.6%             |
| 10   | Gas Supply Transportation          | 10³m³   | 8.3057                    | 121,935               | 109                      | 0.0893                 | 1.1%              | (3)                      | (0.0025)               | 0.0%              | 78                       | 0.0643                 | 0.8%              | 3                        | 0.0027                 | 0.0%              | 187                      | 0.1537                 | 1.9%              |
| 11   | Average Rate 20                    |         | 3.9837                    | 606,176               | (62)                     | (0.0103)               | -0.3%             | (76)                     | (0.0125)               | -0.3%             | (160)                    | (0.0264)               | -0.7%             | (298)                    | (0.0491)               | -1.2%             | (596)                    | (0.0982)               | -2.5%             |
|      | Rate 100 (5)                       |         |                           |                       |                          |                        |                   |                          |                        |                   |                          |                        |                   |                          |                        |                   |                          |                        |                   |
| 12   | Delivery                           | 10³m³   | 0.8595                    | 1,814,867             | (148)                    | (0.0082)               | -1.0%             | (61)                     | (0.0034)               | -0.4%             | (202)                    | (0.0111)               | -1.3%             | (254)                    | (0.0140)               | -1.6%             | (665)                    | (0.0366)               | -4.3%             |
|      | Rate 20 & Rate 100 (5)             |         |                           |                       |                          |                        |                   |                          |                        |                   |                          |                        |                   |                          |                        |                   |                          |                        |                   |
| 13   | Bundled Storage                    | \$/GJ   | 2.601                     | 739,477               | 90                       | 0.121                  | 4.7%              | (3)                      | (0.004)                | -0.2%             | 67                       | 0.090                  | 3.5%              | (2)                      | (0.003)                | -0.1%             | 151                      | 0.205                  | 7.9%              |
|      | Rate 25                            |         |                           |                       |                          |                        |                   |                          |                        |                   |                          |                        |                   |                          |                        |                   |                          |                        |                   |
| 14   | Delivery                           | 10³m³   | 2.7662                    | 159,555               | (55)                     | (0.0343)               | -1.2%             | (22)                     | (0.0139)               | -0.5%             | (74)                     | (0.0462)               | -1.7%             | (91)                     | (0.0571)               | -2.1%             | (242)                    | (0.1515)               | -5.5%             |
| 15   | Gas Supply Transportation          | 10³m³   | 3.9483                    | 42,913                | (2)                      | (0.0044)               | -0.1%             | (0)                      | (0.0002)               | 0.0%              | (1)                      | (0.0025)               | -0.1%             | (1)                      | (0.0019)               | 0.0%              | (4)                      | (0.0091)               | -0.2%             |
| 16   | Average Rate 25                    |         | 3.8998                    | 159,555               | (57)                     | (0.0355)               | -0.9%             | (22)                     | (0.0140)               | -0.4%             | (75)                     | (0.0468)               | -1.2%             | (92)                     | (0.0577)               | -1.5%             | (246)                    | (0.1540)               | -3.9%             |
| 17   | Total Union North In-Franchise (6) |         |                           |                       | 1,285                    |                        |                   | (1,029)                  |                        |                   | (408)                    |                        |                   | (3,663)                  |                        |                   | (3,815)                  |                        |                   |

Notes:

- (1) Rate Order, Working Papers, Schedule 4, column (c).
- (2) Rate Order, Working Papers, Schedule 4, column (t).
- (3) Rate Order, Working Papers, Schedule 10, p. 2 for project-specific total revenue requirement by rate class.
- (4) Excludes Gas Supply Commodity related costs.
- (5) Costs per Rate Order, Working Papers, Schedule 10, p.2 includes Rate 20 & Rate 100 bundled storage.
- (6) Rate Order, Working Papers, Schedule 10, p. 2, line 6.

UNION GAS LIMITED  
Union South  
Average Unit Rate Impacts associated with 2017 Capital Pass-through Projects

| Line No. | Particulars (cents/m³)               | Billing Units | Current            | Parkway Projects (3) |                     |              | Burlington Oakville (3) |                     |              | 2016 D-P Expansion (3) |                     |              | 2017 D-P Expansion (3) |                     |              | Total              |                     |              |                |
|----------|--------------------------------------|---------------|--------------------|----------------------|---------------------|--------------|-------------------------|---------------------|--------------|------------------------|---------------------|--------------|------------------------|---------------------|--------------|--------------------|---------------------|--------------|----------------|
|          |                                      |               | Approved Rates (1) | Proposed Forecast    | Revenue Requirement | Rate Change  | Percent Change (4)      | Revenue Requirement | Rate Change  | Percent Change (4)     | Revenue Requirement | Rate Change  | Percent Change (4)     | Revenue Requirement | Rate Change  | Percent Change (4) | Revenue Requirement | Rate Change  | Percent Change |
|          |                                      |               | (cents / m³)       | Usage (2)            | (\$000's)           | (cents / m³) | (%)                     | (\$000's)           | (cents / m³) | (%)                    | (\$000's)           | (cents / m³) | (%)                    | (\$000's)           | (cents / m³) | (%)                | (\$000's)           | (cents / m³) | (%)            |
|          |                                      |               | (a)                | (b)                  | (c)                 | (d) = (c/b)  | (e)=(d/a)               | (f)                 | (g)=(f/b)    | (h)=(g/a)              | (i)                 | (j)=(i/b)    | (k)=(j/a)              | (l)                 | (m)=(l/b)    | (n)=(m/a)          | (o)=(c+f+i+l)       | (p)=(o/b)    | (q)=(p/a)      |
|          | Rate M1                              |               |                    |                      |                     |              |                         |                     |              |                        |                     |              |                        |                     |              |                    |                     |              |                |
| 1        | Delivery                             | 10³m³         | 12.5772            | 2,897,179            | (2,680)             | (0.0925)     | -0.7%                   | 3,600               | 0.1243       | 1.0%                   | (2,083)             | (0.0719)     | -0.6%                  | (5,265)             | (0.1817)     | -1.4%              | (6,428)             | (0.2219)     | -1.8%          |
| 2        | Storage                              | 10³m³         | 0.7027             | 2,897,179            | (366)               | (0.0126)     | -1.8%                   | (164)               | (0.0057)     | -0.8%                  | (542)               | (0.0187)     | -2.7%                  | (578)               | (0.0199)     | -2.8%              | (1,650)             | (0.0569)     | -8.1%          |
| 3        | Average Rate M1                      |               | 13.2799            | 2,897,179            | (3,046)             | (0.1051)     | -0.8%                   | 3,436               | 0.1186       | 0.9%                   | (2,625)             | (0.0906)     | -0.7%                  | (5,843)             | (0.2017)     | -1.5%              | (8,077)             | (0.2788)     | -2.1%          |
|          | Rate M2                              |               |                    |                      |                     |              |                         |                     |              |                        |                     |              |                        |                     |              |                    |                     |              |                |
| 4        | Delivery                             | 10³m³         | 4.2345             | 1,127,028            | 34                  | 0.0030       | 0.1%                    | 1,537               | 0.1363       | 3.2%                   | 421                 | 0.0373       | 0.9%                   | (466)               | (0.0414)     | -1.0%              | 1,525               | 0.1353       | 3.2%           |
| 5        | Storage                              | 10³m³         | 0.6161             | 1,127,028            | (125)               | (0.0111)     | -1.8%                   | (56)                | (0.0050)     | -0.8%                  | (185)               | (0.0164)     | -2.7%                  | (197)               | (0.0175)     | -2.8%              | (563)               | (0.0499)     | -8.1%          |
| 6        | Average M2                           |               | 4.8506             | 1,127,028            | (91)                | (0.0081)     | -0.2%                   | 1,481               | 0.1314       | 2.7%                   | 236                 | 0.0210       | 0.4%                   | (663)               | (0.0589)     | -1.2%              | 963                 | 0.0854       | 1.8%           |
|          | Rate M4                              |               |                    |                      |                     |              |                         |                     |              |                        |                     |              |                        |                     |              |                    |                     |              |                |
| 7        | Delivery                             | 10³m³         | 3.8788             | 349,263              | (15)                | (0.0044)     | -0.1%                   | 495                 | 0.1417       | 3.7%                   | 96                  | 0.0274       | 0.7%                   | (156)               | (0.0447)     | -1.2%              | 419                 | 0.1201       | 3.1%           |
|          | Rate M5 - Firm                       |               |                    |                      |                     |              |                         |                     |              |                        |                     |              |                        |                     |              |                    |                     |              |                |
| 8        | Delivery                             | 10³m³         | 3.5202             | 15,121               | (5)                 | (0.0340)     | -1.0%                   | 8                   | 0.0517       | 1.5%                   | (3)                 | (0.0170)     | -0.5%                  | (4)                 | (0.0289)     | -0.8%              | (4)                 | (0.0282)     | -0.8%          |
|          | Rate M5 - Interruptible              |               |                    |                      |                     |              |                         |                     |              |                        |                     |              |                        |                     |              |                    |                     |              |                |
| 9        | Delivery                             | 10³m³         | 2.9432             | 450,329              | (134)               | (0.0298)     | -1.0%                   | (52)                | (0.0116)     | -0.4%                  | (172)               | (0.0382)     | -1.3%                  | (214)               | (0.0476)     | -1.6%              | (573)               | (0.1271)     | -4.3%          |
|          | Rate M7 - Firm                       |               |                    |                      |                     |              |                         |                     |              |                        |                     |              |                        |                     |              |                    |                     |              |                |
| 10       | Delivery                             | 10³m³         | 3.5904             | 120,879              | 16                  | 0.0132       | 0.4%                    | 181                 | 0.1499       | 4.2%                   | 71                  | 0.0585       | 1.6%                   | (41)                | (0.0338)     | -0.9%              | 227                 | 0.1878       | 5.2%           |
|          | Rate M7 - Interruptible              |               |                    |                      |                     |              |                         |                     |              |                        |                     |              |                        |                     |              |                    |                     |              |                |
| 11       | Delivery                             | 10³m³         | 1.4412             | 3,949                | (2)                 | (0.0477)     | -3.3%                   | (1)                 | (0.0147)     | -1.0%                  | (2)                 | (0.0533)     | -3.7%                  | (2)                 | (0.0605)     | -4.2%              | (7)                 | (0.1762)     | -12.2%         |
|          | Rate M9                              |               |                    |                      |                     |              |                         |                     |              |                        |                     |              |                        |                     |              |                    |                     |              |                |
| 12       | Delivery                             | 10³m³         | 1.3360             | 60,750               | 14                  | 0.0238       | 1.8%                    | 61                  | 0.1003       | 7.5%                   | 37                  | 0.0602       | 4.5%                   | (1)                 | (0.0019)     | -0.1%              | 111                 | 0.1825       | 13.7%          |
|          | Rate M10                             |               |                    |                      |                     |              |                         |                     |              |                        |                     |              |                        |                     |              |                    |                     |              |                |
| 13       | Delivery                             | 10³m³         | 5.9327             | 189                  | 0                   | 0.0097       | 0.2%                    | 2                   | 0.9448       | 15.9%                  | 1                   | 0.4331       | 7.3%                   | (0)                 | (0.1154)     | -1.9%              | 2                   | 1.2722       | 21.4%          |
|          | Rate T1 - Storage and Transportation |               |                    |                      |                     |              |                         |                     |              |                        |                     |              |                        |                     |              |                    |                     |              |                |
| 14       | Delivery                             | 10³m³         | 2.0873             | 511,234              | (45)                | (0.0089)     | -0.4%                   | 431                 | 0.0843       | 4.0%                   | 5                   | 0.0010       | 0.0%                   | (122)               | (0.0239)     | -1.1%              | 269                 | 0.0526       | 2.5%           |
|          | Rate T2 - Storage and Transportation |               |                    |                      |                     |              |                         |                     |              |                        |                     |              |                        |                     |              |                    |                     |              |                |
| 15       | Delivery                             | 10³m³         | 0.9886             | 4,597,268            | (29)                | (0.0006)     | -0.1%                   | 3,306               | 0.0719       | 7.3%                   | 352                 | 0.0077       | 0.8%                   | (430)               | (0.0094)     | -1.0%              | 3,199               | 0.0696       | 7.0%           |
|          | Rate T3 - Storage and Transportation |               |                    |                      |                     |              |                         |                     |              |                        |                     |              |                        |                     |              |                    |                     |              |                |
| 16       | Delivery                             | 10³m³         | 1.8643             | 272,712              | 109                 | 0.0401       | 2.2%                    | 425                 | 0.1558       | 8.4%                   | 268                 | 0.0983       | 5.3%                   | 13                  | 0.0046       | 0.2%               | 815                 | 0.2988       | 16.0%          |
| 17       | Total Union South In-Franchise (5)   |               |                    |                      | (3,228)             |              |                         | 9,773               |              |                        | (1,736)             |              |                        | (7,465)             |              |                    | (2,656)             |              |                |

Notes:

- (1) Rate Order, Working Papers, Schedule 4, column (c).  
(2) Rate Order, Working Papers, Schedule 4, column (t).  
(3) Rate Order, Working Papers, Schedule 10, p. 2 for project-specific total revenue requirement by rate class.  
(4) Excludes Gas Supply Commodity related costs.  
(5) Rate Order, Working Papers, Schedule 10, p. 2, line 17.

UNION GAS LIMITED  
Rate M12/M12-X/C1 Transportation Demand Charges Impacts associated with 2017 Capital Pass-through Projects

| Line No. | Services                      | Current<br>Approved<br>Rates<br>(\$/GJ/day) (1)<br>(a) | Parkway Projects                     |                                         | Burlington-Oakville                  |                                         | 2016 D-P Expansion                   |                                         | 2017 D-P Expansion                   |                                         | Total                                                  |                                         |
|----------|-------------------------------|--------------------------------------------------------|--------------------------------------|-----------------------------------------|--------------------------------------|-----------------------------------------|--------------------------------------|-----------------------------------------|--------------------------------------|-----------------------------------------|--------------------------------------------------------|-----------------------------------------|
|          |                               |                                                        | Rate<br>Change<br>(\$/GJ/day)<br>(b) | Percent<br>Change<br>(%)<br>(c) = (b/a) | Rate<br>Change<br>(\$/GJ/day)<br>(d) | Percent<br>Change<br>(%)<br>(e) = (d/a) | Rate<br>Change<br>(\$/GJ/day)<br>(f) | Percent<br>Change<br>(%)<br>(g) = (f/a) | Rate<br>Change<br>(\$/GJ/day)<br>(h) | Percent<br>Change<br>(%)<br>(i) = (h/a) | Rate<br>Change (2)<br>(\$/GJ/day)<br>(j) = (a+b+d+f+h) | Percent<br>Change<br>(%)<br>(k) = (j/a) |
| 1        | M12/C1 Dawn to Kirkwall       | 0.080                                                  | -0.002                               | -2.5%                                   | -0.001                               | -1.3%                                   | 0.010                                | 12.5%                                   | 0.007                                | 8.8%                                    | 0.094                                                  | 17.5%                                   |
| 2        | M12/C1 Dawn to Parkway        | 0.095                                                  | -0.003                               | -3.2%                                   | 0.000                                | 0.0%                                    | 0.012                                | 12.6%                                   | 0.007                                | 7.4%                                    | 0.111                                                  | 16.8%                                   |
| 3        | M12/C1 Kirkwall to Parkway    | 0.015                                                  | 0.000                                | 0.0%                                    | 0.000                                | 0.0%                                    | 0.002                                | 13.3%                                   | 0.001                                | 6.7%                                    | 0.018                                                  | 20.0%                                   |
| 4        | C1 Parkway to Kirkwall / Dawn | 0.024                                                  | -0.001                               | -4.2%                                   | 0.000                                | 0.0%                                    | 0.003                                | 12.5%                                   | 0.001                                | 4.2%                                    | 0.027                                                  | 12.5%                                   |
| 5        | M12-X                         | 0.119                                                  | -0.004                               | -3.4%                                   | 0.000                                | 0.0%                                    | 0.015                                | 12.6%                                   | 0.009                                | 7.6%                                    | 0.139                                                  | 16.8%                                   |

Notes:

- (1) EB-2016-0245, Rate Order, Working Papers, Schedule 4, column (c).  
(2) The difference between column (j) and the 2017 proposed Rate M12/C1 Transportation Demand Charges is due to the PCI adjustment found at Working Papers, Schedule 4, column (i).

UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Exhibit A, Tab 1, pp. 8-10, Working Papers, Schedule 23

Preamble: Union proposed to implement changes to Union North storage and transportation rates in accordance with the Dawn Reference Price Settlement Proposal (EB-2015-0181) approved by the OEB on January 7, 2016. There will also be related changes to Union's service areas.

Union noted that it plans to change the reference price used to set gas commodity rates to account for the changing gas supply portfolio with the Quarterly Rate Adjustment Mechanism (GRAM) coincident with or immediately following the TransCanada King's North Project in-service date.

- a) Please explain how Union intends to communicate to customers: (i) the planned changes to their service areas; and (ii) the bill impacts arising from the implementation of the changes related to the Dawn Reference Price Settlement. If available, please provide a communications plan.
  - b) Please provide the current expected in-service date of the King's North Project.
  - c) Please explain Union's implementation plan for the changes related to the Dawn Reference Price Settlement if the King's North Project is delayed beyond January 1, 2017.
  - d) Please explain the allocation between transportation and storage set out in Columns A and B at Working Papers / Schedule 23 / p. 1. Please provide supporting evidence.
  - e) Please provide the calculation for the common cost allocation by zone set out in Column G at Working Papers / Schedule 23 / p. 1.
  - f) Please provide the calculation for the gas supply optimization allocation by zone set out in Column H at Working Papers / Schedule 23 / p. 1.
  - g) Please provide the supporting calculation for the Incentive Rate Mechanism (IRM) adjustment in Columns I and J at Working Papers / Schedule 23 / p. 1.
  - h) Please file the relevant toll schedules supporting the April 2015 and October 2016 tolls used in Working Papers / Schedule 23 / pp. 2-3.
-

**Response:**

- a) Union has developed a communications plan to address the rate and service area changes related to the Dawn Reference Price Settlement Proposal (EB-2015-0181) effective January 1, 2017. The plan will continue to evolve as necessary as the rate changes are implemented.

General Service Customers (residential and small business)

Union will communicate the service area and rate changes to the general service customers using the following methods:

- January 2017 rate inserts – “transition” inserts have been designed for January 2017 which will include rate change information and both the former rate zone and new rate zone<sup>1</sup> identifiers for customers that will see a change in their service areas.
- Customer newsletter inserts – rate change and service area change information will be provided in both the residential InTouch and small business Energy link newsletter inserts in January 2017.
- Uniongas.com – current and historical rates will be posted on the Union website, as well as, FAQ’s for both residential and small business customers.
- IVR messaging – customers will hear a message about change rates and service areas when they call Union’s contact centres in January 2017.
- Call Centre – Union customer representatives provide ongoing support to customers through the year and are available to discuss rate changes and answer individual questions as required.

Please also see Attachment 1 for Union’s general service communication plan, including key messages.

Contract and Energy Marketer Customers

Union Gas has and will continue to communicate the service area and rate change information to our contract and energy marketer customers using the following methods:

**Enerline and Factsline email newsletters and postings on Union Gas website.** The first communication was sent in October 2014. After filing EB-2015-0181 a communication through the Enerline/Factsline newsletter was issued on July 21, 2015. Updates on the service area and reference price rate changes have continued using these newsletters, with the information posted online, throughout 2015 and 2016 (Nov. 26, 2015; Mar. 24, 2016; Aug. 24, 2016). Union Gas communicated the original 2017 rates filing (EB-2016-0245) on Sept. 29, 2016 and the refiled 2017 rates on Oct. 29, 2016. Union plans to send an Enerline/Factsline once final 2017 rates are approved.

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<sup>1</sup> Rate Zone changes per the Dawn Reference Price and North T-Service proceeding (EB-2015-0181) Decision and Order dated January 7, 2016.

Historical Enerline/Factsline communications can be found online at <https://www.uniongas.com/business/communication-centre/newsletter>.

**Formal customer and energy marketer meetings.** Union Gas conducts group customer meetings as part of the normal course of business. Rate updates during these meetings included the proposed changes beginning the spring of 2015. These meeting occur annually and presentations are posted on the Union Gas website. These meeting occurred in May 2015 and May 2016. Presentations can be found online at <https://www.uniongas.com/business/your-business/energy-marketers>.

**Customer webex meeting.** Union Gas hosted a webex meeting on April 2, 2015 with customers. The webex can be found online at <https://www.uniongas.com/business/your-business/energy-marketers>.

**Ongoing customer discussions and support.** Union Gas Account Managers provide ongoing support to customers through the year and are available to discuss rate and service changes and answer individual questions as required.

- b) On November 2, 2016, TransCanada PipeLine (“TransCanada”) received approval from the National Energy Board (“NEB”) on their leave to open application. Union is still awaiting final communication from TransCanada on the exact in-service date of the King’s North Project, however, Union is expecting the project will be in-service by mid November.
- c) As noted above, TransCanada has received leave to open approval from the NEB for the King’s North facilities. In addition, TransCanada has indicated that the Maple facilities will be in-service early December 2016. Given this recent information, we do not expect the facilities in-service date will extend beyond January 1, 2017.

However, in the unlikely circumstance that the TransCanada Maple facilities are delayed beyond January 1, 2017, Union would expect the in-service date to be imminent and would proceed with plans to implement changes in Union North East and Union North West storage and transportation rates effective January 1, 2017. Changes to the reference price will also be reflected in the January 2017 QRAM proceeding.

- d) In Union’s EB-2015-0181 proceeding, Union sought approval to update the Union North storage and transportation rates based on the gas supply plan for each calendar year from 2017 to 2018. Union’s evidence provided the detailed cost allocation, rate design and bill impacts based on the calendar year 2018 gas supply plan.

For the calendar year 2017 gas supply plan, Union provided the revenue requirement by zone by rate class at EB-2015-0181, Exhibit A, Tab 2, Appendix A, Schedule 7, column (c). To determine the 2017 cost allocation by rate class, Union applied the cost allocation methodology described at EB-2015-0181, Exhibit A, Tab 2, pp. 18-24 to the calendar year 2017 gas supply plan.

The detailed cost allocation working papers for the calendar year 2017 gas supply plan, including the storage and transportation cost allocation detail, are provided at Attachment 2.

- e) As described at EB-2015-0181, Exhibit A, Tab 2, p. 24, lines 17-19, the recovery of common costs for each of the Union North West and Union North East Zones is in proportion to annual billing units for each rate class. By using the annual billing units, the recovery of the common costs is the same for all Union North customers within each rate class, regardless of zone. The calculation of the Union North recovery of common costs by rate class is provided at Attachment 3.
- f) The gas supply optimization credit is recovered by the Union North West and Union North East Zone for each rate class in proportion to annual billing units, consistent with the existing recovery of gas supply optimization credit, per Rate Order, Working Papers, Schedule 14, p. 2. The recovery of the gas supply optimization credit for each of the Union North zone is provided at Attachment 4.
- g) The supporting calculation for the Incentive Rate Mechanism (“IRM”) adjustment is provided at Attachment 5.
- h) Please see Attachment 6 for the summary of the relevant tolls. Please see Attachments 7-12 for the relevant toll schedules for TransCanada and CTHI/CPMI.

**Residential & Banner-Billed Business Customers Rate Zone Change Communication Plan**  
**4 Nov. 2016 (DRAFT)**

**Audiences**

| <b>Audience</b>              | <b># of Customers</b> | <b>Current Rate Classes</b>         |
|------------------------------|-----------------------|-------------------------------------|
| Residential customers        | ~1,300,000            | M1, 101, 201, 301, 601 (sales & DP) |
| Business (all Banner billed) | ~110,000              | M2, 110, 210, 310, 610 (sales & DP) |

**Residential**

| <b>Date</b>  | <b>Tactic</b>                                                                                                         |
|--------------|-----------------------------------------------------------------------------------------------------------------------|
| January 2017 | New North West rate notice<br>(distributed in paper bills & posted online)                                            |
|              | New North East rate notice<br>(distributed in paper bills & posted online)                                            |
|              | Existing Rate M1 rate notice<br>(distributed in paper bills & posted online)                                          |
|              | FAQs<br>(posted online)                                                                                               |
|              | intouch newsletter<br>(distributed in paper bills & posted online)                                                    |
|              | IVR message – rate 01                                                                                                 |
|              | Uniresponse                                                                                                           |
|              | <a href="http://uniongas.com/residentialrates">uniongas.com/residentialrates</a>                                      |
|              | <a href="http://uniongas.com/residential/rates/historical-rates">uniongas.com/residential/rates/historical-rates\</a> |

**Business (Banner Billed, Non-Account Managed)**

| Date         | Tactic                                                                                                                                                                                                   |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| January 2017 | New North West rate notice<br>(distributed in paper bills & posted online)                                                                                                                               |
|              | New North East rate notice<br>(distributed in paper bills & posted online)                                                                                                                               |
|              | Existing Rate M2 rate notice<br>(distributed in paper bills & posted online)                                                                                                                             |
|              | Online FAQs -<br><a href="https://www.uniongas.com/business/account-services/myaccount/rates/faqs">https://www.uniongas.com/business/account-services/myaccount/rates/faqs</a>                           |
|              | Energylink newsletter<br>(distributed in paper bills & posted online)                                                                                                                                    |
|              | Uniresponse                                                                                                                                                                                              |
|              | Rates webpage – MyAccount business section<br><a href="https://www.uniongas.com/business/account-services/myaccount/rates">https://www.uniongas.com/business/account-services/myaccount/rates</a>        |
|              | Business historical rates webpage<br><a href="https://www.uniongas.com/business/account-services/myaccount/rates/summary">https://www.uniongas.com/business/account-services/myaccount/rates/summary</a> |

**Rate Class Change Key Messages\***  
**(May be updated as required)**

**Residential**

- North American natural gas markets are changing, with increasing gas production in areas closer to Ontario, and declining production from Western Canada
- As a result, Union Gas has received approval from the Ontario Energy Board (OEB) to change its rates and applicable areas (rate zones) to better reflect how it buys and transports natural gas to northern and eastern Ontario and the true costs to supply gas for these customers as of Jan. 1, 2017
- Customers will be made aware of their new rate zone
- This will result in changes to Union Gas customer rates that vary depending on where they live and be phased in between 2017 and 2018
- Rate M1- South customers who buy their natural gas from Union Gas will not see a Transportation to Union Gas rate on their bill because the cost of transporting gas to Ontario is captured in the commodity rate

- Customers in the new *Rate 01 - North East* zone will notice a significant increase in the commodity price on their bill, but this is offset by a significant decrease in the transportation cost, resulting in a small total net bill increase of about 5% or less
- Union Gas buys natural gas and gas transportation services in a highly competitive open market and passes the actual cost of these to you without mark up
- The OEB reviews and approves our gas rates before they take effect, ensuring that the rates we pass onto you are fair and reasonable
- Equal Billing Plan customer payment amounts are periodically reviewed throughout the year to determine if payment amounts are set at the correct levels and, if not, they're adjusted based on the more current information, including natural gas and gas transportation rate changes
- If you're a customer who buys natural gas from an energy marketer, the price you pay for your gas depends on the terms of your contract. Contact your energy marketer directly at the telephone number that appears on your bill with questions
- Visit **[uniongas.com/residentialrates](http://uniongas.com/residentialrates)** for more information

### **Business (Banner Billed)**

- North American natural gas markets are changing, with increasing gas production in areas closer to Ontario, and declining production from Western Canada
- As a result, Union Gas has received approval from the Ontario Energy Board (OEB) to change its rates and applicable areas (rate zones) to better reflect how it supplies and transports natural gas to its customers in northwestern and northeastern Ontario and the true costs to buy and transport gas for those areas as of Jan. 1, 2017
- Customers will be made aware of their new rate zone
- This will result in changes to Union Gas customer rates that vary depending on where they are located and be phased in between 2017 and 2018
- Union Gas buys natural gas supplies from the market and we pay other pipeline companies to transport the gas supply from where it is produced into the Union Gas distribution system in Ontario. In northern Ontario, the transportation costs on your bill reflect the different mix of natural gas transportation pipelines and supply markets (where we purchase natural gas supplies) that are used to serve your area of the province.

- Rate M2- South customers who buy their natural gas from Union Gas will not see a Transportation to Union Gas rate on their bill because the cost of transporting gas to Ontario is captured in the commodity rate
- Customers in the new *Rate 10 - North East* zone will notice a significant increase in the commodity price on their bill, but this is offset by a significant decrease in the transportation cost, resulting in a small total net bill increase of about 5% or less
- Union Gas buys natural gas and gas transportation services in a highly competitive open market and passes the actual cost of these to you without mark up
- The Ontario Energy Board reviews and approves our gas rates before they take effect, ensuring that the rates we pass onto you are fair and reasonable
- If you're a Union North customer who buys natural gas from an energy marketer, the price you pay for your gas depends on the terms of your contract. Contact your energy marketer directly at the telephone number that appears on your bill with questions
- If you're a Union South customer who buys natural gas from an energy marketer, the price you pay for gas and gas transportation depends on the terms of your contract. Contact your energy marketer directly at the telephone number that appears on your bill with questions
- Visit **[uniongas.com/business](http://uniongas.com/business)** for more information

*\*There will be other rate changes occurring on Jan. 1, 2017, that will impact customer bills (e.g. QRAM, cap and trade, potential deferral clearing). Therefore, the above messages will be co-ordinated and blended with other rate change-related messaging to provide customers with a complete picture including overall bill impacts on an annualized basis as per our usual approach.*

UNION GAS LIMITED  
Approved Union North Storage and Transportation Cost Allocation to the Union North West Zone and Union North East Zone  
Based on the 2017 Gas Supply Plan at April 2015 QRAM

| Line No. | Particulars (\$000's)                              | Total<br>(a)          | Union<br>North West<br>(b) | Union<br>North East<br>(c) |
|----------|----------------------------------------------------|-----------------------|----------------------------|----------------------------|
|          | <u>Summary of Transportation and Storage Costs</u> |                       |                            |                            |
| 1        | Transportation Demand (1)                          | 57,671                | 26,453                     | 31,217                     |
| 2        | Transportation Commodity (2)                       | 1,639                 | 638                        | 1,001                      |
| 3        | Storage Demand (3)                                 | 54,687                | 4,460                      | 50,227                     |
| 4        | Storage Commodity (4)                              | 2,869                 | 685                        | 2,184                      |
| 5        | Total Demand and Commodity Costs                   | <u>116,866</u>        | <u>32,236</u>              | <u>84,630</u>              |
| 6        | Total Transportation Common Costs (5)              | <u>1,470</u>          |                            |                            |
| 7        | Total Transportation and Storage Costs             | <u><u>118,336</u></u> |                            |                            |

Notes:

- (1) Exhibit B.Staff.4, Attachment 2, page 2, line 1 and line 8.
- (2) Exhibit B.Staff.4, Attachment 2, page 2, line 6 and line 9.
- (3) Exhibit B.Staff.4, Attachment 2, page 3, line 1 and lines 4 - 7.
- (4) Exhibit B.Staff.4, Attachment 2, page 3, line 2 and lines 8 - 9.
- (5) Exhibit B.Staff.4, Attachment 2, page 2, line 2 and line 4.

UNION GAS LIMITED  
Approved Union North Storage and Transportation Cost Allocation to the Union North West Zone and Union North East Zone  
Based on the 2017 Gas Supply Plan at April 2015 QRAM

| Line No. | Particulars                                       | Detailed Transportation Costs (\$000's) |                  |                  | Allocation Factors                                                |        |                  |                  |
|----------|---------------------------------------------------|-----------------------------------------|------------------|------------------|-------------------------------------------------------------------|--------|------------------|------------------|
|          |                                                   | Total                                   | Union North West | Union North East | Factor Description                                                | Total  | Union North West | Union North East |
|          |                                                   | (a)                                     | (b)              | (c)              | (d)                                                               | (e)    | (f)              | (g)              |
|          | <u>Cost of Gas - Transportation Demand Costs</u>  |                                         |                  |                  |                                                                   |        |                  |                  |
| 1        | Cost of Gas - Transportation Demand               | 55,457                                  | 26,453           | 29,004           | Direct Assignment (\$000's)                                       | 55,457 | 26,453           | 29,004           |
| 2        | Cost of Gas - Transportation Common Costs         | 1,271                                   | -                | -                |                                                                   | -      | -                | -                |
| 3        | Total Cost of Gas - Transportation Demand Costs   | <u>56,728</u>                           | <u>26,453</u>    | <u>29,004</u>    |                                                                   |        |                  |                  |
| 4        | Other Common Union Transportation Costs           | 199                                     | -                | -                |                                                                   | -      | -                | -                |
| 5        | Total excluding Fuel and Dawn-Parkway Costs       | <u>56,927</u>                           |                  |                  |                                                                   |        |                  |                  |
| 6        | Cost of Gas - Transportation Fuel                 | 1,534                                   | 638              | 896              | Direct Assignment (\$000's)                                       | 1,534  | 638              | 896              |
| 7        | Total excluding Dawn-Parkway Costs                | <u>58,460</u>                           |                  |                  |                                                                   |        |                  |                  |
|          | <u>Dawn-Parkway Costs (1)</u>                     |                                         |                  |                  |                                                                   |        |                  |                  |
| 8        | Dawn-Parkway Demand Cost                          | 2,214                                   | -                | 2,214            | Dawn-Parkway Design Day Demands (10 <sup>3</sup> m <sup>3</sup> ) | 2,671  | -                | 2,671            |
| 9        | Dawn-Parkway Commodity Cost                       | 106                                     | -                | 106              | Direct Assignment (\$000's)                                       | 106    | -                | 106              |
| 10       | Total Dawn-Parkway Costs                          | <u>2,319</u>                            | <u>-</u>         | <u>2,319</u>     |                                                                   |        |                  |                  |
| 11       | Total Allocated Costs (line 1 + line 6 + line 10) | 59,310                                  | <u>27,091</u>    | <u>32,219</u>    |                                                                   |        |                  |                  |
| 12       | Total Common Costs (line 2 + line 4)              | <u>1,470</u>                            |                  |                  |                                                                   |        |                  |                  |
| 13       | Total Transportation Costs (line 12 + line 13)    | <u><u>60,780</u></u>                    |                  |                  |                                                                   |        |                  |                  |

Notes:

- (1) Dawn-Parkway costs associated with the Union North East Zone's use of the Dawn-Parkway system on design day. Based on the 2017 Dawn-Parkway design day demands, 2,671 10<sup>3</sup>m<sup>3</sup> (or 27%) of the total demands of 9,813 10<sup>3</sup>m<sup>3</sup> (or approximately \$2.3 million of Union North Dawn-Parkway costs) are associated with firm transportation.

UNION GAS LIMITED  
Approved Union North Storage and Transportation Cost Allocation to the Union North West Zone and Union North East Zone  
Based on the 2017 Gas Supply Plan at April 2015 QRAM

| Line No. | Particulars                            | Detailed Storage Costs (\$000's) |                  |                  | Allocation Factors (10 <sup>3</sup> m <sup>3</sup> ) |         |                  |                  |
|----------|----------------------------------------|----------------------------------|------------------|------------------|------------------------------------------------------|---------|------------------|------------------|
|          |                                        | Total                            | Union North West | Union North East | Factor Description                                   | Total   | Union North West | Union North East |
|          |                                        | (a)                              | (b)              | (c)              | (d)                                                  | (e)     | (f)              | (g)              |
|          | <u>Cost of Gas - Storage Costs</u>     |                                  |                  |                  |                                                      |         |                  |                  |
| 1        | Storage Demand (TCPL STS, FT)          | 41,395                           | 1,558            | 39,837           | Direct Assignment                                    | 41,395  | 1,558            | 39,837           |
| 2        | Storage Fuel (TCPL STS, FT)            | 662                              | 274              | 388              | Direct Assignment                                    | 662     | 274              | 388              |
| 3        | Total Cost of Gas - Storage Costs      | <u>42,057</u>                    | <u>1,832</u>     | <u>40,225</u>    |                                                      |         |                  |                  |
|          | <u>Storage Costs (Allocated)</u>       |                                  |                  |                  |                                                      |         |                  |                  |
| 4        | Storage Deliverability                 | 4,190                            | 853              | 3,338            | Storage Design Day Demands                           | 7,938   | 1,615            | 6,323            |
| 5        | Storage Space                          | 5,644                            | 1,533            | 4,111            | Aggregate Excess (1)                                 | 438,925 | 119,234          | 319,691          |
| 6        | Dawn-Parkway Demand                    | 5,919                            | 679              | 5,240            | Dawn-Parkway Design Day Demands                      | 7,142   | 819              | 6,323            |
| 7        | Reclassification to Delivery           | (2,461)                          | (162)            | (2,299)          | Indirect (2)                                         |         |                  |                  |
| 8        | Storage Commodity                      | 1,925                            | 374              | 1,551            | Storage Volumes                                      | 891,274 | 172,956          | 718,318          |
| 9        | Dawn-Parkway Commodity                 | 282                              | 37               | 245              | Storage Volumes excl. Union SSMDA                    | 825,716 | 108,934          | 716,782          |
| 10       | Total Allocated Storage Costs          | <u>15,499</u>                    | <u>3,313</u>     | <u>12,187</u>    |                                                      |         |                  |                  |
| 11       | Total Storage Costs (line 3 + line 10) | <u>57,556</u>                    | <u>5,145</u>     | <u>52,411</u>    |                                                      |         |                  |                  |

Notes:

- (1) 2016 Union North storage space forecast based on aggregate excess, the excess of winter volumes (November-March) compared to the average annual volumes for the same 151-day period.  
(2) Storage costs deemed to be system integrity-related and recovered in delivery rates, as per Board-approved methodology. Costs are allocated to zone in proportion to Dawn-Parkway and STS Demand costs, as per EB-2011-0210, Rate Order, Working Papers, Schedule 20.

UNION GAS LIMITED  
Approved Union North Transportation and Storage Cost Allocation to the Union North West Zone and Union North East Zone by Rate Class  
Based on the 2017 Gas Supply Plan at April 2015 QRAM

| Line No.         | Particulars            | Transportation Costs (\$000's) |                              |                           |                                        | Storage Costs (\$000's) |                       |                             | Total         |
|------------------|------------------------|--------------------------------|------------------------------|---------------------------|----------------------------------------|-------------------------|-----------------------|-----------------------------|---------------|
|                  |                        | Transportation Demand (1)      | Transportation Commodity (2) | Transportation Common (3) | Total Transportation (d) = (a + b + c) | Storage Demand (4)      | Storage Commodity (5) | Total Storage (g) = (e + f) |               |
|                  |                        | (a)                            | (b)                          | (c)                       | (d) = (a + b + c)                      | (e)                     | (f)                   | (g) = (e + f)               | (h) = (d + g) |
| Union North West |                        |                                |                              |                           |                                        |                         |                       |                             |               |
| 1                | Rate 01                | 18,848                         | 428                          |                           | 19,276                                 | 3,434                   | 462                   | 3,895                       | 23,171        |
| 2                | Rate 10                | 5,076                          | 129                          |                           | 5,206                                  | 779                     | 139                   | 919                         | 6,125         |
| 3                | Rate 20                | 2,399                          | 75                           |                           | 2,474                                  | 247                     | 84                    | 331                         | 2,805         |
| 4                | Rate 100               | -                              | -                            |                           | -                                      | -                       | -                     | -                           | -             |
| 5                | Rate 25                | 130                            | 6                            |                           | 136                                    | -                       | -                     | -                           | 136           |
| 6                | Total Union North West | 26,453                         | 638                          |                           | 27,091                                 | 4,460                   | 685                   | 5,145                       | 32,236        |
| Union North East |                        |                                |                              |                           |                                        |                         |                       |                             |               |
| 7                | Rate 01                | 20,785                         | 642                          |                           | 21,427                                 | 37,151                  | 1,385                 | 38,536                      | 59,962        |
| 8                | Rate 10                | 7,623                          | 250                          |                           | 7,873                                  | 10,250                  | 539                   | 10,789                      | 18,662        |
| 9                | Rate 20                | 2,188                          | 81                           |                           | 2,269                                  | 2,569                   | 245                   | 2,814                       | 5,083         |
| 10               | Rate 100               | -                              | -                            |                           | -                                      | 257                     | 15                    | 272                         | 272           |
| 11               | Rate 25                | 622                            | 28                           |                           | 651                                    | -                       | -                     | -                           | 651           |
| 12               | Total Union North East | 31,217                         | 1,001                        |                           | 32,219                                 | 50,227                  | 2,184                 | 52,411                      | 84,630        |
| Total            |                        |                                |                              |                           |                                        |                         |                       |                             |               |
| 13               | Rate 01                | 39,632                         | 1,070                        | 981                       | 41,683                                 | 40,584                  | 1,846                 | 42,431                      | 84,114        |
| 14               | Rate 10                | 12,699                         | 379                          | 306                       | 13,385                                 | 11,030                  | 679                   | 11,708                      | 25,093        |
| 15               | Rate 20                | 4,587                          | 155                          | 147                       | 4,889                                  | 2,816                   | 329                   | 3,145                       | 8,034         |
| 16               | Rate 100               | -                              | -                            | 14                        | 14                                     | 257                     | 15                    | 272                         | 286           |
| 17               | Rate 25                | 753                            | 34                           | 22                        | 809                                    | -                       | -                     | -                           | 809           |
| 18               | Total (6)              | 57,671                         | 1,639                        | 1,470                     | 60,780                                 | 54,687                  | 2,869                 | 57,556                      | 118,336       |

Notes:

- (1) Transportation demand costs allocated in proportion to the Transportation Demand Allocation Factor, including a direct assignment to Rate 25, as provided at Exhibit B.Staff.4, Attachment 2, page 5, column (c).
- (2) Transportation commodity costs allocated in proportion to the annual volumes, including a direct assignment to Rate 25, as provided at Exhibit B.Staff.4, Attachment 2, page 5, column (d).
- (3) Of the \$1.470 million of common costs, \$0.199 million are allocated based on Board-approved methodology and \$1.271 million are allocated in proportion to the FT Demand Allocation Factor (Exhibit B.Staff.4, Attachment 2, page 5, column (c)).
- (4) Storage demand costs allocated in proportion to the excess of peak day demands over average day demands, as provided at Exhibit B.Staff.4, Attachment 2, page 5, column (e).
- (5) Storage commodity costs allocated in proportion to annual volumes, as provided at Exhibit B.Staff.4, Attachment 2, page 5, column (f).
- (6) Total storage and transportation costs as per Exhibit B.Staff.4, Attachment 2, page 1.

UNION GAS LIMITED  
Approved Union North Transportation and Storage Cost Allocation Factors  
Based on the 2017 Gas Supply Plan at April 2015 QRAM

| Line No.                                  | Particulars (10 <sup>3</sup> m <sup>3</sup> ) | Transportation Demand   |                       |                                 | Transportation Commodity    | Storage Demand               | Storage Commodity           |
|-------------------------------------------|-----------------------------------------------|-------------------------|-----------------------|---------------------------------|-----------------------------|------------------------------|-----------------------------|
|                                           |                                               | Average Day Demands (1) | Remaining Demands (2) | Demand Allocation (c) = (a + b) | Annual Delivery Volumes (3) | Excess Peak Over Average (4) | Annual Delivery Volumes (5) |
|                                           |                                               | (a)                     | (b)                   | (c) = (a + b)                   | (d)                         | (e)                          | (f)                         |
| Union North West                          |                                               |                         |                       |                                 |                             |                              |                             |
| 1                                         | Rate 01                                       | 700                     | 543                   | 1,243                           | 255,538                     | 1,875                        | 255,538                     |
| 2                                         | Rate 10                                       | 212                     | 123                   | 335                             | 77,214                      | 426                          | 77,214                      |
| 3                                         | Rate 20                                       | 122                     | 36                    | 158                             | 44,563                      | 135                          | 46,277                      |
| 4                                         | Rate 100                                      | -                       | -                     | -                               | -                           | -                            | -                           |
| 5                                         | Total Union North West                        | 1,034                   | 702                   | 1,736                           | 377,314                     | 2,435                        | 379,029                     |
| 6                                         | % FT Allocation                               | 60%                     | 40%                   | 100%                            |                             |                              |                             |
| Union North East                          |                                               |                         |                       |                                 |                             |                              |                             |
| 7                                         | Rate 01                                       | 1,723                   | 431                   | 2,154                           | 628,883                     | 4,623                        | 628,883                     |
| 8                                         | Rate 10                                       | 671                     | 119                   | 790                             | 244,942                     | 1,275                        | 244,942                     |
| 9                                         | Rate 20                                       | 217                     | 10                    | 227                             | 79,048                      | 320                          | 111,430                     |
| 10                                        | Rate 100                                      | -                       | -                     | -                               | -                           | 32                           | 5,332                       |
| 11                                        | Total Union North East                        | 2,611                   | 560                   | 3,171                           | 952,874                     | 6,250                        | 990,587                     |
| 12                                        | % FT Allocation                               | 82%                     | 18%                   | 100%                            |                             |                              |                             |
| Total                                     |                                               |                         |                       |                                 |                             |                              |                             |
| 13                                        | Rate 01                                       | 2,423                   | 974                   | 3,397                           | 884,421                     | 6,498                        | 884,421                     |
| 14                                        | Rate 10                                       | 883                     | 242                   | 1,125                           | 322,156                     | 1,701                        | 322,156                     |
| 15                                        | Rate 20                                       | 339                     | 46                    | 385                             | 123,611                     | 455                          | 157,707                     |
| 16                                        | Rate 100                                      | -                       | -                     | -                               | -                           | 32                           | 5,332                       |
| 17                                        | Total                                         | 3,644                   | 1,263                 | 4,907                           | 1,330,188                   | 8,685                        | 1,369,616                   |
| Rate 25 - Direct Assignment (\$000's) (6) |                                               |                         |                       |                                 |                             |                              |                             |
|                                           |                                               | Transportation          |                       |                                 |                             |                              |                             |
|                                           |                                               | Demand                  | Commodity             |                                 |                             |                              |                             |
| 18                                        |                                               | 753                     | 34                    |                                 |                             |                              |                             |

Notes:

- (1) The base transportation demand costs are allocated in proportion to the average day volumes for sales service and bundled direct purchase customers.
- (2) The remaining transportation demand costs are allocated in proportion to the excess of peak day demands over average day demands.
- (3) Transportation commodity costs are allocated in proportion to annual delivery volumes for firm sales service and bundled direct purchase customers.
- (4) Storage demand costs are allocated in proportion to the excess of peak day demands over average day demands. The storage allocation includes sales service, bundled direct purchase and bundled storage demands.
- (5) Storage commodity costs are allocated in proportion to sales service, bundled direct purchase and bundled storage annual volumes.
- (6) Consistent with Board-approved methodology, Rate 25 costs are calculated based on Rate 25 winter volumes by delivery area applied to the respective weighted TransCanada toll.

UNION GAS LIMITED  
Calculation of the Recovery of Common Costs for the Union North West and Union North East Zone by Rate Class  
Based on the 2017 Gas Supply Plan per EB-2015-0181 at April 2015 QRAM

| Line No. | Particulars                | Total Common Costs | Total Billing Units                   | Common Unit Rate        | Union North West                                |                       | Union North East                                |                       |
|----------|----------------------------|--------------------|---------------------------------------|-------------------------|-------------------------------------------------|-----------------------|-------------------------------------------------|-----------------------|
|          |                            | (\$000's) (1)      | (10 <sup>3</sup> m <sup>3</sup> ) (2) | (cents/m <sup>3</sup> ) | Billing Units (10 <sup>3</sup> m <sup>3</sup> ) | Revenue (\$000's) (1) | Billing Units (10 <sup>3</sup> m <sup>3</sup> ) | Revenue (\$000's) (1) |
|          |                            | (a)                | (b)                                   | (c) = (a/b*100)         | (d)                                             | (e) = (d*c/100)       | (f)                                             | (g) = (f*c/100)       |
| 1        | Rate 01 - Transportation   | 981                | 926,963                               | 0.106                   | 267,830                                         | 283                   | 659,134                                         | 697                   |
| 2        | Rate 10 - Transportation   | 306                | 343,530                               | 0.089                   | 82,150                                          | 73                    | 261,380                                         | 233                   |
|          | Rate 20                    |                    |                                       |                         |                                                 |                       |                                                 |                       |
| 3        | Gas Supply Demand Charge   | 88                 | 6,873                                 | 1.279                   | 2,962                                           | 38                    | 3,911                                           | 50                    |
| 4        | Commodity Transportation 1 | 59                 | 73,456                                | 0.080                   | 28,383                                          | 23                    | 45,073                                          | 36                    |
| 5        | Total Rate 20              | 147                |                                       |                         |                                                 | 61                    |                                                 | 86                    |
| 6        | Rate 100 - Storage         | 14                 | 15,600                                | 0.090                   | -                                               | -                     | 15,600                                          | 14                    |
| 7        | Rate 25 - Transportation   | 22                 | 42,913                                | 0.051                   | 5,867                                           | 3                     | 37,046                                          | 19                    |
| 8        | Total                      | 1,470              |                                       |                         |                                                 | 420                   |                                                 | 1,049                 |

Notes:

- (1) Rate Order, Working Papers, Schedule 23, p.1, column (g). Rate 20 common costs are recovered 60% in the Gas Supply Demand Charge and 40% in the Commodity Transportation 1 Charge, consistent with Board-approved Rate 20 rate design.
- (2) Rate Order, Working Papers, Schedule 4, column (t).

UNION GAS LIMITED  
Calculation of the Union North Gas Supply Optimization for the Union North West and Union North East Zone by Rate Class

| Line No. | Particulars                | Gas Supply Optimization Margin | Total Billing Units                   | Common Unit Rate        | Union North West                                |                   | Union North East                                |                   |
|----------|----------------------------|--------------------------------|---------------------------------------|-------------------------|-------------------------------------------------|-------------------|-------------------------------------------------|-------------------|
|          |                            | (\$000's) (1)                  | (10 <sup>3</sup> m <sup>3</sup> ) (2) | (cents/m <sup>3</sup> ) | Billing Units (10 <sup>3</sup> m <sup>3</sup> ) | Revenue (\$000's) | Billing Units (10 <sup>3</sup> m <sup>3</sup> ) | Revenue (\$000's) |
|          |                            | (a)                            | (b)                                   | (c) = (a/b*100)         | (d)                                             | (e) = (d*c/100)   | (f)                                             | (g) = (f*c/100)   |
| 1        | Rate 01 - Transportation   | (3,920)                        | 926,963                               | (0.423)                 | 267,830                                         | (1,133)           | 659,134                                         | (2,787)           |
| 2        | Rate 10 - Transportation   | (1,342)                        | 343,530                               | (0.391)                 | 82,150                                          | (321)             | 261,380                                         | (1,021)           |
|          | Rate 20                    |                                |                                       |                         |                                                 |                   |                                                 |                   |
| 3        | Gas Supply Demand Charge   | (286)                          | 6,873                                 | (4.164)                 | 2,962                                           | (123)             | 3,911                                           | (163)             |
| 4        | Commodity Transportation 1 | (191)                          | 73,456                                | (0.260)                 | 28,383                                          | (74)              | 45,073                                          | (117)             |
| 5        | Total Rate 20              | (477)                          |                                       |                         |                                                 | (197)             |                                                 | (280)             |
| 6        | Rate 25 - Transportation   | (117)                          | 42,913                                | (0.272)                 | 5,867                                           | (16)              | 37,046                                          | (101)             |
| 7        | Total                      | (5,856)                        |                                       |                         |                                                 | (1,667)           |                                                 | (4,189)           |

Notes:

- (1) Rate Order, Working Papers, Schedule 14, p.2, column (e). Rate 20 common costs are recovered 60% in the Gas Supply Demand Charge and 40% in the Commodity Transportation 1 Charge, consistent with Board-approved Rate 20 rate design.
- (2) Rate Order, Working Papers, Schedule 4, column (t).

UNION GAS LIMITED  
Calculation of the Union North IRM Adjustments by Rate Class

| Line No. | Particulars (\$000's)       | 2013 BA Adjustment Rev/Cost Variance (1)<br>(a) | 2013 One-Time Adjustment (2)<br>(b) | 2014 PCI (3)<br>(c) | 2014 Tax-Related Adjustments (4)<br>(d) | 2015 PCI (5)<br>(e) | 2015 One-Time Adjustments (6)<br>(f) | 2016 PCI (7)<br>(g) | 2017 PCI (8)<br>(h) | Total Change in Revenue<br>(i) = (sum a:h) |
|----------|-----------------------------|-------------------------------------------------|-------------------------------------|---------------------|-----------------------------------------|---------------------|--------------------------------------|---------------------|---------------------|--------------------------------------------|
|          | Rate 01                     |                                                 |                                     |                     |                                         |                     |                                      |                     |                     |                                            |
| 1        | Transport                   | -                                               | (15)                                | 0                   | (3)                                     | 1                   | -                                    | 1                   | 1                   | (15)                                       |
| 2        | Storage                     | -                                               | 57                                  | 77                  | 21                                      | 124                 | (59)                                 | 122                 | 102                 | 444                                        |
| 3        | Total                       | -                                               | 42                                  | 78                  | 18                                      | 125                 | (59)                                 | 123                 | 102                 | 429                                        |
|          | Rate 10                     |                                                 |                                     |                     |                                         |                     |                                      |                     |                     |                                            |
| 5        | Transport                   | -                                               | (3)                                 | 0                   | (0)                                     | 0                   | -                                    | 0                   | 0                   | (2)                                        |
| 6        | Storage                     | -                                               | 15                                  | 21                  | 5                                       | 33                  | (15)                                 | 33                  | 27                  | 119                                        |
| 7        | Total                       | -                                               | 12                                  | 21                  | 5                                       | 33                  | (15)                                 | 33                  | 27                  | 116                                        |
|          | Rate 20                     |                                                 |                                     |                     |                                         |                     |                                      |                     |                     |                                            |
| 7        | Demand                      | -                                               | (3)                                 | 1                   | 1                                       | 1                   | (4)                                  | (1)                 | (1)                 | (5)                                        |
| 8        | Commodity                   | -                                               | -                                   | -                   | -                                       | -                   | -                                    | (1)                 | (0)                 | (1)                                        |
| 9        | Bundled Storage - Demand    | -                                               | -                                   | 5                   | -                                       | 8                   | -                                    | 10                  | 8                   | 31                                         |
| 10       | Bundled Storage - Commodity | -                                               | -                                   | 1                   | -                                       | 1                   | -                                    | 1                   | 1                   | 3                                          |
| 11       | Total                       | -                                               | (3)                                 | 6                   | 1                                       | 10                  | (4)                                  | 9                   | 8                   | 28                                         |
|          | Rate 100                    |                                                 |                                     |                     |                                         |                     |                                      |                     |                     |                                            |
| 12       | Bundled Storage - Demand    | 13                                              | 3                                   | 0                   | 0                                       | 1                   | (0)                                  | 1                   | 1                   | 18                                         |
| 13       | Bundled Storage - Commodity | 3                                               | 1                                   | 0                   | 0                                       | 0                   | (0)                                  | 0                   | 0                   | 5                                          |
| 14       | Rate 25 - Transport         | -                                               | (3)                                 | 0                   | 0                                       | 0                   | -                                    | 0                   | 0                   | (2)                                        |
| 15       | Total                       | 16                                              | 53                                  | 105                 | 25                                      | 169                 | (79)                                 | 166                 | 138                 | 594                                        |

Notes:

- (1) EB-2011-0210, Rate Order, Working Papers, Schedule 14, column (f), applies to rate classes showing a revenue sufficiency only.
- (2) EB-2013-0365, Rate Order, Working Papers, Schedule 4, column (g), excluding the Regulated/Unregulated Adjustment to the updated 2013 cost study as filed with the 2014 Rates (EB-2013-0365) Application and Settlement Agreement.
- (3) EB-2013-0365, Rate Order, Working Papers, Schedule 4, column (i).
- (4) EB-2013-0365, Rate Order, Working Papers, Schedule 4, column (k).
- (5) EB-2014-0271, Rate Order, Working Papers, Schedule 4, column (i).
- (6) EB-2014-0271, Rate Order, Working Papers, Schedule 4, column (f).
- (7) EB-2015-0116, Rate Order, Working Papers, Schedule 4, column (i).
- (8) Rate Order, Working Papers, Schedule 4, column (i).

UNION GAS LIMITED  
Calculation of the IRM Adjustments for the Union North West and Union North East Zone by Rate Class

| Line No. | Particulars               | IRM Adjustment | Total Billing Units                   | Common Unit Rate        | Union North West                                |                       | Union North East                                |                       |
|----------|---------------------------|----------------|---------------------------------------|-------------------------|-------------------------------------------------|-----------------------|-------------------------------------------------|-----------------------|
|          |                           | (\$000's) (1)  | (10 <sup>3</sup> m <sup>3</sup> ) (2) | (cents/m <sup>3</sup> ) | Billing Units (10 <sup>3</sup> m <sup>3</sup> ) | Revenue (\$000's) (1) | Billing Units (10 <sup>3</sup> m <sup>3</sup> ) | Revenue (\$000's) (1) |
|          |                           | (a)            | (b)                                   | (c) = (a/b*100)         | (d)                                             | (e) = (d*c/100)       | (f)                                             | (g) = (f*c/100)       |
|          | Rate 01                   |                |                                       |                         |                                                 |                       |                                                 |                       |
| 1        | Transportation            | (15)           | 926,963                               | (0.002)                 | 267,830                                         | (4)                   | 659,134                                         | (11)                  |
| 2        | Storage                   | 444            | 964,386                               | 0.046                   | 278,642                                         | 128                   | 685,744                                         | 316                   |
|          | Rate 10                   |                |                                       |                         |                                                 |                       |                                                 |                       |
| 3        | Transportation            | (2)            | 343,530                               | (0.001)                 | 82,150                                          | (1)                   | 261,380                                         | (2)                   |
| 4        | Storage                   | 119            | 363,545                               | 0.033                   | 86,936                                          | 28                    | 276,608                                         | 90                    |
|          | Rate 20 (3)               |                |                                       |                         |                                                 |                       |                                                 |                       |
| 5        | Gas Supply Demand Charge  | (4)            | 6,873                                 | (0.052)                 | 2,962                                           | (2)                   | 3,911                                           | (2)                   |
| 6        | Commodity Transportation  | (2)            | 73,456                                | (0.003)                 | 28,383                                          | (1)                   | 45,073                                          | (1)                   |
| 7        | Total Rate 20             | (6)            |                                       |                         |                                                 | (2)                   |                                                 | (3)                   |
|          | Rate 20 - Storage (3) (4) |                |                                       |                         |                                                 |                       |                                                 |                       |
| 8        | Demand                    | 31             | 99,288                                | 0.031                   | 41,020                                          | 13                    | 58,268                                          | 18                    |
| 9        | Commodity                 | 3              | 639,477                               | 0.000                   | 264,194                                         | 1                     | 375,283                                         | 2                     |
| 10       | Total Rate 20             | 34             |                                       |                         |                                                 | 14                    |                                                 | 20                    |
|          | Rate 100 - Storage (4)    |                |                                       |                         |                                                 |                       |                                                 |                       |
| 11       | Demand                    | 18             | 15,600                                | 0.116                   | -                                               | -                     | 15,600                                          | 18                    |
| 12       | Commodity                 | 5              | 100,000                               | 0.005                   | -                                               | -                     | 100,000                                         | 5                     |
| 13       | Total Rate 100            | 23             |                                       |                         |                                                 | -                     |                                                 | 23                    |
| 14       | Rate 25 - Transportation  | (2)            | 42,913                                | (0.006)                 | 5,867                                           | (0)                   | 37,046                                          | (2)                   |

Notes:

- (1) Exhibit B.Staff.4, Attachment 5, p. 1, column (i).
- (2) Rate Order, Working Papers, Schedule 4, column (t).
- (3) Rate 20 storage and transportation costs of \$0.006 million are combined and recovered 60% in the Gas Supply Demand Charge and 40% in the Commodity Transportation 1 Charge, consistent with Board-approved Rate 20 rate design. Storage costs of \$0.034 million are recovered through the bundled storage rate.
- (4) Bundled Storage costs are provided by zone for completeness only, as the bundled storage rates are common between zones.

UNION GAS LIMITED  
Union North Upstream Tolls

| Line No. | Particulars                        | April 2015 QRAM (1)  |                     |               | October 2016 QRAM (2) |                     |               |
|----------|------------------------------------|----------------------|---------------------|---------------|-----------------------|---------------------|---------------|
|          |                                    | Posted Tolls (\$/GJ) | Abandonment (\$/GJ) | Total (\$/GJ) | Posted Tolls (\$/GJ)  | Abandonment (\$/GJ) | Total (\$/GJ) |
|          |                                    | (a)                  | (b)                 | (c) = (a + b) | (d)                   | (e)                 | (f) = (d + e) |
|          | <u>Transportation</u>              |                      |                     |               |                       |                     |               |
|          | Union North West Zone Demand Tolls |                      |                     |               |                       |                     |               |
| 1        | TCPL MDA                           | 20.3445              | 1.5694              | 21.914        | 19.7310               | 1.6780              | 21.409        |
| 2        | TCPL SSMDA                         | 40.6385              | 3.3553              | 43.994        | 39.4127               | 3.5898              | 43.002        |
| 3        | TCPL WDA                           | 29.1288              | 2.3424              | 31.471        | 28.2501               | 2.5055              | 30.756        |
| 4        | CTHI/CPMI (3)                      |                      |                     | 18.805        |                       |                     | 18.785        |
|          | Union North East Zone Demand Tolls |                      |                     |               |                       |                     |               |
| 5        | TCPL NCDA                          | 53.7685              | 4.2560              | 58.024        | 52.9795               | 4.5540              | 57.533        |
| 6        | TCPL EDA                           | 59.3460              | 4.7204              | 64.066        | 58.4751               | 5.0511              | 63.526        |
| 7        | TCPL NDA                           | 44.8050              | 3.7219              | 48.527        | 43.4533               | 3.9823              | 47.436        |
| 8        | TCPL PKWY EDA                      | 11.6088              | 0.5289              | 12.138        | 11.8421               | 0.5642              | 12.406        |
| 9        | TCPL PKWY NDA                      | 16.5938              | 0.8509              | 17.445        | 16.9275               | 0.9089              | 17.836        |
| 10       | TCPL PKWY NCDA                     | 8.3254               | 0.3168              | 8.642         | 8.4926                | 0.3372              | 8.830         |
|          | <u>Storage</u>                     |                      |                     |               |                       |                     |               |
|          | Union North West Zone Demand Tolls |                      |                     |               |                       |                     |               |
| 11       | TCPL WDA STS Injection             | 38.9358              | 2.2940              | 41.230        | 39.7184               | 2.4537              | 42.172        |
|          | Union North East Zone Demand Tolls |                      |                     |               |                       |                     |               |
| 12       | TCPL NDA STS Injection             | 16.5938              | 0.8509              | 17.445        | 16.9275               | 0.9089              | 17.836        |
| 13       | TCPL EDA STS Withdrawal            | 11.6088              | 0.5289              | 12.138        | 11.8421               | 0.5642              | 12.406        |
| 14       | TCPL Pkwy to EDA                   | 11.6088              | 0.5289              | 12.138        | 11.8421               | 0.5642              | 12.406        |
| 15       | TCPL Pkwy to EDA EMB               | 12.7698              | 0.5289              | 13.299        | 13.0263               | 0.5642              | 13.591        |
| 16       | TCPL Pkwy to NDA                   | 16.5938              | 0.8509              | 17.445        | 16.9275               | 0.9089              | 17.836        |

Notes:

- (1) Interim Mainline Transportation Tolls and Interim Abandonment Surcharges effective Jan 1, 2015 - Attachment 2.
- (2) Final Mainline Transportation Tolls effective Jul 1, 2015 (Amended Nov 1, 2015) and Final Abandonment Surcharges effective Jan 1, 2016 - Attachment 3.
- (3) CTHI Toll = (Toll  $\$/10^3\text{m}^3/\text{mo}$  + Abandonment  $\$/10^3\text{m}^3/\text{mo}$ ) / (Heat Value  $10^3\text{m}^3/\text{GJ}$ )  
CTHI Toll April 2015 =  $(446.771+152.481) / 37.97 = 15.7822 \text{ \$/GJs/mo}$   
CTHI Toll Oct 2016 =  $(449.104+106.844) / 38.26 = 14.5308 \text{ \$/GJs/mo}$

CPMI Toll = (Toll  $\$/\text{Mcf/mo}$ ) / (Heat Value  $10^3\text{m}^3/\text{GJ}$ ) \* (Conversion Factor  $10^3\text{m}^3/\text{Mcf}$ )  
CPMI Toll April 2015 =  $3.2510 / 37.97 * 35.300962 = 3.0225$   
CPMI Toll Oct 2016 =  $3.2990 / 38.26 * 35.300962 = 3.0439 = 4.2541 \text{ Cdn\$/GJ/mo (FX @ 1.3976)}$

Combined CTHI/CPMI April 2015 =  $15.7822 + 3.0225 = 18.805 \text{ \$/GJ}$   
Combined CTHI/CPMI Oct 2016 =  $14.5308 + 4.2541 = 18.785 \text{ \$/GJ}$

Interim Mainline Transportation Tolls and  
Interim Abandonment Surcharges  
Effective January 1, 2015

**Storage Transportation Service**

| Line<br>No | Particulars            | Monthly Toll<br>(\$/GJ/Month) | Daily Equivalent<br>(\$/GJ) | Abandonment<br>Surcharge<br>(\$/GJ/Month) | Daily Equivalent<br>Abandonment<br>Surcharge<br>(\$/GJ) |
|------------|------------------------|-------------------------------|-----------------------------|-------------------------------------------|---------------------------------------------------------|
|            | (a)                    | (b)                           | (c)                         | (d)                                       | (e)                                                     |
| 1          | Centram MDA            | 5.39470                       | 0.17736                     | 0.25380                                   | 0.0083                                                  |
| 2          | Union WDA              | 38.93577                      | 1.28008                     | 2.29401                                   | 0.0754                                                  |
| 3          | Union NDA              | 16.59381                      | 0.54555                     | 0.85092                                   | 0.0280                                                  |
| 4          | Union EDA              | 11.60883                      | 0.38166                     | 0.52893                                   | 0.0174                                                  |
| 5          | KPUC EDA               | 11.16596                      | 0.36710                     | 0.50032                                   | 0.0164                                                  |
| 6          | GMIT EDA               | 19.09133                      | 0.62766                     | 1.01224                                   | 0.0333                                                  |
| 7          | Enbridge CDA           | 5.76943                       | 0.18968                     | 0.15176                                   | 0.0050                                                  |
| 8          | Enbridge CDA (Amended) | 5.93916                       | 0.19526                     | 0.16269                                   | 0.0053                                                  |
| 9          | Enbridge EDA           | 14.86645                      | 0.48876                     | 0.73933                                   | 0.0243                                                  |
| 10         | Cornwall               | 15.08515                      | 0.49595                     | 0.75348                                   | 0.0248                                                  |
| 11         | Philipsburg            | 19.14090                      | 0.62929                     | 1.01543                                   | 0.0334                                                  |

**Firm Transportation - Short Notice**

| Line<br>No | Particulars                                  | Monthly Toll<br>(\$/GJ/Month) | Daily Equivalent<br>(\$/GJ) | Abandonment<br>Surcharge<br>(\$/GJ/Month) | Daily Equivalent<br>Abandonment<br>Surcharge<br>(\$/GJ) |
|------------|----------------------------------------------|-------------------------------|-----------------------------|-------------------------------------------|---------------------------------------------------------|
|            | (a)                                          | (b)                           | (c)                         | (d)                                       | (e)                                                     |
| 12         | Kirkwall to Thorold CDA                      | 6.84345                       | 0.22499                     | 0.18094                                   | 0.0059                                                  |
| 13         | Union Parkway Belt to Goreway CDA            | 5.09510                       | 0.16751                     | 0.07829                                   | 0.0026                                                  |
| 14         | Union Parkway Belt to Victoria Square #2 CDA | 6.01733                       | 0.19783                     | 0.13244                                   | 0.0044                                                  |
| 15         | Union Parkway Belt to Schomberg #2 CDA       | 5.95710                       | 0.19585                     | 0.12891                                   | 0.0042                                                  |

**Enhanced Market Balancing Service**

| Line<br>No | Particulars                     | Monthly Toll<br>(\$/GJ/Month) | Daily Equivalent<br>(\$/GJ) | Abandonment<br>Surcharge<br>(\$/GJ/Month) | Daily Equivalent<br>Abandonment<br>Surcharge<br>(\$/GJ) |
|------------|---------------------------------|-------------------------------|-----------------------------|-------------------------------------------|---------------------------------------------------------|
|            | (a)                             | (b)                           | (c)                         | (d)                                       | (e)                                                     |
| 16         | Union Parkway Belt to Union EDA | 12.76983                      | 0.41983                     | 0.52893                                   | 0.0174                                                  |

**Delivery Pressure**

| Line<br>No | Particulars | Monthly Toll<br>(\$/GJ/Month) | Daily Equivalent<br>(\$/GJ) |
|------------|-------------|-------------------------------|-----------------------------|
|            | (a)         | (b)                           | (c)                         |

17 Average Delivery Pressure Toll 0.93744 0.03082

Note: Delivery Pressure toll applies to the following locations: Emerson 1 , Emerson 2, Union SWDA, Enbridge SWDA, Dawn Export, Niagara Falls, Iroquois, Chippawa and East Hereford.  
The Daily Equivalent Toll is only applicable to STS Injections, IT, Diversions, STFT and SSS.

**Union Dawn Receipt Point Surcharge**

| Line<br>No | Particulars                        | Monthly Toll<br>(\$/GJ/Month) | Daily Equivalent<br>(\$/GJ) |
|------------|------------------------------------|-------------------------------|-----------------------------|
|            | (a)                                | (b)                           | (c)                         |
| 18         | Union Dawn Receipt Point Surcharge | 0.18079                       | 0.00594                     |

**Short Notice Balancing (SNB) Service**

| Line<br>No. | Particulars | Monthly Toll<br>(\$/GJ/Month) | Daily Equivalent<br>(\$/GJ) |
|-------------|-------------|-------------------------------|-----------------------------|
|             | (a)         | (b)                           | (c)                         |

19 SNB Toll 3.75220 0.12336

Note: This SNB Toll is a representative toll for the Eastern Region.

**Energy Deficient Gas Allowance (EDGA) Service**

| Line<br>No | Particulars | Capacity Charge<br>(\$/GJ/D) |
|------------|-------------|------------------------------|
|            | (a)         | (b)                          |

20 Western Section 1.57224  
21 Eastern Section 0.41040

Note: The EDGA Service capacity charge for the Western Section is the effective Empress to North Bay Junction FT Toll and the capacity charge for the Eastern Section is the effective Parkway to North Bay Junction FT Toll.  
The EDGA Service fuel charge for the Western Section includes the effective Empress to North Bay Junction monthly fuel ratio and the fuel charge for the Eastern Section includes the effective Parkway to North Bay Junction monthly fuel ratio.

Interim Mainline Transportation Tolls and  
Interim Abandonment Surcharges  
Effective January 1, 2015

- Notes: (i) Aggregate charges for Mainline transportation service will include the applicable transportation toll, abandonment surcharge, delivery pressure toll (if applicable) and Dawn receipt surcharge (if applicable) pursuant to the Mainline Tariff.
- (ii) Any transportation with a Union Dawn receipt point is subject to a Union Dawn Receipt Point Surcharge. Transport under FT, FT-NR, FT-SN and EMB service is subject to the monthly surcharge toll, and other transportation services are subject to the daily equivalent toll. Refer to page 1 for the Union Dawn Receipt Point Surcharge tolls.
- (iii) Transportation with receipt points from delivery areas or Spruce is for STFT and IT service only.
- (iv) The following delivery points are subject to an additional charge for delivery pressure: Emerson 1 & 2, Union SWDA, Enbridge SWDA, Dawn Export, Niagara Falls, Iroquois, Chippawa, and East Hereford. Refer to page 1 for the delivery pressure toll.
- (v) Effective November 1, 2015, the Enbridge CDA is modified such that the Enbridge Parkway meter is removed from the Enbridge CDA and put within a new delivery area called the Enbridge Parkway CDA. The remaining Enbridge CDA meters continue to reside within the Enbridge CDA. Effective November 1, 2016, the Union CDA is modified such that the Union Parkway Belt, Bronte and Burlington meters are removed from the Union CDA. The Bronte and Burlington meters are put within a new delivery area called the Union ECDA, and the Parkway-Union meter will become a new standalone delivery location called Union Parkway Belt. The remaining Union CDA meters, Nanticoke and Hamilton Gate, continue to reside in the Union CDA.
- (vi) The following transportation services are subject to the Abandonment Surcharges: FT, FT-NR, STS, STS-L, SSS, FT-SN, MFP, EMB, IT, STFT, and ST-SN. The Daily Equivalent Abandonment Surcharge is only applicable to IT, SSS, STFT, ST-SN, ARPs, Diversions and STS Overrun.

| Line No. | Receipt Point | Delivery Point         | Daily Equivalent FT   |                       | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|------------------------|-----------------------|-----------------------|-------------------------------------|------------------------------------------------|
|          |               |                        | FT Toll (\$/GJ/Month) | for IT / STFT (\$/GJ) |                                     |                                                |
| 1        | Empress       | Empress                | 2.90844               | 0.0956                | 0.03504                             | 0.0012                                         |
| 2        | Empress       | TransGas SSDA          | 10.45603              | 0.3438                | 0.69922                             | 0.0230                                         |
| 3        | Empress       | Centram SSDA           | 13.54819              | 0.4454                | 0.97133                             | 0.0319                                         |
| 4        | Empress       | Centram MDA            | 18.24270              | 0.5998                | 1.38443                             | 0.0455                                         |
| 5        | Empress       | Centrat MDA            | 20.34449              | 0.6689                | 1.56939                             | 0.0516                                         |
| 6        | Empress       | Union WDA              | 29.12883              | 0.9577                | 2.34239                             | 0.0770                                         |
| 7        | Empress       | Nipigon WDA            | 31.71546              | 1.0427                | 2.57004                             | 0.0845                                         |
| 8        | Empress       | Union NDA              | 44.80497              | 1.4730                | 3.72189                             | 0.1224                                         |
| 9        | Empress       | Calstock NDA           | 37.46999              | 1.2319                | 3.07641                             | 0.1011                                         |
| 10       | Empress       | Tunis NDA              | 42.00025              | 1.3808                | 3.47507                             | 0.1142                                         |
| 11       | Empress       | GMIT NDA               | 45.72872              | 1.5034                | 3.80317                             | 0.1250                                         |
| 12       | Empress       | Union SSMDA            | 40.63849              | 1.3361                | 3.35526                             | 0.1103                                         |
| 13       | Empress       | Union NCDA             | 53.76845              | 1.7677                | 4.25598                             | 0.1399                                         |
| 14       | Empress       | Union CDA              | 55.39331              | 1.8212                | 4.39129                             | 0.1444                                         |
| 15       | Empress       | Enbridge CDA           | 56.30429              | 1.8511                | 4.46713                             | 0.1469                                         |
| 16       | Empress       | Union EDA              | 59.34596              | 1.9511                | 4.72037                             | 0.1552                                         |
| 17       | Empress       | Enbridge EDA           | 58.08701              | 1.9097                | 4.61556                             | 0.1517                                         |
| 18       | Empress       | KPUC EDA               | 60.55654              | 1.9909                | 4.82119                             | 0.1585                                         |
| 19       | Empress       | GMIT EDA               | 62.18353              | 2.0444                | 4.95666                             | 0.1630                                         |
| 20       | Empress       | Enbridge SWDA          | 51.12585              | 1.6809                | 4.03598                             | 0.1327                                         |
| 21       | Empress       | Union SWDA             | 51.05985              | 1.6787                | 4.03047                             | 0.1325                                         |
| 22       | Empress       | Chippawa               | 56.68724              | 1.8637                | 4.49901                             | 0.1479                                         |
| 23       | Empress       | Cornwall               | 59.07616              | 1.9422                | 4.69793                             | 0.1545                                         |
| 24       | Empress       | East Hereford          | 65.62578              | 2.1576                | 5.24327                             | 0.1724                                         |
| 25       | Empress       | Emerson 1              | 20.71162              | 0.6809                | 1.60171                             | 0.0527                                         |
| 26       | Empress       | Emerson 2              | 20.71162              | 0.6809                | 1.60171                             | 0.0527                                         |
| 27       | Empress       | Iroquois               | 58.46479              | 1.9221                | 4.64704                             | 0.1528                                         |
| 28       | Empress       | Kirkwall               | 54.59518              | 1.7949                | 4.32483                             | 0.1422                                         |
| 29       | Empress       | Napierville            | 61.90126              | 2.0351                | 4.93314                             | 0.1622                                         |
| 30       | Empress       | Niagara Falls          | 56.64313              | 1.8622                | 4.49535                             | 0.1478                                         |
| 31       | Empress       | North Bay Junction     | 47.82230              | 1.5722                | 3.98741                             | 0.1311                                         |
| 32       | Empress       | Philipsburg            | 62.22216              | 2.0457                | 4.95988                             | 0.1631                                         |
| 33       | Empress       | Spruce                 | 20.34449              | 0.6689                | 1.56939                             | 0.0516                                         |
| 34       | Empress       | St. Clair              | 47.95978              | 1.5768                | 3.99950                             | 0.1315                                         |
| 35       | Empress       | Welwyn                 | 13.54819              | 0.4454                | 0.97133                             | 0.0319                                         |
| 36       | Empress       | Dawn Export            | 51.12585              | 1.6809                | 4.03598                             | 0.1327                                         |
| 37       | Empress       | Union Parkway Belt     | 55.29780              | 1.8180                | 4.38333                             | 0.1441                                         |
| 38       | Empress       | Union CDA (Amended)    | 55.19834              | 1.8147                | 4.37506                             | 0.1438                                         |
| 39       | Empress       | Union ECDA             | 55.50920              | 1.8250                | 4.40094                             | 0.1447                                         |
| 40       | Empress       | Enbridge Parkway CDA   | 55.29780              | 1.8180                | 4.38333                             | 0.1441                                         |
| 41       | Empress       | Enbridge CDA (Amended) | 56.39798              | 1.8542                | 4.47493                             | 0.1471                                         |
| 42       | Bayhurst 1    | Empress                | 3.43617               | 0.1130                | 0.08149                             | 0.0027                                         |
| 43       | Bayhurst 1    | TransGas SSDA          | 9.92952               | 0.3265                | 0.65288                             | 0.0215                                         |
| 44       | Bayhurst 1    | Centram SSDA           | 13.02046              | 0.4281                | 0.92488                             | 0.0304                                         |
| 45       | Bayhurst 1    | Centram MDA            | 17.71497              | 0.5824                | 1.33800                             | 0.0440                                         |
| 46       | Bayhurst 1    | Centrat MDA            | 19.81646              | 0.6515                | 1.52294                             | 0.0501                                         |
| 47       | Bayhurst 1    | Union WDA              | 28.60110              | 0.9403                | 2.29597                             | 0.0755                                         |
| 48       | Bayhurst 1    | Nipigon WDA            | 31.18773              | 1.0254                | 2.52359                             | 0.0830                                         |
| 49       | Bayhurst 1    | Union NDA              | 44.27693              | 1.4557                | 3.67543                             | 0.1208                                         |
| 50       | Bayhurst 1    | Calstock NDA           | 36.94195              | 1.2145                | 3.02996                             | 0.0996                                         |
| 51       | Bayhurst 1    | Tunis NDA              | 41.47252              | 1.3635                | 3.42862                             | 0.1127                                         |
| 52       | Bayhurst 1    | GMIT NDA               | 45.20099              | 1.4861                | 3.75672                             | 0.1235                                         |
| 53       | Bayhurst 1    | Union SSMDA            | 40.11076              | 1.3187                | 3.30881                             | 0.1088                                         |
| 54       | Bayhurst 1    | Union NCDA             | 53.21000              | 1.7494                | 4.20950                             | 0.1384                                         |
| 55       | Bayhurst 1    | Union CDA              | 54.83578              | 1.8028                | 4.34486                             | 0.1428                                         |
| 56       | Bayhurst 1    | Enbridge CDA           | 55.74615              | 1.8328                | 4.42067                             | 0.1453                                         |
| 57       | Bayhurst 1    | Union EDA              | 58.78781              | 1.9328                | 4.67392                             | 0.1537                                         |

| Line No. | Receipt Point | Delivery Point         | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Bayhurst 1    | Enbridge EDA           | 57.52887              | 1.8914                                    | 4.56910                             | 0.1502                                         |
| 2        | Bayhurst 1    | KPUC EDA               | 59.99840              | 1.9726                                    | 4.77474                             | 0.1570                                         |
| 3        | Bayhurst 1    | GMIT EDA               | 61.62569              | 2.0261                                    | 4.91020                             | 0.1614                                         |
| 4        | Bayhurst 1    | Enbridge SWDA          | 50.56832              | 1.6625                                    | 3.98954                             | 0.1312                                         |
| 5        | Bayhurst 1    | Union SWDA             | 50.50201              | 1.6603                                    | 3.98402                             | 0.1310                                         |
| 6        | Bayhurst 1    | Chippawa               | 56.12909              | 1.8453                                    | 4.45256                             | 0.1464                                         |
| 7        | Bayhurst 1    | Cornwall               | 58.51832              | 1.9239                                    | 4.65148                             | 0.1529                                         |
| 8        | Bayhurst 1    | East Hereford          | 65.06825              | 2.1392                                    | 5.19682                             | 0.1709                                         |
| 9        | Bayhurst 1    | Emerson 1              | 20.18389              | 0.6636                                    | 1.55526                             | 0.0511                                         |
| 10       | Bayhurst 1    | Emerson 2              | 20.18389              | 0.6636                                    | 1.55526                             | 0.0511                                         |
| 11       | Bayhurst 1    | Iroquois               | 57.90725              | 1.9038                                    | 4.60059                             | 0.1513                                         |
| 12       | Bayhurst 1    | Kirkwall               | 54.03734              | 1.7766                                    | 4.27838                             | 0.1407                                         |
| 13       | Bayhurst 1    | Napierville            | 61.34342              | 2.0168                                    | 4.88670                             | 0.1607                                         |
| 14       | Bayhurst 1    | Niagara Falls          | 56.08529              | 1.8439                                    | 4.44890                             | 0.1463                                         |
| 15       | Bayhurst 1    | North Bay Junction     | 47.29427              | 1.5549                                    | 3.94096                             | 0.1296                                         |
| 16       | Bayhurst 1    | Philipsburg            | 61.66432              | 2.0273                                    | 4.91343                             | 0.1615                                         |
| 17       | Bayhurst 1    | Spruce                 | 19.81646              | 0.6515                                    | 1.52294                             | 0.0501                                         |
| 18       | Bayhurst 1    | St. Clair              | 47.43175              | 1.5594                                    | 3.95305                             | 0.1300                                         |
| 19       | Bayhurst 1    | Welwyn                 | 13.02046              | 0.4281                                    | 0.92488                             | 0.0304                                         |
| 20       | Bayhurst 1    | Dawn Export            | 50.56832              | 1.6625                                    | 3.98954                             | 0.1312                                         |
| 21       | Bayhurst 1    | Union Parkway Belt     | 54.73996              | 1.7997                                    | 4.33688                             | 0.1426                                         |
| 22       | Bayhurst 1    | Union CDA (Amended)    | 54.64080              | 1.7964                                    | 4.32863                             | 0.1423                                         |
| 23       | Bayhurst 1    | Union ECDA             | 54.95136              | 1.8066                                    | 4.35450                             | 0.1432                                         |
| 24       | Bayhurst 1    | Enbridge Parkway CDA   | 54.73996              | 1.7997                                    | 4.33688                             | 0.1426                                         |
| 25       | Bayhurst 1    | Enbridge CDA (Amended) | 55.84074              | 1.8359                                    | 4.42854                             | 0.1456                                         |
| 26       | Calstock NDA  | Empress                | -                     | 1.2319                                    | -                                   | 0.1011                                         |
| 27       | Calstock NDA  | TransGas SSDA          | -                     | 0.9838                                    | -                                   | 0.0793                                         |
| 28       | Calstock NDA  | Centram SSDA           | -                     | 0.8821                                    | -                                   | 0.0704                                         |
| 29       | Calstock NDA  | Centram MDA            | -                     | 0.7292                                    | -                                   | 0.0569                                         |
| 30       | Calstock NDA  | Centrat MDA            | -                     | 0.6586                                    | -                                   | 0.0507                                         |
| 31       | Calstock NDA  | Union WDA              | -                     | 0.3936                                    | -                                   | 0.0274                                         |
| 32       | Calstock NDA  | Nipigon WDA            | -                     | 0.2848                                    | -                                   | 0.0178                                         |
| 33       | Calstock NDA  | Union NDA              | -                     | 0.3368                                    | -                                   | 0.0224                                         |
| 34       | Calstock NDA  | Calstock NDA           | -                     | 0.0956                                    | -                                   | 0.0012                                         |
| 35       | Calstock NDA  | Tunis NDA              | -                     | 0.2446                                    | -                                   | 0.0143                                         |
| 36       | Calstock NDA  | GMIT NDA               | -                     | 0.3671                                    | -                                   | 0.0250                                         |
| 37       | Calstock NDA  | Union SSMDA            | -                     | 1.1194                                    | -                                   | 0.0912                                         |
| 38       | Calstock NDA  | Union NCDA             | -                     | 0.5668                                    | -                                   | 0.0399                                         |
| 39       | Calstock NDA  | Union CDA              | -                     | 0.6962                                    | -                                   | 0.0507                                         |
| 40       | Calstock NDA  | Enbridge CDA           | -                     | 0.6743                                    | -                                   | 0.0489                                         |
| 41       | Calstock NDA  | Union EDA              | -                     | 0.7524                                    | -                                   | 0.0554                                         |
| 42       | Calstock NDA  | Enbridge EDA           | -                     | 0.7092                                    | -                                   | 0.0518                                         |
| 43       | Calstock NDA  | KPUC EDA               | -                     | 0.7900                                    | -                                   | 0.0585                                         |
| 44       | Calstock NDA  | GMIT EDA               | -                     | 0.8435                                    | -                                   | 0.0630                                         |
| 45       | Calstock NDA  | Enbridge SWDA          | -                     | 0.8152                                    | -                                   | 0.0606                                         |
| 46       | Calstock NDA  | Union SWDA             | -                     | 0.8174                                    | -                                   | 0.0608                                         |
| 47       | Calstock NDA  | Chippawa               | -                     | 0.7598                                    | -                                   | 0.0560                                         |
| 48       | Calstock NDA  | Cornwall               | -                     | 0.7413                                    | -                                   | 0.0545                                         |
| 49       | Calstock NDA  | East Hereford          | -                     | 0.9567                                    | -                                   | 0.0724                                         |
| 50       | Calstock NDA  | Emerson 1              | -                     | 0.7398                                    | -                                   | 0.0578                                         |
| 51       | Calstock NDA  | Emerson 2              | -                     | 0.7398                                    | -                                   | 0.0578                                         |
| 52       | Calstock NDA  | Iroquois               | -                     | 0.7212                                    | -                                   | 0.0528                                         |
| 53       | Calstock NDA  | Kirkwall               | -                     | 0.7012                                    | -                                   | 0.0511                                         |
| 54       | Calstock NDA  | Napierville            | -                     | 0.8342                                    | -                                   | 0.0622                                         |
| 55       | Calstock NDA  | Niagara Falls          | -                     | 0.7583                                    | -                                   | 0.0559                                         |
| 56       | Calstock NDA  | North Bay Junction     | -                     | 0.4360                                    | -                                   | 0.0311                                         |
| 57       | Calstock NDA  | Philipsburg            | -                     | 0.8448                                    | -                                   | 0.0631                                         |
| 58       | Calstock NDA  | Spruce                 | -                     | 0.6586                                    | -                                   | 0.0507                                         |
| 59       | Calstock NDA  | St. Clair              | -                     | 0.7850                                    | -                                   | 0.0618                                         |
| 60       | Calstock NDA  | Welwyn                 | -                     | 0.8821                                    | -                                   | 0.0704                                         |
| 61       | Calstock NDA  | Dawn Export            | -                     | 0.8152                                    | -                                   | 0.0606                                         |
| 62       | Calstock NDA  | Union Parkway Belt     | -                     | 0.6781                                    | -                                   | 0.0492                                         |
| 63       | Calstock NDA  | Union CDA (Amended)    | -                     | 0.7150                                    | -                                   | 0.0523                                         |
| 64       | Calstock NDA  | Union ECDA             | -                     | 0.6851                                    | -                                   | 0.0498                                         |
| 65       | Calstock NDA  | Enbridge Parkway CDA   | -                     | 0.6781                                    | -                                   | 0.0492                                         |
| 66       | Calstock NDA  | Enbridge CDA (Amended) | -                     | 0.6739                                    | -                                   | 0.0489                                         |
| 67       | Centram MDA   | Empress                | -                     | 0.5998                                    | -                                   | 0.0455                                         |
| 68       | Centram MDA   | TransGas SSDA          | -                     | 0.3516                                    | -                                   | 0.0237                                         |
| 69       | Centram MDA   | Centram SSDA           | -                     | 0.2500                                    | -                                   | 0.0147                                         |
| 70       | Centram MDA   | Centram MDA            | -                     | 0.0956                                    | -                                   | 0.0012                                         |
| 71       | Centram MDA   | Centrat MDA            | -                     | 0.1662                                    | -                                   | 0.0074                                         |
| 72       | Centram MDA   | Union WDA              | -                     | 0.4549                                    | -                                   | 0.0328                                         |
| 73       | Centram MDA   | Nipigon WDA            | -                     | 0.5401                                    | -                                   | 0.0403                                         |
| 74       | Centram MDA   | Union NDA              | -                     | 0.9702                                    | -                                   | 0.0781                                         |
| 75       | Centram MDA   | Calstock NDA           | -                     | 0.7292                                    | -                                   | 0.0569                                         |
| 76       | Centram MDA   | Tunis NDA              | -                     | 0.8782                                    | -                                   | 0.0700                                         |

| Line No. | Receipt Point | Delivery Point         | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Centram MDA   | GMIT NDA               | -                     | 1.0008                                    | -                                   | 0.0808                                         |
| 2        | Centram MDA   | Union SSMDA            | -                     | 0.8325                                    | -                                   | 0.0660                                         |
| 3        | Centram MDA   | Union NCDA             | -                     | 1.2364                                    | -                                   | 0.0957                                         |
| 4        | Centram MDA   | Union CDA              | -                     | 1.2889                                    | -                                   | 0.1001                                         |
| 5        | Centram MDA   | Enbridge CDA           | -                     | 1.3185                                    | -                                   | 0.1025                                         |
| 6        | Centram MDA   | Union EDA              | -                     | 1.4189                                    | -                                   | 0.1109                                         |
| 7        | Centram MDA   | Enbridge EDA           | -                     | 1.3782                                    | -                                   | 0.1075                                         |
| 8        | Centram MDA   | KPUC EDA               | -                     | 1.4584                                    | -                                   | 0.1142                                         |
| 9        | Centram MDA   | GMIT EDA               | -                     | 1.5130                                    | -                                   | 0.1187                                         |
| 10       | Centram MDA   | Enbridge SWDA          | -                     | 1.1486                                    | -                                   | 0.0884                                         |
| 11       | Centram MDA   | Union SWDA             | -                     | 1.1465                                    | -                                   | 0.0882                                         |
| 12       | Centram MDA   | Chippawa               | -                     | 1.3315                                    | -                                   | 0.1036                                         |
| 13       | Centram MDA   | Cornwall               | -                     | 1.4110                                    | -                                   | 0.1102                                         |
| 14       | Centram MDA   | East Hereford          | -                     | 1.6263                                    | -                                   | 0.1281                                         |
| 15       | Centram MDA   | Emerson 1              | -                     | 0.1774                                    | -                                   | 0.0083                                         |
| 16       | Centram MDA   | Emerson 2              | -                     | 0.1774                                    | -                                   | 0.0083                                         |
| 17       | Centram MDA   | Iroquois               | -                     | 1.3909                                    | -                                   | 0.1085                                         |
| 18       | Centram MDA   | Kirkwall               | -                     | 1.2627                                    | -                                   | 0.0979                                         |
| 19       | Centram MDA   | Napierville            | -                     | 1.5039                                    | -                                   | 0.1180                                         |
| 20       | Centram MDA   | Niagara Falls          | -                     | 1.3300                                    | -                                   | 0.1035                                         |
| 21       | Centram MDA   | North Bay Junction     | -                     | 1.0696                                    | -                                   | 0.0869                                         |
| 22       | Centram MDA   | Philipsburg            | -                     | 1.5144                                    | -                                   | 0.1188                                         |
| 23       | Centram MDA   | Spruce                 | -                     | 0.1662                                    | -                                   | 0.0074                                         |
| 24       | Centram MDA   | St. Clair              | -                     | 1.0732                                    | -                                   | 0.0872                                         |
| 25       | Centram MDA   | Welwyn                 | -                     | 0.2500                                    | -                                   | 0.0147                                         |
| 26       | Centram MDA   | Dawn Export            | -                     | 1.1486                                    | -                                   | 0.0884                                         |
| 27       | Centram MDA   | Union Parkway Belt     | -                     | 1.2858                                    | -                                   | 0.0998                                         |
| 28       | Centram MDA   | Union CDA (Amended)    | -                     | 1.2825                                    | -                                   | 0.0995                                         |
| 29       | Centram MDA   | Union ECDA             | -                     | 1.2927                                    | -                                   | 0.1004                                         |
| 30       | Centram MDA   | Enbridge Parkway CDA   | -                     | 1.2858                                    | -                                   | 0.0998                                         |
| 31       | Centram MDA   | Enbridge CDA (Amended) | -                     | 1.3217                                    | -                                   | 0.1028                                         |
| 32       | Centram SSDA  | Empress                | -                     | 0.4454                                    | -                                   | 0.0319                                         |
| 33       | Centram SSDA  | TransGas SSDA          | -                     | 0.1973                                    | -                                   | 0.0101                                         |
| 34       | Centram SSDA  | Centram SSDA           | -                     | 0.0956                                    | -                                   | 0.0012                                         |
| 35       | Centram SSDA  | Centram MDA            | -                     | 0.2500                                    | -                                   | 0.0147                                         |
| 36       | Centram SSDA  | Centrat MDA            | -                     | 0.3191                                    | -                                   | 0.0208                                         |
| 37       | Centram SSDA  | Union WDA              | -                     | 0.6079                                    | -                                   | 0.0462                                         |
| 38       | Centram SSDA  | Nipigon WDA            | -                     | 0.6929                                    | -                                   | 0.0537                                         |
| 39       | Centram SSDA  | Union NDA              | -                     | 1.1232                                    | -                                   | 0.0916                                         |
| 40       | Centram SSDA  | Calstock NDA           | -                     | 0.8821                                    | -                                   | 0.0704                                         |
| 41       | Centram SSDA  | Tunis NDA              | -                     | 1.0310                                    | -                                   | 0.0835                                         |
| 42       | Centram SSDA  | GMIT NDA               | -                     | 1.1536                                    | -                                   | 0.0943                                         |
| 43       | Centram SSDA  | Union SSMDA            | -                     | 0.9863                                    | -                                   | 0.0795                                         |
| 44       | Centram SSDA  | Union NCDA             | -                     | 1.3980                                    | -                                   | 0.1091                                         |
| 45       | Centram SSDA  | Union CDA              | -                     | 1.4515                                    | -                                   | 0.1136                                         |
| 46       | Centram SSDA  | Enbridge CDA           | -                     | 1.4814                                    | -                                   | 0.1161                                         |
| 47       | Centram SSDA  | Union EDA              | -                     | 1.5814                                    | -                                   | 0.1244                                         |
| 48       | Centram SSDA  | Enbridge EDA           | -                     | 1.5400                                    | -                                   | 0.1210                                         |
| 49       | Centram SSDA  | KPUC EDA               | -                     | 1.6212                                    | -                                   | 0.1277                                         |
| 50       | Centram SSDA  | GMIT EDA               | -                     | 1.6747                                    | -                                   | 0.1322                                         |
| 51       | Centram SSDA  | Enbridge SWDA          | -                     | 1.3112                                    | -                                   | 0.1019                                         |
| 52       | Centram SSDA  | Union SWDA             | -                     | 1.3090                                    | -                                   | 0.1017                                         |
| 53       | Centram SSDA  | Chippawa               | -                     | 1.4940                                    | -                                   | 0.1171                                         |
| 54       | Centram SSDA  | Cornwall               | -                     | 1.5725                                    | -                                   | 0.1237                                         |
| 55       | Centram SSDA  | East Hereford          | -                     | 1.7879                                    | -                                   | 0.1416                                         |
| 56       | Centram SSDA  | Emerson 1              | -                     | 0.3311                                    | -                                   | 0.0219                                         |
| 57       | Centram SSDA  | Emerson 2              | -                     | 0.3311                                    | -                                   | 0.0219                                         |
| 58       | Centram SSDA  | Iroquois               | -                     | 1.5524                                    | -                                   | 0.1220                                         |
| 59       | Centram SSDA  | Kirkwall               | -                     | 1.4252                                    | -                                   | 0.1114                                         |
| 60       | Centram SSDA  | Napierville            | -                     | 1.6654                                    | -                                   | 0.1314                                         |
| 61       | Centram SSDA  | Niagara Falls          | -                     | 1.4926                                    | -                                   | 0.1170                                         |
| 62       | Centram SSDA  | North Bay Junction     | -                     | 1.2224                                    | -                                   | 0.1003                                         |
| 63       | Centram SSDA  | Philipsburg            | -                     | 1.6760                                    | -                                   | 0.1323                                         |
| 64       | Centram SSDA  | Spruce                 | -                     | 0.3191                                    | -                                   | 0.0208                                         |
| 65       | Centram SSDA  | St. Clair              | -                     | 1.2270                                    | -                                   | 0.1007                                         |
| 66       | Centram SSDA  | Welwyn                 | -                     | 0.0956                                    | -                                   | 0.0012                                         |
| 67       | Centram SSDA  | Dawn Export            | -                     | 1.3112                                    | -                                   | 0.1019                                         |
| 68       | Centram SSDA  | Union Parkway Belt     | -                     | 1.4483                                    | -                                   | 0.1133                                         |
| 69       | Centram SSDA  | Union CDA (Amended)    | -                     | 1.4451                                    | -                                   | 0.1131                                         |
| 70       | Centram SSDA  | Union ECDA             | -                     | 1.4553                                    | -                                   | 0.1139                                         |
| 71       | Centram SSDA  | Enbridge Parkway CDA   | -                     | 1.4483                                    | -                                   | 0.1133                                         |
| 72       | Centram SSDA  | Enbridge CDA (Amended) | -                     | 1.4845                                    | -                                   | 0.1163                                         |
| 73       | Centrat MDA   | Empress                | -                     | 0.6689                                    | -                                   | 0.0516                                         |
| 74       | Centrat MDA   | TransGas SSDA          | -                     | 0.4207                                    | -                                   | 0.0298                                         |
| 75       | Centrat MDA   | Centram SSDA           | -                     | 0.3191                                    | -                                   | 0.0208                                         |
| 76       | Centrat MDA   | Centram MDA            | -                     | 0.1662                                    | -                                   | 0.0074                                         |

| Line No. | Receipt Point | Delivery Point         | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Centrat MDA   | Centrat MDA            | -                     | 0.0956                                    | -                                   | 0.0012                                         |
| 2        | Centrat MDA   | Union WDA              | -                     | 0.3844                                    | -                                   | 0.0266                                         |
| 3        | Centrat MDA   | Nipigon WDA            | -                     | 0.4695                                    | -                                   | 0.0341                                         |
| 4        | Centrat MDA   | Union NDA              | -                     | 0.8998                                    | -                                   | 0.0719                                         |
| 5        | Centrat MDA   | Calstock NDA           | -                     | 0.6586                                    | -                                   | 0.0507                                         |
| 6        | Centrat MDA   | Tunis NDA              | -                     | 0.8076                                    | -                                   | 0.0638                                         |
| 7        | Centrat MDA   | GMIT NDA               | -                     | 0.9302                                    | -                                   | 0.0746                                         |
| 8        | Centrat MDA   | Union SSMDA            | -                     | 0.8319                                    | -                                   | 0.0659                                         |
| 9        | Centrat MDA   | Union NCDA             | -                     | 1.1619                                    | -                                   | 0.0895                                         |
| 10       | Centrat MDA   | Union CDA              | -                     | 1.2808                                    | -                                   | 0.0994                                         |
| 11       | Centrat MDA   | Enbridge CDA           | -                     | 1.2655                                    | -                                   | 0.0981                                         |
| 12       | Centrat MDA   | Union EDA              | -                     | 1.3474                                    | -                                   | 0.1049                                         |
| 13       | Centrat MDA   | Enbridge EDA           | -                     | 1.3043                                    | -                                   | 0.1013                                         |
| 14       | Centrat MDA   | KPUC EDA               | -                     | 1.3851                                    | -                                   | 0.1081                                         |
| 15       | Centrat MDA   | GMIT EDA               | -                     | 1.4385                                    | -                                   | 0.1125                                         |
| 16       | Centrat MDA   | Enbridge SWDA          | -                     | 1.1480                                    | -                                   | 0.0883                                         |
| 17       | Centrat MDA   | Union SWDA             | -                     | 1.1459                                    | -                                   | 0.0881                                         |
| 18       | Centrat MDA   | Chippawa               | -                     | 1.3309                                    | -                                   | 0.1035                                         |
| 19       | Centrat MDA   | Cornwall               | -                     | 1.3364                                    | -                                   | 0.1040                                         |
| 20       | Centrat MDA   | East Hereford          | -                     | 1.5517                                    | -                                   | 0.1219                                         |
| 21       | Centrat MDA   | Emerson 1              | -                     | 0.1768                                    | -                                   | 0.0083                                         |
| 22       | Centrat MDA   | Emerson 2              | -                     | 0.1768                                    | -                                   | 0.0083                                         |
| 23       | Centrat MDA   | Iroquois               | -                     | 1.3163                                    | -                                   | 0.1023                                         |
| 24       | Centrat MDA   | Kirkwall               | -                     | 1.2621                                    | -                                   | 0.0978                                         |
| 25       | Centrat MDA   | Napierville            | -                     | 1.4293                                    | -                                   | 0.1117                                         |
| 26       | Centrat MDA   | Niagara Falls          | -                     | 1.3294                                    | -                                   | 0.1034                                         |
| 27       | Centrat MDA   | North Bay Junction     | -                     | 0.9990                                    | -                                   | 0.0806                                         |
| 28       | Centrat MDA   | Philipsburg            | -                     | 1.4398                                    | -                                   | 0.1126                                         |
| 29       | Centrat MDA   | Spruce                 | -                     | 0.0956                                    | -                                   | 0.0012                                         |
| 30       | Centrat MDA   | St. Clair              | -                     | 1.0726                                    | -                                   | 0.0871                                         |
| 31       | Centrat MDA   | Welwyn                 | -                     | 0.3191                                    | -                                   | 0.0208                                         |
| 32       | Centrat MDA   | Dawn Export            | -                     | 1.1480                                    | -                                   | 0.0883                                         |
| 33       | Centrat MDA   | Union Parkway Belt     | -                     | 1.2731                                    | -                                   | 0.0987                                         |
| 34       | Centrat MDA   | Union CDA (Amended)    | -                     | 1.2819                                    | -                                   | 0.0995                                         |
| 35       | Centrat MDA   | Union ECDA             | -                     | 1.2801                                    | -                                   | 0.0993                                         |
| 36       | Centrat MDA   | Enbridge Parkway CDA   | -                     | 1.2731                                    | -                                   | 0.0987                                         |
| 37       | Centrat MDA   | Enbridge CDA (Amended) | -                     | 1.2648                                    | -                                   | 0.0980                                         |
| 38       | Chippawa      | Empress                | 73.07330              | 2.4024                                    | 4.49901                             | 0.1479                                         |
| 39       | Chippawa      | TransGas SSDA          | 62.79034              | 2.0643                                    | 3.83482                             | 0.1261                                         |
| 40       | Chippawa      | Centram SSDA           | 58.57794              | 1.9259                                    | 3.56272                             | 0.1171                                         |
| 41       | Chippawa      | Centram MDA            | 52.20504              | 1.7163                                    | 3.15110                             | 0.1036                                         |
| 42       | Chippawa      | Centrat MDA            | 52.18162              | 1.7156                                    | 3.14960                             | 0.1035                                         |
| 43       | Chippawa      | Union WDA              | 42.13773              | 1.3854                                    | 2.50084                             | 0.0822                                         |
| 44       | Chippawa      | Nipigon WDA            | 37.62876              | 1.2371                                    | 2.20959                             | 0.0726                                         |
| 45       | Chippawa      | Union NDA              | 19.79578              | 0.6508                                    | 1.05773                             | 0.0348                                         |
| 46       | Chippawa      | Calstock NDA           | 29.78917              | 0.9794                                    | 1.70323                             | 0.0560                                         |
| 47       | Chippawa      | Tunis NDA              | 23.61702              | 0.7765                                    | 1.30456                             | 0.0429                                         |
| 48       | Chippawa      | GMIT NDA               | 19.03049              | 0.6257                                    | 1.00832                             | 0.0332                                         |
| 49       | Chippawa      | Union SSMDA            | 25.55426              | 0.8401                                    | 1.42969                             | 0.0470                                         |
| 50       | Chippawa      | Union NCDA             | 11.52731              | 0.3790                                    | 0.52365                             | 0.0172                                         |
| 51       | Chippawa      | Union CDA              | 6.51525               | 0.2142                                    | 0.19991                             | 0.0066                                         |
| 52       | Chippawa      | Enbridge CDA           | 8.12855               | 0.2672                                    | 0.30416                             | 0.0100                                         |
| 53       | Chippawa      | Union EDA              | 14.81079              | 0.4869                                    | 0.73573                             | 0.0242                                         |
| 54       | Chippawa      | Enbridge EDA           | 18.06780              | 0.5940                                    | 0.94613                             | 0.0311                                         |
| 55       | Chippawa      | KPUC EDA               | 14.36823              | 0.4724                                    | 0.70715                             | 0.0232                                         |
| 56       | Chippawa      | GMIT EDA               | 22.29268              | 0.7329                                    | 1.21903                             | 0.0401                                         |
| 57       | Chippawa      | Enbridge SWDA          | 11.13098              | 0.3660                                    | 0.49807                             | 0.0164                                         |
| 58       | Chippawa      | Union SWDA             | 11.21615              | 0.3688                                    | 0.50358                             | 0.0166                                         |
| 59       | Chippawa      | Chippawa               | 3.96268               | 0.1303                                    | 0.03504                             | 0.0012                                         |
| 60       | Chippawa      | Cornwall               | 18.28772              | 0.6012                                    | 0.96031                             | 0.0316                                         |
| 61       | Chippawa      | East Hereford          | 26.73047              | 0.8788                                    | 1.50566                             | 0.0495                                         |
| 62       | Chippawa      | Emerson 1              | 48.81845              | 1.6050                                    | 2.93234                             | 0.0964                                         |
| 63       | Chippawa      | Emerson 2              | 48.81845              | 1.6050                                    | 2.93234                             | 0.0964                                         |
| 64       | Chippawa      | Iroquois               | 17.28366              | 0.5682                                    | 0.89546                             | 0.0294                                         |
| 65       | Chippawa      | Kirkwall               | 6.65943               | 0.2189                                    | 0.20922                             | 0.0069                                         |
| 66       | Chippawa      | Napierville            | 21.92890              | 0.7210                                    | 1.19553                             | 0.0393                                         |
| 67       | Chippawa      | Niagara Falls          | 4.87883               | 0.1604                                    | 0.09425                             | 0.0031                                         |
| 68       | Chippawa      | North Bay Junction     | 15.68527              | 0.5157                                    | 0.79223                             | 0.0260                                         |
| 69       | Chippawa      | Philipsburg            | 22.34287              | 0.7346                                    | 1.22226                             | 0.0402                                         |
| 70       | Chippawa      | Spruce                 | 52.18162              | 1.7156                                    | 3.14960                             | 0.1035                                         |
| 71       | Chippawa      | St. Clair              | 11.69582              | 0.3845                                    | 0.53455                             | 0.0176                                         |
| 72       | Chippawa      | Welwyn                 | 58.57794              | 1.9259                                    | 3.56272                             | 0.1171                                         |
| 73       | Chippawa      | Dawn Export            | 11.13098              | 0.3660                                    | 0.49807                             | 0.0164                                         |
| 74       | Chippawa      | Union Parkway Belt     | 7.16465               | 0.2356                                    | 0.24188                             | 0.0080                                         |
| 75       | Chippawa      | Union CDA (Amended)    | 5.88106               | 0.1934                                    | 0.15897                             | 0.0052                                         |
| 76       | Chippawa      | Union ECDA             | 6.89150               | 0.2266                                    | 0.22424                             | 0.0074                                         |

| Line No. | Receipt Point | Delivery Point         | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Chippawa      | Enbridge Parkway CDA   | 7.16465               | 0.2356                                    | 0.24188                             | 0.0080                                         |
| 2        | Chippawa      | Enbridge CDA (Amended) | 8.21919               | 0.2702                                    | 0.30999                             | 0.0102                                         |
| 3        | Cornwall      | Empress                | 76.15299              | 2.5037                                    | 4.69793                             | 0.1545                                         |
| 4        | Cornwall      | TransGas SSDA          | 65.87033              | 2.1656                                    | 4.03375                             | 0.1326                                         |
| 5        | Cornwall      | Centram SSDA           | 61.65732              | 2.0271                                    | 3.76164                             | 0.1237                                         |
| 6        | Cornwall      | Centram MDA            | 55.32214              | 1.8188                                    | 3.35244                             | 0.1102                                         |
| 7        | Cornwall      | Centrat MDA            | 52.39818              | 1.7227                                    | 3.16358                             | 0.1040                                         |
| 8        | Cornwall      | Union WDA              | 41.41473              | 1.3616                                    | 2.45415                             | 0.0807                                         |
| 9        | Cornwall      | Nipigon WDA            | 36.90606              | 1.2134                                    | 2.16293                             | 0.0711                                         |
| 10       | Cornwall      | Union NDA              | 19.09133              | 0.6277                                    | 1.01224                             | 0.0333                                         |
| 11       | Cornwall      | Calstock NDA           | 29.06708              | 0.9556                                    | 1.65658                             | 0.0545                                         |
| 12       | Cornwall      | Tunis NDA              | 22.89493              | 0.7527                                    | 1.25790                             | 0.0414                                         |
| 13       | Cornwall      | GMIT NDA               | 18.30840              | 0.6019                                    | 0.96166                             | 0.0316                                         |
| 14       | Cornwall      | Union SSMDA            | 34.88609              | 1.1469                                    | 2.03243                             | 0.0668                                         |
| 15       | Cornwall      | Union NCDA             | 16.94908              | 0.5572                                    | 0.87384                             | 0.0287                                         |
| 16       | Cornwall      | Union CDA              | 15.79568              | 0.5193                                    | 0.79938                             | 0.0263                                         |
| 17       | Cornwall      | Enbridge CDA           | 14.44366              | 0.4749                                    | 0.71203                             | 0.0234                                         |
| 18       | Cornwall      | Union EDA              | 7.47915               | 0.2459                                    | 0.26221                             | 0.0086                                         |
| 19       | Cornwall      | Enbridge EDA           | 6.94169               | 0.2282                                    | 0.22747                             | 0.0075                                         |
| 20       | Cornwall      | KPUC EDA               | 7.88218               | 0.2591                                    | 0.28820                             | 0.0095                                         |
| 21       | Cornwall      | GMIT EDA               | 7.96825               | 0.2620                                    | 0.29379                             | 0.0097                                         |
| 22       | Cornwall      | Enbridge SWDA          | 20.46281              | 0.6728                                    | 1.10082                             | 0.0362                                         |
| 23       | Cornwall      | Union SWDA             | 20.54828              | 0.6756                                    | 1.10633                             | 0.0364                                         |
| 24       | Cornwall      | Chippawa               | 18.28772              | 0.6012                                    | 0.96031                             | 0.0316                                         |
| 25       | Cornwall      | Cornwall               | 3.96268               | 0.1303                                    | 0.03504                             | 0.0012                                         |
| 26       | Cornwall      | East Hereford          | 12.40544              | 0.4079                                    | 0.58039                             | 0.0191                                         |
| 27       | Cornwall      | Emerson 1              | 55.76196              | 1.8333                                    | 3.38084                             | 0.1112                                         |
| 28       | Cornwall      | Emerson 2              | 55.76196              | 1.8333                                    | 3.38084                             | 0.1112                                         |
| 29       | Cornwall      | Iroquois               | 5.18574               | 0.1705                                    | 0.11406                             | 0.0037                                         |
| 30       | Cornwall      | Kirkwall               | 15.99095              | 0.5257                                    | 0.81198                             | 0.0267                                         |
| 31       | Cornwall      | Napierville            | 7.60386               | 0.2500                                    | 0.27026                             | 0.0089                                         |
| 32       | Cornwall      | Niagara Falls          | 18.23114              | 0.5994                                    | 0.95665                             | 0.0315                                         |
| 33       | Cornwall      | North Bay Junction     | 14.96287              | 0.4919                                    | 0.74556                             | 0.0245                                         |
| 34       | Cornwall      | Philipsburg            | 8.01783               | 0.2636                                    | 0.29699                             | 0.0098                                         |
| 35       | Cornwall      | Spruce                 | 52.39818              | 1.7227                                    | 3.16358                             | 0.1040                                         |
| 36       | Cornwall      | St. Clair              | 21.02795              | 0.6913                                    | 1.13731                             | 0.0374                                         |
| 37       | Cornwall      | Welwyn                 | 61.65732              | 2.0271                                    | 3.76164                             | 0.1237                                         |
| 38       | Cornwall      | Dawn Export            | 20.46281              | 0.6728                                    | 1.10082                             | 0.0362                                         |
| 39       | Cornwall      | Union Parkway Belt     | 15.08515              | 0.4960                                    | 0.75348                             | 0.0248                                         |
| 40       | Cornwall      | Union CDA (Amended)    | 16.53176              | 0.5435                                    | 0.84690                             | 0.0278                                         |
| 41       | Cornwall      | Union ECDA             | 15.35829              | 0.5049                                    | 0.77110                             | 0.0254                                         |
| 42       | Cornwall      | Enbridge Parkway CDA   | 15.08515              | 0.4960                                    | 0.75348                             | 0.0248                                         |
| 43       | Cornwall      | Enbridge CDA (Amended) | 14.38374              | 0.4729                                    | 0.70816                             | 0.0233                                         |
| 44       | East Hereford | Empress                | 84.59575              | 2.7812                                    | 5.24327                             | 0.1724                                         |
| 45       | East Hereford | TransGas SSDA          | 74.31278              | 2.4432                                    | 4.57908                             | 0.1505                                         |
| 46       | East Hereford | Centram SSDA           | 70.10068              | 2.3047                                    | 4.30700                             | 0.1416                                         |
| 47       | East Hereford | Centram MDA            | 63.76550              | 2.0964                                    | 3.89782                             | 0.1281                                         |
| 48       | East Hereford | Centrat MDA            | 60.84124              | 2.0003                                    | 3.70893                             | 0.1219                                         |
| 49       | East Hereford | Union WDA              | 49.85809              | 1.6392                                    | 2.99951                             | 0.0986                                         |
| 50       | East Hereford | Nipigon WDA            | 45.34912              | 1.4909                                    | 2.70827                             | 0.0890                                         |
| 51       | East Hereford | Union NDA              | 27.53378              | 0.9052                                    | 1.55755                             | 0.0512                                         |
| 52       | East Hereford | Calstock NDA           | 37.51014              | 1.2332                                    | 2.20192                             | 0.0724                                         |
| 53       | East Hereford | Tunis NDA              | 31.33799              | 1.0303                                    | 1.80326                             | 0.0593                                         |
| 54       | East Hereford | GMIT NDA               | 26.75146              | 0.8795                                    | 1.50700                             | 0.0495                                         |
| 55       | East Hereford | Union SSMDA            | 43.32915              | 1.4245                                    | 2.57779                             | 0.0847                                         |
| 56       | East Hereford | Union NCDA             | 25.39183              | 0.8348                                    | 1.41920                             | 0.0467                                         |
| 57       | East Hereford | Union CDA              | 24.23874              | 0.7969                                    | 1.34472                             | 0.0442                                         |
| 58       | East Hereford | Enbridge CDA           | 22.88702              | 0.7525                                    | 1.25739                             | 0.0413                                         |
| 59       | East Hereford | Union EDA              | 15.92282              | 0.5235                                    | 0.80758                             | 0.0266                                         |
| 60       | East Hereford | Enbridge EDA           | 15.35494              | 0.5048                                    | 0.77090                             | 0.0253                                         |
| 61       | East Hereford | KPUC EDA               | 16.32493              | 0.5367                                    | 0.83355                             | 0.0274                                         |
| 62       | East Hereford | GMIT EDA               | 11.06467              | 0.3638                                    | 0.49378                             | 0.0162                                         |
| 63       | East Hereford | Enbridge SWDA          | 28.90587              | 0.9503                                    | 1.64617                             | 0.0541                                         |
| 64       | East Hereford | Union SWDA             | 28.99104              | 0.9531                                    | 1.65168                             | 0.0543                                         |
| 65       | East Hereford | Chippawa               | 26.73047              | 0.8788                                    | 1.50566                             | 0.0495                                         |
| 66       | East Hereford | Cornwall               | 12.40544              | 0.4079                                    | 0.58039                             | 0.0191                                         |
| 67       | East Hereford | East Hereford          | 3.96268               | 0.1303                                    | 0.03504                             | 0.0012                                         |
| 68       | East Hereford | Emerson 1              | 64.20502              | 2.1109                                    | 3.92618                             | 0.1291                                         |
| 69       | East Hereford | Emerson 2              | 64.20502              | 2.1109                                    | 3.92618                             | 0.1291                                         |
| 70       | East Hereford | Iroquois               | 13.62880              | 0.4481                                    | 0.65940                             | 0.0217                                         |
| 71       | East Hereford | Kirkwall               | 24.43371              | 0.8033                                    | 1.35732                             | 0.0446                                         |
| 72       | East Hereford | Napierville            | 13.18289              | 0.4334                                    | 0.63059                             | 0.0207                                         |
| 73       | East Hereford | Niagara Falls          | 26.67390              | 0.8770                                    | 1.50200                             | 0.0494                                         |
| 74       | East Hereford | North Bay Junction     | 23.40623              | 0.7695                                    | 1.29092                             | 0.0424                                         |
| 75       | East Hereford | Philipsburg            | 13.59625              | 0.4470                                    | 0.65732                             | 0.0216                                         |
| 76       | East Hereford | Spruce                 | 60.84124              | 2.0003                                    | 3.70893                             | 0.1219                                         |

| Line No. | Receipt Point | Delivery Point         | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | East Hereford | St. Clair              | 29.47071              | 0.9689                                    | 1.68265                             | 0.0553                                         |
| 2        | East Hereford | Welwyn                 | 70.10068              | 2.3047                                    | 4.30700                             | 0.1416                                         |
| 3        | East Hereford | Dawn Export            | 28.90587              | 0.9503                                    | 1.64617                             | 0.0541                                         |
| 4        | East Hereford | Union Parkway Belt     | 23.52820              | 0.7735                                    | 1.29882                             | 0.0427                                         |
| 5        | East Hereford | Union CDA (Amended)    | 24.97482              | 0.8211                                    | 1.39224                             | 0.0458                                         |
| 6        | East Hereford | Union ECDA             | 23.80104              | 0.7825                                    | 1.31646                             | 0.0433                                         |
| 7        | East Hereford | Enbridge Parkway CDA   | 23.52820              | 0.7735                                    | 1.29882                             | 0.0427                                         |
| 8        | East Hereford | Enbridge CDA (Amended) | 22.82710              | 0.7505                                    | 1.25354                             | 0.0412                                         |
| 9        | Emerson 1     | Empress                | 20.71162              | 0.6809                                    | 1.60171                             | 0.0527                                         |
| 10       | Emerson 1     | TransGas SSDA          | 13.16433              | 0.4328                                    | 0.93755                             | 0.0308                                         |
| 11       | Emerson 1     | Centram SSDA           | 10.07187              | 0.3311                                    | 0.66542                             | 0.0219                                         |
| 12       | Emerson 1     | Centram MDA            | 5.39470               | 0.1774                                    | 0.25380                             | 0.0083                                         |
| 13       | Emerson 1     | Centrat MDA            | 5.37767               | 0.1768                                    | 0.25230                             | 0.0083                                         |
| 14       | Emerson 1     | Union WDA              | 14.16200              | 0.4656                                    | 1.02535                             | 0.0337                                         |
| 15       | Emerson 1     | Nipigon WDA            | 16.74833              | 0.5506                                    | 1.25295                             | 0.0412                                         |
| 16       | Emerson 1     | Union NDA              | 29.83784              | 0.9810                                    | 2.40479                             | 0.0791                                         |
| 17       | Emerson 1     | Calstock NDA           | 22.50255              | 0.7398                                    | 1.75931                             | 0.0578                                         |
| 18       | Emerson 1     | Tunis NDA              | 27.03312              | 0.8888                                    | 2.15798                             | 0.0709                                         |
| 19       | Emerson 1     | GMIT NDA               | 30.76159              | 1.0113                                    | 2.48607                             | 0.0817                                         |
| 20       | Emerson 1     | Union SSMDA            | 22.83531              | 0.7508                                    | 1.78858                             | 0.0588                                         |
| 21       | Emerson 1     | Union NCDA             | 37.94662              | 1.2476                                    | 2.93865                             | 0.0966                                         |
| 22       | Emerson 1     | Union CDA              | 36.57756              | 1.2026                                    | 2.82463                             | 0.0929                                         |
| 23       | Emerson 1     | Enbridge CDA           | 37.70420              | 1.2396                                    | 2.91844                             | 0.0959                                         |
| 24       | Emerson 1     | Union EDA              | 41.87432              | 1.3767                                    | 3.26567                             | 0.1074                                         |
| 25       | Emerson 1     | Enbridge EDA           | 41.98382              | 1.3803                                    | 3.27477                             | 0.1077                                         |
| 26       | Emerson 1     | KPUC EDA               | 42.06990              | 1.3831                                    | 3.28194                             | 0.1079                                         |
| 27       | Emerson 1     | GMIT EDA               | 46.36595              | 1.5244                                    | 3.63965                             | 0.1197                                         |
| 28       | Emerson 1     | Enbridge SWDA          | 32.31010              | 1.0623                                    | 2.46932                             | 0.0812                                         |
| 29       | Emerson 1     | Union SWDA             | 32.24380              | 1.0601                                    | 2.46381                             | 0.0810                                         |
| 30       | Emerson 1     | Chippawa               | 37.87118              | 1.2451                                    | 2.93234                             | 0.0964                                         |
| 31       | Emerson 1     | Cornwall               | 43.25767              | 1.4222                                    | 3.38084                             | 0.1112                                         |
| 32       | Emerson 1     | East Hereford          | 49.80729              | 1.6375                                    | 3.92618                             | 0.1291                                         |
| 33       | Emerson 1     | Emerson 1              | 2.90844               | 0.0956                                    | 0.03504                             | 0.0012                                         |
| 34       | Emerson 1     | Emerson 2              | 2.90844               | 0.0956                                    | 0.03504                             | 0.0012                                         |
| 35       | Emerson 1     | Iroquois               | 42.64630              | 1.4021                                    | 3.32995                             | 0.1095                                         |
| 36       | Emerson 1     | Kirkwall               | 35.77913              | 1.1763                                    | 2.75817                             | 0.0907                                         |
| 37       | Emerson 1     | Napierville            | 46.08247              | 1.5150                                    | 3.61606                             | 0.1189                                         |
| 38       | Emerson 1     | Niagara Falls          | 37.82708              | 1.2436                                    | 2.92869                             | 0.0963                                         |
| 39       | Emerson 1     | North Bay Junction     | 32.85517              | 1.0802                                    | 2.67032                             | 0.0878                                         |
| 40       | Emerson 1     | Philipsburg            | 46.40367              | 1.5256                                    | 3.64279                             | 0.1198                                         |
| 41       | Emerson 1     | Spruce                 | 5.37767               | 0.1768                                    | 0.25230                             | 0.0083                                         |
| 42       | Emerson 1     | St. Clair              | 30.15660              | 0.9915                                    | 2.43284                             | 0.0800                                         |
| 43       | Emerson 1     | Welwyn                 | 10.07187              | 0.3311                                    | 0.66542                             | 0.0219                                         |
| 44       | Emerson 1     | Dawn Export            | 32.31010              | 1.0623                                    | 2.46932                             | 0.0812                                         |
| 45       | Emerson 1     | Union Parkway Belt     | 36.48175              | 1.1994                                    | 2.81666                             | 0.0926                                         |
| 46       | Emerson 1     | Union CDA (Amended)    | 36.38259              | 1.1961                                    | 2.80841                             | 0.0923                                         |
| 47       | Emerson 1     | Union ECDA             | 36.69315              | 1.2064                                    | 2.83429                             | 0.0932                                         |
| 48       | Emerson 1     | Enbridge Parkway CDA   | 36.48175              | 1.1994                                    | 2.81666                             | 0.0926                                         |
| 49       | Emerson 1     | Enbridge CDA (Amended) | 37.81826              | 1.2433                                    | 2.92797                             | 0.0963                                         |
| 50       | Emerson 2     | Empress                | 20.71162              | 0.6809                                    | 1.60171                             | 0.0527                                         |
| 51       | Emerson 2     | TransGas SSDA          | 13.16433              | 0.4328                                    | 0.93755                             | 0.0308                                         |
| 52       | Emerson 2     | Centram SSDA           | 10.07187              | 0.3311                                    | 0.66542                             | 0.0219                                         |
| 53       | Emerson 2     | Centram MDA            | 5.39470               | 0.1774                                    | 0.25380                             | 0.0083                                         |
| 54       | Emerson 2     | Centrat MDA            | 5.37767               | 0.1768                                    | 0.25230                             | 0.0083                                         |
| 55       | Emerson 2     | Union WDA              | 14.16200              | 0.4656                                    | 1.02535                             | 0.0337                                         |
| 56       | Emerson 2     | Nipigon WDA            | 16.74833              | 0.5506                                    | 1.25295                             | 0.0412                                         |
| 57       | Emerson 2     | Union NDA              | 29.83784              | 0.9810                                    | 2.40479                             | 0.0791                                         |
| 58       | Emerson 2     | Calstock NDA           | 22.50255              | 0.7398                                    | 1.75931                             | 0.0578                                         |
| 59       | Emerson 2     | Tunis NDA              | 27.03312              | 0.8888                                    | 2.15798                             | 0.0709                                         |
| 60       | Emerson 2     | GMIT NDA               | 30.76159              | 1.0113                                    | 2.48607                             | 0.0817                                         |
| 61       | Emerson 2     | Union SSMDA            | 22.83531              | 0.7508                                    | 1.78858                             | 0.0588                                         |
| 62       | Emerson 2     | Union NCDA             | 37.94662              | 1.2476                                    | 2.93865                             | 0.0966                                         |
| 63       | Emerson 2     | Union CDA              | 36.57756              | 1.2026                                    | 2.82463                             | 0.0929                                         |
| 64       | Emerson 2     | Enbridge CDA           | 37.70420              | 1.2396                                    | 2.91844                             | 0.0959                                         |
| 65       | Emerson 2     | Union EDA              | 41.87432              | 1.3767                                    | 3.26567                             | 0.1074                                         |
| 66       | Emerson 2     | Enbridge EDA           | 41.98382              | 1.3803                                    | 3.27477                             | 0.1077                                         |
| 67       | Emerson 2     | KPUC EDA               | 42.06990              | 1.3831                                    | 3.28194                             | 0.1079                                         |
| 68       | Emerson 2     | GMIT EDA               | 46.36595              | 1.5244                                    | 3.63965                             | 0.1197                                         |
| 69       | Emerson 2     | Enbridge SWDA          | 32.31010              | 1.0623                                    | 2.46932                             | 0.0812                                         |
| 70       | Emerson 2     | Union SWDA             | 32.24380              | 1.0601                                    | 2.46381                             | 0.0810                                         |
| 71       | Emerson 2     | Chippawa               | 37.87118              | 1.2451                                    | 2.93234                             | 0.0964                                         |
| 72       | Emerson 2     | Cornwall               | 43.25767              | 1.4222                                    | 3.38084                             | 0.1112                                         |
| 73       | Emerson 2     | East Hereford          | 49.80729              | 1.6375                                    | 3.92618                             | 0.1291                                         |
| 74       | Emerson 2     | Emerson 1              | 2.90844               | 0.0956                                    | 0.03504                             | 0.0012                                         |
| 75       | Emerson 2     | Emerson 2              | 2.90844               | 0.0956                                    | 0.03504                             | 0.0012                                         |
| 76       | Emerson 2     | Iroquois               | 42.64630              | 1.4021                                    | 3.32995                             | 0.1095                                         |

| Line No. | Receipt Point        | Delivery Point         | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|----------------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Emerson 2            | Kirkwall               | 35.77913              | 1.1763                                    | 2.75817                             | 0.0907                                         |
| 2        | Emerson 2            | Napierville            | 46.08247              | 1.5150                                    | 3.61606                             | 0.1189                                         |
| 3        | Emerson 2            | Niagara Falls          | 37.82708              | 1.2436                                    | 2.92869                             | 0.0963                                         |
| 4        | Emerson 2            | North Bay Junction     | 32.85517              | 1.0802                                    | 2.67032                             | 0.0878                                         |
| 5        | Emerson 2            | Philipsburg            | 46.40367              | 1.5256                                    | 3.64279                             | 0.1198                                         |
| 6        | Emerson 2            | Spruce                 | 5.37767               | 0.1768                                    | 0.25230                             | 0.0083                                         |
| 7        | Emerson 2            | St. Clair              | 30.15660              | 0.9915                                    | 2.43284                             | 0.0800                                         |
| 8        | Emerson 2            | Welwyn                 | 10.07187              | 0.3311                                    | 0.66542                             | 0.0219                                         |
| 9        | Emerson 2            | Dawn Export            | 32.31010              | 1.0623                                    | 2.46932                             | 0.0812                                         |
| 10       | Emerson 2            | Union Parkway Belt     | 36.48175              | 1.1994                                    | 2.81666                             | 0.0926                                         |
| 11       | Emerson 2            | Union CDA (Amended)    | 36.38259              | 1.1961                                    | 2.80841                             | 0.0923                                         |
| 12       | Emerson 2            | Union ECDA             | 36.69315              | 1.2064                                    | 2.83429                             | 0.0932                                         |
| 13       | Emerson 2            | Enbridge Parkway CDA   | 36.48175              | 1.1994                                    | 2.81666                             | 0.0926                                         |
| 14       | Emerson 2            | Enbridge CDA (Amended) | 37.81826              | 1.2433                                    | 2.92797                             | 0.0963                                         |
| 15       | Enbridge CDA         | Empress                | -                     | 2.3862                                    | -                                   | 0.1469                                         |
| 16       | Enbridge CDA         | TransGas SSDA          | -                     | 2.0480                                    | -                                   | 0.1250                                         |
| 17       | Enbridge CDA         | Centram SSDA           | -                     | 1.9096                                    | -                                   | 0.1161                                         |
| 18       | Enbridge CDA         | Centram MDA            | -                     | 1.6996                                    | -                                   | 0.1025                                         |
| 19       | Enbridge CDA         | Centrat MDA            | -                     | 1.6313                                    | -                                   | 0.0981                                         |
| 20       | Enbridge CDA         | Union WDA              | -                     | 1.2751                                    | -                                   | 0.0751                                         |
| 21       | Enbridge CDA         | Nipigon WDA            | -                     | 1.1269                                    | -                                   | 0.0655                                         |
| 22       | Enbridge CDA         | Union NDA              | -                     | 0.5405                                    | -                                   | 0.0277                                         |
| 23       | Enbridge CDA         | Calstock NDA           | -                     | 0.8692                                    | -                                   | 0.0489                                         |
| 24       | Enbridge CDA         | Tunis NDA              | -                     | 0.6663                                    | -                                   | 0.0358                                         |
| 25       | Enbridge CDA         | GMIT NDA               | -                     | 0.5155                                    | -                                   | 0.0260                                         |
| 26       | Enbridge CDA         | Union SSMDA            | -                     | 0.8331                                    | -                                   | 0.0465                                         |
| 27       | Enbridge CDA         | Union NCDA             | -                     | 0.2688                                    | -                                   | 0.0101                                         |
| 28       | Enbridge CDA         | Union CDA              | -                     | 0.2057                                    | -                                   | 0.0060                                         |
| 29       | Enbridge CDA         | Enbridge CDA           | -                     | 0.1303                                    | -                                   | 0.0012                                         |
| 30       | Enbridge CDA         | Union EDA              | -                     | 0.3605                                    | -                                   | 0.0160                                         |
| 31       | Enbridge CDA         | Enbridge EDA           | -                     | 0.4675                                    | -                                   | 0.0229                                         |
| 32       | Enbridge CDA         | KPUC EDA               | -                     | 0.3460                                    | -                                   | 0.0151                                         |
| 33       | Enbridge CDA         | GMIT EDA               | -                     | 0.6063                                    | -                                   | 0.0319                                         |
| 34       | Enbridge CDA         | Enbridge SWDA          | -                     | 0.3589                                    | -                                   | 0.0159                                         |
| 35       | Enbridge CDA         | Union SWDA             | -                     | 0.3617                                    | -                                   | 0.0161                                         |
| 36       | Enbridge CDA         | Chippawa               | -                     | 0.2672                                    | -                                   | 0.0100                                         |
| 37       | Enbridge CDA         | Cornwall               | -                     | 0.4749                                    | -                                   | 0.0234                                         |
| 38       | Enbridge CDA         | East Hereford          | -                     | 0.7525                                    | -                                   | 0.0413                                         |
| 39       | Enbridge CDA         | Emerson 1              | -                     | 1.5979                                    | -                                   | 0.0959                                         |
| 40       | Enbridge CDA         | Emerson 2              | -                     | 1.5979                                    | -                                   | 0.0959                                         |
| 41       | Enbridge CDA         | Iroquois               | -                     | 0.4419                                    | -                                   | 0.0213                                         |
| 42       | Enbridge CDA         | Kirkwall               | -                     | 0.2119                                    | -                                   | 0.0064                                         |
| 43       | Enbridge CDA         | Napierville            | -                     | 0.5946                                    | -                                   | 0.0311                                         |
| 44       | Enbridge CDA         | Niagara Falls          | -                     | 0.2648                                    | -                                   | 0.0098                                         |
| 45       | Enbridge CDA         | North Bay Junction     | -                     | 0.4056                                    | -                                   | 0.0189                                         |
| 46       | Enbridge CDA         | Philipsburg            | -                     | 0.6082                                    | -                                   | 0.0320                                         |
| 47       | Enbridge CDA         | Spruce                 | -                     | 1.6313                                    | -                                   | 0.0981                                         |
| 48       | Enbridge CDA         | St. Clair              | -                     | 0.3775                                    | -                                   | 0.0171                                         |
| 49       | Enbridge CDA         | Welwyn                 | -                     | 1.9096                                    | -                                   | 0.1161                                         |
| 50       | Enbridge CDA         | Dawn Export            | -                     | 0.3590                                    | -                                   | 0.0159                                         |
| 51       | Enbridge CDA         | Union Parkway Belt     | -                     | 0.1896                                    | -                                   | 0.0050                                         |
| 52       | Enbridge CDA         | Union CDA (Amended)    | -                     | 0.2226                                    | -                                   | 0.0071                                         |
| 53       | Enbridge CDA         | Union ECDA             | -                     | 0.1957                                    | -                                   | 0.0054                                         |
| 54       | Enbridge CDA         | Enbridge Parkway CDA   | -                     | 0.1896                                    | -                                   | 0.0050                                         |
| 55       | Enbridge CDA         | Enbridge CDA (Amended) | -                     | 0.1923                                    | -                                   | 0.0052                                         |
| 56       | Enbridge Parkway CDA | Empress                | -                     | 2.3435                                    | -                                   | 0.1441                                         |
| 57       | Enbridge Parkway CDA | TransGas SSDA          | -                     | 2.0055                                    | -                                   | 0.1223                                         |
| 58       | Enbridge Parkway CDA | Centram SSDA           | -                     | 1.8670                                    | -                                   | 0.1133                                         |
| 59       | Enbridge Parkway CDA | Centram MDA            | -                     | 1.6574                                    | -                                   | 0.0998                                         |
| 60       | Enbridge Parkway CDA | Centrat MDA            | -                     | 1.6412                                    | -                                   | 0.0987                                         |
| 61       | Enbridge Parkway CDA | Union WDA              | -                     | 1.2801                                    | -                                   | 0.0754                                         |
| 62       | Enbridge Parkway CDA | Nipigon WDA            | -                     | 1.1318                                    | -                                   | 0.0658                                         |
| 63       | Enbridge Parkway CDA | Union NDA              | -                     | 0.5456                                    | -                                   | 0.0280                                         |
| 64       | Enbridge Parkway CDA | Calstock NDA           | -                     | 0.8741                                    | -                                   | 0.0492                                         |
| 65       | Enbridge Parkway CDA | Tunis NDA              | -                     | 0.6712                                    | -                                   | 0.0361                                         |
| 66       | Enbridge Parkway CDA | GMIT NDA               | -                     | 0.5204                                    | -                                   | 0.0263                                         |
| 67       | Enbridge Parkway CDA | Union SSMDA            | -                     | 0.7813                                    | -                                   | 0.0432                                         |
| 68       | Enbridge Parkway CDA | Union NCDA             | -                     | 0.2737                                    | -                                   | 0.0104                                         |
| 69       | Enbridge Parkway CDA | Union CDA              | -                     | 0.1536                                    | -                                   | 0.0027                                         |
| 70       | Enbridge Parkway CDA | Enbridge CDA           | -                     | 0.1896                                    | -                                   | 0.0050                                         |
| 71       | Enbridge Parkway CDA | Union EDA              | -                     | 0.3817                                    | -                                   | 0.0174                                         |
| 72       | Enbridge Parkway CDA | Enbridge EDA           | -                     | 0.4888                                    | -                                   | 0.0243                                         |
| 73       | Enbridge Parkway CDA | KPUC EDA               | -                     | 0.3671                                    | -                                   | 0.0164                                         |
| 74       | Enbridge Parkway CDA | GMIT EDA               | -                     | 0.6277                                    | -                                   | 0.0333                                         |
| 75       | Enbridge Parkway CDA | Enbridge SWDA          | -                     | 0.3071                                    | -                                   | 0.0126                                         |
| 76       | Enbridge Parkway CDA | Union SWDA             | -                     | 0.3099                                    | -                                   | 0.0128                                         |

| Line No. | Receipt Point          | Delivery Point         | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|------------------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Enbridge Parkway CDA   | Chippawa               | -                     | 0.2356                                    | -                                   | 0.0080                                         |
| 2        | Enbridge Parkway CDA   | Cornwall               | -                     | 0.4960                                    | -                                   | 0.0248                                         |
| 3        | Enbridge Parkway CDA   | East Hereford          | -                     | 0.7735                                    | -                                   | 0.0427                                         |
| 4        | Enbridge Parkway CDA   | Emerson 1              | -                     | 1.5461                                    | -                                   | 0.0926                                         |
| 5        | Enbridge Parkway CDA   | Emerson 2              | -                     | 1.5461                                    | -                                   | 0.0926                                         |
| 6        | Enbridge Parkway CDA   | Iroquois               | -                     | 0.4629                                    | -                                   | 0.0226                                         |
| 7        | Enbridge Parkway CDA   | Kirkwall               | -                     | 0.1601                                    | -                                   | 0.0031                                         |
| 8        | Enbridge Parkway CDA   | Napierville            | -                     | 0.6157                                    | -                                   | 0.0325                                         |
| 9        | Enbridge Parkway CDA   | Niagara Falls          | -                     | 0.2337                                    | -                                   | 0.0078                                         |
| 10       | Enbridge Parkway CDA   | North Bay Junction     | -                     | 0.4104                                    | -                                   | 0.0192                                         |
| 11       | Enbridge Parkway CDA   | Philipsburg            | -                     | 0.6293                                    | -                                   | 0.0334                                         |
| 12       | Enbridge Parkway CDA   | Spruce                 | -                     | 1.6412                                    | -                                   | 0.0987                                         |
| 13       | Enbridge Parkway CDA   | St. Clair              | -                     | 0.3256                                    | -                                   | 0.0138                                         |
| 14       | Enbridge Parkway CDA   | Welwyn                 | -                     | 1.8670                                    | -                                   | 0.1133                                         |
| 15       | Enbridge Parkway CDA   | Dawn Export            | -                     | 0.3071                                    | -                                   | 0.0126                                         |
| 16       | Enbridge Parkway CDA   | Union Parkway Belt     | -                     | 0.1303                                    | -                                   | 0.0012                                         |
| 17       | Enbridge Parkway CDA   | Union CDA (Amended)    | -                     | 0.1778                                    | -                                   | 0.0042                                         |
| 18       | Enbridge Parkway CDA   | Union ECDA             | -                     | 0.1393                                    | -                                   | 0.0017                                         |
| 19       | Enbridge Parkway CDA   | Enbridge Parkway CDA   | -                     | 0.1303                                    | -                                   | 0.0012                                         |
| 20       | Enbridge Parkway CDA   | Enbridge CDA (Amended) | -                     | 0.1952                                    | -                                   | 0.0053                                         |
| 21       | Enbridge CDA (Amended) | Empress                | -                     | 2.3902                                    | -                                   | 0.1471                                         |
| 22       | Enbridge CDA (Amended) | TransGas SSDA          | -                     | 2.0520                                    | -                                   | 0.1253                                         |
| 23       | Enbridge CDA (Amended) | Centram SSDA           | -                     | 1.9136                                    | -                                   | 0.1163                                         |
| 24       | Enbridge CDA (Amended) | Centram MDA            | -                     | 1.7038                                    | -                                   | 0.1028                                         |
| 25       | Enbridge CDA (Amended) | Centrat MDA            | -                     | 1.6304                                    | -                                   | 0.0980                                         |
| 26       | Enbridge CDA (Amended) | Union WDA              | -                     | 1.2747                                    | -                                   | 0.0751                                         |
| 27       | Enbridge CDA (Amended) | Nipigon WDA            | -                     | 1.1265                                    | -                                   | 0.0655                                         |
| 28       | Enbridge CDA (Amended) | Union NDA              | -                     | 0.5401                                    | -                                   | 0.0276                                         |
| 29       | Enbridge CDA (Amended) | Calstock NDA           | -                     | 0.8688                                    | -                                   | 0.0489                                         |
| 30       | Enbridge CDA (Amended) | Tunis NDA              | -                     | 0.6658                                    | -                                   | 0.0357                                         |
| 31       | Enbridge CDA (Amended) | GMIT NDA               | -                     | 0.5150                                    | -                                   | 0.0260                                         |
| 32       | Enbridge CDA (Amended) | Union SSMDA            | -                     | 0.8379                                    | -                                   | 0.0469                                         |
| 33       | Enbridge CDA (Amended) | Union NCDA             | -                     | 0.2683                                    | -                                   | 0.0101                                         |
| 34       | Enbridge CDA (Amended) | Union CDA              | -                     | 0.2105                                    | -                                   | 0.0063                                         |
| 35       | Enbridge CDA (Amended) | Enbridge CDA           | -                     | 0.1923                                    | -                                   | 0.0052                                         |
| 36       | Enbridge CDA (Amended) | Union EDA              | -                     | 0.3584                                    | -                                   | 0.0159                                         |
| 37       | Enbridge CDA (Amended) | Enbridge EDA           | -                     | 0.4656                                    | -                                   | 0.0228                                         |
| 38       | Enbridge CDA (Amended) | KPUC EDA               | -                     | 0.3441                                    | -                                   | 0.0150                                         |
| 39       | Enbridge CDA (Amended) | GMIT EDA               | -                     | 0.6044                                    | -                                   | 0.0318                                         |
| 40       | Enbridge CDA (Amended) | Enbridge SWDA          | -                     | 0.3637                                    | -                                   | 0.0162                                         |
| 41       | Enbridge CDA (Amended) | Union SWDA             | -                     | 0.3665                                    | -                                   | 0.0164                                         |
| 42       | Enbridge CDA (Amended) | Chippawa               | -                     | 0.2702                                    | -                                   | 0.0102                                         |
| 43       | Enbridge CDA (Amended) | Cornwall               | -                     | 0.4729                                    | -                                   | 0.0233                                         |
| 44       | Enbridge CDA (Amended) | East Hereford          | -                     | 0.7505                                    | -                                   | 0.0412                                         |
| 45       | Enbridge CDA (Amended) | Emerson 1              | -                     | 1.6028                                    | -                                   | 0.0963                                         |
| 46       | Enbridge CDA (Amended) | Emerson 2              | -                     | 1.6028                                    | -                                   | 0.0963                                         |
| 47       | Enbridge CDA (Amended) | Iroquois               | -                     | 0.4399                                    | -                                   | 0.0212                                         |
| 48       | Enbridge CDA (Amended) | Kirkwall               | -                     | 0.2168                                    | -                                   | 0.0067                                         |
| 49       | Enbridge CDA (Amended) | Napierville            | -                     | 0.5926                                    | -                                   | 0.0310                                         |
| 50       | Enbridge CDA (Amended) | Niagara Falls          | -                     | 0.2677                                    | -                                   | 0.0100                                         |
| 51       | Enbridge CDA (Amended) | North Bay Junction     | -                     | 0.4051                                    | -                                   | 0.0189                                         |
| 52       | Enbridge CDA (Amended) | Philipsburg            | -                     | 0.6062                                    | -                                   | 0.0319                                         |
| 53       | Enbridge CDA (Amended) | Spruce                 | -                     | 1.6304                                    | -                                   | 0.0980                                         |
| 54       | Enbridge CDA (Amended) | St. Clair              | -                     | 0.3824                                    | -                                   | 0.0174                                         |
| 55       | Enbridge CDA (Amended) | Welwyn                 | -                     | 1.9136                                    | -                                   | 0.1163                                         |
| 56       | Enbridge CDA (Amended) | Dawn Export            | -                     | 0.3638                                    | -                                   | 0.0162                                         |
| 57       | Enbridge CDA (Amended) | Union Parkway Belt     | -                     | 0.1952                                    | -                                   | 0.0053                                         |
| 58       | Enbridge CDA (Amended) | Union CDA (Amended)    | -                     | 0.2268                                    | -                                   | 0.0074                                         |
| 59       | Enbridge CDA (Amended) | Union ECDA             | -                     | 0.2009                                    | -                                   | 0.0057                                         |
| 60       | Enbridge CDA (Amended) | Enbridge Parkway CDA   | -                     | 0.1952                                    | -                                   | 0.0053                                         |
| 61       | Enbridge CDA (Amended) | Enbridge CDA (Amended) | -                     | 0.1303                                    | -                                   | 0.0012                                         |
| 62       | Enbridge EDA           | Empress                | -                     | 2.4617                                    | -                                   | 0.1517                                         |
| 63       | Enbridge EDA           | TransGas SSDA          | -                     | 2.1236                                    | -                                   | 0.1299                                         |
| 64       | Enbridge EDA           | Centram SSDA           | -                     | 1.9851                                    | -                                   | 0.1210                                         |
| 65       | Enbridge EDA           | Centram MDA            | -                     | 1.7766                                    | -                                   | 0.1075                                         |
| 66       | Enbridge EDA           | Centrat MDA            | -                     | 1.6813                                    | -                                   | 0.1013                                         |
| 67       | Enbridge EDA           | Union WDA              | -                     | 1.3202                                    | -                                   | 0.0780                                         |
| 68       | Enbridge EDA           | Nipigon WDA            | -                     | 1.1720                                    | -                                   | 0.0684                                         |
| 69       | Enbridge EDA           | Union NDA              | -                     | 0.5861                                    | -                                   | 0.0306                                         |
| 70       | Enbridge EDA           | Calstock NDA           | -                     | 0.9142                                    | -                                   | 0.0518                                         |
| 71       | Enbridge EDA           | Tunis NDA              | -                     | 0.7113                                    | -                                   | 0.0387                                         |
| 72       | Enbridge EDA           | GMIT NDA               | -                     | 0.5606                                    | -                                   | 0.0289                                         |
| 73       | Enbridge EDA           | Union SSMDA            | -                     | 1.1397                                    | -                                   | 0.0664                                         |
| 74       | Enbridge EDA           | Union NCDA             | -                     | 0.5238                                    | -                                   | 0.0266                                         |
| 75       | Enbridge EDA           | Union CDA              | -                     | 0.5121                                    | -                                   | 0.0258                                         |
| 76       | Enbridge EDA           | Enbridge CDA           | -                     | 0.4675                                    | -                                   | 0.0229                                         |

| Line No. | Receipt Point | Delivery Point         | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Enbridge EDA  | Union EDA              | -                     | 0.2679                                    | -                                   | 0.0100                                         |
| 2        | Enbridge EDA  | Enbridge EDA           | -                     | 0.1303                                    | -                                   | 0.0012                                         |
| 3        | Enbridge EDA  | KPUC EDA               | -                     | 0.2746                                    | -                                   | 0.0105                                         |
| 4        | Enbridge EDA  | GMIT EDA               | -                     | 0.3588                                    | -                                   | 0.0159                                         |
| 5        | Enbridge EDA  | Enbridge SWDA          | -                     | 0.6655                                    | -                                   | 0.0357                                         |
| 6        | Enbridge EDA  | Union SWDA             | -                     | 0.6684                                    | -                                   | 0.0359                                         |
| 7        | Enbridge EDA  | Chippawa               | -                     | 0.5940                                    | -                                   | 0.0311                                         |
| 8        | Enbridge EDA  | Cornwall               | -                     | 0.2282                                    | -                                   | 0.0075                                         |
| 9        | Enbridge EDA  | East Hereford          | -                     | 0.5048                                    | -                                   | 0.0253                                         |
| 10       | Enbridge EDA  | Emerson 1              | -                     | 1.7793                                    | -                                   | 0.1077                                         |
| 11       | Enbridge EDA  | Emerson 2              | -                     | 1.7793                                    | -                                   | 0.1077                                         |
| 12       | Enbridge EDA  | Iroquois               | -                     | 0.2071                                    | -                                   | 0.0061                                         |
| 13       | Enbridge EDA  | Kirkwall               | -                     | 0.5185                                    | -                                   | 0.0262                                         |
| 14       | Enbridge EDA  | Napierville            | -                     | 0.3470                                    | -                                   | 0.0151                                         |
| 15       | Enbridge EDA  | Niagara Falls          | -                     | 0.5922                                    | -                                   | 0.0310                                         |
| 16       | Enbridge EDA  | North Bay Junction     | -                     | 0.4506                                    | -                                   | 0.0218                                         |
| 17       | Enbridge EDA  | Philipsburg            | -                     | 0.3606                                    | -                                   | 0.0160                                         |
| 18       | Enbridge EDA  | Spruce                 | -                     | 1.6813                                    | -                                   | 0.1013                                         |
| 19       | Enbridge EDA  | St. Clair              | -                     | 0.6841                                    | -                                   | 0.0369                                         |
| 20       | Enbridge EDA  | Welwyn                 | -                     | 1.9851                                    | -                                   | 0.1210                                         |
| 21       | Enbridge EDA  | Dawn Export            | -                     | 0.6655                                    | -                                   | 0.0357                                         |
| 22       | Enbridge EDA  | Union Parkway Belt     | -                     | 0.4888                                    | -                                   | 0.0243                                         |
| 23       | Enbridge EDA  | Union CDA (Amended)    | -                     | 0.5363                                    | -                                   | 0.0274                                         |
| 24       | Enbridge EDA  | Union ECDA             | -                     | 0.4977                                    | -                                   | 0.0249                                         |
| 25       | Enbridge EDA  | Enbridge Parkway CDA   | -                     | 0.4888                                    | -                                   | 0.0243                                         |
| 26       | Enbridge EDA  | Enbridge CDA (Amended) | -                     | 0.4656                                    | -                                   | 0.0228                                         |
| 27       | GMIT EDA      | Empress                | -                     | 2.6354                                    | -                                   | 0.1630                                         |
| 28       | GMIT EDA      | TransGas SSDA          | -                     | 2.2972                                    | -                                   | 0.1411                                         |
| 29       | GMIT EDA      | Centram SSDA           | -                     | 2.1588                                    | -                                   | 0.1322                                         |
| 30       | GMIT EDA      | Centram MDA            | -                     | 1.9504                                    | -                                   | 0.1187                                         |
| 31       | GMIT EDA      | Centrat MDA            | -                     | 1.8544                                    | -                                   | 0.1125                                         |
| 32       | GMIT EDA      | Union WDA              | -                     | 1.4933                                    | -                                   | 0.0892                                         |
| 33       | GMIT EDA      | Nipigon WDA            | -                     | 1.3451                                    | -                                   | 0.0796                                         |
| 34       | GMIT EDA      | Union NDA              | -                     | 0.7589                                    | -                                   | 0.0418                                         |
| 35       | GMIT EDA      | Calstock NDA           | -                     | 1.0873                                    | -                                   | 0.0630                                         |
| 36       | GMIT EDA      | Tunis NDA              | -                     | 0.8844                                    | -                                   | 0.0499                                         |
| 37       | GMIT EDA      | GMIT NDA               | -                     | 0.7336                                    | -                                   | 0.0401                                         |
| 38       | GMIT EDA      | Union SSMDA            | -                     | 1.2786                                    | -                                   | 0.0753                                         |
| 39       | GMIT EDA      | Union NCDA             | -                     | 0.6888                                    | -                                   | 0.0372                                         |
| 40       | GMIT EDA      | Union CDA              | -                     | 0.6510                                    | -                                   | 0.0348                                         |
| 41       | GMIT EDA      | Enbridge CDA           | -                     | 0.6063                                    | -                                   | 0.0319                                         |
| 42       | GMIT EDA      | Union EDA              | -                     | 0.3772                                    | -                                   | 0.0171                                         |
| 43       | GMIT EDA      | Enbridge EDA           | -                     | 0.3588                                    | -                                   | 0.0159                                         |
| 44       | GMIT EDA      | KPUC EDA               | -                     | 0.3909                                    | -                                   | 0.0180                                         |
| 45       | GMIT EDA      | GMIT EDA               | -                     | 0.1303                                    | -                                   | 0.0012                                         |
| 46       | GMIT EDA      | Enbridge SWDA          | -                     | 0.8045                                    | -                                   | 0.0447                                         |
| 47       | GMIT EDA      | Union SWDA             | -                     | 0.8073                                    | -                                   | 0.0449                                         |
| 48       | GMIT EDA      | Chippawa               | -                     | 0.7329                                    | -                                   | 0.0401                                         |
| 49       | GMIT EDA      | Cornwall               | -                     | 0.2620                                    | -                                   | 0.0097                                         |
| 50       | GMIT EDA      | East Hereford          | -                     | 0.3638                                    | -                                   | 0.0162                                         |
| 51       | GMIT EDA      | Emerson 1              | -                     | 1.9650                                    | -                                   | 0.1197                                         |
| 52       | GMIT EDA      | Emerson 2              | -                     | 1.9650                                    | -                                   | 0.1197                                         |
| 53       | GMIT EDA      | Iroquois               | -                     | 0.3022                                    | -                                   | 0.0123                                         |
| 54       | GMIT EDA      | Kirkwall               | -                     | 0.6574                                    | -                                   | 0.0352                                         |
| 55       | GMIT EDA      | Napierville            | -                     | 0.2708                                    | -                                   | 0.0102                                         |
| 56       | GMIT EDA      | Niagara Falls          | -                     | 0.7311                                    | -                                   | 0.0400                                         |
| 57       | GMIT EDA      | North Bay Junction     | -                     | 0.6237                                    | -                                   | 0.0330                                         |
| 58       | GMIT EDA      | Philipsburg            | -                     | 0.2824                                    | -                                   | 0.0110                                         |
| 59       | GMIT EDA      | Spruce                 | -                     | 1.8544                                    | -                                   | 0.1125                                         |
| 60       | GMIT EDA      | St. Clair              | -                     | 0.8230                                    | -                                   | 0.0459                                         |
| 61       | GMIT EDA      | Welwyn                 | -                     | 2.1588                                    | -                                   | 0.1322                                         |
| 62       | GMIT EDA      | Dawn Export            | -                     | 0.8045                                    | -                                   | 0.0447                                         |
| 63       | GMIT EDA      | Union Parkway Belt     | -                     | 0.6277                                    | -                                   | 0.0333                                         |
| 64       | GMIT EDA      | Union CDA (Amended)    | -                     | 0.6752                                    | -                                   | 0.0364                                         |
| 65       | GMIT EDA      | Union ECDA             | -                     | 0.6366                                    | -                                   | 0.0339                                         |
| 66       | GMIT EDA      | Enbridge Parkway CDA   | -                     | 0.6277                                    | -                                   | 0.0333                                         |
| 67       | GMIT EDA      | Enbridge CDA (Amended) | -                     | 0.6044                                    | -                                   | 0.0318                                         |
| 68       | GMIT NDA      | Empress                | -                     | 1.5034                                    | -                                   | 0.1250                                         |
| 69       | GMIT NDA      | TransGas SSDA          | -                     | 1.2553                                    | -                                   | 0.1032                                         |
| 70       | GMIT NDA      | Centram SSDA           | -                     | 1.1536                                    | -                                   | 0.0943                                         |
| 71       | GMIT NDA      | Centram MDA            | -                     | 1.0008                                    | -                                   | 0.0808                                         |
| 72       | GMIT NDA      | Centrat MDA            | -                     | 0.9302                                    | -                                   | 0.0746                                         |
| 73       | GMIT NDA      | Union WDA              | -                     | 0.6651                                    | -                                   | 0.0513                                         |
| 74       | GMIT NDA      | Nipigon WDA            | -                     | 0.5563                                    | -                                   | 0.0417                                         |
| 75       | GMIT NDA      | Union NDA              | -                     | 0.1905                                    | -                                   | 0.0095                                         |
| 76       | GMIT NDA      | Calstock NDA           | -                     | 0.3671                                    | -                                   | 0.0250                                         |

| Line No. | Receipt Point | Delivery Point         | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | GMIT NDA      | Tunis NDA              | -                     | 0.2182                                    | -                                   | 0.0119                                         |
| 2        | GMIT NDA      | GMIT NDA               | -                     | 0.0956                                    | -                                   | 0.0012                                         |
| 3        | GMIT NDA      | Union SSMDA            | -                     | 0.8598                                    | -                                   | 0.0684                                         |
| 4        | GMIT NDA      | Union NCDA             | -                     | 0.2924                                    | -                                   | 0.0171                                         |
| 5        | GMIT NDA      | Union CDA              | -                     | 0.4218                                    | -                                   | 0.0279                                         |
| 6        | GMIT NDA      | Enbridge CDA           | -                     | 0.3999                                    | -                                   | 0.0260                                         |
| 7        | GMIT NDA      | Union EDA              | -                     | 0.4780                                    | -                                   | 0.0325                                         |
| 8        | GMIT NDA      | Enbridge EDA           | -                     | 0.4349                                    | -                                   | 0.0289                                         |
| 9        | GMIT NDA      | KPUC EDA               | -                     | 0.5156                                    | -                                   | 0.0357                                         |
| 10       | GMIT NDA      | GMIT EDA               | -                     | 0.5691                                    | -                                   | 0.0401                                         |
| 11       | GMIT NDA      | Enbridge SWDA          | -                     | 0.5409                                    | -                                   | 0.0378                                         |
| 12       | GMIT NDA      | Union SWDA             | -                     | 0.5430                                    | -                                   | 0.0380                                         |
| 13       | GMIT NDA      | Chippawa               | -                     | 0.4854                                    | -                                   | 0.0332                                         |
| 14       | GMIT NDA      | Cornwall               | -                     | 0.4669                                    | -                                   | 0.0316                                         |
| 15       | GMIT NDA      | East Hereford          | -                     | 0.6823                                    | -                                   | 0.0495                                         |
| 16       | GMIT NDA      | Emerson 1              | -                     | 1.0113                                    | -                                   | 0.0817                                         |
| 17       | GMIT NDA      | Emerson 2              | -                     | 1.0113                                    | -                                   | 0.0817                                         |
| 18       | GMIT NDA      | Iroquois               | -                     | 0.4469                                    | -                                   | 0.0299                                         |
| 19       | GMIT NDA      | Kirkwall               | -                     | 0.4268                                    | -                                   | 0.0283                                         |
| 20       | GMIT NDA      | Napierville            | -                     | 0.5598                                    | -                                   | 0.0393                                         |
| 21       | GMIT NDA      | Niagara Falls          | -                     | 0.4839                                    | -                                   | 0.0330                                         |
| 22       | GMIT NDA      | North Bay Junction     | -                     | 0.1764                                    | -                                   | 0.0083                                         |
| 23       | GMIT NDA      | Philipsburg            | -                     | 0.5704                                    | -                                   | 0.0402                                         |
| 24       | GMIT NDA      | Spruce                 | -                     | 0.9302                                    | -                                   | 0.0746                                         |
| 25       | GMIT NDA      | St. Clair              | -                     | 0.5254                                    | -                                   | 0.0390                                         |
| 26       | GMIT NDA      | Welwyn                 | -                     | 1.1536                                    | -                                   | 0.0943                                         |
| 27       | GMIT NDA      | Dawn Export            | -                     | 0.5409                                    | -                                   | 0.0378                                         |
| 28       | GMIT NDA      | Union Parkway Belt     | -                     | 0.4037                                    | -                                   | 0.0263                                         |
| 29       | GMIT NDA      | Union CDA (Amended)    | -                     | 0.4406                                    | -                                   | 0.0294                                         |
| 30       | GMIT NDA      | Union ECDA             | -                     | 0.4107                                    | -                                   | 0.0269                                         |
| 31       | GMIT NDA      | Enbridge Parkway CDA   | -                     | 0.4037                                    | -                                   | 0.0263                                         |
| 32       | GMIT NDA      | Enbridge CDA (Amended) | -                     | 0.3995                                    | -                                   | 0.0260                                         |
| 33       | Grand Coulee  | Empress                | 9.41700               | 0.3096                                    | 0.60778                             | 0.0200                                         |
| 34       | Grand Coulee  | TransGas SSDA          | 4.13606               | 0.1360                                    | 0.14307                             | 0.0047                                         |
| 35       | Grand Coulee  | Centram SSDA           | 7.03994               | 0.2315                                    | 0.39860                             | 0.0131                                         |
| 36       | Grand Coulee  | Centram MDA            | 11.73475              | 0.3858                                    | 0.81173                             | 0.0267                                         |
| 37       | Grand Coulee  | Centrat MDA            | 13.83624              | 0.4549                                    | 0.99666                             | 0.0328                                         |
| 38       | Grand Coulee  | Union WDA              | 22.62057              | 0.7437                                    | 1.76970                             | 0.0582                                         |
| 39       | Grand Coulee  | Nipigon WDA            | 25.20751              | 0.8287                                    | 1.99731                             | 0.0657                                         |
| 40       | Grand Coulee  | Union NDA              | 38.29671              | 1.2591                                    | 3.14916                             | 0.1035                                         |
| 41       | Grand Coulee  | Calstock NDA           | 30.96173              | 1.0179                                    | 2.50367                             | 0.0823                                         |
| 42       | Grand Coulee  | Tunis NDA              | 35.49169              | 1.1669                                    | 2.90234                             | 0.0954                                         |
| 43       | Grand Coulee  | GMIT NDA               | 39.22016              | 1.2894                                    | 3.23044                             | 0.1062                                         |
| 44       | Grand Coulee  | Union SSMDA            | 34.13024              | 1.1221                                    | 2.78251                             | 0.0915                                         |
| 45       | Grand Coulee  | Union NCDA             | 46.88942              | 1.5416                                    | 3.68324                             | 0.1211                                         |
| 46       | Grand Coulee  | Union CDA              | 48.51458              | 1.5950                                    | 3.81856                             | 0.1255                                         |
| 47       | Grand Coulee  | Enbridge CDA           | 49.42556              | 1.6250                                    | 3.89440                             | 0.1280                                         |
| 48       | Grand Coulee  | Union EDA              | 52.46723              | 1.7250                                    | 4.14764                             | 0.1364                                         |
| 49       | Grand Coulee  | Enbridge EDA           | 51.20828              | 1.6836                                    | 4.04281                             | 0.1329                                         |
| 50       | Grand Coulee  | KPUC EDA               | 53.67781              | 1.7648                                    | 4.24845                             | 0.1397                                         |
| 51       | Grand Coulee  | GMIT EDA               | 55.30480              | 1.8182                                    | 4.38391                             | 0.1441                                         |
| 52       | Grand Coulee  | Enbridge SWDA          | 44.24773              | 1.4547                                    | 3.46325                             | 0.1139                                         |
| 53       | Grand Coulee  | Union SWDA             | 44.18112              | 1.4525                                    | 3.45774                             | 0.1137                                         |
| 54       | Grand Coulee  | Chippawa               | 49.80851              | 1.6375                                    | 3.92628                             | 0.1291                                         |
| 55       | Grand Coulee  | Cornwall               | 52.19743              | 1.7161                                    | 4.12519                             | 0.1356                                         |
| 56       | Grand Coulee  | East Hereford          | 58.74736              | 1.9314                                    | 4.67055                             | 0.1536                                         |
| 57       | Grand Coulee  | Emerson 1              | 14.20337              | 0.4670                                    | 1.02897                             | 0.0338                                         |
| 58       | Grand Coulee  | Emerson 2              | 14.20337              | 0.4670                                    | 1.02897                             | 0.0338                                         |
| 59       | Grand Coulee  | Iroquois               | 51.58606              | 1.6960                                    | 4.07430                             | 0.1339                                         |
| 60       | Grand Coulee  | Kirkwall               | 47.71645              | 1.5688                                    | 3.75210                             | 0.1234                                         |
| 61       | Grand Coulee  | Napierville            | 55.02253              | 1.8090                                    | 4.36041                             | 0.1434                                         |
| 62       | Grand Coulee  | Niagara Falls          | 49.76471              | 1.6361                                    | 3.92262                             | 0.1290                                         |
| 63       | Grand Coulee  | North Bay Junction     | 41.31374              | 1.3583                                    | 3.41467                             | 0.1123                                         |
| 64       | Grand Coulee  | Philipsburg            | 55.34343              | 1.8195                                    | 4.38714                             | 0.1442                                         |
| 65       | Grand Coulee  | Spruce                 | 13.83624              | 0.4549                                    | 0.99666                             | 0.0328                                         |
| 66       | Grand Coulee  | St. Clair              | 41.45123              | 1.3628                                    | 3.42677                             | 0.1127                                         |
| 67       | Grand Coulee  | Welwyn                 | 7.03994               | 0.2315                                    | 0.39860                             | 0.0131                                         |
| 68       | Grand Coulee  | Dawn Export            | 44.24773              | 1.4547                                    | 3.46325                             | 0.1139                                         |
| 69       | Grand Coulee  | Union Parkway Belt     | 48.41908              | 1.5919                                    | 3.81060                             | 0.1253                                         |
| 70       | Grand Coulee  | Union CDA (Amended)    | 48.32022              | 1.5886                                    | 3.80234                             | 0.1250                                         |
| 71       | Grand Coulee  | Union ECDA             | 48.63078              | 1.5988                                    | 3.82822                             | 0.1259                                         |
| 72       | Grand Coulee  | Enbridge Parkway CDA   | 48.41908              | 1.5919                                    | 3.81060                             | 0.1253                                         |
| 73       | Grand Coulee  | Enbridge CDA (Amended) | 49.51985              | 1.6281                                    | 3.90224                             | 0.1283                                         |
| 74       | Herbert       | Empress                | 6.26158               | 0.2059                                    | 0.33011                             | 0.0109                                         |
| 75       | Herbert       | TransGas SSDA          | 7.18320               | 0.2362                                    | 0.41120                             | 0.0135                                         |
| 76       | Herbert       | Centram SSDA           | 10.19536              | 0.3352                                    | 0.67627                             | 0.0222                                         |

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|----------|---------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Herbert       | Centram MDA            | 14.88957              | 0.4895                                    | 1.08937                             | 0.0358                                         |
| 2        | Herbert       | Centrat MDA            | 16.99166              | 0.5586                                    | 1.27434                             | 0.0419                                         |
| 3        | Herbert       | Union WDA              | 25.77630              | 0.8474                                    | 2.04737                             | 0.0673                                         |
| 4        | Herbert       | Nipigon WDA            | 28.36293              | 0.9325                                    | 2.27499                             | 0.0748                                         |
| 5        | Herbert       | Union NDA              | 41.45214              | 1.3628                                    | 3.42683                             | 0.1127                                         |
| 6        | Herbert       | Calstock NDA           | 34.11685              | 1.1217                                    | 2.78135                             | 0.0914                                         |
| 7        | Herbert       | Tunis NDA              | 38.64711              | 1.2706                                    | 3.18001                             | 0.1045                                         |
| 8        | Herbert       | GMIT NDA               | 42.37559              | 1.3932                                    | 3.50811                             | 0.1153                                         |
| 9        | Herbert       | Union SSMDA            | 37.28566              | 1.2258                                    | 3.06020                             | 0.1006                                         |
| 10       | Herbert       | Union NCDA             | 50.22461              | 1.6512                                    | 3.96091                             | 0.1302                                         |
| 11       | Herbert       | Union CDA              | 51.84977              | 1.7047                                    | 4.09624                             | 0.1347                                         |
| 12       | Herbert       | Enbridge CDA           | 52.76045              | 1.7346                                    | 4.17209                             | 0.1372                                         |
| 13       | Herbert       | Union EDA              | 55.80181              | 1.8346                                    | 4.42531                             | 0.1455                                         |
| 14       | Herbert       | Enbridge EDA           | 54.54347              | 1.7932                                    | 4.32050                             | 0.1420                                         |
| 15       | Herbert       | KPUC EDA               | 57.01300              | 1.8744                                    | 4.52612                             | 0.1488                                         |
| 16       | Herbert       | GMIT EDA               | 58.64029              | 1.9279                                    | 4.66163                             | 0.1533                                         |
| 17       | Herbert       | Enbridge SWDA          | 47.58231              | 1.5644                                    | 3.74092                             | 0.1230                                         |
| 18       | Herbert       | Union SWDA             | 47.51600              | 1.5622                                    | 3.73543                             | 0.1228                                         |
| 19       | Herbert       | Chippawa               | 53.14339              | 1.7472                                    | 4.20396                             | 0.1382                                         |
| 20       | Herbert       | Cornwall               | 55.53262              | 1.8257                                    | 4.40288                             | 0.1448                                         |
| 21       | Herbert       | East Hereford          | 62.08224              | 2.0411                                    | 4.94822                             | 0.1627                                         |
| 22       | Herbert       | Emerson 1              | 17.35879              | 0.5707                                    | 1.30665                             | 0.0430                                         |
| 23       | Herbert       | Emerson 2              | 17.35879              | 0.5707                                    | 1.30665                             | 0.0430                                         |
| 24       | Herbert       | Iroquois               | 54.92125              | 1.8056                                    | 4.35198                             | 0.1431                                         |
| 25       | Herbert       | Kirkwall               | 51.05164              | 1.6784                                    | 4.02977                             | 0.1325                                         |
| 26       | Herbert       | Napierville            | 58.35772              | 1.9186                                    | 4.63810                             | 0.1525                                         |
| 27       | Herbert       | Niagara Falls          | 53.09959              | 1.7457                                    | 4.20030                             | 0.1381                                         |
| 28       | Herbert       | North Bay Junction     | 44.46947              | 1.4620                                    | 3.69235                             | 0.1214                                         |
| 29       | Herbert       | Philipsburg            | 58.67831              | 1.9292                                    | 4.66483                             | 0.1534                                         |
| 30       | Herbert       | Spruce                 | 16.99166              | 0.5586                                    | 1.27434                             | 0.0419                                         |
| 31       | Herbert       | St. Clair              | 44.60665              | 1.4665                                    | 3.70444                             | 0.1218                                         |
| 32       | Herbert       | Welwyn                 | 10.19536              | 0.3352                                    | 0.67627                             | 0.0222                                         |
| 33       | Herbert       | Dawn Export            | 47.58231              | 1.5644                                    | 3.74092                             | 0.1230                                         |
| 34       | Herbert       | Union Parkway Belt     | 51.75426              | 1.7015                                    | 4.08827                             | 0.1344                                         |
| 35       | Herbert       | Union CDA (Amended)    | 51.65480              | 1.6982                                    | 4.08002                             | 0.1341                                         |
| 36       | Herbert       | Union ECDA             | 51.96566              | 1.7085                                    | 4.10589                             | 0.1350                                         |
| 37       | Herbert       | Enbridge Parkway CDA   | 51.75426              | 1.7015                                    | 4.08827                             | 0.1344                                         |
| 38       | Herbert       | Enbridge CDA (Amended) | 52.85474              | 1.7377                                    | 4.17993                             | 0.1374                                         |
| 39       | Iroquois      | Empress                | 75.36490              | 2.4778                                    | 4.64704                             | 0.1528                                         |
| 40       | Iroquois      | TransGas SSDA          | 65.08285              | 2.1397                                    | 3.98288                             | 0.1309                                         |
| 41       | Iroquois      | Centram SSDA           | 60.86953              | 2.0012                                    | 3.71075                             | 0.1220                                         |
| 42       | Iroquois      | Centram MDA            | 54.53495              | 1.7929                                    | 3.30158                             | 0.1085                                         |
| 43       | Iroquois      | Centrat MDA            | 51.61070              | 1.6968                                    | 3.11269                             | 0.1023                                         |
| 44       | Iroquois      | Union WDA              | 40.62754              | 1.3357                                    | 2.40329                             | 0.0790                                         |
| 45       | Iroquois      | Nipigon WDA            | 36.11858              | 1.1875                                    | 2.11204                             | 0.0694                                         |
| 46       | Iroquois      | Union NDA              | 18.30323              | 0.6018                                    | 0.96134                             | 0.0316                                         |
| 47       | Iroquois      | Calstock NDA           | 28.27898              | 0.9297                                    | 1.60569                             | 0.0528                                         |
| 48       | Iroquois      | Tunis NDA              | 22.10683              | 0.7268                                    | 1.20701                             | 0.0397                                         |
| 49       | Iroquois      | GMIT NDA               | 17.52091              | 0.5760                                    | 0.91078                             | 0.0299                                         |
| 50       | Iroquois      | Union SSMDA            | 33.88173              | 1.1139                                    | 1.96758                             | 0.0647                                         |
| 51       | Iroquois      | Union NCDA             | 15.99886              | 0.5260                                    | 0.81247                             | 0.0267                                         |
| 52       | Iroquois      | Union CDA              | 14.79163              | 0.4863                                    | 0.73452                             | 0.0241                                         |
| 53       | Iroquois      | Enbridge CDA           | 13.44021              | 0.4419                                    | 0.64721                             | 0.0213                                         |
| 54       | Iroquois      | Union EDA              | 6.62658               | 0.2179                                    | 0.20711                             | 0.0068                                         |
| 55       | Iroquois      | Enbridge EDA           | 6.30020               | 0.2071                                    | 0.18603                             | 0.0061                                         |
| 56       | Iroquois      | KPUC EDA               | 6.87812               | 0.2261                                    | 0.22335                             | 0.0073                                         |
| 57       | Iroquois      | GMIT EDA               | 9.19192               | 0.3022                                    | 0.37282                             | 0.0123                                         |
| 58       | Iroquois      | Enbridge SWDA          | 19.45876              | 0.6397                                    | 1.03597                             | 0.0341                                         |
| 59       | Iroquois      | Union SWDA             | 19.54423              | 0.6426                                    | 1.04148                             | 0.0342                                         |
| 60       | Iroquois      | Chippawa               | 17.28366              | 0.5682                                    | 0.89546                             | 0.0294                                         |
| 61       | Iroquois      | Cornwall               | 5.18574               | 0.1705                                    | 0.11406                             | 0.0037                                         |
| 62       | Iroquois      | East Hereford          | 13.62880              | 0.4481                                    | 0.65940                             | 0.0217                                         |
| 63       | Iroquois      | Emerson 1              | 54.97387              | 1.8074                                    | 3.32995                             | 0.1095                                         |
| 64       | Iroquois      | Emerson 2              | 54.97387              | 1.8074                                    | 3.32995                             | 0.1095                                         |
| 65       | Iroquois      | Iroquois               | 3.96268               | 0.1303                                    | 0.03504                             | 0.0012                                         |
| 66       | Iroquois      | Kirkwall               | 14.98690              | 0.4927                                    | 0.74712                             | 0.0246                                         |
| 67       | Iroquois      | Napierville            | 8.82722               | 0.2902                                    | 0.34927                             | 0.0115                                         |
| 68       | Iroquois      | Niagara Falls          | 17.22648              | 0.5664                                    | 0.89180                             | 0.0293                                         |
| 69       | Iroquois      | North Bay Junction     | 14.17478              | 0.4660                                    | 0.69467                             | 0.0228                                         |
| 70       | Iroquois      | Philipsburg            | 9.24119               | 0.3038                                    | 0.37600                             | 0.0124                                         |
| 71       | Iroquois      | Spruce                 | 51.61070              | 1.6968                                    | 3.11269                             | 0.1023                                         |
| 72       | Iroquois      | St. Clair              | 20.02329              | 0.6583                                    | 1.07245                             | 0.0353                                         |
| 73       | Iroquois      | Welwyn                 | 60.86953              | 2.0012                                    | 3.71075                             | 0.1220                                         |
| 74       | Iroquois      | Dawn Export            | 19.45876              | 0.6397                                    | 1.03597                             | 0.0341                                         |
| 75       | Iroquois      | Union Parkway Belt     | 14.08109              | 0.4629                                    | 0.68863                             | 0.0226                                         |
| 76       | Iroquois      | Union CDA (Amended)    | 15.52771              | 0.5105                                    | 0.78205                             | 0.0257                                         |

| Line No. | Receipt Point | Delivery Point         | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Iroquois      | Union ECDA             | 14.35423              | 0.4719                                    | 0.70626                             | 0.0232                                         |
| 2        | Iroquois      | Enbridge Parkway CDA   | 14.08109              | 0.4629                                    | 0.68863                             | 0.0226                                         |
| 3        | Iroquois      | Enbridge CDA (Amended) | 13.37999              | 0.4399                                    | 0.64333                             | 0.0212                                         |
| 4        | Kirkwall      | Empress                | 70.37656              | 2.3138                                    | 4.32483                             | 0.1422                                         |
| 5        | Kirkwall      | TransGas SSDA          | 60.09360              | 1.9757                                    | 3.66064                             | 0.1203                                         |
| 6        | Kirkwall      | Centram SSDA           | 55.88120              | 1.8372                                    | 3.38854                             | 0.1114                                         |
| 7        | Kirkwall      | Centram MDA            | 49.50830              | 1.6277                                    | 2.97691                             | 0.0979                                         |
| 8        | Kirkwall      | Centrat MDA            | 49.48548              | 1.6269                                    | 2.97543                             | 0.0978                                         |
| 9        | Kirkwall      | Union WDA              | 39.84097              | 1.3098                                    | 2.35248                             | 0.0773                                         |
| 10       | Kirkwall      | Nipigon WDA            | 35.33200              | 1.1616                                    | 2.06126                             | 0.0678                                         |
| 11       | Kirkwall      | Union NDA              | 17.49993              | 0.5753                                    | 0.90945                             | 0.0299                                         |
| 12       | Kirkwall      | Calstock NDA           | 27.49241              | 0.9039                                    | 1.55489                             | 0.0511                                         |
| 13       | Kirkwall      | Tunis NDA              | 21.32087              | 0.7010                                    | 1.15623                             | 0.0380                                         |
| 14       | Kirkwall      | GMIT NDA               | 16.73373              | 0.5502                                    | 0.85997                             | 0.0283                                         |
| 15       | Kirkwall      | Union SSMDA            | 22.85782              | 0.7515                                    | 1.25551                             | 0.0413                                         |
| 16       | Kirkwall      | Union NCDA             | 9.23085               | 0.3035                                    | 0.37535                             | 0.0123                                         |
| 17       | Kirkwall      | Union CDA              | 4.99168               | 0.1641                                    | 0.10152                             | 0.0033                                         |
| 18       | Kirkwall      | Enbridge CDA           | 6.44529               | 0.2119                                    | 0.19541                             | 0.0064                                         |
| 19       | Kirkwall      | Union EDA              | 12.51403              | 0.4114                                    | 0.58740                             | 0.0193                                         |
| 20       | Kirkwall      | Enbridge EDA           | 15.77195              | 0.5185                                    | 0.79785                             | 0.0262                                         |
| 21       | Kirkwall      | KPUC EDA               | 12.07146              | 0.3969                                    | 0.55882                             | 0.0184                                         |
| 22       | Kirkwall      | GMIT EDA               | 19.99622              | 0.6574                                    | 1.07068                             | 0.0352                                         |
| 23       | Kirkwall      | Enbridge SWDA          | 8.43454               | 0.2773                                    | 0.32389                             | 0.0106                                         |
| 24       | Kirkwall      | Union SWDA             | 8.52001               | 0.2801                                    | 0.32940                             | 0.0108                                         |
| 25       | Kirkwall      | Chippawa               | 6.65943               | 0.2189                                    | 0.20922                             | 0.0069                                         |
| 26       | Kirkwall      | Cornwall               | 15.99095              | 0.5257                                    | 0.81198                             | 0.0267                                         |
| 27       | Kirkwall      | East Hereford          | 24.43371              | 0.8033                                    | 1.35732                             | 0.0446                                         |
| 28       | Kirkwall      | Emerson 1              | 46.12170              | 1.5163                                    | 2.75817                             | 0.0907                                         |
| 29       | Kirkwall      | Emerson 2              | 46.12170              | 1.5163                                    | 2.75817                             | 0.0907                                         |
| 30       | Kirkwall      | Iroquois               | 14.98690              | 0.4927                                    | 0.74712                             | 0.0246                                         |
| 31       | Kirkwall      | Kirkwall               | 3.96268               | 0.1303                                    | 0.03504                             | 0.0012                                         |
| 32       | Kirkwall      | Napierville            | 19.63274              | 0.6455                                    | 1.04719                             | 0.0344                                         |
| 33       | Kirkwall      | Niagara Falls          | 6.60224               | 0.2171                                    | 0.20556                             | 0.0068                                         |
| 34       | Kirkwall      | North Bay Junction     | 13.38881              | 0.4402                                    | 0.64389                             | 0.0212                                         |
| 35       | Kirkwall      | Philipsburg            | 20.04671              | 0.6591                                    | 1.07392                             | 0.0353                                         |
| 36       | Kirkwall      | Spruce                 | 49.48548              | 1.6269                                    | 2.97543                             | 0.0978                                         |
| 37       | Kirkwall      | St. Clair              | 8.99908               | 0.2959                                    | 0.36037                             | 0.0118                                         |
| 38       | Kirkwall      | Welwyn                 | 55.88120              | 1.8372                                    | 3.38854                             | 0.1114                                         |
| 39       | Kirkwall      | Dawn Export            | 8.43454               | 0.2773                                    | 0.32389                             | 0.0106                                         |
| 40       | Kirkwall      | Union Parkway Belt     | 4.86819               | 0.1601                                    | 0.09354                             | 0.0031                                         |
| 41       | Kirkwall      | Union CDA (Amended)    | 4.74044               | 0.1559                                    | 0.08527                             | 0.0028                                         |
| 42       | Kirkwall      | Union ECDA             | 5.14133               | 0.1690                                    | 0.11118                             | 0.0037                                         |
| 43       | Kirkwall      | Enbridge Parkway CDA   | 4.86819               | 0.1601                                    | 0.09354                             | 0.0031                                         |
| 44       | Kirkwall      | Enbridge CDA (Amended) | 6.59403               | 0.2168                                    | 0.20501                             | 0.0067                                         |
| 45       | KPUC EDA      | Empress                | -                     | 2.5664                                    | -                                   | 0.1585                                         |
| 46       | KPUC EDA      | TransGas SSDA          | -                     | 2.2283                                    | -                                   | 0.1367                                         |
| 47       | KPUC EDA      | Centram SSDA           | -                     | 2.0898                                    | -                                   | 0.1277                                         |
| 48       | KPUC EDA      | Centram MDA            | -                     | 1.8799                                    | -                                   | 0.1142                                         |
| 49       | KPUC EDA      | Centrat MDA            | -                     | 1.7854                                    | -                                   | 0.1081                                         |
| 50       | KPUC EDA      | Union WDA              | -                     | 1.4243                                    | -                                   | 0.0847                                         |
| 51       | KPUC EDA      | Nipigon WDA            | -                     | 1.2761                                    | -                                   | 0.0752                                         |
| 52       | KPUC EDA      | Union NDA              | -                     | 0.6904                                    | -                                   | 0.0373                                         |
| 53       | KPUC EDA      | Calstock NDA           | -                     | 1.0184                                    | -                                   | 0.0585                                         |
| 54       | KPUC EDA      | Tunis NDA              | -                     | 0.8154                                    | -                                   | 0.0454                                         |
| 55       | KPUC EDA      | GMIT NDA               | -                     | 0.6646                                    | -                                   | 0.0357                                         |
| 56       | KPUC EDA      | Union SSMDA            | -                     | 1.0181                                    | -                                   | 0.0585                                         |
| 57       | KPUC EDA      | Union NCDA             | -                     | 0.4380                                    | -                                   | 0.0210                                         |
| 58       | KPUC EDA      | Union CDA              | -                     | 0.3905                                    | -                                   | 0.0180                                         |
| 59       | KPUC EDA      | Enbridge CDA           | -                     | 0.3460                                    | -                                   | 0.0151                                         |
| 60       | KPUC EDA      | Union EDA              | -                     | 0.1933                                    | -                                   | 0.0052                                         |
| 61       | KPUC EDA      | Enbridge EDA           | -                     | 0.2746                                    | -                                   | 0.0105                                         |
| 62       | KPUC EDA      | KPUC EDA               | -                     | 0.1303                                    | -                                   | 0.0012                                         |
| 63       | KPUC EDA      | GMIT EDA               | -                     | 0.3909                                    | -                                   | 0.0180                                         |
| 64       | KPUC EDA      | Enbridge SWDA          | -                     | 0.5439                                    | -                                   | 0.0279                                         |
| 65       | KPUC EDA      | Union SWDA             | -                     | 0.5467                                    | -                                   | 0.0280                                         |
| 66       | KPUC EDA      | Chippawa               | -                     | 0.4724                                    | -                                   | 0.0232                                         |
| 67       | KPUC EDA      | Cornwall               | -                     | 0.2591                                    | -                                   | 0.0095                                         |
| 68       | KPUC EDA      | East Hereford          | -                     | 0.5367                                    | -                                   | 0.0274                                         |
| 69       | KPUC EDA      | Emerson 1              | -                     | 1.7829                                    | -                                   | 0.1079                                         |
| 70       | KPUC EDA      | Emerson 2              | -                     | 1.7829                                    | -                                   | 0.1079                                         |
| 71       | KPUC EDA      | Iroquois               | -                     | 0.2261                                    | -                                   | 0.0073                                         |
| 72       | KPUC EDA      | Kirkwall               | -                     | 0.3969                                    | -                                   | 0.0184                                         |
| 73       | KPUC EDA      | Napierville            | -                     | 0.3789                                    | -                                   | 0.0172                                         |
| 74       | KPUC EDA      | Niagara Falls          | -                     | 0.4705                                    | -                                   | 0.0231                                         |
| 75       | KPUC EDA      | North Bay Junction     | -                     | 0.5547                                    | -                                   | 0.0286                                         |
| 76       | KPUC EDA      | Philipsburg            | -                     | 0.3925                                    | -                                   | 0.0181                                         |

| Line No. | Receipt Point | Delivery Point         | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | KPUC EDA      | Spruce                 | -                     | 1.7854                                    | -                                   | 0.1081                                         |
| 2        | KPUC EDA      | St. Clair              | -                     | 0.5625                                    | -                                   | 0.0291                                         |
| 3        | KPUC EDA      | Welwyn                 | -                     | 2.0898                                    | -                                   | 0.1277                                         |
| 4        | KPUC EDA      | Dawn Export            | -                     | 0.5439                                    | -                                   | 0.0279                                         |
| 5        | KPUC EDA      | Union Parkway Belt     | -                     | 0.3671                                    | -                                   | 0.0164                                         |
| 6        | KPUC EDA      | Union CDA (Amended)    | -                     | 0.4147                                    | -                                   | 0.0195                                         |
| 7        | KPUC EDA      | Union ECDA             | -                     | 0.3761                                    | -                                   | 0.0170                                         |
| 8        | KPUC EDA      | Enbridge Parkway CDA   | -                     | 0.3671                                    | -                                   | 0.0164                                         |
| 9        | KPUC EDA      | Enbridge CDA (Amended) | -                     | 0.3441                                    | -                                   | 0.0150                                         |
| 10       | Lachenaie     | Empress                | 79.45138              | 2.6121                                    | 4.91091                             | 0.1615                                         |
| 11       | Lachenaie     | TransGas SSDA          | 69.16598              | 2.2740                                    | 4.24674                             | 0.1396                                         |
| 12       | Lachenaie     | Centram SSDA           | 64.95723              | 2.1356                                    | 3.97462                             | 0.1307                                         |
| 13       | Lachenaie     | Centram MDA            | 58.62083              | 1.9273                                    | 3.56544                             | 0.1172                                         |
| 14       | Lachenaie     | Centrat MDA            | 55.69626              | 1.8311                                    | 3.37657                             | 0.1110                                         |
| 15       | Lachenaie     | Union WDA              | 44.71068              | 1.4699                                    | 2.66715                             | 0.0877                                         |
| 16       | Lachenaie     | Nipigon WDA            | 40.20536              | 1.3218                                    | 2.37592                             | 0.0781                                         |
| 17       | Lachenaie     | Union NDA              | 22.38788              | 0.7360                                    | 1.22520                             | 0.0403                                         |
| 18       | Lachenaie     | Calstock NDA           | 32.36273              | 1.0640                                    | 1.86955                             | 0.0615                                         |
| 19       | Lachenaie     | Tunis NDA              | 26.19331              | 0.8612                                    | 1.47089                             | 0.0484                                         |
| 20       | Lachenaie     | GMIT NDA               | 21.60435              | 0.7103                                    | 1.17465                             | 0.0386                                         |
| 21       | Lachenaie     | Union SSMDA            | 38.18448              | 1.2554                                    | 2.24541                             | 0.0738                                         |
| 22       | Lachenaie     | Union NCDA             | 20.24625              | 0.6656                                    | 1.08682                             | 0.0357                                         |
| 23       | Lachenaie     | Union CDA              | 19.09224              | 0.6277                                    | 1.01236                             | 0.0333                                         |
| 24       | Lachenaie     | Enbridge CDA           | 17.74326              | 0.5833                                    | 0.92504                             | 0.0304                                         |
| 25       | Lachenaie     | Union EDA              | 10.77663              | 0.3543                                    | 0.47521                             | 0.0156                                         |
| 26       | Lachenaie     | Enbridge EDA           | 10.21118              | 0.3357                                    | 0.43853                             | 0.0144                                         |
| 27       | Lachenaie     | KPUC EDA               | 11.17995              | 0.3676                                    | 0.50119                             | 0.0165                                         |
| 28       | Lachenaie     | GMIT EDA               | 6.42887               | 0.2114                                    | 0.19448                             | 0.0064                                         |
| 29       | Lachenaie     | Enbridge SWDA          | 23.75998              | 0.7812                                    | 1.31381                             | 0.0432                                         |
| 30       | Lachenaie     | Union SWDA             | 23.84788              | 0.7840                                    | 1.31931                             | 0.0434                                         |
| 31       | Lachenaie     | Chippawa               | 21.58610              | 0.7097                                    | 1.17330                             | 0.0386                                         |
| 32       | Lachenaie     | Cornwall               | 7.25863               | 0.2386                                    | 0.24803                             | 0.0082                                         |
| 33       | Lachenaie     | East Hereford          | 9.10797               | 0.2994                                    | 0.36740                             | 0.0121                                         |
| 34       | Lachenaie     | Emerson 1              | 59.06126              | 1.9417                                    | 3.59383                             | 0.1182                                         |
| 35       | Lachenaie     | Emerson 2              | 59.06126              | 1.9417                                    | 3.59383                             | 0.1182                                         |
| 36       | Lachenaie     | Iroquois               | 8.48230               | 0.2789                                    | 0.32704                             | 0.0108                                         |
| 37       | Lachenaie     | Kirkwall               | 19.28690              | 0.6341                                    | 1.02496                             | 0.0337                                         |
| 38       | Lachenaie     | Napierville            | 8.03730               | 0.2642                                    | 0.29823                             | 0.0098                                         |
| 39       | Lachenaie     | Niagara Falls          | 21.53044              | 0.7079                                    | 1.16964                             | 0.0385                                         |
| 40       | Lachenaie     | North Bay Junction     | 18.26247              | 0.6004                                    | 0.95855                             | 0.0315                                         |
| 41       | Lachenaie     | Philipsburg            | 8.44975               | 0.2778                                    | 0.32496                             | 0.0107                                         |
| 42       | Lachenaie     | Spruce                 | 55.69626              | 1.8311                                    | 3.37657                             | 0.1110                                         |
| 43       | Lachenaie     | St. Clair              | 24.32543              | 0.7997                                    | 1.35028                             | 0.0444                                         |
| 44       | Lachenaie     | Welwyn                 | 64.95723              | 2.1356                                    | 3.97462                             | 0.1307                                         |
| 45       | Lachenaie     | Dawn Export            | 23.75998              | 0.7812                                    | 1.31381                             | 0.0432                                         |
| 46       | Lachenaie     | Union Parkway Belt     | 18.38292              | 0.6044                                    | 0.96647                             | 0.0318                                         |
| 47       | Lachenaie     | Union CDA (Amended)    | 19.82923              | 0.6519                                    | 1.05989                             | 0.0348                                         |
| 48       | Lachenaie     | Union ECDA             | 18.65667              | 0.6134                                    | 0.98410                             | 0.0324                                         |
| 49       | Lachenaie     | Enbridge Parkway CDA   | 18.38292              | 0.6044                                    | 0.96647                             | 0.0318                                         |
| 50       | Lachenaie     | Enbridge CDA (Amended) | 17.67847              | 0.5812                                    | 0.92100                             | 0.0303                                         |
| 51       | Liebenthal    | Empress                | 3.66703               | 0.1206                                    | 0.10179                             | 0.0033                                         |
| 52       | Liebenthal    | TransGas SSDA          | 9.70353               | 0.3190                                    | 0.63299                             | 0.0208                                         |
| 53       | Liebenthal    | Centram SSDA           | 12.78960              | 0.4205                                    | 0.90458                             | 0.0297                                         |
| 54       | Liebenthal    | Centram MDA            | 17.48411              | 0.5748                                    | 1.31768                             | 0.0433                                         |
| 55       | Liebenthal    | Centrat MDA            | 19.58620              | 0.6439                                    | 1.50265                             | 0.0494                                         |
| 56       | Liebenthal    | Union WDA              | 28.37054              | 0.9327                                    | 2.27567                             | 0.0748                                         |
| 57       | Liebenthal    | Nipigon WDA            | 30.95717              | 1.0178                                    | 2.50329                             | 0.0823                                         |
| 58       | Liebenthal    | Union NDA              | 44.04668              | 1.4481                                    | 3.65516                             | 0.1202                                         |
| 59       | Liebenthal    | Calstock NDA           | 36.71140              | 1.2070                                    | 3.00966                             | 0.0989                                         |
| 60       | Liebenthal    | Tunis NDA              | 41.24165              | 1.3559                                    | 3.40832                             | 0.1121                                         |
| 61       | Liebenthal    | GMIT NDA               | 44.97013              | 1.4785                                    | 3.73642                             | 0.1228                                         |
| 62       | Liebenthal    | Union SSMDA            | 39.88020              | 1.3111                                    | 3.28851                             | 0.1081                                         |
| 63       | Liebenthal    | Union NCDA             | 52.96698              | 1.7414                                    | 4.18925                             | 0.1377                                         |
| 64       | Liebenthal    | Union CDA              | 54.59183              | 1.7948                                    | 4.32456                             | 0.1422                                         |
| 65       | Liebenthal    | Enbridge CDA           | 55.50312              | 1.8248                                    | 4.40042                             | 0.1447                                         |
| 66       | Liebenthal    | Union EDA              | 58.54387              | 1.9247                                    | 4.65361                             | 0.1530                                         |
| 67       | Liebenthal    | Enbridge EDA           | 57.28432              | 1.8833                                    | 4.54874                             | 0.1495                                         |
| 68       | Liebenthal    | KPUC EDA               | 59.75476              | 1.9645                                    | 4.75444                             | 0.1563                                         |
| 69       | Liebenthal    | GMIT EDA               | 61.38175              | 2.0180                                    | 4.88991                             | 0.1608                                         |
| 70       | Liebenthal    | Enbridge SWDA          | 50.32438              | 1.6545                                    | 3.96923                             | 0.1305                                         |
| 71       | Liebenthal    | Union SWDA             | 50.25837              | 1.6523                                    | 3.96374                             | 0.1303                                         |
| 72       | Liebenthal    | Chippawa               | 55.88515              | 1.8373                                    | 4.43226                             | 0.1457                                         |
| 73       | Liebenthal    | Cornwall               | 58.27438              | 1.9159                                    | 4.63118                             | 0.1523                                         |
| 74       | Liebenthal    | East Hereford          | 64.82430              | 2.1312                                    | 5.17654                             | 0.1702                                         |
| 75       | Liebenthal    | Emerson 1              | 19.95333              | 0.6560                                    | 1.53496                             | 0.0505                                         |
| 76       | Liebenthal    | Emerson 2              | 19.95333              | 0.6560                                    | 1.53496                             | 0.0505                                         |

| Line No. | Receipt Point | Delivery Point         | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Liebenthal    | Iroquois               | 57.66331              | 1.8958                                    | 4.58029                             | 0.1506                                         |
| 2        | Liebenthal    | Kirkwall               | 53.79370              | 1.7686                                    | 4.25808                             | 0.1400                                         |
| 3        | Liebenthal    | Napierville            | 61.09948              | 2.0088                                    | 4.86639                             | 0.1600                                         |
| 4        | Liebenthal    | Niagara Falls          | 55.84135              | 1.8359                                    | 4.42860                             | 0.1456                                         |
| 5        | Liebenthal    | North Bay Junction     | 47.06371              | 1.5473                                    | 3.92066                             | 0.1289                                         |
| 6        | Liebenthal    | Philipsburg            | 61.42068              | 2.0193                                    | 4.89313                             | 0.1609                                         |
| 7        | Liebenthal    | Spruce                 | 19.58620              | 0.6439                                    | 1.50265                             | 0.0494                                         |
| 8        | Liebenthal    | St. Clair              | 47.20119              | 1.5518                                    | 3.93275                             | 0.1293                                         |
| 9        | Liebenthal    | Welwyn                 | 12.78960              | 0.4205                                    | 0.90458                             | 0.0297                                         |
| 10       | Liebenthal    | Dawn Export            | 50.32438              | 1.6545                                    | 3.96923                             | 0.1305                                         |
| 11       | Liebenthal    | Union Parkway Belt     | 54.49633              | 1.7917                                    | 4.31658                             | 0.1419                                         |
| 12       | Liebenthal    | Union CDA (Amended)    | 54.39656              | 1.7884                                    | 4.30831                             | 0.1416                                         |
| 13       | Liebenthal    | Union ECDA             | 54.70772              | 1.7986                                    | 4.33420                             | 0.1425                                         |
| 14       | Liebenthal    | Enbridge Parkway CDA   | 54.49633              | 1.7917                                    | 4.31658                             | 0.1419                                         |
| 15       | Liebenthal    | Enbridge CDA (Amended) | 55.59650              | 1.8278                                    | 4.40821                             | 0.1449                                         |
| 16       | Napierville   | Empress                | 79.79478              | 2.6234                                    | 4.93314                             | 0.1622                                         |
| 17       | Napierville   | TransGas SSDA          | 69.51182              | 2.2853                                    | 4.26895                             | 0.1403                                         |
| 18       | Napierville   | Centram SSDA           | 65.29880              | 2.1468                                    | 3.99685                             | 0.1314                                         |
| 19       | Napierville   | Centram MDA            | 58.96423              | 1.9386                                    | 3.58770                             | 0.1180                                         |
| 20       | Napierville   | Centrat MDA            | 56.03997              | 1.8424                                    | 3.39880                             | 0.1117                                         |
| 21       | Napierville   | Union WDA              | 45.05712              | 1.4813                                    | 2.68940                             | 0.0884                                         |
| 22       | Napierville   | Nipigon WDA            | 40.54785              | 1.3331                                    | 2.39815                             | 0.0788                                         |
| 23       | Napierville   | Union NDA              | 22.73281              | 0.7474                                    | 1.24744                             | 0.0410                                         |
| 24       | Napierville   | Calstock NDA           | 32.70856              | 1.0754                                    | 1.89179                             | 0.0622                                         |
| 25       | Napierville   | Tunis NDA              | 26.53641              | 0.8724                                    | 1.49312                             | 0.0491                                         |
| 26       | Napierville   | GMIT NDA               | 21.95019              | 0.7217                                    | 1.19689                             | 0.0393                                         |
| 27       | Napierville   | Union SSMDA            | 38.52758              | 1.2667                                    | 2.26765                             | 0.0746                                         |
| 28       | Napierville   | Union NCDA             | 20.58995              | 0.6769                                    | 1.10903                             | 0.0365                                         |
| 29       | Napierville   | Union CDA              | 19.43716              | 0.6390                                    | 1.03458                             | 0.0340                                         |
| 30       | Napierville   | Enbridge CDA           | 18.08545              | 0.5946                                    | 0.94727                             | 0.0311                                         |
| 31       | Napierville   | Union EDA              | 11.12064              | 0.3656                                    | 0.49739                             | 0.0164                                         |
| 32       | Napierville   | Enbridge EDA           | 10.55367              | 0.3470                                    | 0.46079                             | 0.0151                                         |
| 33       | Napierville   | KPUC EDA               | 11.52335              | 0.3789                                    | 0.52342                             | 0.0172                                         |
| 34       | Napierville   | GMIT EDA               | 8.23714               | 0.2708                                    | 0.31114                             | 0.0102                                         |
| 35       | Napierville   | Enbridge SWDA          | 24.10430              | 0.7925                                    | 1.33604                             | 0.0439                                         |
| 36       | Napierville   | Union SWDA             | 24.19007              | 0.7953                                    | 1.34155                             | 0.0441                                         |
| 37       | Napierville   | Chippawa               | 21.92890              | 0.7210                                    | 1.19553                             | 0.0393                                         |
| 38       | Napierville   | Cornwall               | 7.60386               | 0.2500                                    | 0.27026                             | 0.0089                                         |
| 39       | Napierville   | East Hereford          | 13.18289              | 0.4334                                    | 0.63059                             | 0.0207                                         |
| 40       | Napierville   | Emerson 1              | 59.40345              | 1.9530                                    | 3.61606                             | 0.1189                                         |
| 41       | Napierville   | Emerson 2              | 59.40345              | 1.9530                                    | 3.61606                             | 0.1189                                         |
| 42       | Napierville   | Iroquois               | 8.82722               | 0.2902                                    | 0.34927                             | 0.0115                                         |
| 43       | Napierville   | Kirkwall               | 19.63274              | 0.6455                                    | 1.04719                             | 0.0344                                         |
| 44       | Napierville   | Napierville            | 3.96268               | 0.1303                                    | 0.03504                             | 0.0012                                         |
| 45       | Napierville   | Niagara Falls          | 21.87232              | 0.7191                                    | 1.19187                             | 0.0392                                         |
| 46       | Napierville   | North Bay Junction     | 18.60405              | 0.6116                                    | 0.98078                             | 0.0322                                         |
| 47       | Napierville   | Philipsburg            | 6.14021               | 0.2019                                    | 0.17571                             | 0.0058                                         |
| 48       | Napierville   | Spruce                 | 56.03997              | 1.8424                                    | 3.39880                             | 0.1117                                         |
| 49       | Napierville   | St. Clair              | 24.66913              | 0.8110                                    | 1.37252                             | 0.0451                                         |
| 50       | Napierville   | Welwyn                 | 65.29880              | 2.1468                                    | 3.99685                             | 0.1314                                         |
| 51       | Napierville   | Dawn Export            | 24.10430              | 0.7925                                    | 1.33604                             | 0.0439                                         |
| 52       | Napierville   | Union Parkway Belt     | 18.72693              | 0.6157                                    | 0.98870                             | 0.0325                                         |
| 53       | Napierville   | Union CDA (Amended)    | 20.17325              | 0.6632                                    | 1.08211                             | 0.0356                                         |
| 54       | Napierville   | Union ECDA             | 18.99947              | 0.6246                                    | 1.00632                             | 0.0331                                         |
| 55       | Napierville   | Enbridge Parkway CDA   | 18.72693              | 0.6157                                    | 0.98870                             | 0.0325                                         |
| 56       | Napierville   | Enbridge CDA (Amended) | 18.02613              | 0.5926                                    | 0.94342                             | 0.0310                                         |
| 57       | Niagara Falls | Empress                | 73.01673              | 2.4006                                    | 4.49535                             | 0.1478                                         |
| 58       | Niagara Falls | TransGas SSDA          | 62.73407              | 2.0625                                    | 3.83119                             | 0.1260                                         |
| 59       | Niagara Falls | Centram SSDA           | 58.52136              | 1.9240                                    | 3.55906                             | 0.1170                                         |
| 60       | Niagara Falls | Centram MDA            | 52.14785              | 1.7145                                    | 3.14740                             | 0.1035                                         |
| 61       | Niagara Falls | Centrat MDA            | 52.12504              | 1.7137                                    | 3.14594                             | 0.1034                                         |
| 62       | Niagara Falls | Union WDA              | 42.08085              | 1.3835                                    | 2.49717                             | 0.0821                                         |
| 63       | Niagara Falls | Nipigon WDA            | 37.57219              | 1.2353                                    | 2.20593                             | 0.0725                                         |
| 64       | Niagara Falls | Union NDA              | 19.73920              | 0.6490                                    | 1.05410                             | 0.0347                                         |
| 65       | Niagara Falls | Calstock NDA           | 29.73260              | 0.9775                                    | 1.69957                             | 0.0559                                         |
| 66       | Niagara Falls | Tunis NDA              | 23.56045              | 0.7746                                    | 1.30090                             | 0.0428                                         |
| 67       | Niagara Falls | GMIT NDA               | 18.97392              | 0.6238                                    | 1.00466                             | 0.0330                                         |
| 68       | Niagara Falls | Union SSMDA            | 25.49768              | 0.8383                                    | 1.42603                             | 0.0469                                         |
| 69       | Niagara Falls | Union NCDA             | 11.47073              | 0.3771                                    | 0.52001                             | 0.0171                                         |
| 70       | Niagara Falls | Union CDA              | 6.45807               | 0.2123                                    | 0.19624                             | 0.0065                                         |
| 71       | Niagara Falls | Enbridge CDA           | 8.05403               | 0.2648                                    | 0.29933                             | 0.0098                                         |
| 72       | Niagara Falls | Union EDA              | 14.75360              | 0.4851                                    | 0.73206                             | 0.0241                                         |
| 73       | Niagara Falls | Enbridge EDA           | 18.01184              | 0.5922                                    | 0.94251                             | 0.0310                                         |
| 74       | Niagara Falls | KPUC EDA               | 14.31165              | 0.4705                                    | 0.70349                             | 0.0231                                         |
| 75       | Niagara Falls | GMIT EDA               | 22.23732              | 0.7311                                    | 1.21542                             | 0.0400                                         |
| 76       | Niagara Falls | Enbridge SWDA          | 11.07440              | 0.3641                                    | 0.49441                             | 0.0163                                         |

| Line No. | Receipt Point      | Delivery Point         | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|--------------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Niagara Falls      | Union SWDA             | 11.15957              | 0.3669                                    | 0.49992                             | 0.0164                                         |
| 2        | Niagara Falls      | Chippawa               | 4.87883               | 0.1604                                    | 0.09425                             | 0.0031                                         |
| 3        | Niagara Falls      | Cornwall               | 18.23114              | 0.5994                                    | 0.95665                             | 0.0315                                         |
| 4        | Niagara Falls      | East Hereford          | 26.67390              | 0.8770                                    | 1.50200                             | 0.0494                                         |
| 5        | Niagara Falls      | Emerson 1              | 48.76157              | 1.6031                                    | 2.92869                             | 0.0963                                         |
| 6        | Niagara Falls      | Emerson 2              | 48.76157              | 1.6031                                    | 2.92869                             | 0.0963                                         |
| 7        | Niagara Falls      | Iroquois               | 17.22648              | 0.5664                                    | 0.89180                             | 0.0293                                         |
| 8        | Niagara Falls      | Kirkwall               | 6.60224               | 0.2171                                    | 0.20556                             | 0.0068                                         |
| 9        | Niagara Falls      | Napierville            | 21.87232              | 0.7191                                    | 1.19187                             | 0.0392                                         |
| 10       | Niagara Falls      | Niagara Falls          | 3.96268               | 0.1303                                    | 0.03504                             | 0.0012                                         |
| 11       | Niagara Falls      | North Bay Junction     | 15.62839              | 0.5138                                    | 0.78857                             | 0.0259                                         |
| 12       | Niagara Falls      | Philipsburg            | 22.28629              | 0.7327                                    | 1.21860                             | 0.0401                                         |
| 13       | Niagara Falls      | Spruce                 | 52.12504              | 1.7137                                    | 3.14594                             | 0.1034                                         |
| 14       | Niagara Falls      | St. Clair              | 11.63924              | 0.3827                                    | 0.53089                             | 0.0175                                         |
| 15       | Niagara Falls      | Welwyn                 | 58.52136              | 1.9240                                    | 3.55906                             | 0.1170                                         |
| 16       | Niagara Falls      | Dawn Export            | 11.07440              | 0.3641                                    | 0.49441                             | 0.0163                                         |
| 17       | Niagara Falls      | Union Parkway Belt     | 7.10807               | 0.2337                                    | 0.23822                             | 0.0078                                         |
| 18       | Niagara Falls      | Union CDA (Amended)    | 5.82510               | 0.1915                                    | 0.15533                             | 0.0051                                         |
| 19       | Niagara Falls      | Union ECDA             | 6.83493               | 0.2247                                    | 0.22058                             | 0.0073                                         |
| 20       | Niagara Falls      | Enbridge Parkway CDA   | 7.10807               | 0.2337                                    | 0.23822                             | 0.0078                                         |
| 21       | Niagara Falls      | Enbridge CDA (Amended) | 8.14345               | 0.2677                                    | 0.30509                             | 0.0100                                         |
| 22       | Nipigon WDA        | Empress                | -                     | 1.0427                                    | -                                   | 0.0845                                         |
| 23       | Nipigon WDA        | TransGas SSDA          | -                     | 0.7946                                    | -                                   | 0.0627                                         |
| 24       | Nipigon WDA        | Centram SSDA           | -                     | 0.6929                                    | -                                   | 0.0537                                         |
| 25       | Nipigon WDA        | Centram MDA            | -                     | 0.5401                                    | -                                   | 0.0403                                         |
| 26       | Nipigon WDA        | Centrat MDA            | -                     | 0.4695                                    | -                                   | 0.0341                                         |
| 27       | Nipigon WDA        | Union WDA              | -                     | 0.2085                                    | -                                   | 0.0111                                         |
| 28       | Nipigon WDA        | Nipigon WDA            | -                     | 0.0956                                    | -                                   | 0.0012                                         |
| 29       | Nipigon WDA        | Union NDA              | -                     | 0.5260                                    | -                                   | 0.0390                                         |
| 30       | Nipigon WDA        | Calstock NDA           | -                     | 0.2848                                    | -                                   | 0.0178                                         |
| 31       | Nipigon WDA        | Tunis NDA              | -                     | 0.4338                                    | -                                   | 0.0309                                         |
| 32       | Nipigon WDA        | GMIT NDA               | -                     | 0.5563                                    | -                                   | 0.0417                                         |
| 33       | Nipigon WDA        | Union SSMDA            | -                     | 1.2058                                    | -                                   | 0.0988                                         |
| 34       | Nipigon WDA        | Union NCDA             | -                     | 0.7668                                    | -                                   | 0.0566                                         |
| 35       | Nipigon WDA        | Union CDA              | -                     | 0.8962                                    | -                                   | 0.0674                                         |
| 36       | Nipigon WDA        | Enbridge CDA           | -                     | 0.8742                                    | -                                   | 0.0655                                         |
| 37       | Nipigon WDA        | Union EDA              | -                     | 0.9523                                    | -                                   | 0.0720                                         |
| 38       | Nipigon WDA        | Enbridge EDA           | -                     | 0.9092                                    | -                                   | 0.0684                                         |
| 39       | Nipigon WDA        | KPUC EDA               | -                     | 0.9899                                    | -                                   | 0.0752                                         |
| 40       | Nipigon WDA        | GMIT EDA               | -                     | 1.0434                                    | -                                   | 0.0796                                         |
| 41       | Nipigon WDA        | Enbridge SWDA          | -                     | 1.0152                                    | -                                   | 0.0773                                         |
| 42       | Nipigon WDA        | Union SWDA             | -                     | 1.0174                                    | -                                   | 0.0774                                         |
| 43       | Nipigon WDA        | Chippawa               | -                     | 0.9597                                    | -                                   | 0.0726                                         |
| 44       | Nipigon WDA        | Cornwall               | -                     | 0.9413                                    | -                                   | 0.0711                                         |
| 45       | Nipigon WDA        | East Hereford          | -                     | 1.1566                                    | -                                   | 0.0890                                         |
| 46       | Nipigon WDA        | Emerson 1              | -                     | 0.5506                                    | -                                   | 0.0412                                         |
| 47       | Nipigon WDA        | Emerson 2              | -                     | 0.5506                                    | -                                   | 0.0412                                         |
| 48       | Nipigon WDA        | Iroquois               | -                     | 0.9212                                    | -                                   | 0.0694                                         |
| 49       | Nipigon WDA        | Kirkwall               | -                     | 0.9011                                    | -                                   | 0.0678                                         |
| 50       | Nipigon WDA        | Napierville            | -                     | 1.0342                                    | -                                   | 0.0788                                         |
| 51       | Nipigon WDA        | Niagara Falls          | -                     | 0.9583                                    | -                                   | 0.0725                                         |
| 52       | Nipigon WDA        | North Bay Junction     | -                     | 0.6252                                    | -                                   | 0.0478                                         |
| 53       | Nipigon WDA        | Philipsburg            | -                     | 1.0447                                    | -                                   | 0.0797                                         |
| 54       | Nipigon WDA        | Spruce                 | -                     | 0.4695                                    | -                                   | 0.0341                                         |
| 55       | Nipigon WDA        | St. Clair              | -                     | 0.9742                                    | -                                   | 0.0785                                         |
| 56       | Nipigon WDA        | Welwyn                 | -                     | 0.6929                                    | -                                   | 0.0537                                         |
| 57       | Nipigon WDA        | Dawn Export            | -                     | 1.0152                                    | -                                   | 0.0773                                         |
| 58       | Nipigon WDA        | Union Parkway Belt     | -                     | 0.8780                                    | -                                   | 0.0658                                         |
| 59       | Nipigon WDA        | Union CDA (Amended)    | -                     | 0.9149                                    | -                                   | 0.0689                                         |
| 60       | Nipigon WDA        | Union ECDA             | -                     | 0.8850                                    | -                                   | 0.0664                                         |
| 61       | Nipigon WDA        | Enbridge Parkway CDA   | -                     | 0.8780                                    | -                                   | 0.0658                                         |
| 62       | Nipigon WDA        | Enbridge CDA (Amended) | -                     | 0.8739                                    | -                                   | 0.0655                                         |
| 63       | North Bay Junction | Empress                | 65.15280              | 2.1420                                    | 3.98741                             | 0.1311                                         |
| 64       | North Bay Junction | TransGas SSDA          | 54.86954              | 1.8039                                    | 3.32321                             | 0.1093                                         |
| 65       | North Bay Junction | Centram SSDA           | 50.65713              | 1.6654                                    | 3.05112                             | 0.1003                                         |
| 66       | North Bay Junction | Centram MDA            | 44.32286              | 1.4572                                    | 2.64197                             | 0.0869                                         |
| 67       | North Bay Junction | Centrat MDA            | 41.39800              | 1.3610                                    | 2.45305                             | 0.0806                                         |
| 68       | North Bay Junction | Union WDA              | 30.41515              | 1.0000                                    | 1.74364                             | 0.0573                                         |
| 69       | North Bay Junction | Nipigon WDA            | 25.90588              | 0.8517                                    | 1.45241                             | 0.0478                                         |
| 70       | North Bay Junction | Union NDA              | 8.09023               | 0.2660                                    | 0.30164                             | 0.0099                                         |
| 71       | North Bay Junction | Calstock NDA           | 18.06659              | 0.5940                                    | 0.94604                             | 0.0311                                         |
| 72       | North Bay Junction | Tunis NDA              | 11.89444              | 0.3911                                    | 0.54738                             | 0.0180                                         |
| 73       | North Bay Junction | GMIT NDA               | 7.30821               | 0.2403                                    | 0.25114                             | 0.0083                                         |
| 74       | North Bay Junction | Union SSMDA            | 32.28334              | 1.0614                                    | 1.86434                             | 0.0613                                         |
| 75       | North Bay Junction | Union NCDA             | 8.12095               | 0.2670                                    | 0.30362                             | 0.0100                                         |
| 76       | North Bay Junction | Union CDA              | 13.19353              | 0.4338                                    | 0.63129                             | 0.0208                                         |

| Line No. | Receipt Point      | Delivery Point         | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|--------------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | North Bay Junction | Enbridge CDA           | 12.33609              | 0.4056                                    | 0.57589                             | 0.0189                                         |
| 2        | North Bay Junction | Union EDA              | 15.39479              | 0.5061                                    | 0.77346                             | 0.0254                                         |
| 3        | North Bay Junction | Enbridge EDA           | 13.70423              | 0.4506                                    | 0.66428                             | 0.0218                                         |
| 4        | North Bay Junction | KPUC EDA               | 16.87121              | 0.5547                                    | 0.86882                             | 0.0286                                         |
| 5        | North Bay Junction | GMIT EDA               | 18.96935              | 0.6237                                    | 1.00436                             | 0.0330                                         |
| 6        | North Bay Junction | Enbridge SWDA          | 17.86067              | 0.5872                                    | 0.93274                             | 0.0307                                         |
| 7        | North Bay Junction | Union SWDA             | 17.94553              | 0.5900                                    | 0.93823                             | 0.0308                                         |
| 8        | North Bay Junction | Chippawa               | 15.68527              | 0.5157                                    | 0.79223                             | 0.0260                                         |
| 9        | North Bay Junction | Cornwall               | 14.96287              | 0.4919                                    | 0.74556                             | 0.0245                                         |
| 10       | North Bay Junction | East Hereford          | 23.40623              | 0.7695                                    | 1.29092                             | 0.0424                                         |
| 11       | North Bay Junction | Emerson 1              | 44.76178              | 1.4716                                    | 2.67032                             | 0.0878                                         |
| 12       | North Bay Junction | Emerson 2              | 44.76178              | 1.4716                                    | 2.67032                             | 0.0878                                         |
| 13       | North Bay Junction | Iroquois               | 14.17478              | 0.4660                                    | 0.69467                             | 0.0228                                         |
| 14       | North Bay Junction | Kirkwall               | 13.38881              | 0.4402                                    | 0.64389                             | 0.0212                                         |
| 15       | North Bay Junction | Napierville            | 18.60405              | 0.6116                                    | 0.98078                             | 0.0322                                         |
| 16       | North Bay Junction | Niagara Falls          | 15.62839              | 0.5138                                    | 0.78857                             | 0.0259                                         |
| 17       | North Bay Junction | North Bay Junction     | 3.96268               | 0.1303                                    | 0.03504                             | 0.0012                                         |
| 18       | North Bay Junction | Philipsburg            | 19.01802              | 0.6253                                    | 1.00751                             | 0.0331                                         |
| 19       | North Bay Junction | Spruce                 | 41.39800              | 1.3610                                    | 2.45305                             | 0.0806                                         |
| 20       | North Bay Junction | St. Clair              | 18.42520              | 0.6058                                    | 0.96922                             | 0.0319                                         |
| 21       | North Bay Junction | Welwyn                 | 50.65713              | 1.6654                                    | 3.05112                             | 0.1003                                         |
| 22       | North Bay Junction | Dawn Export            | 17.86067              | 0.5872                                    | 0.93274                             | 0.0307                                         |
| 23       | North Bay Junction | Union Parkway Belt     | 12.48300              | 0.4104                                    | 0.58539                             | 0.0192                                         |
| 24       | North Bay Junction | Union CDA (Amended)    | 13.92901              | 0.4579                                    | 0.67881                             | 0.0223                                         |
| 25       | North Bay Junction | Union ECDA             | 12.75584              | 0.4194                                    | 0.60303                             | 0.0198                                         |
| 26       | North Bay Junction | Enbridge Parkway CDA   | 12.48300              | 0.4104                                    | 0.58539                             | 0.0192                                         |
| 27       | North Bay Junction | Enbridge CDA (Amended) | 12.32270              | 0.4051                                    | 0.57504                             | 0.0189                                         |
| 28       | Philipsburg        | Empress                | 80.20814              | 2.6370                                    | 4.95988                             | 0.1631                                         |
| 29       | Philipsburg        | TransGas SSDA          | 69.92548              | 2.2989                                    | 4.29570                             | 0.1412                                         |
| 30       | Philipsburg        | Centram SSDA           | 65.71278              | 2.1604                                    | 4.02358                             | 0.1323                                         |
| 31       | Philipsburg        | Centram MDA            | 59.37790              | 1.9522                                    | 3.61439                             | 0.1188                                         |
| 32       | Philipsburg        | Centrat MDA            | 56.45394              | 1.8560                                    | 3.42553                             | 0.1126                                         |
| 33       | Philipsburg        | Union WDA              | 45.47109              | 1.4949                                    | 2.71614                             | 0.0893                                         |
| 34       | Philipsburg        | Nipigon WDA            | 40.96182              | 1.3467                                    | 2.42488                             | 0.0797                                         |
| 35       | Philipsburg        | Union NDA              | 23.14648              | 0.7610                                    | 1.27417                             | 0.0419                                         |
| 36       | Philipsburg        | Calstock NDA           | 33.12253              | 1.0890                                    | 1.91851                             | 0.0631                                         |
| 37       | Philipsburg        | Tunis NDA              | 26.95008              | 0.8860                                    | 1.51985                             | 0.0500                                         |
| 38       | Philipsburg        | GMIT NDA               | 22.36416              | 0.7353                                    | 1.22362                             | 0.0402                                         |
| 39       | Philipsburg        | Union SSM DA           | 38.94124              | 1.2803                                    | 2.29438                             | 0.0754                                         |
| 40       | Philipsburg        | Union NCDA             | 21.00393              | 0.6905                                    | 1.13577                             | 0.0373                                         |
| 41       | Philipsburg        | Union CDA              | 19.85113              | 0.6526                                    | 1.06131                             | 0.0349                                         |
| 42       | Philipsburg        | Enbridge CDA           | 18.49881              | 0.6082                                    | 0.97397                             | 0.0320                                         |
| 43       | Philipsburg        | Union EDA              | 11.53461              | 0.3792                                    | 0.52412                             | 0.0172                                         |
| 44       | Philipsburg        | Enbridge EDA           | 10.96764              | 0.3606                                    | 0.48750                             | 0.0160                                         |
| 45       | Philipsburg        | KPUC EDA               | 11.93733              | 0.3925                                    | 0.55015                             | 0.0181                                         |
| 46       | Philipsburg        | GMIT EDA               | 8.58906               | 0.2824                                    | 0.33386                             | 0.0110                                         |
| 47       | Philipsburg        | Enbridge SWDA          | 24.51827              | 0.8061                                    | 1.36277                             | 0.0448                                         |
| 48       | Philipsburg        | Union SWDA             | 24.60343              | 0.8089                                    | 1.36828                             | 0.0450                                         |
| 49       | Philipsburg        | Chippawa               | 22.34287              | 0.7346                                    | 1.22226                             | 0.0402                                         |
| 50       | Philipsburg        | Cornwall               | 8.01783               | 0.2636                                    | 0.29699                             | 0.0098                                         |
| 51       | Philipsburg        | East Hereford          | 13.59625              | 0.4470                                    | 0.65732                             | 0.0216                                         |
| 52       | Philipsburg        | Emerson 1              | 59.81711              | 1.9666                                    | 3.64279                             | 0.1198                                         |
| 53       | Philipsburg        | Emerson 2              | 59.81711              | 1.9666                                    | 3.64279                             | 0.1198                                         |
| 54       | Philipsburg        | Iroquois               | 9.24119               | 0.3038                                    | 0.37600                             | 0.0124                                         |
| 55       | Philipsburg        | Kirkwall               | 20.04671              | 0.6591                                    | 1.07392                             | 0.0353                                         |
| 56       | Philipsburg        | Napierville            | 6.14021               | 0.2019                                    | 0.17571                             | 0.0058                                         |
| 57       | Philipsburg        | Niagara Falls          | 22.28629              | 0.7327                                    | 1.21860                             | 0.0401                                         |
| 58       | Philipsburg        | North Bay Junction     | 19.01802              | 0.6253                                    | 1.00751                             | 0.0331                                         |
| 59       | Philipsburg        | Philipsburg            | 3.96268               | 0.1303                                    | 0.03504                             | 0.0012                                         |
| 60       | Philipsburg        | Spruce                 | 56.45394              | 1.8560                                    | 3.42553                             | 0.1126                                         |
| 61       | Philipsburg        | St. Clair              | 25.08310              | 0.8247                                    | 1.39925                             | 0.0460                                         |
| 62       | Philipsburg        | Welwyn                 | 65.71278              | 2.1604                                    | 4.02358                             | 0.1323                                         |
| 63       | Philipsburg        | Dawn Export            | 24.51827              | 0.8061                                    | 1.36277                             | 0.0448                                         |
| 64       | Philipsburg        | Union Parkway Belt     | 19.14090              | 0.6293                                    | 1.01543                             | 0.0334                                         |
| 65       | Philipsburg        | Union CDA (Amended)    | 20.58722              | 0.6768                                    | 1.10886                             | 0.0365                                         |
| 66       | Philipsburg        | Union ECDA             | 19.41344              | 0.6383                                    | 1.03303                             | 0.0340                                         |
| 67       | Philipsburg        | Enbridge Parkway CDA   | 19.14090              | 0.6293                                    | 1.01543                             | 0.0334                                         |
| 68       | Philipsburg        | Enbridge CDA (Amended) | 18.43950              | 0.6062                                    | 0.97012                             | 0.0319                                         |
| 69       | Richmound          | Empress                | 2.94707               | 0.0969                                    | 0.03844                             | 0.0013                                         |
| 70       | Richmound          | TransGas SSDA          | 10.41801              | 0.3425                                    | 0.69585                             | 0.0229                                         |
| 71       | Richmound          | Centram SSDA           | 13.50956              | 0.4442                                    | 0.96794                             | 0.0318                                         |
| 72       | Richmound          | Centram MDA            | 18.20346              | 0.5985                                    | 1.38100                             | 0.0454                                         |
| 73       | Richmound          | Centrat MDA            | 20.30586              | 0.6676                                    | 1.56599                             | 0.0515                                         |
| 74       | Richmound          | Union WDA              | 29.09050              | 0.9564                                    | 2.33902                             | 0.0769                                         |
| 75       | Richmound          | Nipigon WDA            | 31.67713              | 1.0414                                    | 2.56664                             | 0.0844                                         |
| 76       | Richmound          | Union NDA              | 44.76603              | 1.4718                                    | 3.71848                             | 0.1223                                         |

| Line No. | Receipt Point                | Delivery Point         | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|------------------------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Richmound                    | Calstock NDA           | 37.43136              | 1.2306                                    | 3.07299                             | 0.1010                                         |
| 2        | Richmound                    | Tunis NDA              | 41.96162              | 1.3796                                    | 3.47167                             | 0.1141                                         |
| 3        | Richmound                    | GMIT NDA               | 45.68979              | 1.5021                                    | 3.79976                             | 0.1249                                         |
| 4        | Richmound                    | Union SSMDA            | 40.59986              | 1.3348                                    | 3.35184                             | 0.1102                                         |
| 5        | Richmound                    | Union NCDA             | 53.72739              | 1.7664                                    | 4.25259                             | 0.1398                                         |
| 6        | Richmound                    | Union CDA              | 55.35225              | 1.8198                                    | 4.38788                             | 0.1443                                         |
| 7        | Richmound                    | Enbridge CDA           | 56.26353              | 1.8498                                    | 4.46375                             | 0.1468                                         |
| 8        | Richmound                    | Union EDA              | 59.30550              | 1.9498                                    | 4.71703                             | 0.1551                                         |
| 9        | Richmound                    | Enbridge EDA           | 58.04595              | 1.9084                                    | 4.61215                             | 0.1516                                         |
| 10       | Richmound                    | KPUC EDA               | 60.51548              | 1.9896                                    | 4.81779                             | 0.1584                                         |
| 11       | Richmound                    | GMIT EDA               | 62.14338              | 2.0431                                    | 4.95332                             | 0.1628                                         |
| 12       | Richmound                    | Enbridge SWDA          | 51.08540              | 1.6795                                    | 4.03259                             | 0.1326                                         |
| 13       | Richmound                    | Union SWDA             | 51.01909              | 1.6773                                    | 4.02707                             | 0.1324                                         |
| 14       | Richmound                    | Chippawa               | 56.64618              | 1.8623                                    | 4.49561                             | 0.1478                                         |
| 15       | Richmound                    | Cornwall               | 59.03510              | 1.9409                                    | 4.69453                             | 0.1543                                         |
| 16       | Richmound                    | East Hereford          | 65.58533              | 2.1562                                    | 5.23987                             | 0.1723                                         |
| 17       | Richmound                    | Emerson 1              | 20.67330              | 0.6797                                    | 1.59831                             | 0.0525                                         |
| 18       | Richmound                    | Emerson 2              | 20.67330              | 0.6797                                    | 1.59831                             | 0.0525                                         |
| 19       | Richmound                    | Iroquois               | 58.42433              | 1.9208                                    | 4.64364                             | 0.1527                                         |
| 20       | Richmound                    | Kirkwall               | 54.55442              | 1.7936                                    | 4.32143                             | 0.1421                                         |
| 21       | Richmound                    | Napierville            | 61.86020              | 2.0338                                    | 4.92975                             | 0.1621                                         |
| 22       | Richmound                    | Niagara Falls          | 56.60238              | 1.8609                                    | 4.49195                             | 0.1477                                         |
| 23       | Richmound                    | North Bay Junction     | 47.78367              | 1.5710                                    | 3.98401                             | 0.1310                                         |
| 24       | Richmound                    | Philipsburg            | 62.18140              | 2.0443                                    | 4.95648                             | 0.1630                                         |
| 25       | Richmound                    | Spruce                 | 20.30586              | 0.6676                                    | 1.56599                             | 0.0515                                         |
| 26       | Richmound                    | St. Clair              | 47.92115              | 1.5755                                    | 3.99610                             | 0.1314                                         |
| 27       | Richmound                    | Welwyn                 | 13.50956              | 0.4442                                    | 0.96794                             | 0.0318                                         |
| 28       | Richmound                    | Dawn Export            | 51.08540              | 1.6795                                    | 4.03259                             | 0.1326                                         |
| 29       | Richmound                    | Union Parkway Belt     | 55.25705              | 1.8167                                    | 4.37993                             | 0.1440                                         |
| 30       | Richmound                    | Union CDA (Amended)    | 55.15789              | 1.8134                                    | 4.37168                             | 0.1437                                         |
| 31       | Richmound                    | Union ECDA             | 55.46844              | 1.8236                                    | 4.39754                             | 0.1446                                         |
| 32       | Richmound                    | Enbridge Parkway CDA   | 55.25705              | 1.8167                                    | 4.37993                             | 0.1440                                         |
| 33       | Richmound                    | Enbridge CDA (Amended) | 56.35783              | 1.8529                                    | 4.47157                             | 0.1470                                         |
| 34       | Sainte-Genevieve-de-Berthier | Empress                | 80.57132              | 2.6489                                    | 4.98330                             | 0.1638                                         |
| 35       | Sainte-Genevieve-de-Berthier | TransGas SSDA          | 70.28896              | 2.3109                                    | 4.31915                             | 0.1420                                         |
| 36       | Sainte-Genevieve-de-Berthier | Centram SSDA           | 66.07565              | 2.1724                                    | 4.04702                             | 0.1331                                         |
| 37       | Sainte-Genevieve-de-Berthier | Centram MDA            | 59.73985              | 1.9641                                    | 3.63777                             | 0.1196                                         |
| 38       | Sainte-Genevieve-de-Berthier | Centrat MDA            | 56.81651              | 1.8679                                    | 3.44895                             | 0.1134                                         |
| 39       | Sainte-Genevieve-de-Berthier | Union WDA              | 45.83335              | 1.5069                                    | 2.73955                             | 0.0901                                         |
| 40       | Sainte-Genevieve-de-Berthier | Nipigon WDA            | 41.32439              | 1.3586                                    | 2.44830                             | 0.0805                                         |
| 41       | Sainte-Genevieve-de-Berthier | Union NDA              | 23.50904              | 0.7729                                    | 1.29760                             | 0.0427                                         |
| 42       | Sainte-Genevieve-de-Berthier | Calstock NDA           | 33.48480              | 1.1009                                    | 1.94195                             | 0.0638                                         |
| 43       | Sainte-Genevieve-de-Berthier | Tunis NDA              | 27.31325              | 0.8980                                    | 1.54329                             | 0.0507                                         |
| 44       | Sainte-Genevieve-de-Berthier | GMIT NDA               | 22.72612              | 0.7472                                    | 1.24703                             | 0.0410                                         |
| 45       | Sainte-Genevieve-de-Berthier | Union SSMDA            | 39.30442              | 1.2922                                    | 2.31782                             | 0.0762                                         |
| 46       | Sainte-Genevieve-de-Berthier | Union NCDA             | 21.36680              | 0.7025                                    | 1.15921                             | 0.0381                                         |
| 47       | Sainte-Genevieve-de-Berthier | Union CDA              | 20.21400              | 0.6646                                    | 1.08475                             | 0.0357                                         |
| 48       | Sainte-Genevieve-de-Berthier | Enbridge CDA           | 18.86198              | 0.6201                                    | 0.99742                             | 0.0328                                         |
| 49       | Sainte-Genevieve-de-Berthier | Union EDA              | 11.89809              | 0.3912                                    | 0.54761                             | 0.0180                                         |
| 50       | Sainte-Genevieve-de-Berthier | Enbridge EDA           | 11.32960              | 0.3725                                    | 0.51091                             | 0.0168                                         |
| 51       | Sainte-Genevieve-de-Berthier | KPUC EDA               | 12.29989              | 0.4044                                    | 0.57357                             | 0.0189                                         |
| 52       | Sainte-Genevieve-de-Berthier | GMIT EDA               | 6.96998               | 0.2292                                    | 0.22929                             | 0.0075                                         |
| 53       | Sainte-Genevieve-de-Berthier | Enbridge SWDA          | 24.88114              | 0.8180                                    | 1.38619                             | 0.0456                                         |
| 54       | Sainte-Genevieve-de-Berthier | Union SWDA             | 24.96600              | 0.8208                                    | 1.39169                             | 0.0458                                         |
| 55       | Sainte-Genevieve-de-Berthier | Chippawa               | 22.70543              | 0.7465                                    | 1.24568                             | 0.0410                                         |
| 56       | Sainte-Genevieve-de-Berthier | Cornwall               | 8.38070               | 0.2755                                    | 0.32041                             | 0.0105                                         |
| 57       | Sainte-Genevieve-de-Berthier | East Hereford          | 10.22882              | 0.3363                                    | 0.43980                             | 0.0145                                         |
| 58       | Sainte-Genevieve-de-Berthier | Emerson 1              | 60.18029              | 1.9785                                    | 3.66621                             | 0.1205                                         |
| 59       | Sainte-Genevieve-de-Berthier | Emerson 2              | 60.18029              | 1.9785                                    | 3.66621                             | 0.1205                                         |
| 60       | Sainte-Genevieve-de-Berthier | Iroquois               | 9.60406               | 0.3158                                    | 0.39943                             | 0.0131                                         |
| 61       | Sainte-Genevieve-de-Berthier | Kirkwall               | 20.40898              | 0.6710                                    | 1.09735                             | 0.0361                                         |
| 62       | Sainte-Genevieve-de-Berthier | Napierville            | 9.15755               | 0.3011                                    | 0.37061                             | 0.0122                                         |
| 63       | Sainte-Genevieve-de-Berthier | Niagara Falls          | 22.64886              | 0.7446                                    | 1.24202                             | 0.0408                                         |
| 64       | Sainte-Genevieve-de-Berthier | North Bay Junction     | 19.38089              | 0.6372                                    | 1.03095                             | 0.0339                                         |
| 65       | Sainte-Genevieve-de-Berthier | Philipsburg            | 9.57152               | 0.3147                                    | 0.39735                             | 0.0131                                         |
| 66       | Sainte-Genevieve-de-Berthier | Spruce                 | 56.81651              | 1.8679                                    | 3.44895                             | 0.1134                                         |
| 67       | Sainte-Genevieve-de-Berthier | St. Clair              | 25.44567              | 0.8366                                    | 1.42268                             | 0.0468                                         |
| 68       | Sainte-Genevieve-de-Berthier | Welwyn                 | 66.07565              | 2.1724                                    | 4.04702                             | 0.1331                                         |
| 69       | Sainte-Genevieve-de-Berthier | Dawn Export            | 24.88114              | 0.8180                                    | 1.38619                             | 0.0456                                         |
| 70       | Sainte-Genevieve-de-Berthier | Union Parkway Belt     | 19.50347              | 0.6412                                    | 1.03885                             | 0.0342                                         |
| 71       | Sainte-Genevieve-de-Berthier | Union CDA (Amended)    | 20.94948              | 0.6888                                    | 1.13227                             | 0.0372                                         |
| 72       | Sainte-Genevieve-de-Berthier | Union ECDA             | 19.77631              | 0.6502                                    | 1.05649                             | 0.0347                                         |
| 73       | Sainte-Genevieve-de-Berthier | Enbridge Parkway CDA   | 19.50347              | 0.6412                                    | 1.03885                             | 0.0342                                         |
| 74       | Sainte-Genevieve-de-Berthier | Enbridge CDA (Amended) | 18.80206              | 0.6182                                    | 0.99356                             | 0.0327                                         |
| 75       | Shackleton                   | Empress                | 4.51992               | 0.1486                                    | 0.17684                             | 0.0058                                         |
| 76       | Shackleton                   | TransGas SSDA          | 8.86859               | 0.2916                                    | 0.55954                             | 0.0184                                         |

| Line No. | Receipt Point | Delivery Point         | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Shackleton    | Centram SSDA           | 11.93702              | 0.3925                                    | 0.82954                             | 0.0273                                         |
| 2        | Shackleton    | Centram MDA            | 16.63214              | 0.5468                                    | 1.24270                             | 0.0409                                         |
| 3        | Shackleton    | Centrat MDA            | 18.73302              | 0.6159                                    | 1.42759                             | 0.0469                                         |
| 4        | Shackleton    | Union WDA              | 27.51765              | 0.9047                                    | 2.20061                             | 0.0723                                         |
| 5        | Shackleton    | Nipigon WDA            | 30.10429              | 0.9897                                    | 2.42824                             | 0.0798                                         |
| 6        | Shackleton    | Union NDA              | 43.19349              | 1.4201                                    | 3.58009                             | 0.1177                                         |
| 7        | Shackleton    | Calstock NDA           | 35.85851              | 1.1789                                    | 2.93459                             | 0.0965                                         |
| 8        | Shackleton    | Tunis NDA              | 40.38877              | 1.3279                                    | 3.33327                             | 0.1096                                         |
| 9        | Shackleton    | GMIT NDA               | 44.11725              | 1.4504                                    | 3.66136                             | 0.1204                                         |
| 10       | Shackleton    | Union SSMDA            | 39.02732              | 1.2831                                    | 3.21344                             | 0.1056                                         |
| 11       | Shackleton    | Union NCDA             | 52.06512              | 1.7117                                    | 4.11419                             | 0.1353                                         |
| 12       | Shackleton    | Union CDA              | 53.68998              | 1.7652                                    | 4.24948                             | 0.1397                                         |
| 13       | Shackleton    | Enbridge CDA           | 54.60126              | 1.7951                                    | 4.32534                             | 0.1422                                         |
| 14       | Shackleton    | Union EDA              | 57.64202              | 1.8951                                    | 4.57854                             | 0.1505                                         |
| 15       | Shackleton    | Enbridge EDA           | 56.38338              | 1.8537                                    | 4.47372                             | 0.1471                                         |
| 16       | Shackleton    | KPUC EDA               | 58.85351              | 1.9349                                    | 4.67939                             | 0.1538                                         |
| 17       | Shackleton    | GMIT EDA               | 60.48080              | 1.9884                                    | 4.81488                             | 0.1583                                         |
| 18       | Shackleton    | Enbridge SWDA          | 49.42313              | 1.6249                                    | 3.89419                             | 0.1280                                         |
| 19       | Shackleton    | Union SWDA             | 49.35682              | 1.6227                                    | 3.88868                             | 0.1278                                         |
| 20       | Shackleton    | Chippawa               | 54.98421              | 1.8077                                    | 4.35721                             | 0.1433                                         |
| 21       | Shackleton    | Cornwall               | 57.37313              | 1.8862                                    | 4.55613                             | 0.1498                                         |
| 22       | Shackleton    | East Hereford          | 63.92275              | 2.1016                                    | 5.10147                             | 0.1677                                         |
| 23       | Shackleton    | Emerson 1              | 19.10045              | 0.6280                                    | 1.45991                             | 0.0480                                         |
| 24       | Shackleton    | Emerson 2              | 19.10045              | 0.6280                                    | 1.45991                             | 0.0480                                         |
| 25       | Shackleton    | Iroquois               | 56.76206              | 1.8662                                    | 4.50524                             | 0.1481                                         |
| 26       | Shackleton    | Kirkwall               | 52.89215              | 1.7389                                    | 4.18303                             | 0.1375                                         |
| 27       | Shackleton    | Napierville            | 60.19793              | 1.9791                                    | 4.79135                             | 0.1575                                         |
| 28       | Shackleton    | Niagara Falls          | 54.94041              | 1.8063                                    | 4.35355                             | 0.1431                                         |
| 29       | Shackleton    | North Bay Junction     | 46.21113              | 1.5193                                    | 3.84561                             | 0.1264                                         |
| 30       | Shackleton    | Philipsburg            | 60.51913              | 1.9897                                    | 4.81808                             | 0.1584                                         |
| 31       | Shackleton    | Spruce                 | 18.73302              | 0.6159                                    | 1.42759                             | 0.0469                                         |
| 32       | Shackleton    | St. Clair              | 46.34861              | 1.5238                                    | 3.85770                             | 0.1268                                         |
| 33       | Shackleton    | Welwyn                 | 11.93702              | 0.3925                                    | 0.82954                             | 0.0273                                         |
| 34       | Shackleton    | Dawn Export            | 49.42313              | 1.6249                                    | 3.89419                             | 0.1280                                         |
| 35       | Shackleton    | Union Parkway Belt     | 53.59478              | 1.7620                                    | 4.24153                             | 0.1394                                         |
| 36       | Shackleton    | Union CDA (Amended)    | 53.49562              | 1.7588                                    | 4.23326                             | 0.1392                                         |
| 37       | Shackleton    | Union ECDA             | 53.80617              | 1.7690                                    | 4.25914                             | 0.1400                                         |
| 38       | Shackleton    | Enbridge Parkway CDA   | 53.59478              | 1.7620                                    | 4.24153                             | 0.1394                                         |
| 39       | Shackleton    | Enbridge CDA (Amended) | 54.69555              | 1.7982                                    | 4.33318                             | 0.1425                                         |
| 40       | Spruce        | Empress                | -                     | 0.6689                                    | -                                   | 0.0516                                         |
| 41       | Spruce        | TransGas SSDA          | -                     | 0.4207                                    | -                                   | 0.0298                                         |
| 42       | Spruce        | Centram SSDA           | -                     | 0.3191                                    | -                                   | 0.0208                                         |
| 43       | Spruce        | Centram MDA            | -                     | 0.1662                                    | -                                   | 0.0074                                         |
| 44       | Spruce        | Centrat MDA            | -                     | 0.0956                                    | -                                   | 0.0012                                         |
| 45       | Spruce        | Union WDA              | -                     | 0.3844                                    | -                                   | 0.0266                                         |
| 46       | Spruce        | Nipigon WDA            | -                     | 0.4695                                    | -                                   | 0.0341                                         |
| 47       | Spruce        | Union NDA              | -                     | 0.8998                                    | -                                   | 0.0719                                         |
| 48       | Spruce        | Calstock NDA           | -                     | 0.6586                                    | -                                   | 0.0507                                         |
| 49       | Spruce        | Tunis NDA              | -                     | 0.8076                                    | -                                   | 0.0638                                         |
| 50       | Spruce        | GMIT NDA               | -                     | 0.9302                                    | -                                   | 0.0746                                         |
| 51       | Spruce        | Union SSMDA            | -                     | 0.8319                                    | -                                   | 0.0659                                         |
| 52       | Spruce        | Union NCDA             | -                     | 1.1619                                    | -                                   | 0.0895                                         |
| 53       | Spruce        | Union CDA              | -                     | 1.2808                                    | -                                   | 0.0994                                         |
| 54       | Spruce        | Enbridge CDA           | -                     | 1.2655                                    | -                                   | 0.0981                                         |
| 55       | Spruce        | Union EDA              | -                     | 1.3474                                    | -                                   | 0.1049                                         |
| 56       | Spruce        | Enbridge EDA           | -                     | 1.3043                                    | -                                   | 0.1013                                         |
| 57       | Spruce        | KPUC EDA               | -                     | 1.3851                                    | -                                   | 0.1081                                         |
| 58       | Spruce        | GMIT EDA               | -                     | 1.4385                                    | -                                   | 0.1125                                         |
| 59       | Spruce        | Enbridge SWDA          | -                     | 1.1480                                    | -                                   | 0.0883                                         |
| 60       | Spruce        | Union SWDA             | -                     | 1.1459                                    | -                                   | 0.0881                                         |
| 61       | Spruce        | Chippawa               | -                     | 1.3309                                    | -                                   | 0.1035                                         |
| 62       | Spruce        | Cornwall               | -                     | 1.3364                                    | -                                   | 0.1040                                         |
| 63       | Spruce        | East Hereford          | -                     | 1.5517                                    | -                                   | 0.1219                                         |
| 64       | Spruce        | Emerson 1              | -                     | 0.1768                                    | -                                   | 0.0083                                         |
| 65       | Spruce        | Emerson 2              | -                     | 0.1768                                    | -                                   | 0.0083                                         |
| 66       | Spruce        | Iroquois               | -                     | 1.3163                                    | -                                   | 0.1023                                         |
| 67       | Spruce        | Kirkwall               | -                     | 1.2621                                    | -                                   | 0.0978                                         |
| 68       | Spruce        | Napierville            | -                     | 1.4293                                    | -                                   | 0.1117                                         |
| 69       | Spruce        | Niagara Falls          | -                     | 1.3294                                    | -                                   | 0.1034                                         |
| 70       | Spruce        | North Bay Junction     | -                     | 0.9990                                    | -                                   | 0.0806                                         |
| 71       | Spruce        | Philipsburg            | -                     | 1.4398                                    | -                                   | 0.1126                                         |
| 72       | Spruce        | Spruce                 | -                     | 0.0956                                    | -                                   | 0.0012                                         |
| 73       | Spruce        | St. Clair              | -                     | 1.0726                                    | -                                   | 0.0871                                         |
| 74       | Spruce        | Welwyn                 | -                     | 0.3191                                    | -                                   | 0.0208                                         |
| 75       | Spruce        | Dawn Export            | -                     | 1.1480                                    | -                                   | 0.0883                                         |
| 76       | Spruce        | Union Parkway Belt     | -                     | 1.2731                                    | -                                   | 0.0987                                         |

| Line No. | Receipt Point | Delivery Point         | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Spruce        | Union CDA (Amended)    | -                     | 1.2819                                    | -                                   | 0.0995                                         |
| 2        | Spruce        | Union ECDA             | -                     | 1.2801                                    | -                                   | 0.0993                                         |
| 3        | Spruce        | Enbridge Parkway CDA   | -                     | 1.2731                                    | -                                   | 0.0987                                         |
| 4        | Spruce        | Enbridge CDA (Amended) | -                     | 1.2648                                    | -                                   | 0.0980                                         |
| 5        | SS. Marie     | Empress                | 40.45082              | 1.3299                                    | 3.33871                             | 0.1098                                         |
| 6        | SS. Marie     | TransGas SSDA          | 32.90293              | 1.0817                                    | 2.67451                             | 0.0879                                         |
| 7        | SS. Marie     | Centram SSDA           | 29.81107              | 0.9801                                    | 2.40242                             | 0.0790                                         |
| 8        | SS. Marie     | Centram MDA            | 25.13329              | 0.8263                                    | 1.99080                             | 0.0655                                         |
| 9        | SS. Marie     | Centrat MDA            | 25.11626              | 0.8257                                    | 1.98930                             | 0.0654                                         |
| 10       | SS. Marie     | Union WDA              | 33.86166              | 1.1133                                    | 2.75889                             | 0.0907                                         |
| 11       | SS. Marie     | Nipigon WDA            | 36.48753              | 1.1996                                    | 2.98995                             | 0.0983                                         |
| 12       | SS. Marie     | Union NDA              | 26.52546              | 0.8721                                    | 2.11331                             | 0.0695                                         |
| 13       | SS. Marie     | Calstock NDA           | 33.86075              | 1.1132                                    | 2.75881                             | 0.0907                                         |
| 14       | SS. Marie     | Tunis NDA              | 29.33049              | 0.9643                                    | 2.36015                             | 0.0776                                         |
| 15       | SS. Marie     | GMIT NDA               | 25.96397              | 0.8536                                    | 2.06391                             | 0.0679                                         |
| 16       | SS. Marie     | Union SSMDA            | 3.09642               | 0.1018                                    | 0.05158                             | 0.0017                                         |
| 17       | SS. Marie     | Union NCDA             | 21.62017              | 0.7108                                    | 1.57925                             | 0.0519                                         |
| 18       | SS. Marie     | Union CDA              | 18.33152              | 0.6027                                    | 1.30542                             | 0.0429                                         |
| 19       | SS. Marie     | Enbridge CDA           | 19.45967              | 0.6398                                    | 1.39935                             | 0.0460                                         |
| 20       | SS. Marie     | Union EDA              | 24.16695              | 0.7945                                    | 1.79132                             | 0.0589                                         |
| 21       | SS. Marie     | Enbridge EDA           | 26.69488              | 0.8776                                    | 2.00178                             | 0.0658                                         |
| 22       | SS. Marie     | KPUC EDA               | 23.82416              | 0.7833                                    | 1.76273                             | 0.0580                                         |
| 23       | SS. Marie     | GMIT EDA               | 29.97198              | 0.9854                                    | 2.27466                             | 0.0748                                         |
| 24       | SS. Marie     | Enbridge SWDA          | 14.06406              | 0.4624                                    | 0.95011                             | 0.0312                                         |
| 25       | SS. Marie     | Union SWDA             | 13.99836              | 0.4602                                    | 0.94462                             | 0.0311                                         |
| 26       | SS. Marie     | Chippawa               | 19.62544              | 0.6452                                    | 1.41314                             | 0.0465                                         |
| 27       | SS. Marie     | Cornwall               | 26.86430              | 0.8832                                    | 2.01588                             | 0.0663                                         |
| 28       | SS. Marie     | East Hereford          | 33.41393              | 1.0985                                    | 2.56124                             | 0.0842                                         |
| 29       | SS. Marie     | Emerson 1              | 22.64734              | 0.7446                                    | 1.77204                             | 0.0583                                         |
| 30       | SS. Marie     | Emerson 2              | 22.64734              | 0.7446                                    | 1.77204                             | 0.0583                                         |
| 31       | SS. Marie     | Iroquois               | 26.28426              | 0.8641                                    | 1.96759                             | 0.0647                                         |
| 32       | SS. Marie     | Kirkwall               | 17.53338              | 0.5764                                    | 1.23896                             | 0.0407                                         |
| 33       | SS. Marie     | Napierville            | 29.68910              | 0.9761                                    | 2.25110                             | 0.0740                                         |
| 34       | SS. Marie     | Niagara Falls          | 19.58103              | 0.6438                                    | 1.40948                             | 0.0463                                         |
| 35       | SS. Marie     | North Bay Junction     | 23.50843              | 0.7729                                    | 1.84781                             | 0.0607                                         |
| 36       | SS. Marie     | Philipsburg            | 30.01030              | 0.9866                                    | 2.27783                             | 0.0749                                         |
| 37       | SS. Marie     | Spruce                 | 25.11626              | 0.8257                                    | 1.98930                             | 0.0654                                         |
| 38       | SS. Marie     | St. Clair              | 12.89271              | 0.4239                                    | 0.91363                             | 0.0300                                         |
| 39       | SS. Marie     | Welwyn                 | 29.81107              | 0.9801                                    | 2.40242                             | 0.0790                                         |
| 40       | SS. Marie     | Dawn Export            | 14.06406              | 0.4624                                    | 0.95011                             | 0.0312                                         |
| 41       | SS. Marie     | Union Parkway Belt     | 18.23601              | 0.5995                                    | 1.29746                             | 0.0427                                         |
| 42       | SS. Marie     | Union CDA (Amended)    | 18.13655              | 0.5963                                    | 1.28919                             | 0.0424                                         |
| 43       | SS. Marie     | Union ECDA             | 18.44740              | 0.6065                                    | 1.31508                             | 0.0432                                         |
| 44       | SS. Marie     | Enbridge Parkway CDA   | 18.23601              | 0.5995                                    | 1.29746                             | 0.0427                                         |
| 45       | SS. Marie     | Enbridge CDA (Amended) | 19.57465              | 0.6436                                    | 1.40893                             | 0.0463                                         |
| 46       | St. Clair     | Empress                | 65.34017              | 2.1482                                    | 3.99950                             | 0.1315                                         |
| 47       | St. Clair     | TransGas SSDA          | 55.05660              | 1.8101                                    | 3.33528                             | 0.1097                                         |
| 48       | St. Clair     | Centram SSDA           | 50.84450              | 1.6716                                    | 3.06321                             | 0.1007                                         |
| 49       | St. Clair     | Centram MDA            | 44.47099              | 1.4621                                    | 2.65157                             | 0.0872                                         |
| 50       | St. Clair     | Centrat MDA            | 44.44848              | 1.4613                                    | 2.65010                             | 0.0871                                         |
| 51       | St. Clair     | Union WDA              | 44.45122              | 1.4614                                    | 2.65028                             | 0.0871                                         |
| 52       | St. Clair     | Nipigon WDA            | 40.36900              | 1.3272                                    | 2.38659                             | 0.0785                                         |
| 53       | St. Clair     | Union NDA              | 22.53601              | 0.7409                                    | 1.23475                             | 0.0406                                         |
| 54       | St. Clair     | Calstock NDA           | 32.52971              | 1.0695                                    | 1.88022                             | 0.0618                                         |
| 55       | St. Clair     | Tunis NDA              | 26.35726              | 0.8665                                    | 1.48156                             | 0.0487                                         |
| 56       | St. Clair     | GMIT NDA               | 21.77103              | 0.7158                                    | 1.18532                             | 0.0390                                         |
| 57       | St. Clair     | Union SSMDA            | 17.82082              | 0.5859                                    | 0.93018                             | 0.0306                                         |
| 58       | St. Clair     | Union NCDA             | 14.26755              | 0.4691                                    | 0.70064                             | 0.0230                                         |
| 59       | St. Clair     | Union CDA              | 10.02868              | 0.3297                                    | 0.42686                             | 0.0140                                         |
| 60       | St. Clair     | Enbridge CDA           | 11.48260              | 0.3775                                    | 0.52077                             | 0.0171                                         |
| 61       | St. Clair     | Union EDA              | 17.55072              | 0.5770                                    | 0.91273                             | 0.0300                                         |
| 62       | St. Clair     | Enbridge EDA           | 20.80865              | 0.6841                                    | 1.12314                             | 0.0369                                         |
| 63       | St. Clair     | KPUC EDA               | 17.10846              | 0.5625                                    | 0.88415                             | 0.0291                                         |
| 64       | St. Clair     | GMIT EDA               | 25.03353              | 0.8230                                    | 1.39605                             | 0.0459                                         |
| 65       | St. Clair     | Enbridge SWDA          | 4.52722               | 0.1488                                    | 0.07153                             | 0.0024                                         |
| 66       | St. Clair     | Union SWDA             | 4.44175               | 0.1460                                    | 0.06601                             | 0.0022                                         |
| 67       | St. Clair     | Chippawa               | 11.69582              | 0.3845                                    | 0.53455                             | 0.0176                                         |
| 68       | St. Clair     | Cornwall               | 21.02795              | 0.6913                                    | 1.13731                             | 0.0374                                         |
| 69       | St. Clair     | East Hereford          | 29.47071              | 0.9689                                    | 1.68265                             | 0.0553                                         |
| 70       | St. Clair     | Emerson 1              | 41.08501              | 1.3507                                    | 2.43284                             | 0.0800                                         |
| 71       | St. Clair     | Emerson 2              | 41.08501              | 1.3507                                    | 2.43284                             | 0.0800                                         |
| 72       | St. Clair     | Iroquois               | 20.02329              | 0.6583                                    | 1.07245                             | 0.0353                                         |
| 73       | St. Clair     | Kirkwall               | 8.99908               | 0.2959                                    | 0.36037                             | 0.0118                                         |
| 74       | St. Clair     | Napierville            | 24.66913              | 0.8110                                    | 1.37252                             | 0.0451                                         |
| 75       | St. Clair     | Niagara Falls          | 11.63924              | 0.3827                                    | 0.53089                             | 0.0175                                         |
| 76       | St. Clair     | North Bay Junction     | 18.42520              | 0.6058                                    | 0.96922                             | 0.0319                                         |

| Line No. | Receipt Point | Delivery Point         | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | St. Clair     | Philipsburg            | 25.08310              | 0.8247                                    | 1.39925                             | 0.0460                                         |
| 2        | St. Clair     | Spruce                 | 44.44848              | 1.4613                                    | 2.65010                             | 0.0871                                         |
| 3        | St. Clair     | St. Clair              | 3.96268               | 0.1303                                    | 0.03504                             | 0.0012                                         |
| 4        | St. Clair     | Welwyn                 | 50.84450              | 1.6716                                    | 3.06321                             | 0.1007                                         |
| 5        | St. Clair     | Dawn Export            | 4.52722               | 0.1488                                    | 0.07153                             | 0.0024                                         |
| 6        | St. Clair     | Union Parkway Belt     | 9.90488               | 0.3256                                    | 0.41887                             | 0.0138                                         |
| 7        | St. Clair     | Union CDA (Amended)    | 9.77683               | 0.3214                                    | 0.41060                             | 0.0135                                         |
| 8        | St. Clair     | Union ECDA             | 10.17803              | 0.3346                                    | 0.43649                             | 0.0144                                         |
| 9        | St. Clair     | Enbridge Parkway CDA   | 9.90488               | 0.3256                                    | 0.41887                             | 0.0138                                         |
| 10       | St. Clair     | Enbridge CDA (Amended) | 11.63042              | 0.3824                                    | 0.53034                             | 0.0174                                         |
| 11       | Steelman      | Empress                | 9.58794               | 0.3152                                    | 0.62283                             | 0.0205                                         |
| 12       | Steelman      | TransGas SSDA          | 3.97150               | 0.1306                                    | 0.12857                             | 0.0042                                         |
| 13       | Steelman      | Centram SSDA           | 6.86869               | 0.2258                                    | 0.38355                             | 0.0126                                         |
| 14       | Steelman      | Centram MDA            | 11.56381              | 0.3802                                    | 0.79671                             | 0.0262                                         |
| 15       | Steelman      | Centrat MDA            | 13.66530              | 0.4493                                    | 0.98162                             | 0.0323                                         |
| 16       | Steelman      | Union WDA              | 22.44963              | 0.7381                                    | 1.75464                             | 0.0577                                         |
| 17       | Steelman      | Nipigon WDA            | 25.03626              | 0.8231                                    | 1.98226                             | 0.0652                                         |
| 18       | Steelman      | Union NDA              | 38.12608              | 1.2535                                    | 3.13414                             | 0.1030                                         |
| 19       | Steelman      | Calstock NDA           | 30.79049              | 1.0123                                    | 2.48863                             | 0.0818                                         |
| 20       | Steelman      | Tunis NDA              | 35.32075              | 1.1612                                    | 2.88729                             | 0.0949                                         |
| 21       | Steelman      | GMIT NDA               | 39.04922              | 1.2838                                    | 3.21539                             | 0.1057                                         |
| 22       | Steelman      | Union SSMDA            | 33.95930              | 1.1165                                    | 2.76747                             | 0.0910                                         |
| 23       | Steelman      | Union NCDA             | 46.70905              | 1.5356                                    | 3.66820                             | 0.1206                                         |
| 24       | Steelman      | Union CDA              | 48.33421              | 1.5891                                    | 3.80352                             | 0.1250                                         |
| 25       | Steelman      | Enbridge CDA           | 49.24489              | 1.6190                                    | 3.87935                             | 0.1275                                         |
| 26       | Steelman      | Union EDA              | 52.28655              | 1.7190                                    | 4.13262                             | 0.1359                                         |
| 27       | Steelman      | Enbridge EDA           | 51.02700              | 1.6776                                    | 4.02775                             | 0.1324                                         |
| 28       | Steelman      | KPUC EDA               | 53.49683              | 1.7588                                    | 4.23340                             | 0.1392                                         |
| 29       | Steelman      | GMIT EDA               | 55.12443              | 1.8123                                    | 4.36891                             | 0.1436                                         |
| 30       | Steelman      | Enbridge SWDA          | 44.06675              | 1.4488                                    | 3.44820                             | 0.1134                                         |
| 31       | Steelman      | Union SWDA             | 44.00045              | 1.4466                                    | 3.44271                             | 0.1132                                         |
| 32       | Steelman      | Chippawa               | 49.62753              | 1.6316                                    | 3.91123                             | 0.1286                                         |
| 33       | Steelman      | Cornwall               | 52.01645              | 1.7101                                    | 4.11014                             | 0.1351                                         |
| 34       | Steelman      | East Hereford          | 58.56668              | 1.9255                                    | 4.65550                             | 0.1531                                         |
| 35       | Steelman      | Emerson 1              | 14.03243              | 0.4613                                    | 1.01393                             | 0.0333                                         |
| 36       | Steelman      | Emerson 2              | 14.03243              | 0.4613                                    | 1.01393                             | 0.0333                                         |
| 37       | Steelman      | Iroquois               | 51.40569              | 1.6901                                    | 4.05926                             | 0.1335                                         |
| 38       | Steelman      | Kirkwall               | 47.53608              | 1.5628                                    | 3.73705                             | 0.1229                                         |
| 39       | Steelman      | Napierville            | 54.84186              | 1.8030                                    | 4.34536                             | 0.1429                                         |
| 40       | Steelman      | Niagara Falls          | 49.58373              | 1.6302                                    | 3.90757                             | 0.1285                                         |
| 41       | Steelman      | North Bay Junction     | 41.14280              | 1.3526                                    | 3.39962                             | 0.1118                                         |
| 42       | Steelman      | Philipsburg            | 55.16275              | 1.8136                                    | 4.37209                             | 0.1437                                         |
| 43       | Steelman      | Spruce                 | 13.66530              | 0.4493                                    | 0.98162                             | 0.0323                                         |
| 44       | Steelman      | St. Clair              | 41.28028              | 1.3572                                    | 3.41172                             | 0.1122                                         |
| 45       | Steelman      | Welwyn                 | 6.86869               | 0.2258                                    | 0.38355                             | 0.0126                                         |
| 46       | Steelman      | Dawn Export            | 44.06675              | 1.4488                                    | 3.44820                             | 0.1134                                         |
| 47       | Steelman      | Union Parkway Belt     | 48.23840              | 1.5859                                    | 3.79555                             | 0.1248                                         |
| 48       | Steelman      | Union CDA (Amended)    | 48.13894              | 1.5827                                    | 3.78728                             | 0.1245                                         |
| 49       | Steelman      | Union ECDA             | 48.45040              | 1.5929                                    | 3.81318                             | 0.1254                                         |
| 50       | Steelman      | Enbridge Parkway CDA   | 48.23840              | 1.5859                                    | 3.79555                             | 0.1248                                         |
| 51       | Steelman      | Enbridge CDA (Amended) | 49.33918              | 1.6221                                    | 3.88719                             | 0.1278                                         |
| 52       | Success       | Empress                | 5.26604               | 0.1731                                    | 0.24249                             | 0.0080                                         |
| 53       | Success       | TransGas SSDA          | 8.14437               | 0.2678                                    | 0.49579                             | 0.0163                                         |
| 54       | Success       | Centram SSDA           | 11.19090              | 0.3679                                    | 0.76389                             | 0.0251                                         |
| 55       | Success       | Centram MDA            | 15.88541              | 0.5223                                    | 1.17699                             | 0.0387                                         |
| 56       | Success       | Centrat MDA            | 17.98720              | 0.5914                                    | 1.36194                             | 0.0448                                         |
| 57       | Success       | Union WDA              | 26.77184              | 0.8802                                    | 2.13499                             | 0.0702                                         |
| 58       | Success       | Nipigon WDA            | 29.35847              | 0.9652                                    | 2.36260                             | 0.0777                                         |
| 59       | Success       | Union NDA              | 42.44798              | 1.3956                                    | 3.51445                             | 0.1155                                         |
| 60       | Success       | Calstock NDA           | 35.11239              | 1.1544                                    | 2.86895                             | 0.0943                                         |
| 61       | Success       | Tunis NDA              | 39.64265              | 1.3033                                    | 3.26761                             | 0.1074                                         |
| 62       | Success       | GMIT NDA               | 43.37113              | 1.4259                                    | 3.59571                             | 0.1182                                         |
| 63       | Success       | Union SSMDA            | 38.28120              | 1.2586                                    | 3.14780                             | 0.1035                                         |
| 64       | Success       | Union NCDA             | 51.27672              | 1.6858                                    | 4.04852                             | 0.1331                                         |
| 65       | Success       | Union CDA              | 52.90188              | 1.7392                                    | 4.18385                             | 0.1376                                         |
| 66       | Success       | Enbridge CDA           | 53.81256              | 1.7692                                    | 4.25967                             | 0.1400                                         |
| 67       | Success       | Union EDA              | 56.85362              | 1.8692                                    | 4.51286                             | 0.1484                                         |
| 68       | Success       | Enbridge EDA           | 55.59498              | 1.8278                                    | 4.40809                             | 0.1449                                         |
| 69       | Success       | KPUC EDA               | 58.06511              | 1.9090                                    | 4.61374                             | 0.1517                                         |
| 70       | Success       | GMIT EDA               | 59.69180              | 1.9625                                    | 4.74918                             | 0.1561                                         |
| 71       | Success       | Enbridge SWDA          | 48.63443              | 1.5989                                    | 3.82852                             | 0.1259                                         |
| 72       | Success       | Union SWDA             | 48.56842              | 1.5968                                    | 3.82301                             | 0.1257                                         |
| 73       | Success       | Chippawa               | 54.19550              | 1.7818                                    | 4.29156                             | 0.1411                                         |
| 74       | Success       | Cornwall               | 56.58473              | 1.8603                                    | 4.49048                             | 0.1476                                         |
| 75       | Success       | East Hereford          | 63.13435              | 2.0757                                    | 5.03583                             | 0.1656                                         |
| 76       | Success       | Emerson 1              | 18.35433              | 0.6034                                    | 1.39426                             | 0.0458                                         |

| Line No. | Receipt Point | Delivery Point         | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Success       | Emerson 2              | 18.35433              | 0.6034                                    | 1.39426                             | 0.0458                                         |
| 2        | Success       | Iroquois               | 55.97336              | 1.8402                                    | 4.43959                             | 0.1460                                         |
| 3        | Success       | Kirkwall               | 52.10375              | 1.7130                                    | 4.11737                             | 0.1354                                         |
| 4        | Success       | Napierville            | 59.40983              | 1.9532                                    | 4.72570                             | 0.1554                                         |
| 5        | Success       | Niagara Falls          | 54.15170              | 1.7803                                    | 4.28790                             | 0.1410                                         |
| 6        | Success       | North Bay Junction     | 45.46501              | 1.4947                                    | 3.77995                             | 0.1243                                         |
| 7        | Success       | Philipsburg            | 59.73073              | 1.9638                                    | 4.75243                             | 0.1562                                         |
| 8        | Success       | Spruce                 | 17.98720              | 0.5914                                    | 1.36194                             | 0.0448                                         |
| 9        | Success       | St. Clair              | 45.60249              | 1.4993                                    | 3.79206                             | 0.1247                                         |
| 10       | Success       | Welwyn                 | 11.19090              | 0.3679                                    | 0.76389                             | 0.0251                                         |
| 11       | Success       | Dawn Export            | 48.63443              | 1.5989                                    | 3.82852                             | 0.1259                                         |
| 12       | Success       | Union Parkway Belt     | 52.80638              | 1.7361                                    | 4.17587                             | 0.1373                                         |
| 13       | Success       | Union CDA (Amended)    | 52.70691              | 1.7328                                    | 4.16762                             | 0.1370                                         |
| 14       | Success       | Union ECDA             | 53.01777              | 1.7431                                    | 4.19349                             | 0.1379                                         |
| 15       | Success       | Enbridge Parkway CDA   | 52.80638              | 1.7361                                    | 4.17587                             | 0.1373                                         |
| 16       | Success       | Enbridge CDA (Amended) | 53.90685              | 1.7723                                    | 4.26751                             | 0.1403                                         |
| 17       | Suffield 2    | Empress                | 2.94403               | 0.0968                                    | 0.03815                             | 0.0013                                         |
| 18       | Suffield 2    | TransGas SSDA          | 10.42105              | 0.3426                                    | 0.69613                             | 0.0229                                         |
| 19       | Suffield 2    | Centram SSDA           | 13.51291              | 0.4443                                    | 0.96823                             | 0.0318                                         |
| 20       | Suffield 2    | Centram MDA            | 18.20711              | 0.5986                                    | 1.38130                             | 0.0454                                         |
| 21       | Suffield 2    | Centrat MDA            | 20.30921              | 0.6677                                    | 1.56628                             | 0.0515                                         |
| 22       | Suffield 2    | Union WDA              | 29.09385              | 0.9565                                    | 2.33931                             | 0.0769                                         |
| 23       | Suffield 2    | Nipigon WDA            | 31.68048              | 1.0416                                    | 2.56693                             | 0.0844                                         |
| 24       | Suffield 2    | Union NDA              | 44.76999              | 1.4719                                    | 3.71880                             | 0.1223                                         |
| 25       | Suffield 2    | Calstock NDA           | 37.43440              | 1.2307                                    | 3.07328                             | 0.1010                                         |
| 26       | Suffield 2    | Tunis NDA              | 41.96466              | 1.3797                                    | 3.47195                             | 0.1141                                         |
| 27       | Suffield 2    | GMIT NDA               | 45.69313              | 1.5022                                    | 3.80005                             | 0.1249                                         |
| 28       | Suffield 2    | Union SSMDA            | 40.60321              | 1.3349                                    | 3.35213                             | 0.1102                                         |
| 29       | Suffield 2    | Union NCDA             | 53.73104              | 1.7665                                    | 4.25289                             | 0.1398                                         |
| 30       | Suffield 2    | Union CDA              | 55.35590              | 1.8199                                    | 4.38817                             | 0.1443                                         |
| 31       | Suffield 2    | Enbridge CDA           | 56.26658              | 1.8499                                    | 4.46398                             | 0.1468                                         |
| 32       | Suffield 2    | Union EDA              | 59.30855              | 1.9499                                    | 4.71728                             | 0.1551                                         |
| 33       | Suffield 2    | Enbridge EDA           | 58.04960              | 1.9085                                    | 4.61245                             | 0.1516                                         |
| 34       | Suffield 2    | KPUC EDA               | 60.51913              | 1.9897                                    | 4.81808                             | 0.1584                                         |
| 35       | Suffield 2    | GMIT EDA               | 62.14673              | 2.0432                                    | 4.95357                             | 0.1629                                         |
| 36       | Suffield 2    | Enbridge SWDA          | 51.08844              | 1.6796                                    | 4.03286                             | 0.1326                                         |
| 37       | Suffield 2    | Union SWDA             | 51.02274              | 1.6775                                    | 4.02737                             | 0.1324                                         |
| 38       | Suffield 2    | Chippawa               | 56.64983              | 1.8625                                    | 4.49590                             | 0.1478                                         |
| 39       | Suffield 2    | Cornwall               | 59.03875              | 1.9410                                    | 4.69482                             | 0.1544                                         |
| 40       | Suffield 2    | East Hereford          | 65.58837              | 2.1563                                    | 5.24016                             | 0.1723                                         |
| 41       | Suffield 2    | Emerson 1              | 20.67634              | 0.6798                                    | 1.59860                             | 0.0526                                         |
| 42       | Suffield 2    | Emerson 2              | 20.67634              | 0.6798                                    | 1.59860                             | 0.0526                                         |
| 43       | Suffield 2    | Iroquois               | 58.42738              | 1.9209                                    | 4.64393                             | 0.1527                                         |
| 44       | Suffield 2    | Kirkwall               | 54.55777              | 1.7937                                    | 4.32171                             | 0.1421                                         |
| 45       | Suffield 2    | Napierville            | 61.86385              | 2.0339                                    | 4.93004                             | 0.1621                                         |
| 46       | Suffield 2    | Niagara Falls          | 56.60572              | 1.8610                                    | 4.49224                             | 0.1477                                         |
| 47       | Suffield 2    | North Bay Junction     | 47.78702              | 1.5711                                    | 3.98428                             | 0.1310                                         |
| 48       | Suffield 2    | Philipsburg            | 62.18505              | 2.0444                                    | 4.95677                             | 0.1630                                         |
| 49       | Suffield 2    | Spruce                 | 20.30921              | 0.6677                                    | 1.56628                             | 0.0515                                         |
| 50       | Suffield 2    | St. Clair              | 47.92450              | 1.5756                                    | 3.99639                             | 0.1314                                         |
| 51       | Suffield 2    | Welwyn                 | 13.51291              | 0.4443                                    | 0.96823                             | 0.0318                                         |
| 52       | Suffield 2    | Dawn Export            | 51.08844              | 1.6796                                    | 4.03286                             | 0.1326                                         |
| 53       | Suffield 2    | Union Parkway Belt     | 55.26039              | 1.8168                                    | 4.38021                             | 0.1440                                         |
| 54       | Suffield 2    | Union CDA (Amended)    | 55.16123              | 1.8135                                    | 4.37195                             | 0.1437                                         |
| 55       | Suffield 2    | Union ECDA             | 55.47179              | 1.8237                                    | 4.39783                             | 0.1446                                         |
| 56       | Suffield 2    | Enbridge Parkway CDA   | 55.26039              | 1.8168                                    | 4.38021                             | 0.1440                                         |
| 57       | Suffield 2    | Enbridge CDA (Amended) | 56.36087              | 1.8530                                    | 4.47187                             | 0.1470                                         |
| 58       | TransGas SSDA | Empress                | -                     | 0.3438                                    | -                                   | 0.0230                                         |
| 59       | TransGas SSDA | TransGas SSDA          | -                     | 0.0956                                    | -                                   | 0.0012                                         |
| 60       | TransGas SSDA | Centram SSDA           | -                     | 0.1973                                    | -                                   | 0.0101                                         |
| 61       | TransGas SSDA | Centram MDA            | -                     | 0.3516                                    | -                                   | 0.0237                                         |
| 62       | TransGas SSDA | Centrat MDA            | -                     | 0.4207                                    | -                                   | 0.0298                                         |
| 63       | TransGas SSDA | Union WDA              | -                     | 0.7095                                    | -                                   | 0.0552                                         |
| 64       | TransGas SSDA | Nipigon WDA            | -                     | 0.7946                                    | -                                   | 0.0627                                         |
| 65       | TransGas SSDA | Union NDA              | -                     | 1.2248                                    | -                                   | 0.1005                                         |
| 66       | TransGas SSDA | Calstock NDA           | -                     | 0.9838                                    | -                                   | 0.0793                                         |
| 67       | TransGas SSDA | Tunis NDA              | -                     | 1.1327                                    | -                                   | 0.0924                                         |
| 68       | TransGas SSDA | GMIT NDA               | -                     | 1.2553                                    | -                                   | 0.1032                                         |
| 69       | TransGas SSDA | Union SSMDA            | -                     | 1.0879                                    | -                                   | 0.0885                                         |
| 70       | TransGas SSDA | Union NCDA             | -                     | 1.5055                                    | -                                   | 0.1181                                         |
| 71       | TransGas SSDA | Union CDA              | -                     | 1.5589                                    | -                                   | 0.1225                                         |
| 72       | TransGas SSDA | Enbridge CDA           | -                     | 1.5888                                    | -                                   | 0.1250                                         |
| 73       | TransGas SSDA | Union EDA              | -                     | 1.6889                                    | -                                   | 0.1334                                         |
| 74       | TransGas SSDA | Enbridge EDA           | -                     | 1.6474                                    | -                                   | 0.1299                                         |
| 75       | TransGas SSDA | KPUC EDA               | -                     | 1.7286                                    | -                                   | 0.1367                                         |
| 76       | TransGas SSDA | GMIT EDA               | -                     | 1.7821                                    | -                                   | 0.1411                                         |

| Line No. | Receipt Point | Delivery Point         | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | TransGas SSDA | Enbridge SWDA          | -                     | 1.4186                                    | -                                   | 0.1109                                         |
| 2        | TransGas SSDA | Union SWDA             | -                     | 1.4164                                    | -                                   | 0.1107                                         |
| 3        | TransGas SSDA | Chippawa               | -                     | 1.6014                                    | -                                   | 0.1261                                         |
| 4        | TransGas SSDA | Cornwall               | -                     | 1.6800                                    | -                                   | 0.1326                                         |
| 5        | TransGas SSDA | East Hereford          | -                     | 1.8953                                    | -                                   | 0.1505                                         |
| 6        | TransGas SSDA | Emerson 1              | -                     | 0.4328                                    | -                                   | 0.0308                                         |
| 7        | TransGas SSDA | Emerson 2              | -                     | 0.4328                                    | -                                   | 0.0308                                         |
| 8        | TransGas SSDA | Iroquois               | -                     | 1.6599                                    | -                                   | 0.1309                                         |
| 9        | TransGas SSDA | Kirkwall               | -                     | 1.5326                                    | -                                   | 0.1203                                         |
| 10       | TransGas SSDA | Napierville            | -                     | 1.7729                                    | -                                   | 0.1403                                         |
| 11       | TransGas SSDA | Niagara Falls          | -                     | 1.6000                                    | -                                   | 0.1260                                         |
| 12       | TransGas SSDA | North Bay Junction     | -                     | 1.3241                                    | -                                   | 0.1093                                         |
| 13       | TransGas SSDA | Philipsburg            | -                     | 1.7834                                    | -                                   | 0.1412                                         |
| 14       | TransGas SSDA | Spruce                 | -                     | 0.4207                                    | -                                   | 0.0298                                         |
| 15       | TransGas SSDA | St. Clair              | -                     | 1.3286                                    | -                                   | 0.1097                                         |
| 16       | TransGas SSDA | Welwyn                 | -                     | 0.1973                                    | -                                   | 0.0101                                         |
| 17       | TransGas SSDA | Dawn Export            | -                     | 1.4186                                    | -                                   | 0.1109                                         |
| 18       | TransGas SSDA | Union Parkway Belt     | -                     | 1.5558                                    | -                                   | 0.1223                                         |
| 19       | TransGas SSDA | Union CDA (Amended)    | -                     | 1.5525                                    | -                                   | 0.1220                                         |
| 20       | TransGas SSDA | Union ECDA             | -                     | 1.5627                                    | -                                   | 0.1229                                         |
| 21       | TransGas SSDA | Enbridge Parkway CDA   | -                     | 1.5558                                    | -                                   | 0.1223                                         |
| 22       | TransGas SSDA | Enbridge CDA (Amended) | -                     | 1.5919                                    | -                                   | 0.1253                                         |
| 23       | Tunis NDA     | Empress                | -                     | 1.3808                                    | -                                   | 0.1142                                         |
| 24       | Tunis NDA     | TransGas SSDA          | -                     | 1.1327                                    | -                                   | 0.0924                                         |
| 25       | Tunis NDA     | Centram SSDA           | -                     | 1.0310                                    | -                                   | 0.0835                                         |
| 26       | Tunis NDA     | Centram MDA            | -                     | 0.8782                                    | -                                   | 0.0700                                         |
| 27       | Tunis NDA     | Centrat MDA            | -                     | 0.8076                                    | -                                   | 0.0638                                         |
| 28       | Tunis NDA     | Union WDA              | -                     | 0.5426                                    | -                                   | 0.0405                                         |
| 29       | Tunis NDA     | Nipigon WDA            | -                     | 0.4338                                    | -                                   | 0.0309                                         |
| 30       | Tunis NDA     | Union NDA              | -                     | 0.2051                                    | -                                   | 0.0108                                         |
| 31       | Tunis NDA     | Calstock NDA           | -                     | 0.2446                                    | -                                   | 0.0143                                         |
| 32       | Tunis NDA     | Tunis NDA              | -                     | 0.0956                                    | -                                   | 0.0012                                         |
| 33       | Tunis NDA     | GMIT NDA               | -                     | 0.2182                                    | -                                   | 0.0119                                         |
| 34       | Tunis NDA     | Union SSMDA            | -                     | 0.9705                                    | -                                   | 0.0781                                         |
| 35       | Tunis NDA     | Union NCDA             | -                     | 0.4094                                    | -                                   | 0.0268                                         |
| 36       | Tunis NDA     | Union CDA              | -                     | 0.5388                                    | -                                   | 0.0376                                         |
| 37       | Tunis NDA     | Enbridge CDA           | -                     | 0.5169                                    | -                                   | 0.0358                                         |
| 38       | Tunis NDA     | Union EDA              | -                     | 0.5949                                    | -                                   | 0.0423                                         |
| 39       | Tunis NDA     | Enbridge EDA           | -                     | 0.5518                                    | -                                   | 0.0387                                         |
| 40       | Tunis NDA     | KPUC EDA               | -                     | 0.6326                                    | -                                   | 0.0454                                         |
| 41       | Tunis NDA     | GMIT EDA               | -                     | 0.6861                                    | -                                   | 0.0499                                         |
| 42       | Tunis NDA     | Enbridge SWDA          | -                     | 0.6578                                    | -                                   | 0.0475                                         |
| 43       | Tunis NDA     | Union SWDA             | -                     | 0.6600                                    | -                                   | 0.0477                                         |
| 44       | Tunis NDA     | Chippawa               | -                     | 0.6023                                    | -                                   | 0.0429                                         |
| 45       | Tunis NDA     | Cornwall               | -                     | 0.5839                                    | -                                   | 0.0414                                         |
| 46       | Tunis NDA     | East Hereford          | -                     | 0.7993                                    | -                                   | 0.0593                                         |
| 47       | Tunis NDA     | Emerson 1              | -                     | 0.8888                                    | -                                   | 0.0709                                         |
| 48       | Tunis NDA     | Emerson 2              | -                     | 0.8888                                    | -                                   | 0.0709                                         |
| 49       | Tunis NDA     | Iroquois               | -                     | 0.5638                                    | -                                   | 0.0397                                         |
| 50       | Tunis NDA     | Kirkwall               | -                     | 0.5438                                    | -                                   | 0.0380                                         |
| 51       | Tunis NDA     | Napierville            | -                     | 0.6768                                    | -                                   | 0.0491                                         |
| 52       | Tunis NDA     | Niagara Falls          | -                     | 0.6009                                    | -                                   | 0.0428                                         |
| 53       | Tunis NDA     | North Bay Junction     | -                     | 0.2870                                    | -                                   | 0.0180                                         |
| 54       | Tunis NDA     | Philipsburg            | -                     | 0.6874                                    | -                                   | 0.0500                                         |
| 55       | Tunis NDA     | Spruce                 | -                     | 0.8076                                    | -                                   | 0.0638                                         |
| 56       | Tunis NDA     | St. Clair              | -                     | 0.6361                                    | -                                   | 0.0487                                         |
| 57       | Tunis NDA     | Welwyn                 | -                     | 1.0310                                    | -                                   | 0.0835                                         |
| 58       | Tunis NDA     | Dawn Export            | -                     | 0.6578                                    | -                                   | 0.0475                                         |
| 59       | Tunis NDA     | Union Parkway Belt     | -                     | 0.5207                                    | -                                   | 0.0361                                         |
| 60       | Tunis NDA     | Union CDA (Amended)    | -                     | 0.5576                                    | -                                   | 0.0392                                         |
| 61       | Tunis NDA     | Union ECDA             | -                     | 0.5276                                    | -                                   | 0.0367                                         |
| 62       | Tunis NDA     | Enbridge Parkway CDA   | -                     | 0.5207                                    | -                                   | 0.0361                                         |
| 63       | Tunis NDA     | Enbridge CDA (Amended) | -                     | 0.5165                                    | -                                   | 0.0357                                         |
| 64       | Union CDA     | Empress                | -                     | 2.3476                                    | -                                   | 0.1444                                         |
| 65       | Union CDA     | TransGas SSDA          | -                     | 2.0095                                    | -                                   | 0.1225                                         |
| 66       | Union CDA     | Centram SSDA           | -                     | 1.8710                                    | -                                   | 0.1136                                         |
| 67       | Union CDA     | Centram MDA            | -                     | 1.6615                                    | -                                   | 0.1001                                         |
| 68       | Union CDA     | Centrat MDA            | -                     | 1.6510                                    | -                                   | 0.0994                                         |
| 69       | Union CDA     | Union WDA              | -                     | 1.3034                                    | -                                   | 0.0769                                         |
| 70       | Union CDA     | Nipigon WDA            | -                     | 1.1552                                    | -                                   | 0.0674                                         |
| 71       | Union CDA     | Union NDA              | -                     | 0.5689                                    | -                                   | 0.0295                                         |
| 72       | Union CDA     | Calstock NDA           | -                     | 0.8975                                    | -                                   | 0.0507                                         |
| 73       | Union CDA     | Tunis NDA              | -                     | 0.6945                                    | -                                   | 0.0376                                         |
| 74       | Union CDA     | GMIT NDA               | -                     | 0.5438                                    | -                                   | 0.0279                                         |
| 75       | Union CDA     | Union SSMDA            | -                     | 0.7853                                    | -                                   | 0.0435                                         |
| 76       | Union CDA     | Union NCDA             | -                     | 0.2971                                    | -                                   | 0.0119                                         |

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|----------|---------------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Union CDA           | Union CDA              | -                     | 0.1303                                    | -                                   | 0.0012                                         |
| 2        | Union CDA           | Enbridge CDA           | -                     | 0.2057                                    | -                                   | 0.0060                                         |
| 3        | Union CDA           | Union EDA              | -                     | 0.4050                                    | -                                   | 0.0189                                         |
| 4        | Union CDA           | Enbridge EDA           | -                     | 0.5121                                    | -                                   | 0.0258                                         |
| 5        | Union CDA           | KPUC EDA               | -                     | 0.3905                                    | -                                   | 0.0180                                         |
| 6        | Union CDA           | GMIT EDA               | -                     | 0.6510                                    | -                                   | 0.0348                                         |
| 7        | Union CDA           | Enbridge SWDA          | -                     | 0.3111                                    | -                                   | 0.0128                                         |
| 8        | Union CDA           | Union SWDA             | -                     | 0.3139                                    | -                                   | 0.0130                                         |
| 9        | Union CDA           | Chippawa               | -                     | 0.2142                                    | -                                   | 0.0066                                         |
| 10       | Union CDA           | Cornwall               | -                     | 0.5193                                    | -                                   | 0.0263                                         |
| 11       | Union CDA           | East Hereford          | -                     | 0.7969                                    | -                                   | 0.0442                                         |
| 12       | Union CDA           | Emerson 1              | -                     | 1.5502                                    | -                                   | 0.0929                                         |
| 13       | Union CDA           | Emerson 2              | -                     | 1.5502                                    | -                                   | 0.0929                                         |
| 14       | Union CDA           | Iroquois               | -                     | 0.4863                                    | -                                   | 0.0241                                         |
| 15       | Union CDA           | Kirkwall               | -                     | 0.1641                                    | -                                   | 0.0033                                         |
| 16       | Union CDA           | Napierville            | -                     | 0.6390                                    | -                                   | 0.0340                                         |
| 17       | Union CDA           | Niagara Falls          | -                     | 0.2123                                    | -                                   | 0.0065                                         |
| 18       | Union CDA           | North Bay Junction     | -                     | 0.4338                                    | -                                   | 0.0208                                         |
| 19       | Union CDA           | Philipsburg            | -                     | 0.6526                                    | -                                   | 0.0349                                         |
| 20       | Union CDA           | Spruce                 | -                     | 1.6510                                    | -                                   | 0.0994                                         |
| 21       | Union CDA           | St. Clair              | -                     | 0.3297                                    | -                                   | 0.0140                                         |
| 22       | Union CDA           | Welwyn                 | -                     | 1.8710                                    | -                                   | 0.1136                                         |
| 23       | Union CDA           | Dawn Export            | -                     | 0.3111                                    | -                                   | 0.0128                                         |
| 24       | Union CDA           | Union Parkway Belt     | -                     | 0.1536                                    | -                                   | 0.0027                                         |
| 25       | Union CDA           | Union CDA (Amended)    | -                     | 0.1582                                    | -                                   | 0.0030                                         |
| 26       | Union CDA           | Union ECDA             | -                     | 0.1459                                    | -                                   | 0.0022                                         |
| 27       | Union CDA           | Enbridge Parkway CDA   | -                     | 0.1536                                    | -                                   | 0.0027                                         |
| 28       | Union CDA           | Enbridge CDA (Amended) | -                     | 0.2105                                    | -                                   | 0.0063                                         |
| 29       | Union CDA (Amended) | Empress                | -                     | 2.3393                                    | -                                   | 0.1438                                         |
| 30       | Union CDA (Amended) | TransGas SSDA          | -                     | 2.0013                                    | -                                   | 0.1220                                         |
| 31       | Union CDA (Amended) | Centram SSDA           | -                     | 1.8628                                    | -                                   | 0.1131                                         |
| 32       | Union CDA (Amended) | Centram MDA            | -                     | 1.6532                                    | -                                   | 0.0995                                         |
| 33       | Union CDA (Amended) | Centrat MDA            | -                     | 1.6525                                    | -                                   | 0.0995                                         |
| 34       | Union CDA (Amended) | Union WDA              | -                     | 1.3276                                    | -                                   | 0.0785                                         |
| 35       | Union CDA (Amended) | Nipigon WDA            | -                     | 1.1794                                    | -                                   | 0.0689                                         |
| 36       | Union CDA (Amended) | Union NDA              | -                     | 0.5932                                    | -                                   | 0.0311                                         |
| 37       | Union CDA (Amended) | Calstock NDA           | -                     | 0.9217                                    | -                                   | 0.0523                                         |
| 38       | Union CDA (Amended) | Tunis NDA              | -                     | 0.7187                                    | -                                   | 0.0392                                         |
| 39       | Union CDA (Amended) | GMIT NDA               | -                     | 0.5679                                    | -                                   | 0.0294                                         |
| 40       | Union CDA (Amended) | Union SSMDA            | -                     | 0.7771                                    | -                                   | 0.0429                                         |
| 41       | Union CDA (Amended) | Union NCDA             | -                     | 0.3213                                    | -                                   | 0.0135                                         |
| 42       | Union CDA (Amended) | Union CDA              | -                     | 0.1582                                    | -                                   | 0.0030                                         |
| 43       | Union CDA (Amended) | Enbridge CDA           | -                     | 0.2226                                    | -                                   | 0.0071                                         |
| 44       | Union CDA (Amended) | Union EDA              | -                     | 0.4292                                    | -                                   | 0.0205                                         |
| 45       | Union CDA (Amended) | Enbridge EDA           | -                     | 0.5363                                    | -                                   | 0.0274                                         |
| 46       | Union CDA (Amended) | KPUC EDA               | -                     | 0.4147                                    | -                                   | 0.0195                                         |
| 47       | Union CDA (Amended) | GMIT EDA               | -                     | 0.6752                                    | -                                   | 0.0364                                         |
| 48       | Union CDA (Amended) | Enbridge SWDA          | -                     | 0.3029                                    | -                                   | 0.0123                                         |
| 49       | Union CDA (Amended) | Union SWDA             | -                     | 0.3057                                    | -                                   | 0.0125                                         |
| 50       | Union CDA (Amended) | Chippawa               | -                     | 0.1934                                    | -                                   | 0.0052                                         |
| 51       | Union CDA (Amended) | Cornwall               | -                     | 0.5435                                    | -                                   | 0.0278                                         |
| 52       | Union CDA (Amended) | East Hereford          | -                     | 0.8211                                    | -                                   | 0.0458                                         |
| 53       | Union CDA (Amended) | Emerson 1              | -                     | 1.5419                                    | -                                   | 0.0923                                         |
| 54       | Union CDA (Amended) | Emerson 2              | -                     | 1.5419                                    | -                                   | 0.0923                                         |
| 55       | Union CDA (Amended) | Iroquois               | -                     | 0.5105                                    | -                                   | 0.0257                                         |
| 56       | Union CDA (Amended) | Kirkwall               | -                     | 0.1559                                    | -                                   | 0.0028                                         |
| 57       | Union CDA (Amended) | Napierville            | -                     | 0.6632                                    | -                                   | 0.0356                                         |
| 58       | Union CDA (Amended) | Niagara Falls          | -                     | 0.1915                                    | -                                   | 0.0051                                         |
| 59       | Union CDA (Amended) | North Bay Junction     | -                     | 0.4579                                    | -                                   | 0.0223                                         |
| 60       | Union CDA (Amended) | Philipsburg            | -                     | 0.6768                                    | -                                   | 0.0365                                         |
| 61       | Union CDA (Amended) | Spruce                 | -                     | 1.6525                                    | -                                   | 0.0995                                         |
| 62       | Union CDA (Amended) | St. Clair              | -                     | 0.3214                                    | -                                   | 0.0135                                         |
| 63       | Union CDA (Amended) | Welwyn                 | -                     | 1.8628                                    | -                                   | 0.1131                                         |
| 64       | Union CDA (Amended) | Dawn Export            | -                     | 0.3029                                    | -                                   | 0.0123                                         |
| 65       | Union CDA (Amended) | Union Parkway Belt     | -                     | 0.1778                                    | -                                   | 0.0042                                         |
| 66       | Union CDA (Amended) | Union CDA (Amended)    | -                     | 0.1303                                    | -                                   | 0.0012                                         |
| 67       | Union CDA (Amended) | Union ECDA             | -                     | 0.1719                                    | -                                   | 0.0038                                         |
| 68       | Union CDA (Amended) | Enbridge Parkway CDA   | -                     | 0.1778                                    | -                                   | 0.0042                                         |
| 69       | Union CDA (Amended) | Enbridge CDA (Amended) | -                     | 0.2268                                    | -                                   | 0.0074                                         |
| 70       | Union ECDA          | Empress                | -                     | 2.3525                                    | -                                   | 0.1447                                         |
| 71       | Union ECDA          | TransGas SSDA          | -                     | 2.0144                                    | -                                   | 0.1229                                         |
| 72       | Union ECDA          | Centram SSDA           | -                     | 1.8759                                    | -                                   | 0.1139                                         |
| 73       | Union ECDA          | Centram MDA            | -                     | 1.6664                                    | -                                   | 0.1004                                         |
| 74       | Union ECDA          | Centrat MDA            | -                     | 1.6501                                    | -                                   | 0.0993                                         |
| 75       | Union ECDA          | Union WDA              | -                     | 1.2891                                    | -                                   | 0.0760                                         |
| 76       | Union ECDA          | Nipigon WDA            | -                     | 1.1408                                    | -                                   | 0.0664                                         |

| Line No. | Receipt Point | Delivery Point         | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Union ECDA    | Union NDA              | -                     | 0.5545                                    | -                                   | 0.0286                                         |
| 2        | Union ECDA    | Calstock NDA           | -                     | 0.8831                                    | -                                   | 0.0498                                         |
| 3        | Union ECDA    | Tunis NDA              | -                     | 0.6802                                    | -                                   | 0.0367                                         |
| 4        | Union ECDA    | GMIT NDA               | -                     | 0.5294                                    | -                                   | 0.0269                                         |
| 5        | Union ECDA    | Union SSMDA            | -                     | 0.7902                                    | -                                   | 0.0438                                         |
| 6        | Union ECDA    | Union NCDA             | -                     | 0.2827                                    | -                                   | 0.0110                                         |
| 7        | Union ECDA    | Union CDA              | -                     | 0.1459                                    | -                                   | 0.0022                                         |
| 8        | Union ECDA    | Enbridge CDA           | -                     | 0.1957                                    | -                                   | 0.0054                                         |
| 9        | Union ECDA    | Union EDA              | -                     | 0.3907                                    | -                                   | 0.0180                                         |
| 10       | Union ECDA    | Enbridge EDA           | -                     | 0.4977                                    | -                                   | 0.0249                                         |
| 11       | Union ECDA    | KPUC EDA               | -                     | 0.3761                                    | -                                   | 0.0170                                         |
| 12       | Union ECDA    | GMIT EDA               | -                     | 0.6366                                    | -                                   | 0.0339                                         |
| 13       | Union ECDA    | Enbridge SWDA          | -                     | 0.3161                                    | -                                   | 0.0132                                         |
| 14       | Union ECDA    | Union SWDA             | -                     | 0.3188                                    | -                                   | 0.0133                                         |
| 15       | Union ECDA    | Chippawa               | -                     | 0.2266                                    | -                                   | 0.0074                                         |
| 16       | Union ECDA    | Cornwall               | -                     | 0.5049                                    | -                                   | 0.0254                                         |
| 17       | Union ECDA    | East Hereford          | -                     | 0.7825                                    | -                                   | 0.0433                                         |
| 18       | Union ECDA    | Emerson 1              | -                     | 1.5551                                    | -                                   | 0.0932                                         |
| 19       | Union ECDA    | Emerson 2              | -                     | 1.5551                                    | -                                   | 0.0932                                         |
| 20       | Union ECDA    | Iroquois               | -                     | 0.4719                                    | -                                   | 0.0232                                         |
| 21       | Union ECDA    | Kirkwall               | -                     | 0.1690                                    | -                                   | 0.0037                                         |
| 22       | Union ECDA    | Napierville            | -                     | 0.6246                                    | -                                   | 0.0331                                         |
| 23       | Union ECDA    | Niagara Falls          | -                     | 0.2247                                    | -                                   | 0.0073                                         |
| 24       | Union ECDA    | North Bay Junction     | -                     | 0.4194                                    | -                                   | 0.0198                                         |
| 25       | Union ECDA    | Philipsburg            | -                     | 0.6383                                    | -                                   | 0.0340                                         |
| 26       | Union ECDA    | Spruce                 | -                     | 1.6501                                    | -                                   | 0.0993                                         |
| 27       | Union ECDA    | St. Clair              | -                     | 0.3346                                    | -                                   | 0.0144                                         |
| 28       | Union ECDA    | Welwyn                 | -                     | 1.8759                                    | -                                   | 0.1139                                         |
| 29       | Union ECDA    | Dawn Export            | -                     | 0.3161                                    | -                                   | 0.0132                                         |
| 30       | Union ECDA    | Union Parkway Belt     | -                     | 0.1393                                    | -                                   | 0.0017                                         |
| 31       | Union ECDA    | Union CDA (Amended)    | -                     | 0.1719                                    | -                                   | 0.0038                                         |
| 32       | Union ECDA    | Union ECDA             | -                     | 0.1303                                    | -                                   | 0.0012                                         |
| 33       | Union ECDA    | Enbridge Parkway CDA   | -                     | 0.1393                                    | -                                   | 0.0017                                         |
| 34       | Union ECDA    | Enbridge CDA (Amended) | -                     | 0.2009                                    | -                                   | 0.0057                                         |
| 35       | Union Dawn    | Empress                | 65.90470              | 2.1667                                    | 4.03598                             | 0.1327                                         |
| 36       | Union Dawn    | TransGas SSDA          | 55.62205              | 1.8287                                    | 3.37181                             | 0.1109                                         |
| 37       | Union Dawn    | Centram SSDA           | 51.40903              | 1.6902                                    | 3.09969                             | 0.1019                                         |
| 38       | Union Dawn    | Centram MDA            | 45.03613              | 1.4806                                    | 2.68805                             | 0.0884                                         |
| 39       | Union Dawn    | Centrat MDA            | 45.01332              | 1.4799                                    | 2.68658                             | 0.0883                                         |
| 40       | Union Dawn    | Union WDA              | 43.98311              | 1.4460                                    | 2.62003                             | 0.0861                                         |
| 41       | Union Dawn    | Nipigon WDA            | 39.80386              | 1.3086                                    | 2.35010                             | 0.0773                                         |
| 42       | Union Dawn    | Union NDA              | 21.97209              | 0.7224                                    | 1.19830                             | 0.0394                                         |
| 43       | Union Dawn    | Calstock NDA           | 31.96457              | 1.0509                                    | 1.84374                             | 0.0606                                         |
| 44       | Union Dawn    | Tunis NDA              | 25.79242              | 0.8480                                    | 1.44508                             | 0.0475                                         |
| 45       | Union Dawn    | GMIT NDA               | 21.20620              | 0.6972                                    | 1.14883                             | 0.0378                                         |
| 46       | Union Dawn    | Union SSMDA            | 18.38596              | 0.6045                                    | 0.96666                             | 0.0318                                         |
| 47       | Union Dawn    | Union NCDA             | 13.70301              | 0.4505                                    | 0.66418                             | 0.0218                                         |
| 48       | Union Dawn    | Union CDA              | 9.46323               | 0.3111                                    | 0.39035                             | 0.0128                                         |
| 49       | Union Dawn    | Enbridge CDA           | 10.91806              | 0.3590                                    | 0.48430                             | 0.0159                                         |
| 50       | Union Dawn    | Union EDA              | 16.98558              | 0.5584                                    | 0.87623                             | 0.0288                                         |
| 51       | Union Dawn    | Enbridge EDA           | 20.24351              | 0.6655                                    | 1.08668                             | 0.0357                                         |
| 52       | Union Dawn    | KPUC EDA               | 16.54332              | 0.5439                                    | 0.84766                             | 0.0279                                         |
| 53       | Union Dawn    | GMIT EDA               | 24.46899              | 0.8045                                    | 1.35959                             | 0.0447                                         |
| 54       | Union Dawn    | Enbridge SWDA          | 3.96268               | 0.1303                                    | 0.03504                             | 0.0012                                         |
| 55       | Union Dawn    | Union SWDA             | 4.04755               | 0.1331                                    | 0.04054                             | 0.0013                                         |
| 56       | Union Dawn    | Chippawa               | 11.13098              | 0.3660                                    | 0.49807                             | 0.0164                                         |
| 57       | Union Dawn    | Cornwall               | 20.46281              | 0.6728                                    | 1.10082                             | 0.0362                                         |
| 58       | Union Dawn    | East Hereford          | 28.90587              | 0.9503                                    | 1.64617                             | 0.0541                                         |
| 59       | Union Dawn    | Emerson 1              | 41.64985              | 1.3693                                    | 2.46932                             | 0.0812                                         |
| 60       | Union Dawn    | Emerson 2              | 41.64985              | 1.3693                                    | 2.46932                             | 0.0812                                         |
| 61       | Union Dawn    | Iroquois               | 19.45876              | 0.6397                                    | 1.03597                             | 0.0341                                         |
| 62       | Union Dawn    | Kirkwall               | 8.43454               | 0.2773                                    | 0.32389                             | 0.0106                                         |
| 63       | Union Dawn    | Napierville            | 24.10430              | 0.7925                                    | 1.33604                             | 0.0439                                         |
| 64       | Union Dawn    | Niagara Falls          | 11.07440              | 0.3641                                    | 0.49441                             | 0.0163                                         |
| 65       | Union Dawn    | North Bay Junction     | 17.86067              | 0.5872                                    | 0.93274                             | 0.0307                                         |
| 66       | Union Dawn    | Philipsburg            | 24.51827              | 0.8061                                    | 1.36277                             | 0.0448                                         |
| 67       | Union Dawn    | Spruce                 | 45.01332              | 1.4799                                    | 2.68658                             | 0.0883                                         |
| 68       | Union Dawn    | St. Clair              | 4.52722               | 0.1488                                    | 0.07153                             | 0.0024                                         |
| 69       | Union Dawn    | Welwyn                 | 51.40903              | 1.6902                                    | 3.09969                             | 0.1019                                         |
| 70       | Union Dawn    | Dawn Export            | 3.96268               | 0.1303                                    | 0.03504                             | 0.0012                                         |
| 71       | Union Dawn    | Union Parkway Belt     | 9.34035               | 0.3071                                    | 0.38239                             | 0.0126                                         |
| 72       | Union Dawn    | Union CDA (Amended)    | 9.21230               | 0.3029                                    | 0.37414                             | 0.0123                                         |
| 73       | Union Dawn    | Union ECDA             | 9.61319               | 0.3161                                    | 0.40002                             | 0.0132                                         |
| 74       | Union Dawn    | Enbridge Parkway CDA   | 9.34035               | 0.3071                                    | 0.38239                             | 0.0126                                         |
| 75       | Union Dawn    | Enbridge CDA (Amended) | 11.06558              | 0.3638                                    | 0.49384                             | 0.0162                                         |
| 76       | Union EDA     | Empress                | -                     | 2.5151                                    | -                                   | 0.1552                                         |

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|----------|---------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Union EDA     | TransGas SSDA          | -                     | 2.1770                                    | -                                   | 0.1334                                         |
| 2        | Union EDA     | Centram SSDA           | -                     | 2.0385                                    | -                                   | 0.1244                                         |
| 3        | Union EDA     | Centram MDA            | -                     | 1.8291                                    | -                                   | 0.1109                                         |
| 4        | Union EDA     | Centrat MDA            | -                     | 1.7369                                    | -                                   | 0.1049                                         |
| 5        | Union EDA     | Union WDA              | -                     | 1.3757                                    | -                                   | 0.0816                                         |
| 6        | Union EDA     | Nipigon WDA            | -                     | 1.2276                                    | -                                   | 0.0720                                         |
| 7        | Union EDA     | Union NDA              | -                     | 0.6413                                    | -                                   | 0.0342                                         |
| 8        | Union EDA     | Calstock NDA           | -                     | 0.9698                                    | -                                   | 0.0554                                         |
| 9        | Union EDA     | Tunis NDA              | -                     | 0.7669                                    | -                                   | 0.0423                                         |
| 10       | Union EDA     | GMIT NDA               | -                     | 0.6161                                    | -                                   | 0.0325                                         |
| 11       | Union EDA     | Union SSMDA            | -                     | 1.0326                                    | -                                   | 0.0594                                         |
| 12       | Union EDA     | Union NCDA             | -                     | 0.4492                                    | -                                   | 0.0218                                         |
| 13       | Union EDA     | Union CDA              | -                     | 0.4050                                    | -                                   | 0.0189                                         |
| 14       | Union EDA     | Enbridge CDA           | -                     | 0.3605                                    | -                                   | 0.0160                                         |
| 15       | Union EDA     | Union EDA              | -                     | 0.1303                                    | -                                   | 0.0012                                         |
| 16       | Union EDA     | Enbridge EDA           | -                     | 0.2679                                    | -                                   | 0.0100                                         |
| 17       | Union EDA     | KPUC EDA               | -                     | 0.1933                                    | -                                   | 0.0052                                         |
| 18       | Union EDA     | GMIT EDA               | -                     | 0.3772                                    | -                                   | 0.0171                                         |
| 19       | Union EDA     | Enbridge SWDA          | -                     | 0.5584                                    | -                                   | 0.0288                                         |
| 20       | Union EDA     | Union SWDA             | -                     | 0.5613                                    | -                                   | 0.0290                                         |
| 21       | Union EDA     | Chippawa               | -                     | 0.4869                                    | -                                   | 0.0242                                         |
| 22       | Union EDA     | Cornwall               | -                     | 0.2459                                    | -                                   | 0.0086                                         |
| 23       | Union EDA     | East Hereford          | -                     | 0.5235                                    | -                                   | 0.0266                                         |
| 24       | Union EDA     | Emerson 1              | -                     | 1.7746                                    | -                                   | 0.1074                                         |
| 25       | Union EDA     | Emerson 2              | -                     | 1.7746                                    | -                                   | 0.1074                                         |
| 26       | Union EDA     | Iroquois               | -                     | 0.2179                                    | -                                   | 0.0068                                         |
| 27       | Union EDA     | Kirkwall               | -                     | 0.4114                                    | -                                   | 0.0193                                         |
| 28       | Union EDA     | Napierville            | -                     | 0.3656                                    | -                                   | 0.0164                                         |
| 29       | Union EDA     | Niagara Falls          | -                     | 0.4851                                    | -                                   | 0.0241                                         |
| 30       | Union EDA     | North Bay Junction     | -                     | 0.5061                                    | -                                   | 0.0254                                         |
| 31       | Union EDA     | Philipsburg            | -                     | 0.3792                                    | -                                   | 0.0172                                         |
| 32       | Union EDA     | Spruce                 | -                     | 1.7369                                    | -                                   | 0.1049                                         |
| 33       | Union EDA     | St. Clair              | -                     | 0.5770                                    | -                                   | 0.0300                                         |
| 34       | Union EDA     | Welwyn                 | -                     | 2.0385                                    | -                                   | 0.1244                                         |
| 35       | Union EDA     | Dawn Export            | -                     | 0.5584                                    | -                                   | 0.0288                                         |
| 36       | Union EDA     | Union Parkway Belt     | -                     | 0.3817                                    | -                                   | 0.0174                                         |
| 37       | Union EDA     | Union CDA (Amended)    | -                     | 0.4292                                    | -                                   | 0.0205                                         |
| 38       | Union EDA     | Union ECDA             | -                     | 0.3907                                    | -                                   | 0.0180                                         |
| 39       | Union EDA     | Enbridge Parkway CDA   | -                     | 0.3817                                    | -                                   | 0.0174                                         |
| 40       | Union EDA     | Enbridge CDA (Amended) | -                     | 0.3584                                    | -                                   | 0.0159                                         |
| 41       | Union NCDA    | Empress                | -                     | 2.2787                                    | -                                   | 0.1399                                         |
| 42       | Union NCDA    | TransGas SSDA          | -                     | 1.9407                                    | -                                   | 0.1181                                         |
| 43       | Union NCDA    | Centram SSDA           | -                     | 1.8022                                    | -                                   | 0.1091                                         |
| 44       | Union NCDA    | Centram MDA            | -                     | 1.5938                                    | -                                   | 0.0957                                         |
| 45       | Union NCDA    | Centrat MDA            | -                     | 1.4977                                    | -                                   | 0.0895                                         |
| 46       | Union NCDA    | Union WDA              | -                     | 1.1367                                    | -                                   | 0.0662                                         |
| 47       | Union NCDA    | Nipigon WDA            | -                     | 0.9884                                    | -                                   | 0.0566                                         |
| 48       | Union NCDA    | Union NDA              | -                     | 0.4020                                    | -                                   | 0.0187                                         |
| 49       | Union NCDA    | Calstock NDA           | -                     | 0.7307                                    | -                                   | 0.0399                                         |
| 50       | Union NCDA    | Tunis NDA              | -                     | 0.5278                                    | -                                   | 0.0268                                         |
| 51       | Union NCDA    | GMIT NDA               | -                     | 0.3769                                    | -                                   | 0.0171                                         |
| 52       | Union NCDA    | Union SSMDA            | -                     | 0.9247                                    | -                                   | 0.0525                                         |
| 53       | Union NCDA    | Union NCDA             | -                     | 0.1303                                    | -                                   | 0.0012                                         |
| 54       | Union NCDA    | Union CDA              | -                     | 0.2971                                    | -                                   | 0.0119                                         |
| 55       | Union NCDA    | Enbridge CDA           | -                     | 0.2688                                    | -                                   | 0.0101                                         |
| 56       | Union NCDA    | Union EDA              | -                     | 0.4492                                    | -                                   | 0.0218                                         |
| 57       | Union NCDA    | Enbridge EDA           | -                     | 0.5238                                    | -                                   | 0.0266                                         |
| 58       | Union NCDA    | KPUC EDA               | -                     | 0.4380                                    | -                                   | 0.0210                                         |
| 59       | Union NCDA    | GMIT EDA               | -                     | 0.6888                                    | -                                   | 0.0372                                         |
| 60       | Union NCDA    | Enbridge SWDA          | -                     | 0.4505                                    | -                                   | 0.0218                                         |
| 61       | Union NCDA    | Union SWDA             | -                     | 0.4533                                    | -                                   | 0.0220                                         |
| 62       | Union NCDA    | Chippawa               | -                     | 0.3790                                    | -                                   | 0.0172                                         |
| 63       | Union NCDA    | Cornwall               | -                     | 0.5572                                    | -                                   | 0.0287                                         |
| 64       | Union NCDA    | East Hereford          | -                     | 0.8348                                    | -                                   | 0.0467                                         |
| 65       | Union NCDA    | Emerson 1              | -                     | 1.6082                                    | -                                   | 0.0966                                         |
| 66       | Union NCDA    | Emerson 2              | -                     | 1.6082                                    | -                                   | 0.0966                                         |
| 67       | Union NCDA    | Iroquois               | -                     | 0.5260                                    | -                                   | 0.0267                                         |
| 68       | Union NCDA    | Kirkwall               | -                     | 0.3035                                    | -                                   | 0.0123                                         |
| 69       | Union NCDA    | Napierville            | -                     | 0.6769                                    | -                                   | 0.0365                                         |
| 70       | Union NCDA    | Niagara Falls          | -                     | 0.3771                                    | -                                   | 0.0171                                         |
| 71       | Union NCDA    | North Bay Junction     | -                     | 0.2670                                    | -                                   | 0.0100                                         |
| 72       | Union NCDA    | Philipsburg            | -                     | 0.6905                                    | -                                   | 0.0373                                         |
| 73       | Union NCDA    | Spruce                 | -                     | 1.4977                                    | -                                   | 0.0895                                         |
| 74       | Union NCDA    | St. Clair              | -                     | 0.4691                                    | -                                   | 0.0230                                         |
| 75       | Union NCDA    | Welwyn                 | -                     | 1.8022                                    | -                                   | 0.1091                                         |
| 76       | Union NCDA    | Dawn Export            | -                     | 0.4505                                    | -                                   | 0.0218                                         |

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|----------|--------------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Union NCDA         | Union Parkway Belt     | -                     | 0.2737                                    | -                                   | 0.0104                                         |
| 2        | Union NCDA         | Union CDA (Amended)    | -                     | 0.3213                                    | -                                   | 0.0135                                         |
| 3        | Union NCDA         | Union ECDA             | -                     | 0.2827                                    | -                                   | 0.0110                                         |
| 4        | Union NCDA         | Enbridge Parkway CDA   | -                     | 0.2737                                    | -                                   | 0.0104                                         |
| 5        | Union NCDA         | Enbridge CDA (Amended) | -                     | 0.2683                                    | -                                   | 0.0101                                         |
| 6        | Union NDA          | Empress                | -                     | 1.4730                                    | -                                   | 0.1224                                         |
| 7        | Union NDA          | TransGas SSDA          | -                     | 1.2248                                    | -                                   | 0.1005                                         |
| 8        | Union NDA          | Centram SSDA           | -                     | 1.1232                                    | -                                   | 0.0916                                         |
| 9        | Union NDA          | Centram MDA            | -                     | 0.9702                                    | -                                   | 0.0781                                         |
| 10       | Union NDA          | Centrat MDA            | -                     | 0.8998                                    | -                                   | 0.0719                                         |
| 11       | Union NDA          | Union WDA              | -                     | 0.6346                                    | -                                   | 0.0486                                         |
| 12       | Union NDA          | Nipigon WDA            | -                     | 0.5260                                    | -                                   | 0.0390                                         |
| 13       | Union NDA          | Union NDA              | -                     | 0.0956                                    | -                                   | 0.0012                                         |
| 14       | Union NDA          | Calstock NDA           | -                     | 0.3368                                    | -                                   | 0.0224                                         |
| 15       | Union NDA          | Tunis NDA              | -                     | 0.2051                                    | -                                   | 0.0108                                         |
| 16       | Union NDA          | GMIT NDA               | -                     | 0.1905                                    | -                                   | 0.0095                                         |
| 17       | Union NDA          | Union SSMDA            | -                     | 0.8783                                    | -                                   | 0.0700                                         |
| 18       | Union NDA          | Union NCDA             | -                     | 0.3118                                    | -                                   | 0.0187                                         |
| 19       | Union NDA          | Union CDA              | -                     | 0.4413                                    | -                                   | 0.0295                                         |
| 20       | Union NDA          | Enbridge CDA           | -                     | 0.4193                                    | -                                   | 0.0277                                         |
| 21       | Union NDA          | Union EDA              | -                     | 0.4975                                    | -                                   | 0.0342                                         |
| 22       | Union NDA          | Enbridge EDA           | -                     | 0.4547                                    | -                                   | 0.0306                                         |
| 23       | Union NDA          | KPUC EDA               | -                     | 0.5356                                    | -                                   | 0.0373                                         |
| 24       | Union NDA          | GMIT EDA               | -                     | 0.5888                                    | -                                   | 0.0418                                         |
| 25       | Union NDA          | Enbridge SWDA          | -                     | 0.5604                                    | -                                   | 0.0394                                         |
| 26       | Union NDA          | Union SWDA             | -                     | 0.5626                                    | -                                   | 0.0396                                         |
| 27       | Union NDA          | Chippawa               | -                     | 0.5049                                    | -                                   | 0.0348                                         |
| 28       | Union NDA          | Cornwall               | -                     | 0.4869                                    | -                                   | 0.0333                                         |
| 29       | Union NDA          | East Hereford          | -                     | 0.7022                                    | -                                   | 0.0512                                         |
| 30       | Union NDA          | Emerson 1              | -                     | 0.9810                                    | -                                   | 0.0791                                         |
| 31       | Union NDA          | Emerson 2              | -                     | 0.9810                                    | -                                   | 0.0791                                         |
| 32       | Union NDA          | Iroquois               | -                     | 0.4668                                    | -                                   | 0.0316                                         |
| 33       | Union NDA          | Kirkwall               | -                     | 0.4463                                    | -                                   | 0.0299                                         |
| 34       | Union NDA          | Napierville            | -                     | 0.5798                                    | -                                   | 0.0410                                         |
| 35       | Union NDA          | Niagara Falls          | -                     | 0.5034                                    | -                                   | 0.0347                                         |
| 36       | Union NDA          | North Bay Junction     | -                     | 0.1952                                    | -                                   | 0.0099                                         |
| 37       | Union NDA          | Philipsburg            | -                     | 0.5903                                    | -                                   | 0.0419                                         |
| 38       | Union NDA          | Spruce                 | -                     | 0.8998                                    | -                                   | 0.0719                                         |
| 39       | Union NDA          | St. Clair              | -                     | 0.5438                                    | -                                   | 0.0406                                         |
| 40       | Union NDA          | Welwyn                 | -                     | 1.1232                                    | -                                   | 0.0916                                         |
| 41       | Union NDA          | Dawn Export            | -                     | 0.5604                                    | -                                   | 0.0394                                         |
| 42       | Union NDA          | Union Parkway Belt     | -                     | 0.4232                                    | -                                   | 0.0280                                         |
| 43       | Union NDA          | Union CDA (Amended)    | -                     | 0.4602                                    | -                                   | 0.0311                                         |
| 44       | Union NDA          | Union ECDA             | -                     | 0.4302                                    | -                                   | 0.0286                                         |
| 45       | Union NDA          | Enbridge Parkway CDA   | -                     | 0.4232                                    | -                                   | 0.0280                                         |
| 46       | Union NDA          | Enbridge CDA (Amended) | -                     | 0.4190                                    | -                                   | 0.0276                                         |
| 47       | Union Parkway Belt | Empress                | 71.28237              | 2.3435                                    | 4.38333                             | 0.1441                                         |
| 48       | Union Parkway Belt | TransGas SSDA          | 60.99971              | 2.0055                                    | 3.71915                             | 0.1223                                         |
| 49       | Union Parkway Belt | Centram SSDA           | 56.78670              | 1.8670                                    | 3.44704                             | 0.1133                                         |
| 50       | Union Parkway Belt | Centram MDA            | 50.41380              | 1.6574                                    | 3.03541                             | 0.0998                                         |
| 51       | Union Parkway Belt | Centrat MDA            | 49.91831              | 1.6412                                    | 3.00341                             | 0.0987                                         |
| 52       | Union Parkway Belt | Union WDA              | 38.93577              | 1.2801                                    | 2.29401                             | 0.0754                                         |
| 53       | Union Parkway Belt | Nipigon WDA            | 34.42680              | 1.1318                                    | 2.00276                             | 0.0658                                         |
| 54       | Union Parkway Belt | Union NDA              | 16.59381              | 0.5456                                    | 0.85092                             | 0.0280                                         |
| 55       | Union Parkway Belt | Calstock NDA           | 26.58690              | 0.8741                                    | 1.49639                             | 0.0492                                         |
| 56       | Union Parkway Belt | Tunis NDA              | 20.41506              | 0.6712                                    | 1.09773                             | 0.0361                                         |
| 57       | Union Parkway Belt | GMIT NDA               | 15.82823              | 0.5204                                    | 0.80147                             | 0.0263                                         |
| 58       | Union Parkway Belt | Union SSMDA            | 23.76363              | 0.7813                                    | 1.31401                             | 0.0432                                         |
| 59       | Union Parkway Belt | Union NCDA             | 8.32535               | 0.2737                                    | 0.31683                             | 0.0104                                         |
| 60       | Union Parkway Belt | Union CDA              | 4.67322               | 0.1536                                    | 0.08094                             | 0.0027                                         |
| 61       | Union Parkway Belt | Enbridge CDA           | 5.76943               | 0.1897                                    | 0.15176                             | 0.0050                                         |
| 62       | Union Parkway Belt | Union EDA              | 11.60883              | 0.3817                                    | 0.52893                             | 0.0174                                         |
| 63       | Union Parkway Belt | Enbridge EDA           | 14.86645              | 0.4888                                    | 0.73933                             | 0.0243                                         |
| 64       | Union Parkway Belt | KPUC EDA               | 11.16596              | 0.3671                                    | 0.50032                             | 0.0164                                         |
| 65       | Union Parkway Belt | GMIT EDA               | 19.09133              | 0.6277                                    | 1.01224                             | 0.0333                                         |
| 66       | Union Parkway Belt | Enbridge SWDA          | 9.34035               | 0.3071                                    | 0.38239                             | 0.0126                                         |
| 67       | Union Parkway Belt | Union SWDA             | 9.42552               | 0.3099                                    | 0.38790                             | 0.0128                                         |
| 68       | Union Parkway Belt | Chippawa               | 7.16465               | 0.2356                                    | 0.24188                             | 0.0080                                         |
| 69       | Union Parkway Belt | Cornwall               | 15.08515              | 0.4960                                    | 0.75348                             | 0.0248                                         |
| 70       | Union Parkway Belt | East Hereford          | 23.52820              | 0.7735                                    | 1.29882                             | 0.0427                                         |
| 71       | Union Parkway Belt | Emerson 1              | 47.02751              | 1.5461                                    | 2.81666                             | 0.0926                                         |
| 72       | Union Parkway Belt | Emerson 2              | 47.02751              | 1.5461                                    | 2.81666                             | 0.0926                                         |
| 73       | Union Parkway Belt | Iroquois               | 14.08109              | 0.4629                                    | 0.68863                             | 0.0226                                         |
| 74       | Union Parkway Belt | Kirkwall               | 4.86819               | 0.1601                                    | 0.09354                             | 0.0031                                         |
| 75       | Union Parkway Belt | Napierville            | 18.72693              | 0.6157                                    | 0.98870                             | 0.0325                                         |
| 76       | Union Parkway Belt | Niagara Falls          | 7.10807               | 0.2337                                    | 0.23822                             | 0.0078                                         |

| Line No. | Receipt Point      | Delivery Point         | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|--------------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Union Parkway Belt | North Bay Junction     | 12.48300              | 0.4104                                    | 0.58539                             | 0.0192                                         |
| 2        | Union Parkway Belt | Philipsburg            | 19.14090              | 0.6293                                    | 1.01543                             | 0.0334                                         |
| 3        | Union Parkway Belt | Spruce                 | 49.91831              | 1.6412                                    | 3.00341                             | 0.0987                                         |
| 4        | Union Parkway Belt | St. Clair              | 9.90488               | 0.3256                                    | 0.41887                             | 0.0138                                         |
| 5        | Union Parkway Belt | Welwyn                 | 56.78670              | 1.8670                                    | 3.44704                             | 0.1133                                         |
| 6        | Union Parkway Belt | Dawn Export            | 9.34035               | 0.3071                                    | 0.38239                             | 0.0126                                         |
| 7        | Union Parkway Belt | Union Parkway Belt     | 3.96268               | 0.1303                                    | 0.03504                             | 0.0012                                         |
| 8        | Union Parkway Belt | Union CDA (Amended)    | 5.40869               | 0.1778                                    | 0.12846                             | 0.0042                                         |
| 9        | Union Parkway Belt | Union ECDA             | 4.23552               | 0.1393                                    | 0.05268                             | 0.0017                                         |
| 10       | Union Parkway Belt | Enbridge Parkway CDA   | 3.96268               | 0.1303                                    | 0.03504                             | 0.0012                                         |
| 11       | Union Parkway Belt | Enbridge CDA (Amended) | 5.93916               | 0.1953                                    | 0.16269                             | 0.0053                                         |
| 12       | Union SSMDA        | Empress                | -                     | 1.3361                                    | -                                   | 0.1103                                         |
| 13       | Union SSMDA        | TransGas SSDA          | -                     | 1.0879                                    | -                                   | 0.0885                                         |
| 14       | Union SSMDA        | Centram SSDA           | -                     | 0.9863                                    | -                                   | 0.0795                                         |
| 15       | Union SSMDA        | Centram MDA            | -                     | 0.8325                                    | -                                   | 0.0660                                         |
| 16       | Union SSMDA        | Centrat MDA            | -                     | 0.8319                                    | -                                   | 0.0659                                         |
| 17       | Union SSMDA        | Union WDA              | -                     | 1.1194                                    | -                                   | 0.0912                                         |
| 18       | Union SSMDA        | Nipigon WDA            | -                     | 1.2058                                    | -                                   | 0.0988                                         |
| 19       | Union SSMDA        | Union NDA              | -                     | 0.8783                                    | -                                   | 0.0700                                         |
| 20       | Union SSMDA        | Calstock NDA           | -                     | 1.1194                                    | -                                   | 0.0912                                         |
| 21       | Union SSMDA        | Tunis NDA              | -                     | 0.9705                                    | -                                   | 0.0781                                         |
| 22       | Union SSMDA        | GMIT NDA               | -                     | 0.8598                                    | -                                   | 0.0684                                         |
| 23       | Union SSMDA        | Union SSMDA            | -                     | 0.0956                                    | -                                   | 0.0012                                         |
| 24       | Union SSMDA        | Union NCDA             | -                     | 0.7173                                    | -                                   | 0.0525                                         |
| 25       | Union SSMDA        | Union CDA              | -                     | 0.6092                                    | -                                   | 0.0435                                         |
| 26       | Union SSMDA        | Enbridge CDA           | -                     | 0.6463                                    | -                                   | 0.0465                                         |
| 27       | Union SSMDA        | Union EDA              | -                     | 0.8011                                    | -                                   | 0.0594                                         |
| 28       | Union SSMDA        | Enbridge EDA           | -                     | 0.8842                                    | -                                   | 0.0664                                         |
| 29       | Union SSMDA        | KPUC EDA               | -                     | 0.7898                                    | -                                   | 0.0585                                         |
| 30       | Union SSMDA        | GMIT EDA               | -                     | 0.9919                                    | -                                   | 0.0753                                         |
| 31       | Union SSMDA        | Enbridge SWDA          | -                     | 0.4689                                    | -                                   | 0.0318                                         |
| 32       | Union SSMDA        | Union SWDA             | -                     | 0.4667                                    | -                                   | 0.0316                                         |
| 33       | Union SSMDA        | Chippawa               | -                     | 0.6517                                    | -                                   | 0.0470                                         |
| 34       | Union SSMDA        | Cornwall               | -                     | 0.8898                                    | -                                   | 0.0668                                         |
| 35       | Union SSMDA        | East Hereford          | -                     | 1.1051                                    | -                                   | 0.0847                                         |
| 36       | Union SSMDA        | Emerson 1              | -                     | 0.7508                                    | -                                   | 0.0588                                         |
| 37       | Union SSMDA        | Emerson 2              | -                     | 0.7508                                    | -                                   | 0.0588                                         |
| 38       | Union SSMDA        | Iroquois               | -                     | 0.8641                                    | -                                   | 0.0647                                         |
| 39       | Union SSMDA        | Kirkwall               | -                     | 0.5830                                    | -                                   | 0.0413                                         |
| 40       | Union SSMDA        | Napierville            | -                     | 0.9826                                    | -                                   | 0.0746                                         |
| 41       | Union SSMDA        | Niagara Falls          | -                     | 0.6503                                    | -                                   | 0.0469                                         |
| 42       | Union SSMDA        | North Bay Junction     | -                     | 0.7791                                    | -                                   | 0.0613                                         |
| 43       | Union SSMDA        | Philipsburg            | -                     | 0.9932                                    | -                                   | 0.0754                                         |
| 44       | Union SSMDA        | Spruce                 | -                     | 0.8319                                    | -                                   | 0.0659                                         |
| 45       | Union SSMDA        | St. Clair              | -                     | 0.4300                                    | -                                   | 0.0306                                         |
| 46       | Union SSMDA        | Welwyn                 | -                     | 0.9863                                    | -                                   | 0.0795                                         |
| 47       | Union SSMDA        | Dawn Export            | -                     | 0.4689                                    | -                                   | 0.0318                                         |
| 48       | Union SSMDA        | Union Parkway Belt     | -                     | 0.6061                                    | -                                   | 0.0432                                         |
| 49       | Union SSMDA        | Union CDA (Amended)    | -                     | 0.6028                                    | -                                   | 0.0429                                         |
| 50       | Union SSMDA        | Union ECDA             | -                     | 0.6130                                    | -                                   | 0.0438                                         |
| 51       | Union SSMDA        | Enbridge Parkway CDA   | -                     | 0.6061                                    | -                                   | 0.0432                                         |
| 52       | Union SSMDA        | Enbridge CDA (Amended) | -                     | 0.6500                                    | -                                   | 0.0469                                         |
| 53       | Union WDA          | Empress                | -                     | 0.9577                                    | -                                   | 0.0770                                         |
| 54       | Union WDA          | TransGas SSDA          | -                     | 0.7095                                    | -                                   | 0.0552                                         |
| 55       | Union WDA          | Centram SSDA           | -                     | 0.6079                                    | -                                   | 0.0462                                         |
| 56       | Union WDA          | Centram MDA            | -                     | 0.4549                                    | -                                   | 0.0328                                         |
| 57       | Union WDA          | Centrat MDA            | -                     | 0.3844                                    | -                                   | 0.0266                                         |
| 58       | Union WDA          | Union WDA              | -                     | 0.0956                                    | -                                   | 0.0012                                         |
| 59       | Union WDA          | Nipigon WDA            | -                     | 0.2085                                    | -                                   | 0.0111                                         |
| 60       | Union WDA          | Union NDA              | -                     | 0.6346                                    | -                                   | 0.0486                                         |
| 61       | Union WDA          | Calstock NDA           | -                     | 0.3936                                    | -                                   | 0.0274                                         |
| 62       | Union WDA          | Tunis NDA              | -                     | 0.5426                                    | -                                   | 0.0405                                         |
| 63       | Union WDA          | GMIT NDA               | -                     | 0.6651                                    | -                                   | 0.0513                                         |
| 64       | Union WDA          | Union SSMDA            | -                     | 1.1194                                    | -                                   | 0.0912                                         |
| 65       | Union WDA          | Union NCDA             | -                     | 0.8818                                    | -                                   | 0.0662                                         |
| 66       | Union WDA          | Union CDA              | -                     | 1.0111                                    | -                                   | 0.0769                                         |
| 67       | Union WDA          | Enbridge CDA           | -                     | 0.9892                                    | -                                   | 0.0751                                         |
| 68       | Union WDA          | Union EDA              | -                     | 1.0672                                    | -                                   | 0.0816                                         |
| 69       | Union WDA          | Enbridge EDA           | -                     | 1.0242                                    | -                                   | 0.0780                                         |
| 70       | Union WDA          | KPUC EDA               | -                     | 1.1049                                    | -                                   | 0.0847                                         |
| 71       | Union WDA          | GMIT EDA               | -                     | 1.1584                                    | -                                   | 0.0892                                         |
| 72       | Union WDA          | Enbridge SWDA          | -                     | 1.1218                                    | -                                   | 0.0861                                         |
| 73       | Union WDA          | Union SWDA             | -                     | 1.1236                                    | -                                   | 0.0863                                         |
| 74       | Union WDA          | Chippawa               | -                     | 1.0747                                    | -                                   | 0.0822                                         |
| 75       | Union WDA          | Cornwall               | -                     | 1.0563                                    | -                                   | 0.0807                                         |
| 76       | Union WDA          | East Hereford          | -                     | 1.2716                                    | -                                   | 0.0986                                         |

| Line No. | Receipt Point | Delivery Point         | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|------------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Union WDA     | Emerson 1              | -                     | 0.4656                                    | -                                   | 0.0337                                         |
| 2        | Union WDA     | Emerson 2              | -                     | 0.4656                                    | -                                   | 0.0337                                         |
| 3        | Union WDA     | Iroquois               | -                     | 1.0362                                    | -                                   | 0.0790                                         |
| 4        | Union WDA     | Kirkwall               | -                     | 1.0161                                    | -                                   | 0.0773                                         |
| 5        | Union WDA     | Napierville            | -                     | 1.1492                                    | -                                   | 0.0884                                         |
| 6        | Union WDA     | Niagara Falls          | -                     | 1.0732                                    | -                                   | 0.0821                                         |
| 7        | Union WDA     | North Bay Junction     | -                     | 0.7340                                    | -                                   | 0.0573                                         |
| 8        | Union WDA     | Philipsburg            | -                     | 1.1597                                    | -                                   | 0.0893                                         |
| 9        | Union WDA     | Spruce                 | -                     | 0.3844                                    | -                                   | 0.0266                                         |
| 10       | Union WDA     | St. Clair              | -                     | 1.0727                                    | -                                   | 0.0871                                         |
| 11       | Union WDA     | Welwyn                 | -                     | 0.6079                                    | -                                   | 0.0462                                         |
| 12       | Union WDA     | Dawn Export            | -                     | 1.1218                                    | -                                   | 0.0861                                         |
| 13       | Union WDA     | Union Parkway Belt     | -                     | 0.9930                                    | -                                   | 0.0754                                         |
| 14       | Union WDA     | Union CDA (Amended)    | -                     | 1.0299                                    | -                                   | 0.0785                                         |
| 15       | Union WDA     | Union ECDA             | -                     | 1.0000                                    | -                                   | 0.0760                                         |
| 16       | Union WDA     | Enbridge Parkway CDA   | -                     | 0.9930                                    | -                                   | 0.0754                                         |
| 17       | Union WDA     | Enbridge CDA (Amended) | -                     | 0.9889                                    | -                                   | 0.0751                                         |
| 18       | Welwyn        | Empress                | 13.54819              | 0.4454                                    | 0.97133                             | 0.0319                                         |
| 19       | Welwyn        | TransGas SSDA          | 6.00090               | 0.1973                                    | 0.30717                             | 0.0101                                         |
| 20       | Welwyn        | Centram SSDA           | 2.90844               | 0.0956                                    | 0.03504                             | 0.0012                                         |
| 21       | Welwyn        | Centram MDA            | 7.60295               | 0.2500                                    | 0.44816                             | 0.0147                                         |
| 22       | Welwyn        | Centrat MDA            | 9.70474               | 0.3191                                    | 0.63311                             | 0.0208                                         |
| 23       | Welwyn        | Union WDA              | 18.48877              | 0.6079                                    | 1.40610                             | 0.0462                                         |
| 24       | Welwyn        | Nipigon WDA            | 21.07571              | 0.6929                                    | 1.63375                             | 0.0537                                         |
| 25       | Welwyn        | Union NDA              | 34.16491              | 1.1232                                    | 2.78557                             | 0.0916                                         |
| 26       | Welwyn        | Calstock NDA           | 26.82993              | 0.8821                                    | 2.14012                             | 0.0704                                         |
| 27       | Welwyn        | Tunis NDA              | 31.36019              | 1.0310                                    | 2.53878                             | 0.0835                                         |
| 28       | Welwyn        | GMIT NDA               | 35.08897              | 1.1536                                    | 2.86688                             | 0.0943                                         |
| 29       | Welwyn        | Union SSMDA            | 29.99874              | 0.9863                                    | 2.41897                             | 0.0795                                         |
| 30       | Welwyn        | Union NCDA             | 42.52341              | 1.3980                                    | 3.31969                             | 0.1091                                         |
| 31       | Welwyn        | Union CDA              | 44.14827              | 1.4515                                    | 3.45500                             | 0.1136                                         |
| 32       | Welwyn        | Enbridge CDA           | 45.05895              | 1.4814                                    | 3.53080                             | 0.1161                                         |
| 33       | Welwyn        | Union EDA              | 48.10092              | 1.5814                                    | 3.78408                             | 0.1244                                         |
| 34       | Welwyn        | Enbridge EDA           | 46.84136              | 1.5400                                    | 3.67922                             | 0.1210                                         |
| 35       | Welwyn        | KPUC EDA               | 49.31150              | 1.6212                                    | 3.88489                             | 0.1277                                         |
| 36       | Welwyn        | GMIT EDA               | 50.93910              | 1.6747                                    | 4.02040                             | 0.1322                                         |
| 37       | Welwyn        | Enbridge SWDA          | 39.88081              | 1.3112                                    | 3.09969                             | 0.1019                                         |
| 38       | Welwyn        | Union SWDA             | 39.81481              | 1.3090                                    | 3.09418                             | 0.1017                                         |
| 39       | Welwyn        | Chippawa               | 45.44220              | 1.4940                                    | 3.56272                             | 0.1171                                         |
| 40       | Welwyn        | Cornwall               | 47.83112              | 1.5725                                    | 3.76164                             | 0.1237                                         |
| 41       | Welwyn        | East Hereford          | 54.38105              | 1.7879                                    | 4.30700                             | 0.1416                                         |
| 42       | Welwyn        | Emerson 1              | 10.07187              | 0.3311                                    | 0.66542                             | 0.0219                                         |
| 43       | Welwyn        | Emerson 2              | 10.07187              | 0.3311                                    | 0.66542                             | 0.0219                                         |
| 44       | Welwyn        | Iroquois               | 47.21975              | 1.5524                                    | 3.71075                             | 0.1220                                         |
| 45       | Welwyn        | Kirkwall               | 43.35014              | 1.4252                                    | 3.38854                             | 0.1114                                         |
| 46       | Welwyn        | Napierville            | 50.65592              | 1.6654                                    | 3.99685                             | 0.1314                                         |
| 47       | Welwyn        | Niagara Falls          | 45.39840              | 1.4926                                    | 3.55906                             | 0.1170                                         |
| 48       | Welwyn        | North Bay Junction     | 37.18255              | 1.2224                                    | 3.05112                             | 0.1003                                         |
| 49       | Welwyn        | Philipsburg            | 50.97712              | 1.6760                                    | 4.02358                             | 0.1323                                         |
| 50       | Welwyn        | Spruce                 | 9.70474               | 0.3191                                    | 0.63311                             | 0.0208                                         |
| 51       | Welwyn        | St. Clair              | 37.32003              | 1.2270                                    | 3.06321                             | 0.1007                                         |
| 52       | Welwyn        | Welwyn                 | 2.90844               | 0.0956                                    | 0.03504                             | 0.0012                                         |
| 53       | Welwyn        | Dawn Export            | 39.88081              | 1.3112                                    | 3.09969                             | 0.1019                                         |
| 54       | Welwyn        | Union Parkway Belt     | 44.05276              | 1.4483                                    | 3.44704                             | 0.1133                                         |
| 55       | Welwyn        | Union CDA (Amended)    | 43.95360              | 1.4451                                    | 3.43879                             | 0.1131                                         |
| 56       | Welwyn        | Union ECDA             | 44.26446              | 1.4553                                    | 3.46466                             | 0.1139                                         |
| 57       | Welwyn        | Enbridge Parkway CDA   | 44.05276              | 1.4483                                    | 3.44704                             | 0.1133                                         |
| 58       | Welwyn        | Enbridge CDA (Amended) | 45.15324              | 1.4845                                    | 3.53868                             | 0.1163                                         |

- Notes:
- (i) Aggregate charges for Mainline transportation service will include the applicable transportation toll, abandonment surcharge, delivery pressure toll (if applicable) and Dawn receipt surcharge (if applicable) pursuant to the Mainline Tariff.
  - (ii) Any transportation with a Union Dawn receipt point is subject to a Union Dawn Receipt Point Surcharge. Transport under FT, FT-NR, FT-SN and EMB service is subject to the monthly surcharge toll, and other transportation services are subject to the daily equivalent toll. Refer to page 1 for the Union Dawn Receipt Point Surcharge tolls.
  - (iii) Transportation with receipt points from delivery areas or Spruce is for STFT and IT service only.
  - (iv) The following delivery points are subject to an additional charge for delivery pressure: Emerson 1 & 2, Union SWDA, Enbridge SWDA, Dawn Export, Niagara Falls, Iroquois, Chippawa, and East Hereford. Refer to page 1 for the delivery pressure toll.
  - (v) Effective November 1, 2015, the Enbridge CDA is modified such that the Enbridge Parkway meter is removed from the Enbridge CDA and put within a new delivery area called the Enbridge Parkway CDA. The remaining Enbridge CDA meters continue to reside within the Enbridge CDA. Effective November 1, 2016, the Union CDA is modified such that the Union Parkway Belt, Bronte and Burlington meters are removed from the Union CDA. The Bronte and Burlington meters are put within a new delivery area called the Union ECDA, and the Parkway-Union meter will become a new standalone delivery location called Union Parkway Belt. The remaining Union CDA meters, Nanticoke and Hamilton Gate, continue to reside in the Union CDA.
  - (vi) The following transportation services are subject to the Abandonment Surcharges: FT, FT-NR, STS, STS-L, SSS, FT-SN, MFP, EMB, IT, STFT, and ST-SN. The Daily Equivalent Abandonment Surcharge is only applicable to IT, SSS, STFT, ST-SN, ARPs, Diversions and STS Overrun.



December 5<sup>th</sup>, 2014

Ms. Sheri Young  
Secretary of the Board  
National Energy Board  
517-10<sup>th</sup> Avenue S.W.  
Calgary, Alberta  
T2R 0A8

Dear Ms. Young:

**Re: Land Matters Consultation Initiative (“LMCI”) Stream 3  
MH-001-2013 Reason for Decision – Set-Aside Mechanism (SAM) and Collection  
Mechanism (COM)  
National Energy Board (Board) MO-078-2014  
Compliance Filing: Collection Mechanism**

Pursuant to paragraph 2a (ii) of Board Order MO-078-2014 dated 5 May 2014 Centra Transmission Holdings Inc. (CTHI) respectively submits, attached hereto, the collection mechanism filing (Filing). This Filing sets out CTHI’s Annual Contribution Amount (ACA), the proposed monthly Abandonment Toll (Toll) calculated pursuant to the Board’s MH-01-2013 Reason for Decision dated May 2014<sup>1</sup>, and a revised Transportation Toll Schedule (TTS) effective January 1, 2015. CTHI makes this submission and revised TTS on the basis that no changes are required to CTHI’s General Terms and Conditions of its Tariff. To the extent the Board directs CTHI to make changes to the General Terms and Conditions of its Tariff, CTHI will complete the changes, provide Shippers with draft changes for review and comment, and file such changes with the Board.

CTHI has notified Shippers of its collection mechanism and provided them the Annual Contribution Amount and revised Transportation Toll Schedules as included in this Filing for review and consideration. CTHI Shippers have raised no concerns with the Filing to date. By way of the MH-001-2013 Reasons for Decision, the Board directed companies to advise that any interested persons may file comments with the Board about this filing within 14 calendar days of the date of this filing<sup>2</sup>.

Please do not hesitate to call if you have any questions.

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<sup>1</sup> NEB Reasons for Decision, Set-aside and Collection Mechanism MH-001-2013 in Pipeline Abandonment Financial Issues, May 29, 2014, paragraphs 4.2.3 and 4.4.4

<sup>2</sup> MH-001-2013 Decision, page 100



Sincerely,

Joe P. Brophy  
Vice President & General Manager  
[jbrophy@efgroupllc.com](mailto:jbrophy@efgroupllc.com)  
Telephone: (519) 652-5357  
FAX: (519) 652-0428

cc: Mr. Todd Karry- President, Energy Fundamentals Group  
Mr. Jason Gillet – Union Gas Limited  
Mr. Warren Reinisch – Union Gas Limited  
Ms. Laurie MacDonald – Centra Gas Manitoba  
Mr. Patrick Loupin– Boise Paper  
Mr. Shawn Gillespie – Minnesota Energy Resources Inc.

Attachment

**Centra Transmission Holdings Inc.**  
**MH-001-2013 and Order MO-078-2014**

**2015 Annual Contribution Amount Collection Form**

Computation of Annual Contribution

| <b>Step 1: Provide total cost estimate for abandonment</b>                            |                                                                                                                                | <b>Comments</b>                                 | <b>Calculations</b> |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------|
| Line 1                                                                                | Abandonment cost estimate in dollars in 2010                                                                                   | Approved 14 Feb 2014                            | \$ 36,757,760.43    |
| <b>Step 2: Covert to Future Value</b>                                                 |                                                                                                                                |                                                 |                     |
| Line 2                                                                                | Inflation Rate                                                                                                                 | Provided                                        | 2%                  |
| Line 3                                                                                | Years Remaining in Collection Period                                                                                           | Approved 14 Feb 2014                            | 40                  |
| Line 4                                                                                | Years Elapsed between year of cost estimate and current date                                                                   | Calculation                                     | 5                   |
| Line 5                                                                                | Number of years from cost estimate date to end of Collection Period (line 4 + line 5)                                          | Calculation                                     | 45                  |
| Line 6                                                                                | Future Value of Abandonment cost estimate = Line 1 * (1+Line 2) <sup>Line 5</sup>                                              | Calculation                                     | \$ 89,610,060.84    |
| <b>Step 3: Calculate company-specific after tax rate of return on funds collected</b> |                                                                                                                                |                                                 |                     |
| Line 7                                                                                | Pre-tax rate of return on funds collected                                                                                      | Approved 14 Feb 2014                            | 3.50%               |
| Line 8                                                                                | Adjustment for variable trustee expenses and investment management fees                                                        | RTCC Agreement, Filed with NEB 2 September 2014 | 0.30%               |
| Line 9                                                                                | Company-specific tax rate on investment income                                                                                 | Approved TG-005-2013                            | 30.70%              |
| Line 10                                                                               | After tax rate of return on funds collected = (1-Line 9) * (Line 7 - Line 8)                                                   | Calculation                                     | 2.22%               |
| <b>Step 4: Compute Annual Contribution Amount</b>                                     |                                                                                                                                |                                                 |                     |
| Line 11                                                                               | Annual Contribution Amount, before fixed trustee expense adjustment = (Line 6 * Line 10)/[(1 + Line 10) <sup>Line 3</sup> - 1] | Calculation                                     | \$ 1,414,862.10     |
| Line 12                                                                               | Adjustment for fixed trustee expenses                                                                                          | RTCC Agreement, Filed with NEB 2 September 2014 | 29,700.00           |
| Line 13                                                                               | Annual Contribution Amount to Trust (Line 11 + Line 12)                                                                        | Calculation                                     | \$ 1,444,562.10     |

**Centra Transmission Holdings Inc.**  
**Transportation Toll Schedule**  
**Effective January 1, 2015**  
Updated

| Particulars                           |            | (\$/10 <sup>3</sup> m <sup>3</sup> /Mo.) |
|---------------------------------------|------------|------------------------------------------|
| Domestic Demand Charge                | (Existing) | 446.771                                  |
| Export Demand Charge                  | (Existing) | 445.769                                  |
| Monthly Abandonment Toll <sup>1</sup> | (Proposed) | 152.481                                  |

<sup>1</sup>The monthly abandonment toll is calculated by dividing the annual contribution amount (\$1,444,562 - Schedule 1) by the annual billing determinants, where annual billing determinants are determined by multiplying the monthly contracted maximum delivery quantity by the 12 months in a year. Each shipper will have the abandonment toll applied to their monthly billing cycle.



June 5, 2015

Ms. Sheri Young  
Secretary of the Board  
National Energy Board  
517-10<sup>th</sup> Avenue S.W.  
Calgary, Alberta  
T2R 0A8

Dear Ms. Young:

**Re: Centra Transmission Holdings Inc. (CTHI), Revised Abandonment Cost Estimate.  
Compliance Filing: Collection Mechanism**

Pursuant to the National Energy Board (Board) letter dated 21 May 2015, where the Board directed CTHI to file a tariff to incorporate a revised annual contribution amount (ACA) and abandonment toll (Toll), CTHI respectively submits, attached hereto, CTHI's revised ACA and Toll. The ACA was calculated pursuant to the Computation of Annual Contribution as outlined in Appendix XIV of the Reasons For Decision, Set-aside and collection mechanisms, MH-001-2013 adjusted for abandonment funds collected to date and the remaining collection period.

In advance of this Filing CTHI provided Shippers the revised ACA and Toll as included in this Filing for review and consideration. CTHI's Shippers have raised no concerns with the Filing to date.

Please do not hesitate to call if you have any questions.

Sincerely,

Joe P. Brophy  
Vice President & General Manager  
[jbrophy@efgroupplc.com](mailto:jbrophy@efgroupplc.com)  
Telephone: (519) 652-5357  
FAX: (519) 652-0428

cc: Mr. Todd Karry- President, Energy Fundamentals Group  
Mr. Jason Gillet – Union Gas Limited  
Ms. Laurie MacDonald – Centra Gas Manitoba  
Mr. Patrick Loupin– Boise Paper  
Mr. Shawn Gillespie – Minnesota Energy Resources Inc.

Attachment

**Centra Transmission Holdings Inc.**  
**MH-001-2013 and Order MO-078-2014**

**Schedule 1**

**2015 Annual Contribution Amount Collection Form - updated May 2015**

Computation of Annual Contribution

| <b>Step 1: Provide total cost estimate for abandonment</b>                            |                                                                                                                                | <b>Comments</b>                                 | <b>Calculations</b> |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------|
| Line 1                                                                                | Revised Abandonment cost estimate in 2010 dollars                                                                              | Approved 21 May 2015                            | \$ 25,936,102       |
| Line 1.1                                                                              | Year elapse between year of cost estimate and January 1, 2015                                                                  |                                                 | 5                   |
| Line 1.2                                                                              | Inflation rate                                                                                                                 | Provided                                        | 2%                  |
| Line 1.3                                                                              | January 1, 2015 Value of Abandonment Cost Estimate = Line 1 * (1+Line 1.2) <sup>Line 1.1</sup>                                 | Calculation                                     | \$ 28,635,553       |
| Line 1.4                                                                              | Less Abandonment Funds Collected January 2015 to April 2015                                                                    | 4 months at \$120,380.18                        | \$ (481,521)        |
| Line 1.5                                                                              | Remaining Abandonment Cost Estimate to collect in 2015 dollars                                                                 |                                                 | \$ 28,154,032       |
| <b>Step 2: Convert to Future Value</b>                                                |                                                                                                                                |                                                 |                     |
| Line 2                                                                                | Inflation Rate                                                                                                                 | Provided                                        | 2%                  |
| Line 3                                                                                | Years Remaining in Collection Period                                                                                           | Approved 14 Feb 2014                            | 40.00               |
| Line 3.1                                                                              | Years collected                                                                                                                | 4 months in 2015                                | -0.33               |
| Line 4                                                                                | Years Elapsed between year of cost estimate and current date (calculated in Line 1.1 to Line 1.3)                              | Calculation                                     | 0                   |
| Line 5                                                                                | Number of years from cost estimate date to end of Collection Period (line 3 + line 3.1 + line 4)                               | Calculation                                     | 39.67               |
| Line 6                                                                                | Future Value of Abandonment cost estimate = Line 1.5 * (1+Line 2) <sup>Line 5</sup>                                            | Calculation                                     | \$ 61,756,225       |
| <b>Step 3: Calculate company-specific after tax rate of return on funds collected</b> |                                                                                                                                |                                                 |                     |
| Line 7                                                                                | Pre-tax rate of return on funds collected                                                                                      | Approved 14 Feb 2014                            | 3.50%               |
| Line 8                                                                                | Adjustment for variable trustee expenses and investment management fees                                                        | RTCC Agreement, Filed with NEB 2 September 2014 | 0.30%               |
| Line 9                                                                                | Company-specific tax rate on investment income                                                                                 | Approved TG-005-2013                            | 30.70%              |
| Line 10                                                                               | After tax rate of return on funds collected = (1 - Line 9) * (Line 7 - Line 8)                                                 | Calculation                                     | 2.22%               |
| <b>Step 4: Compute Annual Contribution Amount</b>                                     |                                                                                                                                |                                                 |                     |
| Line 11                                                                               | Annual Contribution Amount, before fixed trustee expense adjustment = (Line 6 * Line 10)/[(1 + Line 10) <sup>Line 5</sup> - 1] | Calculation                                     | \$ 987,389          |
| Line 12                                                                               | Adjustment for fixed trustee expenses                                                                                          | RTCC Agreement, Filed with NEB 2 September 2014 | \$ 24,817           |
| Line 13                                                                               | Annual Contribution Amount to Trust (Line 11 + Line 12)                                                                        | Calculation                                     | \$ 1,012,206        |

**Centra Transmission Holdings Inc.**  
**Transportation Toll Schedule**  
**Proposed Revision**

| Particulars                           |            | (\$/10 <sup>3</sup> m <sup>3</sup> /Mo.) |
|---------------------------------------|------------|------------------------------------------|
| Domestic Demand Charge                | (Existing) | 446.771                                  |
| Export Demand Charge                  | (Existing) | 445.769                                  |
| Monthly Abandonment Toll <sup>1</sup> | (Proposed) | 106.844                                  |

<sup>1</sup>The monthly abandonment toll is calculated by dividing the annual contribution amount (\$1,012,206 - Schedule 1) by the annual billing determinants, where annual billing determinants are determined by multiplying the monthly contracted maximum delivery quantity by the 12 months in a year. Each shipper will have the abandonment toll applied to their monthly billing cycle.

TransCanada PipeLines Limited  
Final Mainline Transportation Tolls Effective July 1, 2015 (Amended November 1, 2015) and  
Final Abandonment Surcharges Effective January 1, 2016

**Storage Transportation Service**

| Line No | Particulars  | Monthly Toll (\$/GJ/Month) | Daily Equivalent (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|---------|--------------|----------------------------|--------------------------|-------------------------------------|------------------------------------------------|
|         | (a)          | (b)                        | (c)                      | (d)                                 | (e)                                            |
| 1       | Centram MDA  | 5.23197                    | 0.17201                  | 0.26971                             | 0.0088                                         |
| 2       | Union WDA    | 39.71839                   | 1.30581                  | 2.45373                             | 0.0805                                         |
| 3       | Union NDA    | 16.92748                   | 0.55652                  | 0.90892                             | 0.0298                                         |
| 4       | Union EDA    | 11.84212                   | 0.38933                  | 0.56423                             | 0.0185                                         |
| 5       | KPUC EDA     | 11.39043                   | 0.37448                  | 0.53360                             | 0.0175                                         |
| 6       | GMIT EDA     | 19.47488                   | 0.64027                  | 1.08161                             | 0.0355                                         |
| 7       | Enbridge CDA | 6.05839                    | 0.19918                  | 0.17218                             | 0.0057                                         |
| 8       | Enbridge EDA | 15.16514                   | 0.49858                  | 0.78946                             | 0.0259                                         |
| 9       | Cornwall     | 15.38840                   | 0.50592                  | 0.80461                             | 0.0264                                         |
| 10      | Philipsburg  | 19.52568                   | 0.64194                  | 1.08502                             | 0.0356                                         |

**Firm Transportation - Short Notice**

| Line No | Particulars                                  | Monthly Toll (\$/GJ/Month) | Daily Equivalent (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|---------|----------------------------------------------|----------------------------|--------------------------|-------------------------------------|------------------------------------------------|
|         | (a)                                          | (b)                        | (c)                      | (d)                                 | (e)                                            |
| 11      | Kirkwall to Thorold CDA                      | 6.98093                    | 0.22951                  | 0.19172                             | 0.0063                                         |
| 12      | Union Parkway Belt to Goreway CDA            | 5.19730                    | 0.17087                  | 0.08183                             | 0.0027                                         |
| 13      | Union Parkway Belt to Victoria Square #2 CDA | 6.13839                    | 0.20181                  | 0.13601                             | 0.0045                                         |
| 14      | Union Parkway Belt to Schomberg #2 CDA       | 6.07695                    | 0.19979                  | 0.13980                             | 0.0046                                         |

**Enhanced Market Balancing Service**

| Line No | Particulars                     | Monthly Toll (\$/GJ/Month) | Daily Equivalent (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|---------|---------------------------------|----------------------------|--------------------------|-------------------------------------|------------------------------------------------|
|         | (a)                             | (b)                        | (c)                      | (d)                                 | (e)                                            |
| 15      | Union Parkway Belt to Union EDA | 13.02633                   | 0.42826                  | 0.56423                             | 0.0185                                         |

**Delivery Pressure**

| Line No | Particulars | Monthly Toll (\$/GJ/Month) | Daily Equivalent (\$/GJ) |
|---------|-------------|----------------------------|--------------------------|
|         | (a)         | (b)                        | (c)                      |

16 Average Delivery Pressure Toll 1.01227 0.03328

Note: Delivery Pressure toll applies to the following locations: Emerson 1 , Emerson 2, Union SWDA, Enbridge SWDA, Dawn Export, Niagara Falls, Iroquois, Chippawa and East Hereford.  
The Daily Equivalent Toll is only applicable to STS Injections, IT, Diversions, STFT and SSS.

**Union Dawn Receipt Point Surcharge**

| Line No | Particulars                        | Monthly Toll (\$/GJ/Month) | Daily Equivalent (\$/GJ) |
|---------|------------------------------------|----------------------------|--------------------------|
|         | (a)                                | (b)                        | (c)                      |
| 17      | Union Dawn Receipt Point Surcharge | 0.10724                    | 0.00353                  |

**Short Notice Balancing (SNB) Service**

| Line No. | Particulars | Monthly Toll (\$/GJ/Month) | Daily Equivalent (\$/GJ) |
|----------|-------------|----------------------------|--------------------------|
|          | (a)         | (b)                        | (c)                      |

18 SNB Toll

Note: This SNB Toll is a representative toll for the Eastern Region. 3.42005 0.1124

**Energy Deficient Gas Allowance (EDGA) Service**

| Line No | Particulars     | Capacity Charge (\$/GJ/D) |
|---------|-----------------|---------------------------|
|         | (a)             | (b)                       |
| 19      | Western Section | 1.52481                   |
| 20      | Eastern Section | 0.41865                   |

Note: The EDGA Service capacity charge for the Western Section is the effective Empress to North Bay Junction FT Toll and the capacity charge for the Eastern Section is the effective Parkway to North Bay Junction FT Toll.  
The EDGA Service fuel charge for the Western Section includes the effective Empress to North Bay Junction monthly fuel ratio and the fuel charge for the Eastern Section includes the effective Parkway to North Bay Junction monthly fuel ratio.

TransCanada PipeLines Limited  
Final Mainline Transportation Tolls Effective July 1, 2015 (Amended November 1, 2015) and  
Final Abandonment Surcharges Effective January 1, 2016

- Notes:
- (i) Aggregate charges for Mainline transportation service will include the applicable transportation toll, abandonment surcharge, delivery pressure toll (if applicable) and Dawn receipt surcharge (if applicable) pursuant to the Mainline Tariff.
  - (ii) Any transportation with a Union Dawn receipt point is subject to a Union Dawn Receipt Point Surcharge. Transport under FT, FT-NR, FT-SN and EMB service is subject to the monthly surcharge toll, and other transportation services are subject to the daily equivalent toll. Refer to page 1 for the Union Dawn Receipt Point Surcharge tolls.
  - (iii) Transportation with receipt points from delivery areas or Spruce is for STFT and IT service only.
  - (iv) The following delivery points are subject to an additional charge for delivery pressure: Emerson 1 & 2, Union SWDA, Enbridge SWDA, Dawn Export, Niagara Falls, Iroquois, Chippawa, and East Hereford. Refer to page 1 for the delivery pressure toll.
  - (v) Effective November 1, 2016, the Union CDA is modified such that the Union Parkway Belt, Bronte and Burlington meters are removed from the Union CDA. The Bronte and Burlington meters are put within a new delivery area called the Union ECDA, and the Parkway-Union meter will become a new standalone delivery location called Union Parkway Belt. The remaining Union CDA meters, Nanticoke and Hamilton Gate, continue to reside in the Union CDA.
  - (vi) The following transportation services are subject to the Abandonment Surcharges: FT, FT-NR, STS, STS-L, SSS, FT-SN, MFP, EMB, IT, STFT, and ST-SN. The Daily Equivalent Abandonment Surcharge is only applicable to IT, SSS, STFT, ST-SN, ARPs, Diversions and STS Overrun.

| Line No. | Receipt Point | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Empress       | Empress              | 2.82084               | 0.0927                                    | 0.03553                             | 0.0012                                         |
| 2        | Empress       | TransGas SSDA        | 10.14061              | 0.3334                                    | 0.74653                             | 0.0245                                         |
| 3        | Empress       | Centram SSDA         | 13.13970              | 0.4320                                    | 1.03782                             | 0.0340                                         |
| 4        | Empress       | Centram MDA          | 17.69246              | 0.5817                                    | 1.48004                             | 0.0485                                         |
| 5        | Empress       | Centrat MDA          | 19.73099              | 0.6487                                    | 1.67803                             | 0.0550                                         |
| 6        | Empress       | Union WDA            | 28.25009              | 0.9288                                    | 2.50552                             | 0.0822                                         |
| 7        | Empress       | Nipigon WDA          | 30.75885              | 1.0113                                    | 2.74922                             | 0.0901                                         |
| 8        | Empress       | Union NDA            | 43.45325              | 1.4286                                    | 3.98226                             | 0.1306                                         |
| 9        | Empress       | Calstock NDA         | 36.33970              | 1.1947                                    | 3.29128                             | 0.1079                                         |
| 10       | Empress       | Tunis NDA            | 40.73309              | 1.3392                                    | 3.71804                             | 0.1219                                         |
| 11       | Empress       | GMIT NDA             | 44.34933              | 1.4581                                    | 4.06927                             | 0.1334                                         |
| 12       | Empress       | Union SSMDA          | 39.41270              | 1.2958                                    | 3.58979                             | 0.1177                                         |
| 13       | Empress       | Union NCDA           | 52.97945              | 1.7418                                    | 4.55400                             | 0.1493                                         |
| 14       | Empress       | Union CDA            | 54.58058              | 1.7944                                    | 4.69885                             | 0.1541                                         |
| 15       | Empress       | Enbridge CDA         | 55.57064              | 1.8270                                    | 4.78838                             | 0.1570                                         |
| 16       | Empress       | Enbridge Parkway CDA | 54.48629              | 1.7913                                    | 4.69033                             | 0.1538                                         |
| 17       | Empress       | Union EDA            | 58.47513              | 1.9225                                    | 5.05113                             | 0.1656                                         |
| 18       | Empress       | Enbridge EDA         | 57.23474              | 1.8817                                    | 4.93893                             | 0.1619                                         |
| 19       | Empress       | KPUC EDA             | 59.66807              | 1.9617                                    | 5.15905                             | 0.1692                                         |
| 20       | Empress       | GMIT EDA             | 61.27133              | 2.0144                                    | 5.30407                             | 0.1739                                         |
| 21       | Empress       | Enbridge SWDA        | 50.37578              | 1.6562                                    | 4.31850                             | 0.1416                                         |
| 22       | Empress       | Union SWDA           | 50.31069              | 1.6541                                    | 4.31260                             | 0.1414                                         |
| 23       | Empress       | Chippawa             | 55.85534              | 1.8363                                    | 4.81416                             | 0.1578                                         |
| 24       | Empress       | Cornwall             | 58.20929              | 1.9137                                    | 5.02710                             | 0.1648                                         |
| 25       | Empress       | East Hereford        | 64.66279              | 2.1259                                    | 5.61088                             | 0.1840                                         |
| 26       | Empress       | Emerson 1            | 20.08686              | 0.6604                                    | 1.71263                             | 0.0562                                         |
| 27       | Empress       | Emerson 2            | 20.08686              | 0.6604                                    | 1.71263                             | 0.0562                                         |
| 28       | Empress       | Iroquois             | 57.60704              | 1.8939                                    | 4.97262                             | 0.1630                                         |
| 29       | Empress       | Kirkwall             | 53.79400              | 1.7686                                    | 4.62770                             | 0.1517                                         |
| 30       | Empress       | Napierville          | 60.99302              | 2.0053                                    | 5.27890                             | 0.1731                                         |
| 31       | Empress       | Niagara Falls        | 55.81215              | 1.8349                                    | 4.81024                             | 0.1577                                         |
| 32       | Empress       | North Bay Junction   | 46.37964              | 1.5248                                    | 4.26650                             | 0.1399                                         |
| 33       | Empress       | Philipsburg          | 61.30905              | 2.0156                                    | 5.30751                             | 0.1740                                         |
| 34       | Empress       | Spruce               | 19.73099              | 0.6487                                    | 1.67803                             | 0.0550                                         |
| 35       | Empress       | St. Clair            | 46.51317              | 1.5292                                    | 4.27944                             | 0.1403                                         |
| 36       | Empress       | Welwyn               | 13.13970              | 0.4320                                    | 1.03782                             | 0.0340                                         |
| 37       | Empress       | Dawn Export          | 50.37578              | 1.6562                                    | 4.31850                             | 0.1416                                         |
| 38       | Empress       | Union Parkway Belt   | 54.48629              | 1.7913                                    | 4.69033                             | 0.1538                                         |
| 39       | Empress       | Union CDA (Amended)  | 54.38865              | 1.7881                                    | 4.68148                             | 0.1535                                         |
| 40       | Empress       | Union ECDA           | 54.69464              | 1.7982                                    | 4.70917                             | 0.1544                                         |
| 41       | Bayhurst 1    | Empress              | 3.33245               | 0.1096                                    | 0.08525                             | 0.0028                                         |
| 42       | Bayhurst 1    | TransGas SSDA        | 9.62992               | 0.3166                                    | 0.69692                             | 0.0229                                         |
| 43       | Bayhurst 1    | Centram SSDA         | 12.62748              | 0.4152                                    | 0.98810                             | 0.0324                                         |
| 44       | Bayhurst 1    | Centram MDA          | 17.18055              | 0.5648                                    | 1.43033                             | 0.0469                                         |
| 45       | Bayhurst 1    | Centrat MDA          | 19.21877              | 0.6319                                    | 1.62831                             | 0.0534                                         |
| 46       | Bayhurst 1    | Union WDA            | 27.73848              | 0.9120                                    | 2.45583                             | 0.0805                                         |
| 47       | Bayhurst 1    | Nipigon WDA          | 30.24694              | 0.9944                                    | 2.69950                             | 0.0885                                         |
| 48       | Bayhurst 1    | Union NDA            | 42.94134              | 1.4118                                    | 3.93252                             | 0.1289                                         |
| 49       | Bayhurst 1    | Calstock NDA         | 35.82779              | 1.1779                                    | 3.24156                             | 0.1063                                         |
| 50       | Bayhurst 1    | Tunis NDA            | 40.22148              | 1.3224                                    | 3.66832                             | 0.1203                                         |
| 51       | Bayhurst 1    | GMIT NDA             | 43.83741              | 1.4412                                    | 4.01955                             | 0.1318                                         |
| 52       | Bayhurst 1    | Union SSMDA          | 38.90079              | 1.2789                                    | 3.54006                             | 0.1161                                         |
| 53       | Bayhurst 1    | Union NCDA           | 52.42921              | 1.7237                                    | 4.50425                             | 0.1477                                         |
| 54       | Bayhurst 1    | Union CDA            | 54.03095              | 1.7764                                    | 4.64914                             | 0.1524                                         |
| 55       | Bayhurst 1    | Union EDA            | 57.92520              | 1.9044                                    | 5.00140                             | 0.1640                                         |
| 56       | Bayhurst 1    | Enbridge CDA         | 55.02132              | 1.8089                                    | 4.73872                             | 0.1554                                         |
| 57       | Bayhurst 1    | Enbridge Parkway CDA | 53.93696              | 1.7733                                    | 4.64060                             | 0.1522                                         |
| 58       | Bayhurst 1    | Enbridge EDA         | 56.68480              | 1.8636                                    | 4.88919                             | 0.1603                                         |
| 59       | Bayhurst 1    | KPUC EDA             | 59.11814              | 1.9436                                    | 5.10932                             | 0.1675                                         |
| 60       | Bayhurst 1    | GMIT EDA             | 60.72140              | 1.9963                                    | 5.25433                             | 0.1723                                         |
| 61       | Bayhurst 1    | Enbridge SWDA        | 49.82615              | 1.6381                                    | 4.26877                             | 0.1400                                         |
| 62       | Bayhurst 1    | Union SWDA           | 49.76106              | 1.6360                                    | 4.26287                             | 0.1398                                         |
| 63       | Bayhurst 1    | Chippawa             | 55.30541              | 1.8183                                    | 4.76444                             | 0.1562                                         |
| 64       | Bayhurst 1    | Cornwall             | 57.65996              | 1.8957                                    | 4.97738                             | 0.1632                                         |

| Line No. | Receipt Point | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Bayhurst 1    | East Hereford        | 64.11347              | 2.1078                                    | 5.56116                             | 0.1823                                         |
| 2        | Bayhurst 1    | Emerson 1            | 19.57525              | 0.6436                                    | 1.66291                             | 0.0545                                         |
| 3        | Bayhurst 1    | Emerson 2            | 19.57525              | 0.6436                                    | 1.66291                             | 0.0545                                         |
| 4        | Bayhurst 1    | Iroquois             | 57.05741              | 1.8759                                    | 4.92290                             | 0.1614                                         |
| 5        | Bayhurst 1    | Kirkwall             | 53.24468              | 1.7505                                    | 4.57798                             | 0.1501                                         |
| 6        | Bayhurst 1    | Napierville          | 60.44309              | 1.9872                                    | 5.22917                             | 0.1715                                         |
| 7        | Bayhurst 1    | Niagara Falls        | 55.26222              | 1.8168                                    | 4.76052                             | 0.1561                                         |
| 8        | Bayhurst 1    | North Bay Junction   | 45.86773              | 1.5080                                    | 4.21677                             | 0.1383                                         |
| 9        | Bayhurst 1    | Philipsburg          | 60.75973              | 1.9976                                    | 5.25779                             | 0.1724                                         |
| 10       | Bayhurst 1    | Spruce               | 19.21877              | 0.6319                                    | 1.62831                             | 0.0534                                         |
| 11       | Bayhurst 1    | St. Clair            | 46.00095              | 1.5124                                    | 4.22972                             | 0.1387                                         |
| 12       | Bayhurst 1    | Welwyn               | 12.62748              | 0.4152                                    | 0.98810                             | 0.0324                                         |
| 13       | Bayhurst 1    | Dawn Export          | 49.82615              | 1.6381                                    | 4.26877                             | 0.1400                                         |
| 14       | Bayhurst 1    | Union Parkway Belt   | 53.93696              | 1.7733                                    | 4.64060                             | 0.1522                                         |
| 15       | Bayhurst 1    | Union CDA (Amended)  | 53.83902              | 1.7701                                    | 4.63177                             | 0.1519                                         |
| 16       | Bayhurst 1    | Union ECDA           | 54.14532              | 1.7801                                    | 4.65947                             | 0.1528                                         |
| 17       | Calstock NDA  | Empress              | -                     | 1.1947                                    | -                                   | 0.1079                                         |
| 18       | Calstock NDA  | TransGas SSDA        | -                     | 0.9541                                    | -                                   | 0.0846                                         |
| 19       | Calstock NDA  | Centram SSDA         | -                     | 0.8555                                    | -                                   | 0.0751                                         |
| 20       | Calstock NDA  | Centram MDA          | -                     | 0.7072                                    | -                                   | 0.0607                                         |
| 21       | Calstock NDA  | Centrat MDA          | -                     | 0.6388                                    | -                                   | 0.0541                                         |
| 22       | Calstock NDA  | Union WDA            | -                     | 0.3817                                    | -                                   | 0.0292                                         |
| 23       | Calstock NDA  | Nipigon WDA          | -                     | 0.2762                                    | -                                   | 0.0189                                         |
| 24       | Calstock NDA  | Union NDA            | -                     | 0.3266                                    | -                                   | 0.0238                                         |
| 25       | Calstock NDA  | Calstock NDA         | -                     | 0.0927                                    | -                                   | 0.0012                                         |
| 26       | Calstock NDA  | Tunis NDA            | -                     | 0.2372                                    | -                                   | 0.0152                                         |
| 27       | Calstock NDA  | GMIT NDA             | -                     | 0.3561                                    | -                                   | 0.0267                                         |
| 28       | Calstock NDA  | Union SSMDA          | -                     | 1.0856                                    | -                                   | 0.0973                                         |
| 29       | Calstock NDA  | Union NCDA           | -                     | 0.5585                                    | -                                   | 0.0426                                         |
| 30       | Calstock NDA  | Union CDA            | -                     | 0.6860                                    | -                                   | 0.0541                                         |
| 31       | Calstock NDA  | Union EDA            | -                     | 0.7413                                    | -                                   | 0.0591                                         |
| 32       | Calstock NDA  | Enbridge CDA         | -                     | 0.6641                                    | -                                   | 0.0521                                         |
| 33       | Calstock NDA  | Enbridge Parkway CDA | -                     | 0.6681                                    | -                                   | 0.0525                                         |
| 34       | Calstock NDA  | Enbridge EDA         | -                     | 0.6988                                    | -                                   | 0.0552                                         |
| 35       | Calstock NDA  | KPUC EDA             | -                     | 0.7784                                    | -                                   | 0.0624                                         |
| 36       | Calstock NDA  | GMIT EDA             | -                     | 0.8311                                    | -                                   | 0.0672                                         |
| 37       | Calstock NDA  | Enbridge SWDA        | -                     | 0.8033                                    | -                                   | 0.0647                                         |
| 38       | Calstock NDA  | Union SWDA           | -                     | 0.8054                                    | -                                   | 0.0648                                         |
| 39       | Calstock NDA  | Chippawa             | -                     | 0.7486                                    | -                                   | 0.0597                                         |
| 40       | Calstock NDA  | Cornwall             | -                     | 0.7305                                    | -                                   | 0.0581                                         |
| 41       | Calstock NDA  | East Hereford        | -                     | 0.9426                                    | -                                   | 0.0772                                         |
| 42       | Calstock NDA  | Emerson 1            | -                     | 0.7175                                    | -                                   | 0.0617                                         |
| 43       | Calstock NDA  | Emerson 2            | -                     | 0.7175                                    | -                                   | 0.0617                                         |
| 44       | Calstock NDA  | Iroquois             | -                     | 0.7107                                    | -                                   | 0.0563                                         |
| 45       | Calstock NDA  | Kirkwall             | -                     | 0.6909                                    | -                                   | 0.0545                                         |
| 46       | Calstock NDA  | Napierville          | -                     | 0.8220                                    | -                                   | 0.0663                                         |
| 47       | Calstock NDA  | Niagara Falls        | -                     | 0.7472                                    | -                                   | 0.0596                                         |
| 48       | Calstock NDA  | North Bay Junction   | -                     | 0.4228                                    | -                                   | 0.0331                                         |
| 49       | Calstock NDA  | Philipsburg          | -                     | 0.8324                                    | -                                   | 0.0673                                         |
| 50       | Calstock NDA  | Spruce               | -                     | 0.6388                                    | -                                   | 0.0541                                         |
| 51       | Calstock NDA  | St. Clair            | -                     | 0.7613                                    | -                                   | 0.0659                                         |
| 52       | Calstock NDA  | Welwyn               | -                     | 0.8555                                    | -                                   | 0.0751                                         |
| 53       | Calstock NDA  | Dawn Export          | -                     | 0.8033                                    | -                                   | 0.0647                                         |
| 54       | Calstock NDA  | Union Parkway Belt   | -                     | 0.6681                                    | -                                   | 0.0525                                         |
| 55       | Calstock NDA  | Union CDA (Amended)  | -                     | 0.7045                                    | -                                   | 0.0557                                         |
| 56       | Calstock NDA  | Union ECDA           | -                     | 0.6750                                    | -                                   | 0.0531                                         |
| 57       | Centram MDA   | Empress              | -                     | 0.5817                                    | -                                   | 0.0485                                         |
| 58       | Centram MDA   | TransGas SSDA        | -                     | 0.3410                                    | -                                   | 0.0252                                         |
| 59       | Centram MDA   | Centram SSDA         | -                     | 0.2424                                    | -                                   | 0.0157                                         |
| 60       | Centram MDA   | Centram MDA          | -                     | 0.0927                                    | -                                   | 0.0012                                         |
| 61       | Centram MDA   | Centrat MDA          | -                     | 0.1612                                    | -                                   | 0.0078                                         |
| 62       | Centram MDA   | Union WDA            | -                     | 0.4412                                    | -                                   | 0.0349                                         |
| 63       | Centram MDA   | Nipigon WDA          | -                     | 0.5238                                    | -                                   | 0.0429                                         |
| 64       | Centram MDA   | Union NDA            | -                     | 0.9409                                    | -                                   | 0.0833                                         |
| 65       | Centram MDA   | Calstock NDA         | -                     | 0.7072                                    | -                                   | 0.0607                                         |
| 66       | Centram MDA   | Tunis NDA            | -                     | 0.8517                                    | -                                   | 0.0747                                         |
| 67       | Centram MDA   | GMIT NDA             | -                     | 0.9706                                    | -                                   | 0.0862                                         |
| 68       | Centram MDA   | Union SSMDA          | -                     | 0.8074                                    | -                                   | 0.0704                                         |
| 69       | Centram MDA   | Union NCDA           | -                     | 1.2183                                    | -                                   | 0.1021                                         |
| 70       | Centram MDA   | Union CDA            | -                     | 1.2700                                    | -                                   | 0.1068                                         |
| 71       | Centram MDA   | Union EDA            | -                     | 1.3981                                    | -                                   | 0.1183                                         |
| 72       | Centram MDA   | Enbridge CDA         | -                     | 1.3023                                    | -                                   | 0.1097                                         |
| 73       | Centram MDA   | Enbridge Parkway CDA | -                     | 1.2669                                    | -                                   | 0.1065                                         |
| 74       | Centram MDA   | Enbridge EDA         | -                     | 1.3580                                    | -                                   | 0.1147                                         |
| 75       | Centram MDA   | KPUC EDA             | -                     | 1.4370                                    | -                                   | 0.1218                                         |
| 76       | Centram MDA   | GMIT EDA             | -                     | 1.4908                                    | -                                   | 0.1267                                         |
| 77       | Centram MDA   | Enbridge SWDA        | -                     | 1.1318                                    | -                                   | 0.0943                                         |
| 78       | Centram MDA   | Union SWDA           | -                     | 1.1296                                    | -                                   | 0.0941                                         |
| 79       | Centram MDA   | Chippawa             | -                     | 1.3119                                    | -                                   | 0.1105                                         |
| 80       | Centram MDA   | Cornwall             | -                     | 1.3903                                    | -                                   | 0.1176                                         |
| 81       | Centram MDA   | East Hereford        | -                     | 1.6024                                    | -                                   | 0.1367                                         |
| 82       | Centram MDA   | Emerson 1            | -                     | 0.1720                                    | -                                   | 0.0088                                         |

| Line No. | Receipt Point | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Centram MDA   | Emerson 2            | -                     | 0.1720                                    | -                                   | 0.0088                                         |
| 2        | Centram MDA   | Iroquois             | -                     | 1.3705                                    | -                                   | 0.1158                                         |
| 3        | Centram MDA   | Kirkwall             | -                     | 1.2442                                    | -                                   | 0.1044                                         |
| 4        | Centram MDA   | Napierville          | -                     | 1.4818                                    | -                                   | 0.1259                                         |
| 5        | Centram MDA   | Niagara Falls        | -                     | 1.3105                                    | -                                   | 0.1104                                         |
| 6        | Centram MDA   | North Bay Junction   | -                     | 1.0373                                    | -                                   | 0.0927                                         |
| 7        | Centram MDA   | Philipsburg          | -                     | 1.4922                                    | -                                   | 0.1268                                         |
| 8        | Centram MDA   | Spruce               | -                     | 0.1612                                    | -                                   | 0.0078                                         |
| 9        | Centram MDA   | St. Clair            | -                     | 1.0408                                    | -                                   | 0.0930                                         |
| 10       | Centram MDA   | Welwyn               | -                     | 0.2424                                    | -                                   | 0.0157                                         |
| 11       | Centram MDA   | Dawn Export          | -                     | 1.1318                                    | -                                   | 0.0943                                         |
| 12       | Centram MDA   | Union Parkway Belt   | -                     | 1.2669                                    | -                                   | 0.1065                                         |
| 13       | Centram MDA   | Union CDA (Amended)  | -                     | 1.2637                                    | -                                   | 0.1062                                         |
| 14       | Centram MDA   | Union ECDA           | -                     | 1.2738                                    | -                                   | 0.1071                                         |
| 15       | Centram SSDA  | Empress              | -                     | 0.4320                                    | -                                   | 0.0340                                         |
| 16       | Centram SSDA  | TransGas SSDA        | -                     | 0.1913                                    | -                                   | 0.0107                                         |
| 17       | Centram SSDA  | Centram SSDA         | -                     | 0.0927                                    | -                                   | 0.0012                                         |
| 18       | Centram SSDA  | Centram MDA          | -                     | 0.2424                                    | -                                   | 0.0157                                         |
| 19       | Centram SSDA  | Centrat MDA          | -                     | 0.3094                                    | -                                   | 0.0222                                         |
| 20       | Centram SSDA  | Union WDA            | -                     | 0.5895                                    | -                                   | 0.0493                                         |
| 21       | Centram SSDA  | Nipigon WDA          | -                     | 0.6720                                    | -                                   | 0.0573                                         |
| 22       | Centram SSDA  | Union NDA            | -                     | 1.0893                                    | -                                   | 0.0977                                         |
| 23       | Centram SSDA  | Calstock NDA         | -                     | 0.8555                                    | -                                   | 0.0751                                         |
| 24       | Centram SSDA  | Tunis NDA            | -                     | 0.9999                                    | -                                   | 0.0890                                         |
| 25       | Centram SSDA  | GMIT NDA             | -                     | 1.1188                                    | -                                   | 0.1006                                         |
| 26       | Centram SSDA  | Union SSM DA         | -                     | 0.9565                                    | -                                   | 0.0848                                         |
| 27       | Centram SSDA  | Union NCDA           | -                     | 1.3775                                    | -                                   | 0.1165                                         |
| 28       | Centram SSDA  | Union CDA            | -                     | 1.4302                                    | -                                   | 0.1212                                         |
| 29       | Centram SSDA  | Union EDA            | -                     | 1.5582                                    | -                                   | 0.1328                                         |
| 30       | Centram SSDA  | Enbridge CDA         | -                     | 1.4627                                    | -                                   | 0.1241                                         |
| 31       | Centram SSDA  | Enbridge Parkway CDA | -                     | 1.4271                                    | -                                   | 0.1209                                         |
| 32       | Centram SSDA  | Enbridge EDA         | -                     | 1.5174                                    | -                                   | 0.1291                                         |
| 33       | Centram SSDA  | KPUC EDA             | -                     | 1.5974                                    | -                                   | 0.1363                                         |
| 34       | Centram SSDA  | GMIT EDA             | -                     | 1.6501                                    | -                                   | 0.1410                                         |
| 35       | Centram SSDA  | Enbridge SWDA        | -                     | 1.2919                                    | -                                   | 0.1087                                         |
| 36       | Centram SSDA  | Union SWDA           | -                     | 1.2898                                    | -                                   | 0.1085                                         |
| 37       | Centram SSDA  | Chippawa             | -                     | 1.4721                                    | -                                   | 0.1250                                         |
| 38       | Centram SSDA  | Cornwall             | -                     | 1.5495                                    | -                                   | 0.1320                                         |
| 39       | Centram SSDA  | East Hereford        | -                     | 1.7616                                    | -                                   | 0.1511                                         |
| 40       | Centram SSDA  | Emerson 1            | -                     | 0.3211                                    | -                                   | 0.0233                                         |
| 41       | Centram SSDA  | Emerson 2            | -                     | 0.3211                                    | -                                   | 0.0233                                         |
| 42       | Centram SSDA  | Iroquois             | -                     | 1.5297                                    | -                                   | 0.1302                                         |
| 43       | Centram SSDA  | Kirkwall             | -                     | 1.4043                                    | -                                   | 0.1189                                         |
| 44       | Centram SSDA  | Napierville          | -                     | 1.6410                                    | -                                   | 0.1402                                         |
| 45       | Centram SSDA  | Niagara Falls        | -                     | 1.4707                                    | -                                   | 0.1249                                         |
| 46       | Centram SSDA  | North Bay Junction   | -                     | 1.1856                                    | -                                   | 0.1070                                         |
| 47       | Centram SSDA  | Philipsburg          | -                     | 1.6514                                    | -                                   | 0.1412                                         |
| 48       | Centram SSDA  | Spruce               | -                     | 0.3094                                    | -                                   | 0.0222                                         |
| 49       | Centram SSDA  | St. Clair            | -                     | 1.1900                                    | -                                   | 0.1075                                         |
| 50       | Centram SSDA  | Welwyn               | -                     | 0.0927                                    | -                                   | 0.0012                                         |
| 51       | Centram SSDA  | Dawn Export          | -                     | 1.2919                                    | -                                   | 0.1087                                         |
| 52       | Centram SSDA  | Union Parkway Belt   | -                     | 1.4271                                    | -                                   | 0.1209                                         |
| 53       | Centram SSDA  | Union CDA (Amended)  | -                     | 1.4238                                    | -                                   | 0.1206                                         |
| 54       | Centram SSDA  | Union ECDA           | -                     | 1.4339                                    | -                                   | 0.1215                                         |
| 55       | Centrat MDA   | Empress              | -                     | 0.6487                                    | -                                   | 0.0550                                         |
| 56       | Centrat MDA   | TransGas SSDA        | -                     | 0.4080                                    | -                                   | 0.0317                                         |
| 57       | Centrat MDA   | Centram SSDA         | -                     | 0.3094                                    | -                                   | 0.0222                                         |
| 58       | Centrat MDA   | Centram MDA          | -                     | 0.1612                                    | -                                   | 0.0078                                         |
| 59       | Centrat MDA   | Centrat MDA          | -                     | 0.0927                                    | -                                   | 0.0012                                         |
| 60       | Centrat MDA   | Union WDA            | -                     | 0.3728                                    | -                                   | 0.0283                                         |
| 61       | Centrat MDA   | Nipigon WDA          | -                     | 0.4553                                    | -                                   | 0.0363                                         |
| 62       | Centrat MDA   | Union NDA            | -                     | 0.8727                                    | -                                   | 0.0767                                         |
| 63       | Centrat MDA   | Calstock NDA         | -                     | 0.6388                                    | -                                   | 0.0541                                         |
| 64       | Centrat MDA   | Tunis NDA            | -                     | 0.7832                                    | -                                   | 0.0681                                         |
| 65       | Centrat MDA   | GMIT NDA             | -                     | 0.9021                                    | -                                   | 0.0796                                         |
| 66       | Centrat MDA   | Union SSM DA         | -                     | 0.8068                                    | -                                   | 0.0703                                         |
| 67       | Centrat MDA   | Union NCDA           | -                     | 1.1448                                    | -                                   | 0.0955                                         |
| 68       | Centrat MDA   | Union CDA            | -                     | 1.2620                                    | -                                   | 0.1060                                         |
| 69       | Centrat MDA   | Union EDA            | -                     | 1.3276                                    | -                                   | 0.1120                                         |
| 70       | Centrat MDA   | Enbridge CDA         | -                     | 1.2462                                    | -                                   | 0.1046                                         |
| 71       | Centrat MDA   | Enbridge Parkway CDA | -                     | 1.2545                                    | -                                   | 0.1054                                         |
| 72       | Centrat MDA   | Enbridge EDA         | -                     | 1.2851                                    | -                                   | 0.1081                                         |
| 73       | Centrat MDA   | KPUC EDA             | -                     | 1.3647                                    | -                                   | 0.1153                                         |
| 74       | Centrat MDA   | GMIT EDA             | -                     | 1.4174                                    | -                                   | 0.1201                                         |
| 75       | Centrat MDA   | Enbridge SWDA        | -                     | 1.1312                                    | -                                   | 0.0942                                         |
| 76       | Centrat MDA   | Union SWDA           | -                     | 1.1291                                    | -                                   | 0.0940                                         |
| 77       | Centrat MDA   | Chippawa             | -                     | 1.3113                                    | -                                   | 0.1105                                         |
| 78       | Centrat MDA   | Cornwall             | -                     | 1.3168                                    | -                                   | 0.1110                                         |
| 79       | Centrat MDA   | East Hereford        | -                     | 1.5289                                    | -                                   | 0.1301                                         |
| 80       | Centrat MDA   | Emerson 1            | -                     | 0.1715                                    | -                                   | 0.0088                                         |
| 81       | Centrat MDA   | Emerson 2            | -                     | 0.1715                                    | -                                   | 0.0088                                         |
| 82       | Centrat MDA   | Iroquois             | -                     | 1.2970                                    | -                                   | 0.1092                                         |

| Line No. | Receipt Point | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Centrat MDA   | Kirkwall             | -                     | 1.2436                                    | -                                   | 0.1044                                         |
| 2        | Centrat MDA   | Napierville          | -                     | 1.4083                                    | -                                   | 0.1192                                         |
| 3        | Centrat MDA   | Niagara Falls        | -                     | 1.3099                                    | -                                   | 0.1104                                         |
| 4        | Centrat MDA   | North Bay Junction   | -                     | 0.9689                                    | -                                   | 0.0860                                         |
| 5        | Centrat MDA   | Philipsburg          | -                     | 1.4187                                    | -                                   | 0.1202                                         |
| 6        | Centrat MDA   | Spruce               | -                     | 0.0927                                    | -                                   | 0.0012                                         |
| 7        | Centrat MDA   | St. Clair            | -                     | 1.0403                                    | -                                   | 0.0930                                         |
| 8        | Centrat MDA   | Welwyn               | -                     | 0.3094                                    | -                                   | 0.0222                                         |
| 9        | Centrat MDA   | Dawn Export          | -                     | 1.1312                                    | -                                   | 0.0942                                         |
| 10       | Centrat MDA   | Union Parkway Belt   | -                     | 1.2545                                    | -                                   | 0.1054                                         |
| 11       | Centrat MDA   | Union CDA (Amended)  | -                     | 1.2631                                    | -                                   | 0.1061                                         |
| 12       | Centrat MDA   | Union ECDA           | -                     | 1.2613                                    | -                                   | 0.1060                                         |
| 13       | Chippawa      | Empress              | 74.54182              | 2.4507                                    | 4.81416                             | 0.1578                                         |
| 14       | Chippawa      | TransGas SSDA        | 64.05233              | 2.1058                                    | 4.10315                             | 0.1345                                         |
| 15       | Chippawa      | Centram SSDA         | 59.75506              | 1.9646                                    | 3.81187                             | 0.1250                                         |
| 16       | Chippawa      | Centram MDA          | 53.25411              | 1.7508                                    | 3.37124                             | 0.1105                                         |
| 17       | Chippawa      | Centrat MDA          | 53.23038              | 1.7500                                    | 3.36963                             | 0.1105                                         |
| 18       | Chippawa      | Union WDA            | 42.98483              | 1.4132                                    | 2.67514                             | 0.0877                                         |
| 19       | Chippawa      | Nipigon WDA          | 38.38492              | 1.2620                                    | 2.36336                             | 0.0775                                         |
| 20       | Chippawa      | Union NDA            | 20.19363              | 0.6639                                    | 1.13030                             | 0.0371                                         |
| 21       | Chippawa      | Calstock NDA         | 30.38808              | 0.9991                                    | 1.82130                             | 0.0597                                         |
| 22       | Chippawa      | Tunis NDA            | 24.09183              | 0.7921                                    | 1.39454                             | 0.0457                                         |
| 23       | Chippawa      | GMIT NDA             | 19.41313              | 0.6382                                    | 1.07742                             | 0.0353                                         |
| 24       | Chippawa      | Union SSMDA          | 26.06769              | 0.8570                                    | 1.52848                             | 0.0501                                         |
| 25       | Chippawa      | Union NCDA           | 11.75878              | 0.3866                                    | 0.55858                             | 0.0183                                         |
| 26       | Chippawa      | Union CDA            | 6.64604               | 0.2185                                    | 0.21202                             | 0.0070                                         |
| 27       | Chippawa      | Union EDA            | 15.10826              | 0.4967                                    | 0.78561                             | 0.0258                                         |
| 28       | Chippawa      | Enbridge CDA         | 8.38435               | 0.2757                                    | 0.32986                             | 0.0108                                         |
| 29       | Chippawa      | Enbridge Parkway CDA | 7.30852               | 0.2403                                    | 0.25694                             | 0.0084                                         |
| 30       | Chippawa      | Enbridge EDA         | 18.43098              | 0.6060                                    | 1.01084                             | 0.0331                                         |
| 31       | Chippawa      | KPUC EDA             | 14.65688              | 0.4819                                    | 0.75501                             | 0.0248                                         |
| 32       | Chippawa      | GMIT EDA             | 22.74072              | 0.7476                                    | 1.30297                             | 0.0427                                         |
| 33       | Chippawa      | Enbridge SWDA        | 11.35454              | 0.3733                                    | 0.53119                             | 0.0174                                         |
| 34       | Chippawa      | Union SWDA           | 11.44153              | 0.3762                                    | 0.53709                             | 0.0176                                         |
| 35       | Chippawa      | Chippawa             | 4.04238               | 0.1329                                    | 0.03553                             | 0.0012                                         |
| 36       | Chippawa      | Cornwall             | 18.65515              | 0.6133                                    | 1.02602                             | 0.0336                                         |
| 37       | Chippawa      | East Hereford        | 27.26763              | 0.8965                                    | 1.60981                             | 0.0528                                         |
| 38       | Chippawa      | Emerson 1            | 49.79969              | 1.6373                                    | 3.13706                             | 0.1029                                         |
| 39       | Chippawa      | Emerson 2            | 49.79969              | 1.6373                                    | 3.13706                             | 0.1029                                         |
| 40       | Chippawa      | Iroquois             | 17.63102              | 0.5797                                    | 0.95660                             | 0.0314                                         |
| 41       | Chippawa      | Kirkwall             | 6.79326               | 0.2233                                    | 0.22199                             | 0.0073                                         |
| 42       | Chippawa      | Napierville          | 22.36963              | 0.7354                                    | 1.27782                             | 0.0419                                         |
| 43       | Chippawa      | Niagara Falls        | 4.97708               | 0.1636                                    | 0.09891                             | 0.0032                                         |
| 44       | Chippawa      | North Bay Junction   | 16.00069              | 0.5261                                    | 0.84609                             | 0.0277                                         |
| 45       | Chippawa      | Philipsburg          | 22.79182              | 0.7493                                    | 1.30643                             | 0.0428                                         |
| 46       | Chippawa      | Spruce               | 53.23038              | 1.7500                                    | 3.36963                             | 0.1105                                         |
| 47       | Chippawa      | St. Clair            | 11.93094              | 0.3923                                    | 0.57025                             | 0.0187                                         |
| 48       | Chippawa      | Welwyn               | 59.75506              | 1.9646                                    | 3.81187                             | 0.1250                                         |
| 49       | Chippawa      | Dawn Export          | 11.35454              | 0.3733                                    | 0.53119                             | 0.0174                                         |
| 50       | Chippawa      | Union Parkway Belt   | 7.30852               | 0.2403                                    | 0.25694                             | 0.0084                                         |
| 51       | Chippawa      | Union CDA (Amended)  | 5.99938               | 0.1972                                    | 0.16820                             | 0.0055                                         |
| 52       | Chippawa      | Union ECDA           | 7.03020               | 0.2311                                    | 0.23806                             | 0.0078                                         |
| 53       | Cornwall      | Empress              | 77.68356              | 2.5540                                    | 5.02710                             | 0.1648                                         |
| 54       | Cornwall      | TransGas SSDA        | 67.19407              | 2.2091                                    | 4.31610                             | 0.1415                                         |
| 55       | Cornwall      | Centram SSDA         | 62.89650              | 2.0678                                    | 4.02481                             | 0.1320                                         |
| 56       | Cornwall      | Centram MDA          | 56.43387              | 1.8554                                    | 3.58677                             | 0.1176                                         |
| 57       | Cornwall      | Centrat MDA          | 53.45121              | 1.7573                                    | 3.38460                             | 0.1110                                         |
| 58       | Cornwall      | Union WDA            | 42.24693              | 1.3889                                    | 2.62516                             | 0.0861                                         |
| 59       | Cornwall      | Nipigon WDA          | 37.64793              | 1.2377                                    | 2.31341                             | 0.0759                                         |
| 60       | Cornwall      | Union NDA            | 19.47488              | 0.6403                                    | 1.08161                             | 0.0355                                         |
| 61       | Cornwall      | Calstock NDA         | 29.65138              | 0.9748                                    | 1.77137                             | 0.0581                                         |
| 62       | Cornwall      | Tunis NDA            | 23.35513              | 0.7678                                    | 1.34459                             | 0.0441                                         |
| 63       | Cornwall      | GMIT NDA             | 18.67644              | 0.6140                                    | 1.02746                             | 0.0337                                         |
| 64       | Cornwall      | Union SSMDA          | 35.58720              | 1.1700                                    | 2.17371                             | 0.0713                                         |
| 65       | Cornwall      | Union NCDA           | 17.28944              | 0.5684                                    | 0.93346                             | 0.0306                                         |
| 66       | Cornwall      | Union CDA            | 16.11323              | 0.5298                                    | 0.85374                             | 0.0280                                         |
| 67       | Cornwall      | Union EDA            | 7.62972               | 0.2508                                    | 0.27871                             | 0.0091                                         |
| 68       | Cornwall      | Enbridge CDA         | 14.67300              | 0.4824                                    | 0.75610                             | 0.0248                                         |
| 69       | Cornwall      | Enbridge Parkway CDA | 15.38840              | 0.5059                                    | 0.80461                             | 0.0264                                         |
| 70       | Cornwall      | Enbridge EDA         | 7.08100               | 0.2328                                    | 0.24152                             | 0.0079                                         |
| 71       | Cornwall      | KPUC EDA             | 8.04065               | 0.2644                                    | 0.30654                             | 0.0101                                         |
| 72       | Cornwall      | GMIT EDA             | 8.12855               | 0.2672                                    | 0.31252                             | 0.0103                                         |
| 73       | Cornwall      | Enbridge SWDA        | 20.87405              | 0.6863                                    | 1.17644                             | 0.0386                                         |
| 74       | Cornwall      | Union SWDA           | 20.96104              | 0.6891                                    | 1.18234                             | 0.0388                                         |
| 75       | Cornwall      | Chippawa             | 18.65515              | 0.6133                                    | 1.02602                             | 0.0336                                         |
| 76       | Cornwall      | Cornwall             | 4.04238               | 0.1329                                    | 0.03553                             | 0.0012                                         |
| 77       | Cornwall      | East Hereford        | 12.65485              | 0.4161                                    | 0.61932                             | 0.0203                                         |
| 78       | Cornwall      | Emerson 1            | 56.88251              | 1.8701                                    | 3.61717                             | 0.1186                                         |
| 79       | Cornwall      | Emerson 2            | 56.88251              | 1.8701                                    | 3.61717                             | 0.1186                                         |
| 80       | Cornwall      | Iroquois             | 5.29007               | 0.1739                                    | 0.12011                             | 0.0039                                         |
| 81       | Cornwall      | Kirkwall             | 16.31215              | 0.5363                                    | 0.86723                             | 0.0284                                         |
| 82       | Cornwall      | Napierville          | 7.75686               | 0.2550                                    | 0.28733                             | 0.0094                                         |

| Line No. | Receipt Point | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Cornwall      | Niagara Falls        | 18.59736              | 0.6114                                    | 1.02210                             | 0.0335                                         |
| 2        | Cornwall      | North Bay Junction   | 15.26339              | 0.5018                                    | 0.79613                             | 0.0261                                         |
| 3        | Cornwall      | Philipsburg          | 8.17904               | 0.2689                                    | 0.31594                             | 0.0104                                         |
| 4        | Cornwall      | Spruce               | 53.45121              | 1.7573                                    | 3.38460                             | 0.1110                                         |
| 5        | Cornwall      | St. Clair            | 21.45044              | 0.7052                                    | 1.21549                             | 0.0399                                         |
| 6        | Cornwall      | Welwyn               | 62.89650              | 2.0678                                    | 4.02481                             | 0.1320                                         |
| 7        | Cornwall      | Dawn Export          | 20.87405              | 0.6863                                    | 1.17644                             | 0.0386                                         |
| 8        | Cornwall      | Union Parkway Belt   | 15.38840              | 0.5059                                    | 0.80461                             | 0.0264                                         |
| 9        | Cornwall      | Union CDA (Amended)  | 16.86391              | 0.5544                                    | 0.90461                             | 0.0297                                         |
| 10       | Cornwall      | Union ECDA           | 15.66671              | 0.5151                                    | 0.82347                             | 0.0270                                         |
| 11       | East Hereford | Empress              | 86.29604              | 2.8371                                    | 5.61088                             | 0.1840                                         |
| 12       | East Hereford | TransGas SSDA        | 75.80624              | 2.4923                                    | 4.89987                             | 0.1607                                         |
| 13       | East Hereford | Centram SSDA         | 71.50958              | 2.3510                                    | 4.60861                             | 0.1511                                         |
| 14       | East Hereford | Centram MDA          | 65.04695              | 2.1385                                    | 4.17059                             | 0.1367                                         |
| 15       | East Hereford | Centrat MDA          | 62.06399              | 2.0405                                    | 3.96838                             | 0.1301                                         |
| 16       | East Hereford | Union WDA            | 50.86032              | 1.6721                                    | 3.20896                             | 0.1052                                         |
| 17       | East Hereford | Nipigon WDA          | 46.26040              | 1.5209                                    | 2.89719                             | 0.0950                                         |
| 18       | East Hereford | Union NDA            | 28.08705              | 0.9234                                    | 1.66536                             | 0.0546                                         |
| 19       | East Hereford | Calstock NDA         | 38.26386              | 1.2580                                    | 2.35515                             | 0.0772                                         |
| 20       | East Hereford | Tunis NDA            | 31.96761              | 1.0510                                    | 1.92839                             | 0.0632                                         |
| 21       | East Hereford | GMIT NDA             | 27.28892              | 0.8972                                    | 1.61125                             | 0.0528                                         |
| 22       | East Hereford | Union SSM DA         | 44.19998              | 1.4532                                    | 2.75751                             | 0.0904                                         |
| 23       | East Hereford | Union NCDA           | 25.90223              | 0.8516                                    | 1.51726                             | 0.0498                                         |
| 24       | East Hereford | Union CDA            | 24.72571              | 0.8129                                    | 1.43753                             | 0.0471                                         |
| 25       | East Hereford | Union EDA            | 16.24280              | 0.5340                                    | 0.86253                             | 0.0283                                         |
| 26       | East Hereford | Enbridge CDA         | 23.28609              | 0.7656                                    | 1.33991                             | 0.0439                                         |
| 27       | East Hereford | Enbridge Parkway CDA | 24.00088              | 0.7891                                    | 1.38839                             | 0.0455                                         |
| 28       | East Hereford | Enbridge EDA         | 15.66337              | 0.5150                                    | 0.82326                             | 0.0270                                         |
| 29       | East Hereford | KPUC EDA             | 16.65313              | 0.5475                                    | 0.89032                             | 0.0292                                         |
| 30       | East Hereford | GMIT EDA             | 11.28702              | 0.3711                                    | 0.52660                             | 0.0173                                         |
| 31       | East Hereford | Enbridge SWDA        | 29.48683              | 0.9694                                    | 1.76022                             | 0.0577                                         |
| 32       | East Hereford | Union SWDA           | 29.57382              | 0.9723                                    | 1.76612                             | 0.0579                                         |
| 33       | East Hereford | Chippawa             | 27.26763              | 0.8965                                    | 1.60981                             | 0.0528                                         |
| 34       | East Hereford | Cornwall             | 12.65485              | 0.4161                                    | 0.61932                             | 0.0203                                         |
| 35       | East Hereford | East Hereford        | 4.04238               | 0.1329                                    | 0.03553                             | 0.0012                                         |
| 36       | East Hereford | Emerson 1            | 65.49530              | 2.1533                                    | 4.20096                             | 0.1377                                         |
| 37       | East Hereford | Emerson 2            | 65.49530              | 2.1533                                    | 4.20096                             | 0.1377                                         |
| 38       | East Hereford | Iroquois             | 13.90255              | 0.4571                                    | 0.70390                             | 0.0231                                         |
| 39       | East Hereford | Kirkwall             | 24.92494              | 0.8195                                    | 1.45101                             | 0.0476                                         |
| 40       | East Hereford | Napierville          | 13.44782              | 0.4421                                    | 0.67305                             | 0.0221                                         |
| 41       | East Hereford | Niagara Falls        | 27.21014              | 0.8946                                    | 1.60589                             | 0.0527                                         |
| 42       | East Hereford | North Bay Junction   | 23.87648              | 0.7850                                    | 1.37994                             | 0.0452                                         |
| 43       | East Hereford | Philipsburg          | 13.86970              | 0.4560                                    | 0.70167                             | 0.0230                                         |
| 44       | East Hereford | Spruce               | 62.06399              | 2.0405                                    | 3.96838                             | 0.1301                                         |
| 45       | East Hereford | St. Clair            | 30.06323              | 0.9884                                    | 1.79928                             | 0.0590                                         |
| 46       | East Hereford | Welwyn               | 71.50958              | 2.3510                                    | 4.60861                             | 0.1511                                         |
| 47       | East Hereford | Dawn Export          | 29.48683              | 0.9694                                    | 1.76022                             | 0.0577                                         |
| 48       | East Hereford | Union Parkway Belt   | 24.00088              | 0.7891                                    | 1.38839                             | 0.0455                                         |
| 49       | East Hereford | Union CDA (Amended)  | 25.47670              | 0.8376                                    | 1.48840                             | 0.0488                                         |
| 50       | East Hereford | Union ECDA           | 24.27950              | 0.7982                                    | 1.40727                             | 0.0461                                         |
| 51       | Emerson 1     | Empress              | 20.08686              | 0.6604                                    | 1.71263                             | 0.0562                                         |
| 52       | Emerson 1     | TransGas SSDA        | 12.76709              | 0.4197                                    | 1.00165                             | 0.0328                                         |
| 53       | Emerson 1     | Centram SSDA         | 9.76801               | 0.3211                                    | 0.71034                             | 0.0233                                         |
| 54       | Emerson 1     | Centram MDA          | 5.23197               | 0.1720                                    | 0.26971                             | 0.0088                                         |
| 55       | Emerson 1     | Centrat MDA          | 5.21524               | 0.1715                                    | 0.26810                             | 0.0088                                         |
| 56       | Emerson 1     | Union WDA            | 13.73495              | 0.4516                                    | 1.09564                             | 0.0359                                         |
| 57       | Emerson 1     | Nipigon WDA          | 16.24311              | 0.5340                                    | 1.33929                             | 0.0439                                         |
| 58       | Emerson 1     | Union NDA            | 28.93781              | 0.9514                                    | 2.57232                             | 0.0843                                         |
| 59       | Emerson 1     | Calstock NDA         | 21.82396              | 0.7175                                    | 1.88133                             | 0.0617                                         |
| 60       | Emerson 1     | Tunis NDA            | 26.21765              | 0.8620                                    | 2.30812                             | 0.0757                                         |
| 61       | Emerson 1     | GMIT NDA             | 29.83358              | 0.9808                                    | 2.65933                             | 0.0872                                         |
| 62       | Emerson 1     | Union SSM DA         | 22.14668              | 0.7281                                    | 1.91267                             | 0.0627                                         |
| 63       | Emerson 1     | Union NCDA           | 37.38999              | 1.2293                                    | 3.14381                             | 0.1031                                         |
| 64       | Emerson 1     | Union CDA            | 36.04071              | 1.1849                                    | 3.02175                             | 0.0991                                         |
| 65       | Emerson 1     | Union EDA            | 41.25990              | 1.3565                                    | 3.49388                             | 0.1146                                         |
| 66       | Emerson 1     | Enbridge CDA         | 37.26346              | 1.2251                                    | 3.13237                             | 0.1027                                         |
| 67       | Emerson 1     | Enbridge Parkway CDA | 35.94642              | 1.1818                                    | 3.01323                             | 0.0988                                         |
| 68       | Emerson 1     | Enbridge EDA         | 41.36758              | 1.3600                                    | 3.50363                             | 0.1149                                         |
| 69       | Emerson 1     | KPUC EDA             | 41.45275              | 1.3628                                    | 3.51130                             | 0.1151                                         |
| 70       | Emerson 1     | GMIT EDA             | 45.68553              | 1.5020                                    | 3.89422                             | 0.1277                                         |
| 71       | Emerson 1     | Enbridge SWDA        | 31.83591              | 1.0467                                    | 2.64140                             | 0.0866                                         |
| 72       | Emerson 1     | Union SWDA           | 31.77082              | 1.0445                                    | 2.63550                             | 0.0864                                         |
| 73       | Emerson 1     | Chippawa             | 37.31547              | 1.2268                                    | 3.13706                             | 0.1029                                         |
| 74       | Emerson 1     | Cornwall             | 42.62288              | 1.4013                                    | 3.61717                             | 0.1186                                         |
| 75       | Emerson 1     | East Hereford        | 49.07668              | 1.6135                                    | 4.20096                             | 0.1377                                         |
| 76       | Emerson 1     | Emerson 1            | 2.82084               | 0.0927                                    | 0.03553                             | 0.0012                                         |
| 77       | Emerson 1     | Emerson 2            | 2.82084               | 0.0927                                    | 0.03553                             | 0.0012                                         |
| 78       | Emerson 1     | Iroquois             | 42.02063              | 1.3815                                    | 3.56269                             | 0.1168                                         |
| 79       | Emerson 1     | Kirkwall             | 35.25413              | 1.1590                                    | 2.95061                             | 0.0967                                         |
| 80       | Emerson 1     | Napierville          | 45.40630              | 1.4928                                    | 3.86897                             | 0.1269                                         |
| 81       | Emerson 1     | Niagara Falls        | 37.27198              | 1.2254                                    | 3.13314                             | 0.1027                                         |
| 82       | Emerson 1     | North Bay Junction   | 31.86420              | 1.0476                                    | 2.85657                             | 0.0937                                         |

| Line No. | Receipt Point        | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|----------------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Emerson 1            | Philipsburg          | 45.72264              | 1.5032                                    | 3.89758                             | 0.1278                                         |
| 2        | Emerson 1            | Spruce               | 5.21524               | 0.1715                                    | 0.26810                             | 0.0088                                         |
| 3        | Emerson 1            | St. Clair            | 29.24684              | 0.9615                                    | 2.60234                             | 0.0853                                         |
| 4        | Emerson 1            | Welwyn               | 9.76801               | 0.3211                                    | 0.71034                             | 0.0233                                         |
| 5        | Emerson 1            | Dawn Export          | 31.83591              | 1.0467                                    | 2.64140                             | 0.0866                                         |
| 6        | Emerson 1            | Union Parkway Belt   | 35.94642              | 1.1818                                    | 3.01323                             | 0.0988                                         |
| 7        | Emerson 1            | Union CDA (Amended)  | 35.84878              | 1.1786                                    | 3.00439                             | 0.0985                                         |
| 8        | Emerson 1            | Union ECDA           | 36.15477              | 1.1887                                    | 3.03209                             | 0.0994                                         |
| 9        | Emerson 2            | Empress              | 20.08686              | 0.6604                                    | 1.71263                             | 0.0562                                         |
| 10       | Emerson 2            | TransGas SSDA        | 12.76709              | 0.4197                                    | 1.00165                             | 0.0328                                         |
| 11       | Emerson 2            | Centram SSDA         | 9.76801               | 0.3211                                    | 0.71034                             | 0.0233                                         |
| 12       | Emerson 2            | Centram MDA          | 5.23197               | 0.1720                                    | 0.26971                             | 0.0088                                         |
| 13       | Emerson 2            | Centrat MDA          | 5.21524               | 0.1715                                    | 0.26810                             | 0.0088                                         |
| 14       | Emerson 2            | Union WDA            | 13.73495              | 0.4516                                    | 1.09564                             | 0.0359                                         |
| 15       | Emerson 2            | Nipigon WDA          | 16.24311              | 0.5340                                    | 1.33929                             | 0.0439                                         |
| 16       | Emerson 2            | Union NDA            | 28.93781              | 0.9514                                    | 2.57232                             | 0.0843                                         |
| 17       | Emerson 2            | Calstock NDA         | 21.82396              | 0.7175                                    | 1.88133                             | 0.0617                                         |
| 18       | Emerson 2            | Tunis NDA            | 26.21765              | 0.8620                                    | 2.30812                             | 0.0757                                         |
| 19       | Emerson 2            | GMIT NDA             | 29.83358              | 0.9808                                    | 2.65933                             | 0.0872                                         |
| 20       | Emerson 2            | Union SSMDA          | 22.14668              | 0.7281                                    | 1.91267                             | 0.0627                                         |
| 21       | Emerson 2            | Union NCDA           | 37.38999              | 1.2293                                    | 3.14381                             | 0.1031                                         |
| 22       | Emerson 2            | Union CDA            | 36.04071              | 1.1849                                    | 3.02175                             | 0.0991                                         |
| 23       | Emerson 2            | Union EDA            | 41.25990              | 1.3565                                    | 3.49388                             | 0.1146                                         |
| 24       | Emerson 2            | Enbridge CDA         | 37.26346              | 1.2251                                    | 3.13237                             | 0.1027                                         |
| 25       | Emerson 2            | Enbridge Parkway CDA | 35.94642              | 1.1818                                    | 3.01323                             | 0.0988                                         |
| 26       | Emerson 2            | Enbridge EDA         | 41.36758              | 1.3600                                    | 3.50363                             | 0.1149                                         |
| 27       | Emerson 2            | KPUC EDA             | 41.45275              | 1.3628                                    | 3.51130                             | 0.1151                                         |
| 28       | Emerson 2            | GMIT EDA             | 45.68553              | 1.5020                                    | 3.89422                             | 0.1277                                         |
| 29       | Emerson 2            | Enbridge SWDA        | 31.83591              | 1.0467                                    | 2.64140                             | 0.0866                                         |
| 30       | Emerson 2            | Union SWDA           | 31.77082              | 1.0445                                    | 2.63550                             | 0.0864                                         |
| 31       | Emerson 2            | Chippawa             | 37.31547              | 1.2268                                    | 3.13706                             | 0.1029                                         |
| 32       | Emerson 2            | Cornwall             | 42.62288              | 1.4013                                    | 3.61717                             | 0.1186                                         |
| 33       | Emerson 2            | East Hereford        | 49.07668              | 1.6135                                    | 4.20096                             | 0.1377                                         |
| 34       | Emerson 2            | Emerson 1            | 2.82084               | 0.0927                                    | 0.03553                             | 0.0012                                         |
| 35       | Emerson 2            | Emerson 2            | 2.82084               | 0.0927                                    | 0.03553                             | 0.0012                                         |
| 36       | Emerson 2            | Iroquois             | 42.02063              | 1.3815                                    | 3.56269                             | 0.1168                                         |
| 37       | Emerson 2            | Kirkwall             | 35.25413              | 1.1590                                    | 2.95061                             | 0.0967                                         |
| 38       | Emerson 2            | Napierville          | 45.40630              | 1.4928                                    | 3.86897                             | 0.1269                                         |
| 39       | Emerson 2            | Niagara Falls        | 37.27198              | 1.2254                                    | 3.13314                             | 0.1027                                         |
| 40       | Emerson 2            | North Bay Junction   | 31.86420              | 1.0476                                    | 2.85657                             | 0.0937                                         |
| 41       | Emerson 2            | Philipsburg          | 45.72264              | 1.5032                                    | 3.89758                             | 0.1278                                         |
| 42       | Emerson 2            | Spruce               | 5.21524               | 0.1715                                    | 0.26810                             | 0.0088                                         |
| 43       | Emerson 2            | St. Clair            | 29.24684              | 0.9615                                    | 2.60234                             | 0.0853                                         |
| 44       | Emerson 2            | Welwyn               | 9.76801               | 0.3211                                    | 0.71034                             | 0.0233                                         |
| 45       | Emerson 2            | Dawn Export          | 31.83591              | 1.0467                                    | 2.64140                             | 0.0866                                         |
| 46       | Emerson 2            | Union Parkway Belt   | 35.94642              | 1.1818                                    | 3.01323                             | 0.0988                                         |
| 47       | Emerson 2            | Union CDA (Amended)  | 35.84878              | 1.1786                                    | 3.00439                             | 0.0985                                         |
| 48       | Emerson 2            | Union ECDA           | 36.15477              | 1.1887                                    | 3.03209                             | 0.0994                                         |
| 49       | Enbridge Parkway CDA | Empress              | -                     | 2.3906                                    | -                                   | 0.1538                                         |
| 50       | Enbridge Parkway CDA | TransGas SSDA        | -                     | 2.0458                                    | -                                   | 0.1305                                         |
| 51       | Enbridge Parkway CDA | Centram SSDA         | -                     | 1.9045                                    | -                                   | 0.1209                                         |
| 52       | Enbridge Parkway CDA | Centram MDA          | -                     | 1.6908                                    | -                                   | 0.1065                                         |
| 53       | Enbridge Parkway CDA | Centrat MDA          | -                     | 1.6741                                    | -                                   | 0.1054                                         |
| 54       | Enbridge Parkway CDA | Union WDA            | -                     | 1.3058                                    | -                                   | 0.0805                                         |
| 55       | Enbridge Parkway CDA | Nipigon WDA          | -                     | 1.1546                                    | -                                   | 0.0702                                         |
| 56       | Enbridge Parkway CDA | Union NDA            | -                     | 0.5565                                    | -                                   | 0.0298                                         |
| 57       | Enbridge Parkway CDA | Calstock NDA         | -                     | 0.8917                                    | -                                   | 0.0525                                         |
| 58       | Enbridge Parkway CDA | Tunis NDA            | -                     | 0.6847                                    | -                                   | 0.0385                                         |
| 59       | Enbridge Parkway CDA | GMIT NDA             | -                     | 0.5308                                    | -                                   | 0.0281                                         |
| 60       | Enbridge Parkway CDA | Union SSMDA          | -                     | 0.7970                                    | -                                   | 0.0461                                         |
| 61       | Enbridge Parkway CDA | Union NCDA           | -                     | 0.2792                                    | -                                   | 0.0111                                         |
| 62       | Enbridge Parkway CDA | Union CDA            | -                     | 0.1567                                    | -                                   | 0.0028                                         |
| 63       | Enbridge Parkway CDA | Union EDA            | -                     | 0.3893                                    | -                                   | 0.0185                                         |
| 64       | Enbridge Parkway CDA | Enbridge CDA         | -                     | 0.1991                                    | -                                   | 0.0056                                         |
| 65       | Enbridge Parkway CDA | Enbridge Parkway CDA | -                     | 0.1329                                    | -                                   | 0.0012                                         |
| 66       | Enbridge Parkway CDA | Enbridge EDA         | -                     | 0.4986                                    | -                                   | 0.0259                                         |
| 67       | Enbridge Parkway CDA | KPUC EDA             | -                     | 0.3745                                    | -                                   | 0.0175                                         |
| 68       | Enbridge Parkway CDA | GMIT EDA             | -                     | 0.6403                                    | -                                   | 0.0355                                         |
| 69       | Enbridge Parkway CDA | Enbridge SWDA        | -                     | 0.3133                                    | -                                   | 0.0134                                         |
| 70       | Enbridge Parkway CDA | Union SWDA           | -                     | 0.3161                                    | -                                   | 0.0136                                         |
| 71       | Enbridge Parkway CDA | Chippawa             | -                     | 0.2403                                    | -                                   | 0.0084                                         |
| 72       | Enbridge Parkway CDA | Cornwall             | -                     | 0.5059                                    | -                                   | 0.0264                                         |
| 73       | Enbridge Parkway CDA | East Hereford        | -                     | 0.7891                                    | -                                   | 0.0455                                         |
| 74       | Enbridge Parkway CDA | Emerson 1            | -                     | 1.5772                                    | -                                   | 0.0988                                         |
| 75       | Enbridge Parkway CDA | Emerson 2            | -                     | 1.5772                                    | -                                   | 0.0988                                         |
| 76       | Enbridge Parkway CDA | Iroquois             | -                     | 0.4723                                    | -                                   | 0.0241                                         |
| 77       | Enbridge Parkway CDA | Kirkwall             | -                     | 0.1633                                    | -                                   | 0.0032                                         |
| 78       | Enbridge Parkway CDA | Napierville          | -                     | 0.6281                                    | -                                   | 0.0346                                         |
| 79       | Enbridge Parkway CDA | Niagara Falls        | -                     | 0.2384                                    | -                                   | 0.0083                                         |
| 80       | Enbridge Parkway CDA | North Bay Junction   | -                     | 0.4187                                    | -                                   | 0.0205                                         |
| 81       | Enbridge Parkway CDA | Philipsburg          | -                     | 0.6419                                    | -                                   | 0.0356                                         |
| 82       | Enbridge Parkway CDA | Spruce               | -                     | 1.6741                                    | -                                   | 0.1054                                         |

| Line No. | Receipt Point        | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|----------------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Enbridge Parkway CDA | St. Clair            | -                     | 0.3322                                    | -                                   | 0.0146                                         |
| 2        | Enbridge Parkway CDA | Welwyn               | -                     | 1.9045                                    | -                                   | 0.1209                                         |
| 3        | Enbridge Parkway CDA | Dawn Export          | -                     | 0.3133                                    | -                                   | 0.0134                                         |
| 4        | Enbridge Parkway CDA | Union Parkway Belt   | -                     | 0.1329                                    | -                                   | 0.0012                                         |
| 5        | Enbridge Parkway CDA | Union CDA (Amended)  | -                     | 0.1814                                    | -                                   | 0.0044                                         |
| 6        | Enbridge Parkway CDA | Union ECDA           | -                     | 0.1421                                    | -                                   | 0.0018                                         |
| 7        | Enbridge CDA         | Empress              | -                     | 2.4382                                    | -                                   | 0.1570                                         |
| 8        | Enbridge CDA         | TransGas SSDA        | -                     | 2.0933                                    | -                                   | 0.1337                                         |
| 9        | Enbridge CDA         | Centram SSDA         | -                     | 1.9521                                    | -                                   | 0.1241                                         |
| 10       | Enbridge CDA         | Centram MDA          | -                     | 1.7380                                    | -                                   | 0.1097                                         |
| 11       | Enbridge CDA         | Centrat MDA          | -                     | 1.6632                                    | -                                   | 0.1046                                         |
| 12       | Enbridge CDA         | Union WDA            | -                     | 1.3004                                    | -                                   | 0.0801                                         |
| 13       | Enbridge CDA         | Nipigon WDA          | -                     | 1.1491                                    | -                                   | 0.0699                                         |
| 14       | Enbridge CDA         | Union NDA            | -                     | 0.5509                                    | -                                   | 0.0294                                         |
| 15       | Enbridge CDA         | Calstock NDA         | -                     | 0.8862                                    | -                                   | 0.0521                                         |
| 16       | Enbridge CDA         | Tunis NDA            | -                     | 0.6792                                    | -                                   | 0.0381                                         |
| 17       | Enbridge CDA         | GMIT NDA             | -                     | 0.5254                                    | -                                   | 0.0277                                         |
| 18       | Enbridge CDA         | Union SSM DA         | -                     | 0.8547                                    | -                                   | 0.0500                                         |
| 19       | Enbridge CDA         | Union NCDA           | -                     | 0.2737                                    | -                                   | 0.0107                                         |
| 20       | Enbridge CDA         | Union CDA            | -                     | 0.2148                                    | -                                   | 0.0067                                         |
| 21       | Enbridge CDA         | Union EDA            | -                     | 0.3656                                    | -                                   | 0.0169                                         |
| 22       | Enbridge CDA         | Enbridge CDA         | -                     | 0.1329                                    | -                                   | 0.0012                                         |
| 23       | Enbridge CDA         | Enbridge Parkway CDA | -                     | 0.1991                                    | -                                   | 0.0056                                         |
| 24       | Enbridge CDA         | Enbridge EDA         | -                     | 0.4749                                    | -                                   | 0.0243                                         |
| 25       | Enbridge CDA         | KPUC EDA             | -                     | 0.3510                                    | -                                   | 0.0159                                         |
| 26       | Enbridge CDA         | GMIT EDA             | -                     | 0.6165                                    | -                                   | 0.0339                                         |
| 27       | Enbridge CDA         | Enbridge SWDA        | -                     | 0.3710                                    | -                                   | 0.0173                                         |
| 28       | Enbridge CDA         | Union SWDA           | -                     | 0.3739                                    | -                                   | 0.0175                                         |
| 29       | Enbridge CDA         | Chippawa             | -                     | 0.2757                                    | -                                   | 0.0108                                         |
| 30       | Enbridge CDA         | Cornwall             | -                     | 0.4824                                    | -                                   | 0.0248                                         |
| 31       | Enbridge CDA         | East Hereford        | -                     | 0.7656                                    | -                                   | 0.0439                                         |
| 32       | Enbridge CDA         | Emerson 1            | -                     | 1.6350                                    | -                                   | 0.1027                                         |
| 33       | Enbridge CDA         | Emerson 2            | -                     | 1.6350                                    | -                                   | 0.1027                                         |
| 34       | Enbridge CDA         | Iroquois             | -                     | 0.4487                                    | -                                   | 0.0225                                         |
| 35       | Enbridge CDA         | Kirkwall             | -                     | 0.2212                                    | -                                   | 0.0071                                         |
| 36       | Enbridge CDA         | Napierville          | -                     | 0.6046                                    | -                                   | 0.0331                                         |
| 37       | Enbridge CDA         | Niagara Falls        | -                     | 0.2731                                    | -                                   | 0.0106                                         |
| 38       | Enbridge CDA         | North Bay Junction   | -                     | 0.4133                                    | -                                   | 0.0201                                         |
| 39       | Enbridge CDA         | Philipsburg          | -                     | 0.6184                                    | -                                   | 0.0340                                         |
| 40       | Enbridge CDA         | Spruce               | -                     | 1.6632                                    | -                                   | 0.1046                                         |
| 41       | Enbridge CDA         | St. Clair            | -                     | 0.3901                                    | -                                   | 0.0186                                         |
| 42       | Enbridge CDA         | Welwyn               | -                     | 1.9521                                    | -                                   | 0.1241                                         |
| 43       | Enbridge CDA         | Dawn Export          | -                     | 0.3711                                    | -                                   | 0.0173                                         |
| 44       | Enbridge CDA         | Union Parkway Belt   | -                     | 0.1991                                    | -                                   | 0.0056                                         |
| 45       | Enbridge CDA         | Union CDA (Amended)  | -                     | 0.2313                                    | -                                   | 0.0078                                         |
| 46       | Enbridge CDA         | Union ECDA           | -                     | 0.2050                                    | -                                   | 0.0060                                         |
| 47       | Enbridge EDA         | Empress              | -                     | 2.5112                                    | -                                   | 0.1619                                         |
| 48       | Enbridge EDA         | TransGas SSDA        | -                     | 2.1663                                    | -                                   | 0.1386                                         |
| 49       | Enbridge EDA         | Centram SSDA         | -                     | 2.0250                                    | -                                   | 0.1291                                         |
| 50       | Enbridge EDA         | Centram MDA          | -                     | 1.8123                                    | -                                   | 0.1147                                         |
| 51       | Enbridge EDA         | Centrat MDA          | -                     | 1.7151                                    | -                                   | 0.1081                                         |
| 52       | Enbridge EDA         | Union WDA            | -                     | 1.3467                                    | -                                   | 0.0832                                         |
| 53       | Enbridge EDA         | Nipigon WDA          | -                     | 1.1956                                    | -                                   | 0.0730                                         |
| 54       | Enbridge EDA         | Union NDA            | -                     | 0.5979                                    | -                                   | 0.0326                                         |
| 55       | Enbridge EDA         | Calstock NDA         | -                     | 0.9326                                    | -                                   | 0.0552                                         |
| 56       | Enbridge EDA         | Tunis NDA            | -                     | 0.7256                                    | -                                   | 0.0412                                         |
| 57       | Enbridge EDA         | GMIT NDA             | -                     | 0.5718                                    | -                                   | 0.0308                                         |
| 58       | Enbridge EDA         | Union SSM DA         | -                     | 1.1626                                    | -                                   | 0.0708                                         |
| 59       | Enbridge EDA         | Union NCDA           | -                     | 0.5343                                    | -                                   | 0.0283                                         |
| 60       | Enbridge EDA         | Union CDA            | -                     | 0.5224                                    | -                                   | 0.0275                                         |
| 61       | Enbridge EDA         | Union EDA            | -                     | 0.2733                                    | -                                   | 0.0107                                         |
| 62       | Enbridge EDA         | Enbridge CDA         | -                     | 0.4749                                    | -                                   | 0.0243                                         |
| 63       | Enbridge EDA         | Enbridge Parkway CDA | -                     | 0.4986                                    | -                                   | 0.0259                                         |
| 64       | Enbridge EDA         | Enbridge EDA         | -                     | 0.1329                                    | -                                   | 0.0012                                         |
| 65       | Enbridge EDA         | KPUC EDA             | -                     | 0.2802                                    | -                                   | 0.0111                                         |
| 66       | Enbridge EDA         | GMIT EDA             | -                     | 0.3660                                    | -                                   | 0.0169                                         |
| 67       | Enbridge EDA         | Enbridge SWDA        | -                     | 0.6789                                    | -                                   | 0.0381                                         |
| 68       | Enbridge EDA         | Union SWDA           | -                     | 0.6818                                    | -                                   | 0.0383                                         |
| 69       | Enbridge EDA         | Chippawa             | -                     | 0.6060                                    | -                                   | 0.0331                                         |
| 70       | Enbridge EDA         | Cornwall             | -                     | 0.2328                                    | -                                   | 0.0079                                         |
| 71       | Enbridge EDA         | East Hereford        | -                     | 0.5150                                    | -                                   | 0.0270                                         |
| 72       | Enbridge EDA         | Emerson 1            | -                     | 1.8150                                    | -                                   | 0.1149                                         |
| 73       | Enbridge EDA         | Emerson 2            | -                     | 1.8150                                    | -                                   | 0.1149                                         |
| 74       | Enbridge EDA         | Iroquois             | -                     | 0.2113                                    | -                                   | 0.0065                                         |
| 75       | Enbridge EDA         | Kirkwall             | -                     | 0.5290                                    | -                                   | 0.0279                                         |
| 76       | Enbridge EDA         | Napierville          | -                     | 0.3540                                    | -                                   | 0.0161                                         |
| 77       | Enbridge EDA         | Niagara Falls        | -                     | 0.6041                                    | -                                   | 0.0330                                         |
| 78       | Enbridge EDA         | North Bay Junction   | -                     | 0.4596                                    | -                                   | 0.0233                                         |
| 79       | Enbridge EDA         | Philipsburg          | -                     | 0.3678                                    | -                                   | 0.0171                                         |
| 80       | Enbridge EDA         | Spruce               | -                     | 1.7151                                    | -                                   | 0.1081                                         |
| 81       | Enbridge EDA         | St. Clair            | -                     | 0.6979                                    | -                                   | 0.0394                                         |
| 82       | Enbridge EDA         | Welwyn               | -                     | 2.0250                                    | -                                   | 0.1291                                         |

| Line No. | Receipt Point | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Enbridge EDA  | Dawn Export          | -                     | 0.6789                                    | -                                   | 0.0381                                         |
| 2        | Enbridge EDA  | Union Parkway Belt   | -                     | 0.4986                                    | -                                   | 0.0259                                         |
| 3        | Enbridge EDA  | Union CDA (Amended)  | -                     | 0.5471                                    | -                                   | 0.0292                                         |
| 4        | Enbridge EDA  | Union ECDA           | -                     | 0.5077                                    | -                                   | 0.0265                                         |
| 5        | GMIT EDA      | Empress              | -                     | 2.6883                                    | -                                   | 0.1739                                         |
| 6        | GMIT EDA      | TransGas SSDA        | -                     | 2.3434                                    | -                                   | 0.1506                                         |
| 7        | GMIT EDA      | Centram SSDA         | -                     | 2.2022                                    | -                                   | 0.1410                                         |
| 8        | GMIT EDA      | Centram MDA          | -                     | 1.9896                                    | -                                   | 0.1267                                         |
| 9        | GMIT EDA      | Centrat MDA          | -                     | 1.8916                                    | -                                   | 0.1201                                         |
| 10       | GMIT EDA      | Union WDA            | -                     | 1.5233                                    | -                                   | 0.0952                                         |
| 11       | GMIT EDA      | Nipigon WDA          | -                     | 1.3721                                    | -                                   | 0.0849                                         |
| 12       | GMIT EDA      | Union NDA            | -                     | 0.7742                                    | -                                   | 0.0445                                         |
| 13       | GMIT EDA      | Calstock NDA         | -                     | 1.1092                                    | -                                   | 0.0672                                         |
| 14       | GMIT EDA      | Tunis NDA            | -                     | 0.9022                                    | -                                   | 0.0532                                         |
| 15       | GMIT EDA      | GMIT NDA             | -                     | 0.7483                                    | -                                   | 0.0428                                         |
| 16       | GMIT EDA      | Union SSM DA         | -                     | 1.3043                                    | -                                   | 0.0804                                         |
| 17       | GMIT EDA      | Union NCDA           | -                     | 0.7027                                    | -                                   | 0.0397                                         |
| 18       | GMIT EDA      | Union CDA            | -                     | 0.6641                                    | -                                   | 0.0371                                         |
| 19       | GMIT EDA      | Union EDA            | -                     | 0.3848                                    | -                                   | 0.0182                                         |
| 20       | GMIT EDA      | Enbridge CDA         | -                     | 0.6165                                    | -                                   | 0.0339                                         |
| 21       | GMIT EDA      | Enbridge Parkway CDA | -                     | 0.6403                                    | -                                   | 0.0355                                         |
| 22       | GMIT EDA      | Enbridge EDA         | -                     | 0.3660                                    | -                                   | 0.0169                                         |
| 23       | GMIT EDA      | KPUC EDA             | -                     | 0.3987                                    | -                                   | 0.0191                                         |
| 24       | GMIT EDA      | GMIT EDA             | -                     | 0.1329                                    | -                                   | 0.0012                                         |
| 25       | GMIT EDA      | Enbridge SWDA        | -                     | 0.8206                                    | -                                   | 0.0477                                         |
| 26       | GMIT EDA      | Union SWDA           | -                     | 0.8235                                    | -                                   | 0.0479                                         |
| 27       | GMIT EDA      | Chippawa             | -                     | 0.7476                                    | -                                   | 0.0427                                         |
| 28       | GMIT EDA      | Cornwall             | -                     | 0.2672                                    | -                                   | 0.0103                                         |
| 29       | GMIT EDA      | East Hereford        | -                     | 0.3711                                    | -                                   | 0.0173                                         |
| 30       | GMIT EDA      | Emerson 1            | -                     | 2.0045                                    | -                                   | 0.1277                                         |
| 31       | GMIT EDA      | Emerson 2            | -                     | 2.0045                                    | -                                   | 0.1277                                         |
| 32       | GMIT EDA      | Iroquois             | -                     | 0.3083                                    | -                                   | 0.0130                                         |
| 33       | GMIT EDA      | Kirkwall             | -                     | 0.6706                                    | -                                   | 0.0375                                         |
| 34       | GMIT EDA      | Napierville          | -                     | 0.2763                                    | -                                   | 0.0109                                         |
| 35       | GMIT EDA      | Niagara Falls        | -                     | 0.7458                                    | -                                   | 0.0426                                         |
| 36       | GMIT EDA      | North Bay Junction   | -                     | 0.6362                                    | -                                   | 0.0352                                         |
| 37       | GMIT EDA      | Philipsburg          | -                     | 0.2881                                    | -                                   | 0.0117                                         |
| 38       | GMIT EDA      | Spruce               | -                     | 1.8916                                    | -                                   | 0.1201                                         |
| 39       | GMIT EDA      | St. Clair            | -                     | 0.8396                                    | -                                   | 0.0489                                         |
| 40       | GMIT EDA      | Welwyn               | -                     | 2.2022                                    | -                                   | 0.1410                                         |
| 41       | GMIT EDA      | Dawn Export          | -                     | 0.8206                                    | -                                   | 0.0477                                         |
| 42       | GMIT EDA      | Union Parkway Belt   | -                     | 0.6403                                    | -                                   | 0.0355                                         |
| 43       | GMIT EDA      | Union CDA (Amended)  | -                     | 0.6888                                    | -                                   | 0.0387                                         |
| 44       | GMIT EDA      | Union ECDA           | -                     | 0.6494                                    | -                                   | 0.0361                                         |
| 45       | GMIT NDA      | Empress              | -                     | 1.4581                                    | -                                   | 0.1334                                         |
| 46       | GMIT NDA      | TransGas SSDA        | -                     | 1.2174                                    | -                                   | 0.1101                                         |
| 47       | GMIT NDA      | Centram SSDA         | -                     | 1.1188                                    | -                                   | 0.1006                                         |
| 48       | GMIT NDA      | Centram MDA          | -                     | 0.9706                                    | -                                   | 0.0862                                         |
| 49       | GMIT NDA      | Centrat MDA          | -                     | 0.9021                                    | -                                   | 0.0796                                         |
| 50       | GMIT NDA      | Union WDA            | -                     | 0.6451                                    | -                                   | 0.0547                                         |
| 51       | GMIT NDA      | Nipigon WDA          | -                     | 0.5395                                    | -                                   | 0.0444                                         |
| 52       | GMIT NDA      | Union NDA            | -                     | 0.1848                                    | -                                   | 0.0101                                         |
| 53       | GMIT NDA      | Calstock NDA         | -                     | 0.3561                                    | -                                   | 0.0267                                         |
| 54       | GMIT NDA      | Tunis NDA            | -                     | 0.2116                                    | -                                   | 0.0127                                         |
| 55       | GMIT NDA      | GMIT NDA             | -                     | 0.0927                                    | -                                   | 0.0012                                         |
| 56       | GMIT NDA      | Union SSM DA         | -                     | 0.8339                                    | -                                   | 0.0730                                         |
| 57       | GMIT NDA      | Union NCDA           | -                     | 0.2881                                    | -                                   | 0.0182                                         |
| 58       | GMIT NDA      | Union CDA            | -                     | 0.4156                                    | -                                   | 0.0297                                         |
| 59       | GMIT NDA      | Union EDA            | -                     | 0.4710                                    | -                                   | 0.0347                                         |
| 60       | GMIT NDA      | Enbridge CDA         | -                     | 0.3937                                    | -                                   | 0.0277                                         |
| 61       | GMIT NDA      | Enbridge Parkway CDA | -                     | 0.3978                                    | -                                   | 0.0281                                         |
| 62       | GMIT NDA      | Enbridge EDA         | -                     | 0.4285                                    | -                                   | 0.0308                                         |
| 63       | GMIT NDA      | KPUC EDA             | -                     | 0.5080                                    | -                                   | 0.0380                                         |
| 64       | GMIT NDA      | GMIT EDA             | -                     | 0.5608                                    | -                                   | 0.0428                                         |
| 65       | GMIT NDA      | Enbridge SWDA        | -                     | 0.5329                                    | -                                   | 0.0403                                         |
| 66       | GMIT NDA      | Union SWDA           | -                     | 0.5351                                    | -                                   | 0.0405                                         |
| 67       | GMIT NDA      | Chippawa             | -                     | 0.4782                                    | -                                   | 0.0353                                         |
| 68       | GMIT NDA      | Cornwall             | -                     | 0.4601                                    | -                                   | 0.0337                                         |
| 69       | GMIT NDA      | East Hereford        | -                     | 0.6723                                    | -                                   | 0.0528                                         |
| 70       | GMIT NDA      | Emerson 1            | -                     | 0.9808                                    | -                                   | 0.0872                                         |
| 71       | GMIT NDA      | Emerson 2            | -                     | 0.9808                                    | -                                   | 0.0872                                         |
| 72       | GMIT NDA      | Iroquois             | -                     | 0.4403                                    | -                                   | 0.0319                                         |
| 73       | GMIT NDA      | Kirkwall             | -                     | 0.4205                                    | -                                   | 0.0301                                         |
| 74       | GMIT NDA      | Napierville          | -                     | 0.5516                                    | -                                   | 0.0419                                         |
| 75       | GMIT NDA      | Niagara Falls        | -                     | 0.4768                                    | -                                   | 0.0352                                         |
| 76       | GMIT NDA      | North Bay Junction   | -                     | 0.1710                                    | -                                   | 0.0088                                         |
| 77       | GMIT NDA      | Philipsburg          | -                     | 0.5620                                    | -                                   | 0.0429                                         |
| 78       | GMIT NDA      | Spruce               | -                     | 0.9021                                    | -                                   | 0.0796                                         |
| 79       | GMIT NDA      | St. Clair            | -                     | 0.5095                                    | -                                   | 0.0415                                         |
| 80       | GMIT NDA      | Welwyn               | -                     | 1.1188                                    | -                                   | 0.1006                                         |
| 81       | GMIT NDA      | Dawn Export          | -                     | 0.5329                                    | -                                   | 0.0403                                         |
| 82       | GMIT NDA      | Union Parkway Belt   | -                     | 0.3978                                    | -                                   | 0.0281                                         |

| Line No. | Receipt Point | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | GMIT NDA      | Union CDA (Amended)  | -                     | 0.4341                                    | -                                   | 0.0313                                         |
| 2        | GMIT NDA      | Union ECDA           | -                     | 0.4046                                    | -                                   | 0.0287                                         |
| 3        | Grand Coulee  | Empress              | 9.13291               | 0.3003                                    | 0.64864                             | 0.0213                                         |
| 4        | Grand Coulee  | TransGas SSDA        | 4.01135               | 0.1319                                    | 0.15117                             | 0.0050                                         |
| 5        | Grand Coulee  | Centram SSDA         | 6.82763               | 0.2245                                    | 0.42471                             | 0.0139                                         |
| 6        | Grand Coulee  | Centram MDA          | 11.38070              | 0.3742                                    | 0.86697                             | 0.0284                                         |
| 7        | Grand Coulee  | Centrat MDA          | 13.41892              | 0.4412                                    | 1.06493                             | 0.0349                                         |
| 8        | Grand Coulee  | Union WDA            | 21.93833              | 0.7213                                    | 1.89246                             | 0.0621                                         |
| 9        | Grand Coulee  | Nipigon WDA          | 24.44709              | 0.8037                                    | 2.13612                             | 0.0700                                         |
| 10       | Grand Coulee  | Union NDA            | 37.14149              | 1.2211                                    | 3.36916                             | 0.1105                                         |
| 11       | Grand Coulee  | Calstock NDA         | 30.02764              | 0.9872                                    | 2.67817                             | 0.0878                                         |
| 12       | Grand Coulee  | Tunis NDA            | 34.42102              | 1.1317                                    | 3.10494                             | 0.1018                                         |
| 13       | Grand Coulee  | GMIT NDA             | 38.03695              | 1.2505                                    | 3.45617                             | 0.1133                                         |
| 14       | Grand Coulee  | Union SSMMDA         | 33.10063              | 1.0882                                    | 2.97666                             | 0.0976                                         |
| 15       | Grand Coulee  | Union NCDA           | 46.20140              | 1.5190                                    | 3.94088                             | 0.1292                                         |
| 16       | Grand Coulee  | Union CDA            | 47.80283              | 1.5716                                    | 4.08574                             | 0.1340                                         |
| 17       | Grand Coulee  | Union EDA            | 51.69738              | 1.6996                                    | 4.43802                             | 0.1455                                         |
| 18       | Grand Coulee  | Enbridge CDA         | 48.79320              | 1.6042                                    | 4.17532                             | 0.1369                                         |
| 19       | Grand Coulee  | Enbridge Parkway CDA | 47.70854              | 1.5685                                    | 4.07722                             | 0.1337                                         |
| 20       | Grand Coulee  | Enbridge EDA         | 50.45699              | 1.6589                                    | 4.32581                             | 0.1418                                         |
| 21       | Grand Coulee  | KPUC EDA             | 52.89033              | 1.7389                                    | 4.54594                             | 0.1491                                         |
| 22       | Grand Coulee  | GMIT EDA             | 54.49359              | 1.7916                                    | 4.69095                             | 0.1538                                         |
| 23       | Grand Coulee  | Enbridge SWDA        | 43.59834              | 1.4334                                    | 3.70539                             | 0.1215                                         |
| 24       | Grand Coulee  | Union SWDA           | 43.53294              | 1.4312                                    | 3.69949                             | 0.1213                                         |
| 25       | Grand Coulee  | Chippawa             | 49.07760              | 1.6135                                    | 4.20105                             | 0.1377                                         |
| 26       | Grand Coulee  | Cornwall             | 51.43154              | 1.6909                                    | 4.41399                             | 0.1447                                         |
| 27       | Grand Coulee  | East Hereford        | 57.88565              | 1.9031                                    | 4.99780                             | 0.1639                                         |
| 28       | Grand Coulee  | Emerson 1            | 13.77480              | 0.4529                                    | 1.09952                             | 0.0361                                         |
| 29       | Grand Coulee  | Emerson 2            | 13.77480              | 0.4529                                    | 1.09952                             | 0.0361                                         |
| 30       | Grand Coulee  | Iroquois             | 50.82929              | 1.6711                                    | 4.35952                             | 0.1429                                         |
| 31       | Grand Coulee  | Kirkwall             | 47.01626              | 1.5457                                    | 4.01460                             | 0.1316                                         |
| 32       | Grand Coulee  | Napierville          | 54.21528              | 1.7824                                    | 4.66579                             | 0.1530                                         |
| 33       | Grand Coulee  | Niagara Falls        | 49.03440              | 1.6121                                    | 4.19714                             | 0.1376                                         |
| 34       | Grand Coulee  | North Bay Junction   | 40.06757              | 1.3173                                    | 3.65339                             | 0.1198                                         |
| 35       | Grand Coulee  | Philipsburg          | 54.53130              | 1.7928                                    | 4.69441                             | 0.1539                                         |
| 36       | Grand Coulee  | Spruce               | 13.41892              | 0.4412                                    | 1.06493                             | 0.0349                                         |
| 37       | Grand Coulee  | St. Clair            | 40.20110              | 1.3217                                    | 3.66634                             | 0.1202                                         |
| 38       | Grand Coulee  | Welwyn               | 6.82763               | 0.2245                                    | 0.42471                             | 0.0139                                         |
| 39       | Grand Coulee  | Dawn Export          | 43.59834              | 1.4334                                    | 3.70539                             | 0.1215                                         |
| 40       | Grand Coulee  | Union Parkway Belt   | 47.70854              | 1.5685                                    | 4.07722                             | 0.1337                                         |
| 41       | Grand Coulee  | Union CDA (Amended)  | 47.61121              | 1.5653                                    | 4.06839                             | 0.1334                                         |
| 42       | Grand Coulee  | Union ECDA           | 47.91720              | 1.5754                                    | 4.09608                             | 0.1343                                         |
| 43       | Herbert       | Empress              | 6.07269               | 0.1997                                    | 0.35139                             | 0.0115                                         |
| 44       | Herbert       | TransGas SSDA        | 6.96633               | 0.2290                                    | 0.43820                             | 0.0144                                         |
| 45       | Herbert       | Centram SSDA         | 9.88785               | 0.3251                                    | 0.72196                             | 0.0237                                         |
| 46       | Herbert       | Centram MDA          | 14.44031              | 0.4748                                    | 1.16418                             | 0.0382                                         |
| 47       | Herbert       | Centrat MDA          | 16.47914              | 0.5418                                    | 1.36219                             | 0.0447                                         |
| 48       | Herbert       | Union WDA            | 24.99885              | 0.8219                                    | 2.18971                             | 0.0718                                         |
| 49       | Herbert       | Nipigon WDA          | 27.50731              | 0.9044                                    | 2.43338                             | 0.0798                                         |
| 50       | Herbert       | Union NDA            | 40.20171              | 1.3217                                    | 3.66640                             | 0.1202                                         |
| 51       | Herbert       | Calstock NDA         | 33.08755              | 1.0878                                    | 2.97542                             | 0.0976                                         |
| 52       | Herbert       | Tunis NDA            | 37.48155              | 1.2323                                    | 3.40218                             | 0.1116                                         |
| 53       | Herbert       | GMIT NDA             | 41.09748              | 1.3512                                    | 3.75341                             | 0.1231                                         |
| 54       | Herbert       | Union SSMMDA         | 36.16085              | 1.1889                                    | 3.27392                             | 0.1073                                         |
| 55       | Herbert       | Union NCDA           | 49.48761              | 1.6270                                    | 4.23813                             | 0.1390                                         |
| 56       | Herbert       | Union CDA            | 51.08905              | 1.6796                                    | 4.38300                             | 0.1437                                         |
| 57       | Herbert       | Union EDA            | 54.98299              | 1.8077                                    | 4.73526                             | 0.1553                                         |
| 58       | Herbert       | Enbridge CDA         | 52.07911              | 1.7122                                    | 4.47258                             | 0.1466                                         |
| 59       | Herbert       | Enbridge Parkway CDA | 50.99476              | 1.6765                                    | 4.37446                             | 0.1434                                         |
| 60       | Herbert       | Enbridge EDA         | 53.74290              | 1.7669                                    | 4.62307                             | 0.1516                                         |
| 61       | Herbert       | KPUC EDA             | 56.17624              | 1.8469                                    | 4.84318                             | 0.1588                                         |
| 62       | Herbert       | GMIT EDA             | 57.77980              | 1.8996                                    | 4.98824                             | 0.1636                                         |
| 63       | Herbert       | Enbridge SWDA        | 46.88425              | 1.5414                                    | 4.00264                             | 0.1312                                         |
| 64       | Herbert       | Union SWDA           | 46.81885              | 1.5393                                    | 3.99675                             | 0.1310                                         |
| 65       | Herbert       | Chippawa             | 52.36381              | 1.7216                                    | 4.49831                             | 0.1475                                         |
| 66       | Herbert       | Cornwall             | 54.71776              | 1.7989                                    | 4.71125                             | 0.1545                                         |
| 67       | Herbert       | East Hereford        | 61.17126              | 2.0111                                    | 5.29504                             | 0.1736                                         |
| 68       | Herbert       | Emerson 1            | 16.83532              | 0.5535                                    | 1.39677                             | 0.0458                                         |
| 69       | Herbert       | Emerson 2            | 16.83532              | 0.5535                                    | 1.39677                             | 0.0458                                         |
| 70       | Herbert       | Iroquois             | 54.11551              | 1.7791                                    | 4.65676                             | 0.1527                                         |
| 71       | Herbert       | Kirkwall             | 50.30248              | 1.6538                                    | 4.31184                             | 0.1414                                         |
| 72       | Herbert       | Napierville          | 57.50149              | 1.8905                                    | 4.96305                             | 0.1627                                         |
| 73       | Herbert       | Niagara Falls        | 52.32062              | 1.7201                                    | 4.49440                             | 0.1474                                         |
| 74       | Herbert       | North Bay Junction   | 43.12810              | 1.4179                                    | 3.95063                             | 0.1295                                         |
| 75       | Herbert       | Philipsburg          | 57.81752              | 1.9009                                    | 4.99167                             | 0.1637                                         |
| 76       | Herbert       | Spruce               | 16.47914              | 0.5418                                    | 1.36219                             | 0.0447                                         |
| 77       | Herbert       | St. Clair            | 43.26102              | 1.4223                                    | 3.96358                             | 0.1300                                         |
| 78       | Herbert       | Welwyn               | 9.88785               | 0.3251                                    | 0.72196                             | 0.0237                                         |
| 79       | Herbert       | Dawn Export          | 46.88425              | 1.5414                                    | 4.00264                             | 0.1312                                         |
| 80       | Herbert       | Union Parkway Belt   | 50.99476              | 1.6765                                    | 4.37446                             | 0.1434                                         |
| 81       | Herbert       | Union CDA (Amended)  | 50.89682              | 1.6733                                    | 4.36563                             | 0.1431                                         |
| 82       | Herbert       | Union ECDA           | 51.20311              | 1.6834                                    | 4.39333                             | 0.1440                                         |

| Line No. | Receipt Point | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Iroquois      | Empress              | 76.87965              | 2.5276                                    | 4.97262                             | 0.1630                                         |
| 2        | Iroquois      | TransGas SSDA        | 66.39076              | 2.1827                                    | 4.26164                             | 0.1397                                         |
| 3        | Iroquois      | Centram SSDA         | 62.09289              | 2.0414                                    | 3.97033                             | 0.1302                                         |
| 4        | Iroquois      | Centram MDA          | 55.63117              | 1.8290                                    | 3.53233                             | 0.1158                                         |
| 5        | Iroquois      | Centrat MDA          | 52.64790              | 1.7309                                    | 3.33012                             | 0.1092                                         |
| 6        | Iroquois      | Union WDA            | 41.44423              | 1.3626                                    | 2.57071                             | 0.0843                                         |
| 7        | Iroquois      | Nipigon WDA          | 36.84462              | 1.2113                                    | 2.25893                             | 0.0741                                         |
| 8        | Iroquois      | Union NDA            | 18.67127              | 0.6139                                    | 1.02712                             | 0.0337                                         |
| 9        | Iroquois      | Calstock NDA         | 28.84747              | 0.9484                                    | 1.71689                             | 0.0563                                         |
| 10       | Iroquois      | Tunis NDA            | 22.55122              | 0.7414                                    | 1.29011                             | 0.0423                                         |
| 11       | Iroquois      | GMIT NDA             | 17.87314              | 0.5876                                    | 0.97300                             | 0.0319                                         |
| 12       | Iroquois      | Union SSMDA          | 34.56246              | 1.1363                                    | 2.10429                             | 0.0690                                         |
| 13       | Iroquois      | Union NCDA           | 16.32037              | 0.5366                                    | 0.86775                             | 0.0285                                         |
| 14       | Iroquois      | Union CDA            | 15.08910              | 0.4961                                    | 0.78432                             | 0.0257                                         |
| 15       | Iroquois      | Union EDA            | 6.75950               | 0.2222                                    | 0.21972                             | 0.0072                                         |
| 16       | Iroquois      | Enbridge CDA         | 13.64887              | 0.4487                                    | 0.68669                             | 0.0225                                         |
| 17       | Iroquois      | Enbridge Parkway CDA | 14.36427              | 0.4723                                    | 0.73518                             | 0.0241                                         |
| 18       | Iroquois      | Enbridge EDA         | 6.42674               | 0.2113                                    | 0.19716                             | 0.0065                                         |
| 19       | Iroquois      | KPUC EDA             | 7.01621               | 0.2307                                    | 0.23711                             | 0.0078                                         |
| 20       | Iroquois      | GMIT EDA             | 9.37685               | 0.3083                                    | 0.39712                             | 0.0130                                         |
| 21       | Iroquois      | Enbridge SWDA        | 19.84992              | 0.6526                                    | 1.10701                             | 0.0363                                         |
| 22       | Iroquois      | Union SWDA           | 19.93691              | 0.6555                                    | 1.11291                             | 0.0365                                         |
| 23       | Iroquois      | Chippawa             | 17.63102              | 0.5797                                    | 0.95660                             | 0.0314                                         |
| 24       | Iroquois      | Cornwall             | 5.29007               | 0.1739                                    | 0.12011                             | 0.0039                                         |
| 25       | Iroquois      | East Hereford        | 13.90255              | 0.4571                                    | 0.70390                             | 0.0231                                         |
| 26       | Iroquois      | Emerson 1            | 56.07890              | 1.8437                                    | 3.56269                             | 0.1168                                         |
| 27       | Iroquois      | Emerson 2            | 56.07890              | 1.8437                                    | 3.56269                             | 0.1168                                         |
| 28       | Iroquois      | Iroquois             | 4.04238               | 0.1329                                    | 0.03553                             | 0.0012                                         |
| 29       | Iroquois      | Kirkwall             | 15.28803              | 0.5026                                    | 0.79781                             | 0.0262                                         |
| 30       | Iroquois      | Napierville          | 9.00455               | 0.2960                                    | 0.37191                             | 0.0122                                         |
| 31       | Iroquois      | Niagara Falls        | 17.57293              | 0.5777                                    | 0.95268                             | 0.0312                                         |
| 32       | Iroquois      | North Bay Junction   | 14.45978              | 0.4754                                    | 0.74166                             | 0.0243                                         |
| 33       | Iroquois      | Philipsburg          | 9.42673               | 0.3099                                    | 0.40053                             | 0.0131                                         |
| 34       | Iroquois      | Spruce               | 52.64790              | 1.7309                                    | 3.33012                             | 0.1092                                         |
| 35       | Iroquois      | St. Clair            | 20.42601              | 0.6715                                    | 1.14607                             | 0.0376                                         |
| 36       | Iroquois      | Welwyn               | 62.09289              | 2.0414                                    | 3.97033                             | 0.1302                                         |
| 37       | Iroquois      | Dawn Export          | 19.84992              | 0.6526                                    | 1.10701                             | 0.0363                                         |
| 38       | Iroquois      | Union Parkway Belt   | 14.36427              | 0.4723                                    | 0.73518                             | 0.0241                                         |
| 39       | Iroquois      | Union CDA (Amended)  | 15.83978              | 0.5208                                    | 0.83519                             | 0.0274                                         |
| 40       | Iroquois      | Union ECDA           | 14.64258              | 0.4814                                    | 0.75406                             | 0.0247                                         |
| 41       | Kirkwall      | Empress              | 71.79094              | 2.3603                                    | 4.62770                             | 0.1517                                         |
| 42       | Kirkwall      | TransGas SSDA        | 61.30114              | 2.0154                                    | 3.91669                             | 0.1284                                         |
| 43       | Kirkwall      | Centram SSDA         | 57.00418              | 1.8741                                    | 3.62541                             | 0.1189                                         |
| 44       | Kirkwall      | Centram MDA          | 50.50323              | 1.6604                                    | 3.18477                             | 0.1044                                         |
| 45       | Kirkwall      | Centrat MDA          | 50.48011              | 1.6596                                    | 3.18318                             | 0.1044                                         |
| 46       | Kirkwall      | Union WDA            | 40.64184              | 1.3362                                    | 2.51632                             | 0.0825                                         |
| 47       | Kirkwall      | Nipigon WDA          | 36.04223              | 1.1850                                    | 2.20457                             | 0.0723                                         |
| 48       | Kirkwall      | Union NDA            | 17.85185              | 0.5869                                    | 0.97158                             | 0.0319                                         |
| 49       | Kirkwall      | Calstock NDA         | 28.04508              | 0.9220                                    | 1.66251                             | 0.0545                                         |
| 50       | Kirkwall      | Tunis NDA            | 21.74944              | 0.7151                                    | 1.23575                             | 0.0405                                         |
| 51       | Kirkwall      | GMIT NDA             | 17.07014              | 0.5612                                    | 0.91861                             | 0.0301                                         |
| 52       | Kirkwall      | Union SSMDA          | 23.31711              | 0.7666                                    | 1.34203                             | 0.0440                                         |
| 53       | Kirkwall      | Union NCDA           | 9.41639               | 0.3096                                    | 0.39982                             | 0.0131                                         |
| 54       | Kirkwall      | Union CDA            | 5.09205               | 0.1674                                    | 0.10669                             | 0.0035                                         |
| 55       | Kirkwall      | Union EDA            | 12.76557              | 0.4197                                    | 0.62682                             | 0.0206                                         |
| 56       | Kirkwall      | Enbridge CDA         | 6.72665               | 0.2212                                    | 0.21748                             | 0.0071                                         |
| 57       | Kirkwall      | Enbridge Parkway CDA | 4.96613               | 0.1633                                    | 0.09815                             | 0.0032                                         |
| 58       | Kirkwall      | Enbridge EDA         | 16.08920              | 0.5290                                    | 0.85210                             | 0.0279                                         |
| 59       | Kirkwall      | KPUC EDA             | 12.31388              | 0.4048                                    | 0.59622                             | 0.0196                                         |
| 60       | Kirkwall      | GMIT EDA             | 20.39803              | 0.6706                                    | 1.14417                             | 0.0375                                         |
| 61       | Kirkwall      | Enbridge SWDA        | 8.60427               | 0.2829                                    | 0.34474                             | 0.0113                                         |
| 62       | Kirkwall      | Union SWDA           | 8.69126               | 0.2857                                    | 0.35064                             | 0.0115                                         |
| 63       | Kirkwall      | Chippawa             | 6.79326               | 0.2233                                    | 0.22199                             | 0.0073                                         |
| 64       | Kirkwall      | Cornwall             | 16.31215              | 0.5363                                    | 0.86723                             | 0.0284                                         |
| 65       | Kirkwall      | East Hereford        | 24.92494              | 0.8195                                    | 1.45101                             | 0.0476                                         |
| 66       | Kirkwall      | Emerson 1            | 47.04880              | 1.5468                                    | 2.95061                             | 0.0967                                         |
| 67       | Kirkwall      | Emerson 2            | 47.04880              | 1.5468                                    | 2.95061                             | 0.0967                                         |
| 68       | Kirkwall      | Iroquois             | 15.28803              | 0.5026                                    | 0.79781                             | 0.0262                                         |
| 69       | Kirkwall      | Kirkwall             | 4.04238               | 0.1329                                    | 0.03553                             | 0.0012                                         |
| 70       | Kirkwall      | Napierville          | 20.02725              | 0.6584                                    | 1.11903                             | 0.0367                                         |
| 71       | Kirkwall      | Niagara Falls        | 6.73516               | 0.2214                                    | 0.21807                             | 0.0072                                         |
| 72       | Kirkwall      | North Bay Junction   | 13.65769              | 0.4490                                    | 0.68730                             | 0.0225                                         |
| 73       | Kirkwall      | Philipsburg          | 20.44943              | 0.6723                                    | 1.14764                             | 0.0376                                         |
| 74       | Kirkwall      | Spruce               | 50.48011              | 1.6596                                    | 3.18318                             | 0.1044                                         |
| 75       | Kirkwall      | St. Clair            | 9.18005               | 0.3018                                    | 0.38379                             | 0.0126                                         |
| 76       | Kirkwall      | Welwyn               | 57.00418              | 1.8741                                    | 3.62541                             | 0.1189                                         |
| 77       | Kirkwall      | Dawn Export          | 8.60427               | 0.2829                                    | 0.34474                             | 0.0113                                         |
| 78       | Kirkwall      | Union Parkway Belt   | 4.96613               | 0.1633                                    | 0.09815                             | 0.0032                                         |
| 79       | Kirkwall      | Union CDA (Amended)  | 4.83564               | 0.1590                                    | 0.08930                             | 0.0029                                         |
| 80       | Kirkwall      | Union ECDA           | 5.24475               | 0.1724                                    | 0.11703                             | 0.0038                                         |
| 81       | KPUC EDA      | Empress              | -                     | 2.6180                                    | -                                   | 0.1692                                         |
| 82       | KPUC EDA      | TransGas SSDA        | -                     | 2.2731                                    | -                                   | 0.1458                                         |

| Line No. | Receipt Point | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | KPUC EDA      | Centram SSDA         | -                     | 2.1318                                    | -                                   | 0.1363                                         |
| 2        | KPUC EDA      | Centram MDA          | -                     | 1.9177                                    | -                                   | 0.1218                                         |
| 3        | KPUC EDA      | Centrat MDA          | -                     | 1.8213                                    | -                                   | 0.1153                                         |
| 4        | KPUC EDA      | Union WDA            | -                     | 1.4529                                    | -                                   | 0.0904                                         |
| 5        | KPUC EDA      | Nipigon WDA          | -                     | 1.3017                                    | -                                   | 0.0802                                         |
| 6        | KPUC EDA      | Union NDA            | -                     | 0.7042                                    | -                                   | 0.0398                                         |
| 7        | KPUC EDA      | Calstock NDA         | -                     | 1.0388                                    | -                                   | 0.0624                                         |
| 8        | KPUC EDA      | Tunis NDA            | -                     | 0.8318                                    | -                                   | 0.0484                                         |
| 9        | KPUC EDA      | GMIT NDA             | -                     | 0.6780                                    | -                                   | 0.0380                                         |
| 10       | KPUC EDA      | Union SSMMDA         | -                     | 1.0385                                    | -                                   | 0.0624                                         |
| 11       | KPUC EDA      | Union NCDA           | -                     | 0.4468                                    | -                                   | 0.0224                                         |
| 12       | KPUC EDA      | Union CDA            | -                     | 0.3983                                    | -                                   | 0.0191                                         |
| 13       | KPUC EDA      | Union EDA            | -                     | 0.1971                                    | -                                   | 0.0055                                         |
| 14       | KPUC EDA      | Enbridge CDA         | -                     | 0.3510                                    | -                                   | 0.0159                                         |
| 15       | KPUC EDA      | Enbridge Parkway CDA | -                     | 0.3745                                    | -                                   | 0.0175                                         |
| 16       | KPUC EDA      | Enbridge EDA         | -                     | 0.2802                                    | -                                   | 0.0111                                         |
| 17       | KPUC EDA      | KPUC EDA             | -                     | 0.1329                                    | -                                   | 0.0012                                         |
| 18       | KPUC EDA      | GMIT EDA             | -                     | 0.3987                                    | -                                   | 0.0191                                         |
| 19       | KPUC EDA      | Enbridge SWDA        | -                     | 0.5548                                    | -                                   | 0.0297                                         |
| 20       | KPUC EDA      | Union SWDA           | -                     | 0.5577                                    | -                                   | 0.0299                                         |
| 21       | KPUC EDA      | Chippawa             | -                     | 0.4819                                    | -                                   | 0.0248                                         |
| 22       | KPUC EDA      | Cornwall             | -                     | 0.2644                                    | -                                   | 0.0101                                         |
| 23       | KPUC EDA      | East Hereford        | -                     | 0.5475                                    | -                                   | 0.0292                                         |
| 24       | KPUC EDA      | Emerson 1            | -                     | 1.8188                                    | -                                   | 0.1151                                         |
| 25       | KPUC EDA      | Emerson 2            | -                     | 1.8188                                    | -                                   | 0.1151                                         |
| 26       | KPUC EDA      | Iroquois             | -                     | 0.2307                                    | -                                   | 0.0078                                         |
| 27       | KPUC EDA      | Kirkwall             | -                     | 0.4048                                    | -                                   | 0.0196                                         |
| 28       | KPUC EDA      | Napierville          | -                     | 0.3865                                    | -                                   | 0.0183                                         |
| 29       | KPUC EDA      | Niagara Falls        | -                     | 0.4800                                    | -                                   | 0.0246                                         |
| 30       | KPUC EDA      | North Bay Junction   | -                     | 0.5658                                    | -                                   | 0.0304                                         |
| 31       | KPUC EDA      | Philipsburg          | -                     | 0.4004                                    | -                                   | 0.0192                                         |
| 32       | KPUC EDA      | Spruce               | -                     | 1.8213                                    | -                                   | 0.1153                                         |
| 33       | KPUC EDA      | St. Clair            | -                     | 0.5738                                    | -                                   | 0.0310                                         |
| 34       | KPUC EDA      | Welwyn               | -                     | 2.1318                                    | -                                   | 0.1363                                         |
| 35       | KPUC EDA      | Dawn Export          | -                     | 0.5548                                    | -                                   | 0.0297                                         |
| 36       | KPUC EDA      | Union Parkway Belt   | -                     | 0.3745                                    | -                                   | 0.0175                                         |
| 37       | KPUC EDA      | Union CDA (Amended)  | -                     | 0.4230                                    | -                                   | 0.0208                                         |
| 38       | KPUC EDA      | Union ECDA           | -                     | 0.3836                                    | -                                   | 0.0181                                         |
| 39       | Lachenaie     | Empress              | 81.04825              | 2.6646                                    | 5.25510                             | 0.1723                                         |
| 40       | Lachenaie     | TransGas SSDA        | 70.55602              | 2.3197                                    | 4.54411                             | 0.1490                                         |
| 41       | Lachenaie     | Centram SSDA         | 66.26271              | 2.1785                                    | 4.25281                             | 0.1394                                         |
| 42       | Lachenaie     | Centram MDA          | 59.79917              | 1.9660                                    | 3.81478                             | 0.1251                                         |
| 43       | Lachenaie     | Centrat MDA          | 56.81560              | 1.8679                                    | 3.61260                             | 0.1185                                         |
| 44       | Lachenaie     | Union WDA            | 45.60949              | 1.4995                                    | 2.85317                             | 0.0936                                         |
| 45       | Lachenaie     | Nipigon WDA          | 41.01353              | 1.3484                                    | 2.54141                             | 0.0833                                         |
| 46       | Lachenaie     | Union NDA            | 22.83775              | 0.7508                                    | 1.30959                             | 0.0429                                         |
| 47       | Lachenaie     | Calstock NDA         | 33.01303              | 1.0854                                    | 1.99935                             | 0.0656                                         |
| 48       | Lachenaie     | Tunis NDA            | 26.71983              | 0.8785                                    | 1.57259                             | 0.0516                                         |
| 49       | Lachenaie     | GMIT NDA             | 22.03870              | 0.7246                                    | 1.25547                             | 0.0412                                         |
| 50       | Lachenaie     | Union SSMMDA         | 38.95189              | 1.2806                                    | 2.40171                             | 0.0787                                         |
| 51       | Lachenaie     | Union NCDA           | 20.65322              | 0.6790                                    | 1.16145                             | 0.0381                                         |
| 52       | Lachenaie     | Union CDA            | 19.47610              | 0.6403                                    | 1.08173                             | 0.0355                                         |
| 53       | Lachenaie     | Union EDA            | 10.99350              | 0.3614                                    | 0.50672                             | 0.0166                                         |
| 54       | Lachenaie     | Enbridge CDA         | 18.03374              | 0.5929                                    | 0.98394                             | 0.0323                                         |
| 55       | Lachenaie     | Enbridge Parkway CDA | 18.75248              | 0.6165                                    | 1.03261                             | 0.0339                                         |
| 56       | Lachenaie     | Enbridge EDA         | 10.41649              | 0.3425                                    | 0.46746                             | 0.0153                                         |
| 57       | Lachenaie     | KPUC EDA             | 11.40473              | 0.3750                                    | 0.53454                             | 0.0175                                         |
| 58       | Lachenaie     | GMIT EDA             | 6.55814               | 0.2156                                    | 0.20620                             | 0.0068                                         |
| 59       | Lachenaie     | Enbridge SWDA        | 24.23722              | 0.7968                                    | 1.40444                             | 0.0461                                         |
| 60       | Lachenaie     | Union SWDA           | 24.32725              | 0.7998                                    | 1.41033                             | 0.0462                                         |
| 61       | Lachenaie     | Chippawa             | 22.01984              | 0.7239                                    | 1.25402                             | 0.0411                                         |
| 62       | Lachenaie     | Cornwall             | 7.40463               | 0.2434                                    | 0.26353                             | 0.0086                                         |
| 63       | Lachenaie     | East Hereford        | 9.29108               | 0.3055                                    | 0.39131                             | 0.0128                                         |
| 64       | Lachenaie     | Emerson 1            | 60.24812              | 1.9808                                    | 3.84517                             | 0.1261                                         |
| 65       | Lachenaie     | Emerson 2            | 60.24812              | 1.9808                                    | 3.84517                             | 0.1261                                         |
| 66       | Lachenaie     | Iroquois             | 8.65293               | 0.2845                                    | 0.34811                             | 0.0114                                         |
| 67       | Lachenaie     | Kirkwall             | 19.67441              | 0.6468                                    | 1.09523                             | 0.0359                                         |
| 68       | Lachenaie     | Napierville          | 8.19881               | 0.2696                                    | 0.31727                             | 0.0104                                         |
| 69       | Lachenaie     | Niagara Falls        | 21.96296              | 0.7221                                    | 1.25010                             | 0.0410                                         |
| 70       | Lachenaie     | North Bay Junction   | 18.62960              | 0.6125                                    | 1.02414                             | 0.0336                                         |
| 71       | Lachenaie     | Philipsburg          | 8.61978               | 0.2834                                    | 0.34588                             | 0.0113                                         |
| 72       | Lachenaie     | Spruce               | 56.81560              | 1.8679                                    | 3.61260                             | 0.1185                                         |
| 73       | Lachenaie     | St. Clair            | 24.81422              | 0.8158                                    | 1.44348                             | 0.0473                                         |
| 74       | Lachenaie     | Welwyn               | 66.26271              | 2.1785                                    | 4.25281                             | 0.1394                                         |
| 75       | Lachenaie     | Dawn Export          | 24.23722              | 0.7968                                    | 1.40444                             | 0.0461                                         |
| 76       | Lachenaie     | Union Parkway Belt   | 18.75248              | 0.6165                                    | 1.03261                             | 0.0339                                         |
| 77       | Lachenaie     | Union CDA (Amended)  | 20.22769              | 0.6650                                    | 1.13262                             | 0.0371                                         |
| 78       | Lachenaie     | Union ECDA           | 19.03140              | 0.6257                                    | 1.05149                             | 0.0345                                         |
| 79       | Liebenthal    | Empress              | 3.55632               | 0.1169                                    | 0.10699                             | 0.0035                                         |
| 80       | Liebenthal    | TransGas SSDA        | 9.41092               | 0.3094                                    | 0.67563                             | 0.0222                                         |
| 81       | Liebenthal    | Centram SSDA         | 12.40392              | 0.4078                                    | 0.96636                             | 0.0317                                         |
| 82       | Liebenthal    | Centram MDA          | 16.95668              | 0.5575                                    | 1.40858                             | 0.0462                                         |

| Line No. | Receipt Point | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Liebenthal    | Centrat MDA          | 18.99551              | 0.6245                                    | 1.60659                             | 0.0527                                         |
| 2        | Liebenthal    | Union WDA            | 27.51461              | 0.9046                                    | 2.43410                             | 0.0798                                         |
| 3        | Liebenthal    | Nipigon WDA          | 30.02338              | 0.9871                                    | 2.67776                             | 0.0878                                         |
| 4        | Liebenthal    | Union NDA            | 42.71778              | 1.4044                                    | 3.91083                             | 0.1282                                         |
| 5        | Liebenthal    | Calstock NDA         | 35.60393              | 1.1705                                    | 3.21982                             | 0.1056                                         |
| 6        | Liebenthal    | Tunis NDA            | 39.99761              | 1.3150                                    | 3.64659                             | 0.1196                                         |
| 7        | Liebenthal    | GMIT NDA             | 43.61385              | 1.4339                                    | 3.99782                             | 0.1311                                         |
| 8        | Liebenthal    | Union SSMDA          | 38.67723              | 1.2716                                    | 3.51833                             | 0.1154                                         |
| 9        | Liebenthal    | Union NCDA           | 52.18983              | 1.7158                                    | 4.48257                             | 0.1470                                         |
| 10       | Liebenthal    | Union CDA            | 53.79096              | 1.7685                                    | 4.62741                             | 0.1517                                         |
| 11       | Liebenthal    | Union EDA            | 57.68490              | 1.8965                                    | 4.97965                             | 0.1633                                         |
| 12       | Liebenthal    | Enbridge CDA         | 54.78072              | 1.8010                                    | 4.71696                             | 0.1547                                         |
| 13       | Liebenthal    | Enbridge Parkway CDA | 53.69667              | 1.7654                                    | 4.61887                             | 0.1514                                         |
| 14       | Liebenthal    | Enbridge EDA         | 56.44390              | 1.8557                                    | 4.86739                             | 0.1596                                         |
| 15       | Liebenthal    | KPUC EDA             | 58.87785              | 1.9357                                    | 5.08759                             | 0.1668                                         |
| 16       | Liebenthal    | GMIT EDA             | 60.48111              | 1.9884                                    | 5.23261                             | 0.1716                                         |
| 17       | Liebenthal    | Enbridge SWDA        | 49.58616              | 1.6302                                    | 4.24704                             | 0.1393                                         |
| 18       | Liebenthal    | Union SWDA           | 49.52077              | 1.6281                                    | 4.24116                             | 0.1391                                         |
| 19       | Liebenthal    | Chippawa             | 55.06542              | 1.8104                                    | 4.74270                             | 0.1555                                         |
| 20       | Liebenthal    | Cornwall             | 57.41937              | 1.8878                                    | 4.95564                             | 0.1625                                         |
| 21       | Liebenthal    | East Hereford        | 63.87318              | 2.0999                                    | 5.53945                             | 0.1816                                         |
| 22       | Liebenthal    | Emerson 1            | 19.35139              | 0.6362                                    | 1.64117                             | 0.0538                                         |
| 23       | Liebenthal    | Emerson 2            | 19.35139              | 0.6362                                    | 1.64117                             | 0.0538                                         |
| 24       | Liebenthal    | Iroquois             | 56.81742              | 1.8680                                    | 4.90117                             | 0.1607                                         |
| 25       | Liebenthal    | Kirkwall             | 53.00439              | 1.7426                                    | 4.55625                             | 0.1494                                         |
| 26       | Liebenthal    | Napierville          | 60.20310              | 1.9793                                    | 5.20744                             | 0.1707                                         |
| 27       | Liebenthal    | Niagara Falls        | 55.02193              | 1.8089                                    | 4.73879                             | 0.1554                                         |
| 28       | Liebenthal    | North Bay Junction   | 45.64386              | 1.5006                                    | 4.19504                             | 0.1375                                         |
| 29       | Liebenthal    | Philipsburg          | 60.51943              | 1.9897                                    | 5.23606                             | 0.1717                                         |
| 30       | Liebenthal    | Spruce               | 18.99551              | 0.6245                                    | 1.60659                             | 0.0527                                         |
| 31       | Liebenthal    | St. Clair            | 45.77739              | 1.5050                                    | 4.20799                             | 0.1380                                         |
| 32       | Liebenthal    | Welwyn               | 12.40392              | 0.4078                                    | 0.96636                             | 0.0317                                         |
| 33       | Liebenthal    | Dawn Export          | 49.58616              | 1.6302                                    | 4.24704                             | 0.1393                                         |
| 34       | Liebenthal    | Union Parkway Belt   | 53.69667              | 1.7654                                    | 4.61887                             | 0.1514                                         |
| 35       | Liebenthal    | Union CDA (Amended)  | 53.59843              | 1.7621                                    | 4.61002                             | 0.1512                                         |
| 36       | Liebenthal    | Union ECDA           | 53.90503              | 1.7722                                    | 4.63773                             | 0.1521                                         |
| 37       | Napierville   | Empress              | 81.39865              | 2.6761                                    | 5.27890                             | 0.1731                                         |
| 38       | Napierville   | TransGas SSDA        | 70.90885              | 2.3313                                    | 4.56789                             | 0.1498                                         |
| 39       | Napierville   | Centram SSDA         | 66.61128              | 2.1900                                    | 4.27661                             | 0.1402                                         |
| 40       | Napierville   | Centram MDA          | 60.14957              | 1.9775                                    | 3.83862                             | 0.1259                                         |
| 41       | Napierville   | Centrat MDA          | 57.16630              | 1.8794                                    | 3.63639                             | 0.1192                                         |
| 42       | Napierville   | Union WDA            | 45.96263              | 1.5111                                    | 2.87699                             | 0.0943                                         |
| 43       | Napierville   | Nipigon WDA          | 41.36302              | 1.3599                                    | 2.56521                             | 0.0841                                         |
| 44       | Napierville   | Union NDA            | 23.18967              | 0.7624                                    | 1.33339                             | 0.0437                                         |
| 45       | Napierville   | Calstock NDA         | 33.36587              | 1.0970                                    | 2.02316                             | 0.0663                                         |
| 46       | Napierville   | Tunis NDA            | 27.06962              | 0.8900                                    | 1.59638                             | 0.0523                                         |
| 47       | Napierville   | GMIT NDA             | 22.39153              | 0.7362                                    | 1.27928                             | 0.0419                                         |
| 48       | Napierville   | Union SSMDA          | 39.30168              | 1.2921                                    | 2.42551                             | 0.0795                                         |
| 49       | Napierville   | Union NCDA           | 21.00362              | 0.6905                                    | 1.18522                             | 0.0389                                         |
| 50       | Napierville   | Union CDA            | 19.82771              | 0.6519                                    | 1.10552                             | 0.0363                                         |
| 51       | Napierville   | Union EDA            | 11.34420              | 0.3730                                    | 0.53047                             | 0.0174                                         |
| 52       | Napierville   | Enbridge CDA         | 18.38840              | 0.6046                                    | 1.00794                             | 0.0331                                         |
| 53       | Napierville   | Enbridge Parkway CDA | 19.10349              | 0.6281                                    | 1.05640                             | 0.0346                                         |
| 54       | Napierville   | Enbridge EDA         | 10.76598              | 0.3540                                    | 0.49129                             | 0.0161                                         |
| 55       | Napierville   | KPUC EDA             | 11.75513              | 0.3865                                    | 0.55833                             | 0.0183                                         |
| 56       | Napierville   | GMIT EDA             | 8.40260               | 0.2763                                    | 0.33109                             | 0.0109                                         |
| 57       | Napierville   | Enbridge SWDA        | 24.58883              | 0.8084                                    | 1.42823                             | 0.0468                                         |
| 58       | Napierville   | Union SWDA           | 24.67613              | 0.8113                                    | 1.43413                             | 0.0470                                         |
| 59       | Napierville   | Chippawa             | 22.36963              | 0.7354                                    | 1.27782                             | 0.0419                                         |
| 60       | Napierville   | Cornwall             | 7.75686               | 0.2550                                    | 0.28733                             | 0.0094                                         |
| 61       | Napierville   | East Hereford        | 13.44782              | 0.4421                                    | 0.67305                             | 0.0221                                         |
| 62       | Napierville   | Emerson 1            | 60.59730              | 1.9922                                    | 3.86897                             | 0.1269                                         |
| 63       | Napierville   | Emerson 2            | 60.59730              | 1.9922                                    | 3.86897                             | 0.1269                                         |
| 64       | Napierville   | Iroquois             | 9.00455               | 0.2960                                    | 0.37191                             | 0.0122                                         |
| 65       | Napierville   | Kirkwall             | 20.02725              | 0.6584                                    | 1.11903                             | 0.0367                                         |
| 66       | Napierville   | Napierville          | 4.04238               | 0.1329                                    | 0.03553                             | 0.0012                                         |
| 67       | Napierville   | Niagara Falls        | 22.31215              | 0.7336                                    | 1.27390                             | 0.0418                                         |
| 68       | Napierville   | North Bay Junction   | 18.97818              | 0.6239                                    | 1.04793                             | 0.0344                                         |
| 69       | Napierville   | Philipsburg          | 6.26370               | 0.2059                                    | 0.18611                             | 0.0061                                         |
| 70       | Napierville   | Spruce               | 57.16630              | 1.8794                                    | 3.63639                             | 0.1192                                         |
| 71       | Napierville   | St. Clair            | 25.16493              | 0.8273                                    | 1.46729                             | 0.0481                                         |
| 72       | Napierville   | Welwyn               | 66.61128              | 2.1900                                    | 4.27661                             | 0.1402                                         |
| 73       | Napierville   | Dawn Export          | 24.58883              | 0.8084                                    | 1.42823                             | 0.0468                                         |
| 74       | Napierville   | Union Parkway Belt   | 19.10349              | 0.6281                                    | 1.05640                             | 0.0346                                         |
| 75       | Napierville   | Union CDA (Amended)  | 20.57870              | 0.6766                                    | 1.15641                             | 0.0379                                         |
| 76       | Napierville   | Union ECDA           | 19.38150              | 0.6372                                    | 1.07527                             | 0.0353                                         |
| 77       | Niagara Falls | Empress              | 74.48433              | 2.4488                                    | 4.81024                             | 0.1577                                         |
| 78       | Niagara Falls | TransGas SSDA        | 63.99484              | 2.1039                                    | 4.09926                             | 0.1344                                         |
| 79       | Niagara Falls | Centram SSDA         | 59.69727              | 1.9627                                    | 3.80795                             | 0.1249                                         |
| 80       | Niagara Falls | Centram MDA          | 53.19601              | 1.7489                                    | 3.36727                             | 0.1104                                         |
| 81       | Niagara Falls | Centrat MDA          | 53.17290              | 1.7482                                    | 3.36572                             | 0.1104                                         |
| 82       | Niagara Falls | Union WDA            | 42.92643              | 1.4113                                    | 2.67121                             | 0.0876                                         |

| Line No. | Receipt Point      | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|--------------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Niagara Falls      | Nipigon WDA          | 38.32743              | 1.2601                                    | 2.35945                             | 0.0774                                         |
| 2        | Niagara Falls      | Union NDA            | 20.13614              | 0.6620                                    | 1.12642                             | 0.0369                                         |
| 3        | Niagara Falls      | Calstock NDA         | 30.33028              | 0.9972                                    | 1.81739                             | 0.0596                                         |
| 4        | Niagara Falls      | Tunis NDA            | 24.03403              | 0.7902                                    | 1.39062                             | 0.0456                                         |
| 5        | Niagara Falls      | GMIT NDA             | 19.35534              | 0.6363                                    | 1.07350                             | 0.0352                                         |
| 6        | Niagara Falls      | Union SSMDA          | 26.00990              | 0.8551                                    | 1.52457                             | 0.0500                                         |
| 7        | Niagara Falls      | Union NCDA           | 11.70129              | 0.3847                                    | 0.55468                             | 0.0182                                         |
| 8        | Niagara Falls      | Union CDA            | 6.58795               | 0.2166                                    | 0.20809                             | 0.0068                                         |
| 9        | Niagara Falls      | Union EDA            | 15.05017              | 0.4948                                    | 0.78168                             | 0.0256                                         |
| 10       | Niagara Falls      | Enbridge CDA         | 8.30710               | 0.2731                                    | 0.32461                             | 0.0106                                         |
| 11       | Niagara Falls      | Enbridge Parkway CDA | 7.25103               | 0.2384                                    | 0.25303                             | 0.0083                                         |
| 12       | Niagara Falls      | Enbridge EDA         | 18.37380              | 0.6041                                    | 1.00696                             | 0.0330                                         |
| 13       | Niagara Falls      | KPUC EDA             | 14.59909              | 0.4800                                    | 0.75110                             | 0.0246                                         |
| 14       | Niagara Falls      | GMIT EDA             | 22.68414              | 0.7458                                    | 1.29911                             | 0.0426                                         |
| 15       | Niagara Falls      | Enbridge SWDA        | 11.29705              | 0.3714                                    | 0.52728                             | 0.0173                                         |
| 16       | Niagara Falls      | Union SWDA           | 11.38405              | 0.3743                                    | 0.53318                             | 0.0175                                         |
| 17       | Niagara Falls      | Chippawa             | 4.97708               | 0.1636                                    | 0.09891                             | 0.0032                                         |
| 18       | Niagara Falls      | Cornwall             | 18.59736              | 0.6114                                    | 1.02210                             | 0.0335                                         |
| 19       | Niagara Falls      | East Hereford        | 27.21014              | 0.8946                                    | 1.60589                             | 0.0527                                         |
| 20       | Niagara Falls      | Emerson 1            | 49.74159              | 1.6353                                    | 3.13314                             | 0.1027                                         |
| 21       | Niagara Falls      | Emerson 2            | 49.74159              | 1.6353                                    | 3.13314                             | 0.1027                                         |
| 22       | Niagara Falls      | Iroquois             | 17.57293              | 0.5777                                    | 0.95268                             | 0.0312                                         |
| 23       | Niagara Falls      | Kirkwall             | 6.73516               | 0.2214                                    | 0.21807                             | 0.0072                                         |
| 24       | Niagara Falls      | Napierville          | 22.31215              | 0.7336                                    | 1.27390                             | 0.0418                                         |
| 25       | Niagara Falls      | Niagara Falls        | 4.04238               | 0.1329                                    | 0.03553                             | 0.0012                                         |
| 26       | Niagara Falls      | North Bay Junction   | 15.94259              | 0.5241                                    | 0.84217                             | 0.0276                                         |
| 27       | Niagara Falls      | Philipsburg          | 22.73433              | 0.7474                                    | 1.30252                             | 0.0427                                         |
| 28       | Niagara Falls      | Spruce               | 53.17290              | 1.7482                                    | 3.36572                             | 0.1104                                         |
| 29       | Niagara Falls      | St. Clair            | 11.87315              | 0.3904                                    | 0.56633                             | 0.0186                                         |
| 30       | Niagara Falls      | Welwyn               | 59.69727              | 1.9627                                    | 3.80795                             | 0.1249                                         |
| 31       | Niagara Falls      | Dawn Export          | 11.29705              | 0.3714                                    | 0.52728                             | 0.0173                                         |
| 32       | Niagara Falls      | Union Parkway Belt   | 7.25103               | 0.2384                                    | 0.25303                             | 0.0083                                         |
| 33       | Niagara Falls      | Union CDA (Amended)  | 5.94220               | 0.1954                                    | 0.16430                             | 0.0054                                         |
| 34       | Niagara Falls      | Union ECDA           | 6.97241               | 0.2292                                    | 0.23415                             | 0.0077                                         |
| 35       | Nipigon WDA        | Empress              | -                     | 1.0113                                    | -                                   | 0.0901                                         |
| 36       | Nipigon WDA        | TransGas SSDA        | -                     | 0.7706                                    | -                                   | 0.0668                                         |
| 37       | Nipigon WDA        | Centram SSDA         | -                     | 0.6720                                    | -                                   | 0.0573                                         |
| 38       | Nipigon WDA        | Centram MDA          | -                     | 0.5238                                    | -                                   | 0.0429                                         |
| 39       | Nipigon WDA        | Centrat MDA          | -                     | 0.4553                                    | -                                   | 0.0363                                         |
| 40       | Nipigon WDA        | Union WDA            | -                     | 0.2022                                    | -                                   | 0.0118                                         |
| 41       | Nipigon WDA        | Nipigon WDA          | -                     | 0.0927                                    | -                                   | 0.0012                                         |
| 42       | Nipigon WDA        | Union NDA            | -                     | 0.5101                                    | -                                   | 0.0416                                         |
| 43       | Nipigon WDA        | Calstock NDA         | -                     | 0.2762                                    | -                                   | 0.0189                                         |
| 44       | Nipigon WDA        | Tunis NDA            | -                     | 0.4207                                    | -                                   | 0.0329                                         |
| 45       | Nipigon WDA        | GMIT NDA             | -                     | 0.5395                                    | -                                   | 0.0444                                         |
| 46       | Nipigon WDA        | Union SSMDA          | -                     | 1.1694                                    | -                                   | 0.1055                                         |
| 47       | Nipigon WDA        | Union NCDA           | -                     | 0.7555                                    | -                                   | 0.0603                                         |
| 48       | Nipigon WDA        | Union CDA            | -                     | 0.8830                                    | -                                   | 0.0718                                         |
| 49       | Nipigon WDA        | Union EDA            | -                     | 0.9383                                    | -                                   | 0.0768                                         |
| 50       | Nipigon WDA        | Enbridge CDA         | -                     | 0.8610                                    | -                                   | 0.0699                                         |
| 51       | Nipigon WDA        | Enbridge Parkway CDA | -                     | 0.8652                                    | -                                   | 0.0702                                         |
| 52       | Nipigon WDA        | Enbridge EDA         | -                     | 0.8958                                    | -                                   | 0.0730                                         |
| 53       | Nipigon WDA        | KPUC EDA             | -                     | 0.9754                                    | -                                   | 0.0802                                         |
| 54       | Nipigon WDA        | GMIT EDA             | -                     | 1.0281                                    | -                                   | 0.0849                                         |
| 55       | Nipigon WDA        | Enbridge SWDA        | -                     | 1.0003                                    | -                                   | 0.0824                                         |
| 56       | Nipigon WDA        | Union SWDA           | -                     | 1.0024                                    | -                                   | 0.0826                                         |
| 57       | Nipigon WDA        | Chippawa             | -                     | 0.9456                                    | -                                   | 0.0775                                         |
| 58       | Nipigon WDA        | Cornwall             | -                     | 0.9275                                    | -                                   | 0.0759                                         |
| 59       | Nipigon WDA        | East Hereford        | -                     | 1.1396                                    | -                                   | 0.0950                                         |
| 60       | Nipigon WDA        | Emerson 1            | -                     | 0.5340                                    | -                                   | 0.0439                                         |
| 61       | Nipigon WDA        | Emerson 2            | -                     | 0.5340                                    | -                                   | 0.0439                                         |
| 62       | Nipigon WDA        | Iroquois             | -                     | 0.9077                                    | -                                   | 0.0741                                         |
| 63       | Nipigon WDA        | Kirkwall             | -                     | 0.8879                                    | -                                   | 0.0723                                         |
| 64       | Nipigon WDA        | Napierville          | -                     | 1.0190                                    | -                                   | 0.0841                                         |
| 65       | Nipigon WDA        | Niagara Falls        | -                     | 0.9442                                    | -                                   | 0.0774                                         |
| 66       | Nipigon WDA        | North Bay Junction   | -                     | 0.6063                                    | -                                   | 0.0509                                         |
| 67       | Nipigon WDA        | Philipsburg          | -                     | 1.0294                                    | -                                   | 0.0850                                         |
| 68       | Nipigon WDA        | Spruce               | -                     | 0.4553                                    | -                                   | 0.0363                                         |
| 69       | Nipigon WDA        | St. Clair            | -                     | 0.9448                                    | -                                   | 0.0837                                         |
| 70       | Nipigon WDA        | Welwyn               | -                     | 0.6720                                    | -                                   | 0.0573                                         |
| 71       | Nipigon WDA        | Dawn Export          | -                     | 1.0003                                    | -                                   | 0.0824                                         |
| 72       | Nipigon WDA        | Union Parkway Belt   | -                     | 0.8652                                    | -                                   | 0.0702                                         |
| 73       | Nipigon WDA        | Union CDA (Amended)  | -                     | 0.9015                                    | -                                   | 0.0735                                         |
| 74       | Nipigon WDA        | Union ECDA           | -                     | 0.8720                                    | -                                   | 0.0709                                         |
| 75       | North Bay Junction | Empress              | 66.46224              | 2.1851                                    | 4.26650                             | 0.1399                                         |
| 76       | North Bay Junction | TransGas SSDA        | 55.97245              | 1.8402                                    | 3.55548                             | 0.1166                                         |
| 77       | North Bay Junction | Centram SSDA         | 51.67548              | 1.6989                                    | 3.26421                             | 0.1070                                         |
| 78       | North Bay Junction | Centram MDA          | 45.21377              | 1.4865                                    | 2.82621                             | 0.0927                                         |
| 79       | North Bay Junction | Centrat MDA          | 42.23020              | 1.3884                                    | 2.62398                             | 0.0860                                         |
| 80       | North Bay Junction | Union WDA            | 31.02622              | 1.0200                                    | 1.86457                             | 0.0611                                         |
| 81       | North Bay Junction | Nipigon WDA          | 26.42661              | 0.8688                                    | 1.55281                             | 0.0509                                         |
| 82       | North Bay Junction | Union NDA            | 8.25295               | 0.2713                                    | 0.32092                             | 0.0105                                         |

| Line No. | Receipt Point      | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|--------------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | North Bay Junction | Calstock NDA         | 18.42946              | 0.6059                                    | 1.01075                             | 0.0331                                         |
| 2        | North Bay Junction | Tunis NDA            | 12.13321              | 0.3989                                    | 0.58398                             | 0.0192                                         |
| 3        | North Bay Junction | GMIT NDA             | 7.45513               | 0.2451                                    | 0.26686                             | 0.0088                                         |
| 4        | North Bay Junction | Union SSMDA          | 32.93213              | 1.0827                                    | 1.99378                             | 0.0654                                         |
| 5        | North Bay Junction | Union NCDA           | 8.28398               | 0.2724                                    | 0.32304                             | 0.0106                                         |
| 6        | North Bay Junction | Union CDA            | 13.45877              | 0.4425                                    | 0.67381                             | 0.0221                                         |
| 7        | North Bay Junction | Union EDA            | 15.70413              | 0.5163                                    | 0.82599                             | 0.0271                                         |
| 8        | North Bay Junction | Enbridge CDA         | 12.57030              | 0.4133                                    | 0.61360                             | 0.0201                                         |
| 9        | North Bay Junction | Enbridge Parkway CDA | 12.73394              | 0.4187                                    | 0.62467                             | 0.0205                                         |
| 10       | North Bay Junction | Enbridge EDA         | 13.97980              | 0.4596                                    | 0.70913                             | 0.0233                                         |
| 11       | North Bay Junction | KPUC EDA             | 17.21005              | 0.5658                                    | 0.92808                             | 0.0304                                         |
| 12       | North Bay Junction | GMIT EDA             | 19.35078              | 0.6362                                    | 1.07317                             | 0.0352                                         |
| 13       | North Bay Junction | Enbridge SWDA        | 18.21958              | 0.5990                                    | 0.99650                             | 0.0327                                         |
| 14       | North Bay Junction | Union SWDA           | 18.30627              | 0.6019                                    | 1.00239                             | 0.0329                                         |
| 15       | North Bay Junction | Chippawa             | 16.00069              | 0.5261                                    | 0.84609                             | 0.0277                                         |
| 16       | North Bay Junction | Cornwall             | 15.26339              | 0.5018                                    | 0.79613                             | 0.0261                                         |
| 17       | North Bay Junction | East Hereford        | 23.87648              | 0.7850                                    | 1.37994                             | 0.0452                                         |
| 18       | North Bay Junction | Emerson 1            | 45.66150              | 1.5012                                    | 2.85657                             | 0.0937                                         |
| 19       | North Bay Junction | Emerson 2            | 45.66150              | 1.5012                                    | 2.85657                             | 0.0937                                         |
| 20       | North Bay Junction | Iroquois             | 14.45978              | 0.4754                                    | 0.74166                             | 0.0243                                         |
| 21       | North Bay Junction | Kirkwall             | 13.65769              | 0.4490                                    | 0.68730                             | 0.0225                                         |
| 22       | North Bay Junction | Napierville          | 18.97818              | 0.6239                                    | 1.04793                             | 0.0344                                         |
| 23       | North Bay Junction | Niagara Falls        | 15.94259              | 0.5241                                    | 0.84217                             | 0.0276                                         |
| 24       | North Bay Junction | North Bay Junction   | 4.04238               | 0.1329                                    | 0.03553                             | 0.0012                                         |
| 25       | North Bay Junction | Philipsburg          | 19.40036              | 0.6378                                    | 1.07655                             | 0.0353                                         |
| 26       | North Bay Junction | Spruce               | 42.23020              | 1.3884                                    | 2.62398                             | 0.0860                                         |
| 27       | North Bay Junction | St. Clair            | 18.79568              | 0.6179                                    | 1.03556                             | 0.0340                                         |
| 28       | North Bay Junction | Welwyn               | 51.67548              | 1.6989                                    | 3.26421                             | 0.1070                                         |
| 29       | North Bay Junction | Dawn Export          | 18.21958              | 0.5990                                    | 0.99650                             | 0.0327                                         |
| 30       | North Bay Junction | Union Parkway Belt   | 12.73394              | 0.4187                                    | 0.62467                             | 0.0205                                         |
| 31       | North Bay Junction | Union CDA (Amended)  | 14.20915              | 0.4672                                    | 0.72468                             | 0.0238                                         |
| 32       | North Bay Junction | Union ECDA           | 13.01225              | 0.4278                                    | 0.64355                             | 0.0211                                         |
| 33       | Philipsburg        | Empress              | 81.82023              | 2.6900                                    | 5.30751                             | 0.1740                                         |
| 34       | Philipsburg        | TransGas SSDA        | 71.33104              | 2.3451                                    | 4.59652                             | 0.1507                                         |
| 35       | Philipsburg        | Centram SSDA         | 67.03347              | 2.2038                                    | 4.30522                             | 0.1412                                         |
| 36       | Philipsburg        | Centram MDA          | 60.57114              | 1.9914                                    | 3.86718                             | 0.1268                                         |
| 37       | Philipsburg        | Centrat MDA          | 57.58848              | 1.8933                                    | 3.66501                             | 0.1202                                         |
| 38       | Philipsburg        | Union WDA            | 46.38481              | 1.5250                                    | 2.90562                             | 0.0953                                         |
| 39       | Philipsburg        | Nipigon WDA          | 41.78520              | 1.3738                                    | 2.59382                             | 0.0850                                         |
| 40       | Philipsburg        | Union NDA            | 23.61185              | 0.7763                                    | 1.36201                             | 0.0447                                         |
| 41       | Philipsburg        | Calstock NDA         | 33.78805              | 1.1108                                    | 2.05176                             | 0.0673                                         |
| 42       | Philipsburg        | Tunis NDA            | 27.49180              | 0.9038                                    | 1.62500                             | 0.0533                                         |
| 43       | Philipsburg        | GMIT NDA             | 22.81372              | 0.7500                                    | 1.30789                             | 0.0429                                         |
| 44       | Philipsburg        | Union SSMDA          | 39.72417              | 1.3060                                    | 2.45412                             | 0.0805                                         |
| 45       | Philipsburg        | Union NCDA           | 21.42580              | 0.7044                                    | 1.21385                             | 0.0398                                         |
| 46       | Philipsburg        | Union CDA            | 20.24990              | 0.6658                                    | 1.13414                             | 0.0372                                         |
| 47       | Philipsburg        | Union EDA            | 11.76638              | 0.3868                                    | 0.55909                             | 0.0183                                         |
| 48       | Philipsburg        | Enbridge CDA         | 18.81028              | 0.6184                                    | 1.03653                             | 0.0340                                         |
| 49       | Philipsburg        | Enbridge Parkway CDA | 19.52568              | 0.6419                                    | 1.08502                             | 0.0356                                         |
| 50       | Philipsburg        | Enbridge EDA         | 11.18816              | 0.3678                                    | 0.51988                             | 0.0171                                         |
| 51       | Philipsburg        | KPUC EDA             | 12.17731              | 0.4004                                    | 0.58695                             | 0.0192                                         |
| 52       | Philipsburg        | GMIT EDA             | 8.76152               | 0.2881                                    | 0.35541                             | 0.0117                                         |
| 53       | Philipsburg        | Enbridge SWDA        | 25.01102              | 0.8223                                    | 1.45685                             | 0.0478                                         |
| 54       | Philipsburg        | Union SWDA           | 25.09801              | 0.8251                                    | 1.46275                             | 0.0480                                         |
| 55       | Philipsburg        | Chippawa             | 22.79182              | 0.7493                                    | 1.30643                             | 0.0428                                         |
| 56       | Philipsburg        | Cornwall             | 8.17904               | 0.2689                                    | 0.31594                             | 0.0104                                         |
| 57       | Philipsburg        | East Hereford        | 13.86970              | 0.4560                                    | 0.70167                             | 0.0230                                         |
| 58       | Philipsburg        | Emerson 1            | 61.01948              | 2.0061                                    | 3.89758                             | 0.1278                                         |
| 59       | Philipsburg        | Emerson 2            | 61.01948              | 2.0061                                    | 3.89758                             | 0.1278                                         |
| 60       | Philipsburg        | Iroquois             | 9.42673               | 0.3099                                    | 0.40053                             | 0.0131                                         |
| 61       | Philipsburg        | Kirkwall             | 20.44943              | 0.6723                                    | 1.14764                             | 0.0376                                         |
| 62       | Philipsburg        | Napierville          | 6.26370               | 0.2059                                    | 0.18611                             | 0.0061                                         |
| 63       | Philipsburg        | Niagara Falls        | 22.73433              | 0.7474                                    | 1.30252                             | 0.0427                                         |
| 64       | Philipsburg        | North Bay Junction   | 19.40036              | 0.6378                                    | 1.07655                             | 0.0353                                         |
| 65       | Philipsburg        | Philipsburg          | 4.04238               | 0.1329                                    | 0.03553                             | 0.0012                                         |
| 66       | Philipsburg        | Spruce               | 57.58848              | 1.8933                                    | 3.66501                             | 0.1202                                         |
| 67       | Philipsburg        | St. Clair            | 25.58741              | 0.8412                                    | 1.49590                             | 0.0491                                         |
| 68       | Philipsburg        | Welwyn               | 67.03347              | 2.2038                                    | 4.30522                             | 0.1412                                         |
| 69       | Philipsburg        | Dawn Export          | 25.01102              | 0.8223                                    | 1.45685                             | 0.0478                                         |
| 70       | Philipsburg        | Union Parkway Belt   | 19.52568              | 0.6419                                    | 1.08502                             | 0.0356                                         |
| 71       | Philipsburg        | Union CDA (Amended)  | 21.00088              | 0.6904                                    | 1.18504                             | 0.0389                                         |
| 72       | Philipsburg        | Union ECDA           | 19.80368              | 0.6511                                    | 1.10387                             | 0.0362                                         |
| 73       | Richmound          | Empress              | 2.85825               | 0.0940                                    | 0.03917                             | 0.0013                                         |
| 74       | Richmound          | TransGas SSDA        | 10.10381              | 0.3322                                    | 0.74292                             | 0.0244                                         |
| 75       | Richmound          | Centram SSDA         | 13.10198              | 0.4308                                    | 1.03418                             | 0.0339                                         |
| 76       | Richmound          | Centram MDA          | 17.65444              | 0.5804                                    | 1.47637                             | 0.0484                                         |
| 77       | Richmound          | Centrat MDA          | 19.69327              | 0.6475                                    | 1.67439                             | 0.0549                                         |
| 78       | Richmound          | Union WDA            | 28.21298              | 0.9276                                    | 2.50191                             | 0.0820                                         |
| 79       | Richmound          | Nipigon WDA          | 30.72144              | 1.0100                                    | 2.74558                             | 0.0900                                         |
| 80       | Richmound          | Union NDA            | 43.41584              | 1.4274                                    | 3.97861                             | 0.1305                                         |
| 81       | Richmound          | Calstock NDA         | 36.30229              | 1.1935                                    | 3.28762                             | 0.1078                                         |
| 82       | Richmound          | Tunis NDA            | 40.69598              | 1.3380                                    | 3.71441                             | 0.1218                                         |

| Line No. | Receipt Point                | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|------------------------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Richmound                    | GMIT NDA             | 44.31161              | 1.4568                                    | 4.06562                             | 0.1333                                         |
| 2        | Richmound                    | Union SSM DA         | 39.37498              | 1.2945                                    | 3.58613                             | 0.1176                                         |
| 3        | Richmound                    | Union NCDA           | 52.93899              | 1.7405                                    | 4.55037                             | 0.1492                                         |
| 4        | Richmound                    | Union CDA            | 54.54013              | 1.7931                                    | 4.69519                             | 0.1539                                         |
| 5        | Richmound                    | Union EDA            | 58.43528              | 1.9212                                    | 5.04755                             | 0.1655                                         |
| 6        | Richmound                    | Enbridge CDA         | 55.53080              | 1.8257                                    | 4.78479                             | 0.1569                                         |
| 7        | Richmound                    | Enbridge Parkway CDA | 54.44644              | 1.7900                                    | 4.68669                             | 0.1537                                         |
| 8        | Richmound                    | Enbridge EDA         | 57.19428              | 1.8804                                    | 4.93527                             | 0.1618                                         |
| 9        | Richmound                    | KPUC EDA             | 59.62762              | 1.9604                                    | 5.15541                             | 0.1690                                         |
| 10       | Richmound                    | GMIT EDA             | 61.23149              | 2.0131                                    | 5.30050                             | 0.1738                                         |
| 11       | Richmound                    | Enbridge SWDA        | 50.33563              | 1.6549                                    | 4.31486                             | 0.1415                                         |
| 12       | Richmound                    | Union SWDA           | 50.27054              | 1.6527                                    | 4.30896                             | 0.1413                                         |
| 13       | Richmound                    | Chippawa             | 55.81489              | 1.8350                                    | 4.81052                             | 0.1577                                         |
| 14       | Richmound                    | Cornwall             | 58.16883              | 1.9124                                    | 5.02346                             | 0.1647                                         |
| 15       | Richmound                    | East Hereford        | 64.62295              | 2.1246                                    | 5.60725                             | 0.1838                                         |
| 16       | Richmound                    | Emerson 1            | 20.04975              | 0.6592                                    | 1.70899                             | 0.0560                                         |
| 17       | Richmound                    | Emerson 2            | 20.04975              | 0.6592                                    | 1.70899                             | 0.0560                                         |
| 18       | Richmound                    | Iroquois             | 57.56689              | 1.8926                                    | 4.96898                             | 0.1629                                         |
| 19       | Richmound                    | Kirkwall             | 53.75416              | 1.7673                                    | 4.62407                             | 0.1516                                         |
| 20       | Richmound                    | Napierville          | 60.95257              | 2.0039                                    | 5.27526                             | 0.1730                                         |
| 21       | Richmound                    | Niagara Falls        | 55.77170              | 1.8336                                    | 4.80660                             | 0.1576                                         |
| 22       | Richmound                    | North Bay Junction   | 46.34223              | 1.5236                                    | 4.26286                             | 0.1398                                         |
| 23       | Richmound                    | Philipsburg          | 61.26920              | 2.0143                                    | 5.30387                             | 0.1739                                         |
| 24       | Richmound                    | Spruce               | 19.69327              | 0.6475                                    | 1.67439                             | 0.0549                                         |
| 25       | Richmound                    | St. Clair            | 46.47545              | 1.5280                                    | 4.27580                             | 0.1402                                         |
| 26       | Richmound                    | Welwyn               | 13.10198              | 0.4308                                    | 1.03418                             | 0.0339                                         |
| 27       | Richmound                    | Dawn Export          | 50.33563              | 1.6549                                    | 4.31486                             | 0.1415                                         |
| 28       | Richmound                    | Union Parkway Belt   | 54.44644              | 1.7900                                    | 4.68669                             | 0.1537                                         |
| 29       | Richmound                    | Union CDA (Amended)  | 54.34850              | 1.7868                                    | 4.67785                             | 0.1534                                         |
| 30       | Richmound                    | Union ECDA           | 54.65480              | 1.7969                                    | 4.70553                             | 0.1543                                         |
| 31       | Sainte-Genevieve-de-Berthier | Empress              | 82.19040              | 2.7022                                    | 5.33259                             | 0.1748                                         |
| 32       | Sainte-Genevieve-de-Berthier | TransGas SSDA        | 71.70151              | 2.3573                                    | 4.62162                             | 0.1515                                         |
| 33       | Sainte-Genevieve-de-Berthier | Centram SSDA         | 67.40364              | 2.2160                                    | 4.33031                             | 0.1420                                         |
| 34       | Sainte-Genevieve-de-Berthier | Centram MDA          | 60.94040              | 2.0035                                    | 3.89221                             | 0.1276                                         |
| 35       | Sainte-Genevieve-de-Berthier | Centrat MDA          | 57.95835              | 1.9055                                    | 3.69008                             | 0.1210                                         |
| 36       | Sainte-Genevieve-de-Berthier | Union WDA            | 46.75468              | 1.5371                                    | 2.93068                             | 0.0961                                         |
| 37       | Sainte-Genevieve-de-Berthier | Nipigon WDA          | 42.15476              | 1.3859                                    | 2.61890                             | 0.0859                                         |
| 38       | Sainte-Genevieve-de-Berthier | Union NDA            | 23.98172              | 0.7884                                    | 1.38708                             | 0.0455                                         |
| 39       | Sainte-Genevieve-de-Berthier | Calstock NDA         | 34.15792              | 1.1230                                    | 2.07685                             | 0.0681                                         |
| 40       | Sainte-Genevieve-de-Berthier | Tunis NDA            | 27.86197              | 0.9160                                    | 1.65009                             | 0.0541                                         |
| 41       | Sainte-Genevieve-de-Berthier | GMIT NDA             | 23.18298              | 0.7622                                    | 1.33295                             | 0.0437                                         |
| 42       | Sainte-Genevieve-de-Berthier | Union SSM DA         | 40.09434              | 1.3182                                    | 2.47921                             | 0.0813                                         |
| 43       | Sainte-Genevieve-de-Berthier | Union NCDA           | 21.79628              | 0.7166                                    | 1.23894                             | 0.0406                                         |
| 44       | Sainte-Genevieve-de-Berthier | Union CDA            | 20.62007              | 0.6779                                    | 1.15923                             | 0.0380                                         |
| 45       | Sainte-Genevieve-de-Berthier | Union EDA            | 12.13716              | 0.3990                                    | 0.58423                             | 0.0192                                         |
| 46       | Sainte-Genevieve-de-Berthier | Enbridge CDA         | 19.17984              | 0.6306                                    | 1.06162                             | 0.0348                                         |
| 47       | Sainte-Genevieve-de-Berthier | Enbridge Parkway CDA | 19.89524              | 0.6541                                    | 1.11009                             | 0.0364                                         |
| 48       | Sainte-Genevieve-de-Berthier | Enbridge EDA         | 11.55742              | 0.3800                                    | 0.54494                             | 0.0179                                         |
| 49       | Sainte-Genevieve-de-Berthier | KPUC EDA             | 12.54718              | 0.4125                                    | 0.61202                             | 0.0201                                         |
| 50       | Sainte-Genevieve-de-Berthier | GMIT EDA             | 7.10990               | 0.2338                                    | 0.24347                             | 0.0080                                         |
| 51       | Sainte-Genevieve-de-Berthier | Enbridge SWDA        | 25.38119              | 0.8345                                    | 1.48192                             | 0.0486                                         |
| 52       | Sainte-Genevieve-de-Berthier | Union SWDA           | 25.46757              | 0.8373                                    | 1.48781                             | 0.0488                                         |
| 53       | Sainte-Genevieve-de-Berthier | Chippawa             | 23.16168              | 0.7615                                    | 1.33151                             | 0.0437                                         |
| 54       | Sainte-Genevieve-de-Berthier | Cornwall             | 8.54921               | 0.2811                                    | 0.34102                             | 0.0112                                         |
| 55       | Sainte-Genevieve-de-Berthier | East Hereford        | 10.43444              | 0.3431                                    | 0.46882                             | 0.0154                                         |
| 56       | Sainte-Genevieve-de-Berthier | Emerson 1            | 61.38965              | 2.0183                                    | 3.92266                             | 0.1286                                         |
| 57       | Sainte-Genevieve-de-Berthier | Emerson 2            | 61.38965              | 2.0183                                    | 3.92266                             | 0.1286                                         |
| 58       | Sainte-Genevieve-de-Berthier | Iroquois             | 9.79721               | 0.3221                                    | 0.42560                             | 0.0140                                         |
| 59       | Sainte-Genevieve-de-Berthier | Kirkwall             | 20.81930              | 0.6845                                    | 1.17272                             | 0.0385                                         |
| 60       | Sainte-Genevieve-de-Berthier | Napierville          | 9.34187               | 0.3071                                    | 0.39476                             | 0.0129                                         |
| 61       | Sainte-Genevieve-de-Berthier | Niagara Falls        | 23.10389              | 0.7596                                    | 1.32759                             | 0.0435                                         |
| 62       | Sainte-Genevieve-de-Berthier | North Bay Junction   | 19.77053              | 0.6500                                    | 1.10164                             | 0.0361                                         |
| 63       | Sainte-Genevieve-de-Berthier | Philipsburg          | 9.76405               | 0.3210                                    | 0.42337                             | 0.0139                                         |
| 64       | Sainte-Genevieve-de-Berthier | Spruce               | 57.95835              | 1.9055                                    | 3.69008                             | 0.1210                                         |
| 65       | Sainte-Genevieve-de-Berthier | St. Clair            | 25.95698              | 0.8534                                    | 1.52098                             | 0.0499                                         |
| 66       | Sainte-Genevieve-de-Berthier | Welwyn               | 67.40364              | 2.2160                                    | 4.33031                             | 0.1420                                         |
| 67       | Sainte-Genevieve-de-Berthier | Dawn Export          | 25.38119              | 0.8345                                    | 1.48192                             | 0.0486                                         |
| 68       | Sainte-Genevieve-de-Berthier | Union Parkway Belt   | 19.89524              | 0.6541                                    | 1.11009                             | 0.0364                                         |
| 69       | Sainte-Genevieve-de-Berthier | Union CDA (Amended)  | 21.37045              | 0.7026                                    | 1.21010                             | 0.0397                                         |
| 70       | Sainte-Genevieve-de-Berthier | Union ECDA           | 20.17385              | 0.6633                                    | 1.12897                             | 0.0370                                         |
| 71       | Shackleton                   | Empress              | 4.38365               | 0.1441                                    | 0.18732                             | 0.0061                                         |
| 72       | Shackleton                   | TransGas SSDA        | 8.60092               | 0.2828                                    | 0.59699                             | 0.0196                                         |
| 73       | Shackleton                   | Centram SSDA         | 11.57689              | 0.3806                                    | 0.88603                             | 0.0291                                         |
| 74       | Shackleton                   | Centram MDA          | 16.13026              | 0.5303                                    | 1.32831                             | 0.0436                                         |
| 75       | Shackleton                   | Centrat MDA          | 18.16788              | 0.5973                                    | 1.52624                             | 0.0500                                         |
| 76       | Shackleton                   | Union WDA            | 26.68758              | 0.8774                                    | 2.35374                             | 0.0772                                         |
| 77       | Shackleton                   | Nipigon WDA          | 29.19605              | 0.9599                                    | 2.59743                             | 0.0852                                         |
| 78       | Shackleton                   | Union NDA            | 41.89075              | 1.3772                                    | 3.83047                             | 0.1256                                         |
| 79       | Shackleton                   | Calstock NDA         | 34.77690              | 1.1434                                    | 3.13947                             | 0.1029                                         |
| 80       | Shackleton                   | Tunis NDA            | 39.17058              | 1.2878                                    | 3.56625                             | 0.1169                                         |
| 81       | Shackleton                   | GMIT NDA             | 42.78652              | 1.4067                                    | 3.91746                             | 0.1284                                         |
| 82       | Shackleton                   | Union SSM DA         | 37.84989              | 1.2444                                    | 3.43798                             | 0.1127                                         |

| Line No. | Receipt Point | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Shackleton    | Union NCDA           | 51.30136              | 1.6866                                    | 4.40221                             | 0.1443                                         |
| 2        | Shackleton    | Union CDA            | 52.90219              | 1.7393                                    | 4.54704                             | 0.1491                                         |
| 3        | Shackleton    | Union EDA            | 56.79643              | 1.8673                                    | 4.89930                             | 0.1606                                         |
| 4        | Shackleton    | Enbridge CDA         | 53.89286              | 1.7718                                    | 4.63664                             | 0.1520                                         |
| 5        | Shackleton    | Enbridge Parkway CDA | 52.80850              | 1.7362                                    | 4.53853                             | 0.1488                                         |
| 6        | Shackleton    | Enbridge EDA         | 55.55604              | 1.8265                                    | 4.78709                             | 0.1570                                         |
| 7        | Shackleton    | KPUC EDA             | 57.98998              | 1.9065                                    | 5.00725                             | 0.1642                                         |
| 8        | Shackleton    | GMIT EDA             | 59.59325              | 1.9592                                    | 5.15229                             | 0.1689                                         |
| 9        | Shackleton    | Enbridge SWDA        | 48.69769              | 1.6010                                    | 4.16670                             | 0.1366                                         |
| 10       | Shackleton    | Union SWDA           | 48.63260              | 1.5989                                    | 4.16080                             | 0.1364                                         |
| 11       | Shackleton    | Chippawa             | 54.17756              | 1.7812                                    | 4.66237                             | 0.1529                                         |
| 12       | Shackleton    | Cornwall             | 56.53150              | 1.8586                                    | 4.87531                             | 0.1599                                         |
| 13       | Shackleton    | East Hereford        | 62.98501              | 2.0707                                    | 5.45909                             | 0.1790                                         |
| 14       | Shackleton    | Emerson 1            | 18.52436              | 0.6090                                    | 1.56084                             | 0.0512                                         |
| 15       | Shackleton    | Emerson 2            | 18.52436              | 0.6090                                    | 1.56084                             | 0.0512                                         |
| 16       | Shackleton    | Iroquois             | 55.92895              | 1.8388                                    | 4.82083                             | 0.1581                                         |
| 17       | Shackleton    | Kirkwall             | 52.11622              | 1.7134                                    | 4.47591                             | 0.1468                                         |
| 18       | Shackleton    | Napierville          | 59.31463              | 1.9501                                    | 5.12710                             | 0.1681                                         |
| 19       | Shackleton    | Niagara Falls        | 54.13406              | 1.7798                                    | 4.65845                             | 0.1527                                         |
| 20       | Shackleton    | North Bay Junction   | 44.81713              | 1.4734                                    | 4.11470                             | 0.1349                                         |
| 21       | Shackleton    | Philipsburg          | 59.63127              | 1.9605                                    | 5.15572                             | 0.1690                                         |
| 22       | Shackleton    | Spruce               | 18.16788              | 0.5973                                    | 1.52624                             | 0.0500                                         |
| 23       | Shackleton    | St. Clair            | 44.95036              | 1.4778                                    | 4.12765                             | 0.1353                                         |
| 24       | Shackleton    | Welwyn               | 11.57689              | 0.3806                                    | 0.88603                             | 0.0291                                         |
| 25       | Shackleton    | Dawn Export          | 48.69769              | 1.6010                                    | 4.16670                             | 0.1366                                         |
| 26       | Shackleton    | Union Parkway Belt   | 52.80850              | 1.7362                                    | 4.53853                             | 0.1488                                         |
| 27       | Shackleton    | Union CDA (Amended)  | 52.71056              | 1.7330                                    | 4.52968                             | 0.1485                                         |
| 28       | Shackleton    | Union ECDA           | 53.01686              | 1.7430                                    | 4.55738                             | 0.1494                                         |
| 29       | Spruce        | Empress              | -                     | 0.6487                                    | -                                   | 0.0550                                         |
| 30       | Spruce        | TransGas SSDA        | -                     | 0.4080                                    | -                                   | 0.0317                                         |
| 31       | Spruce        | Centram SSDA         | -                     | 0.3094                                    | -                                   | 0.0222                                         |
| 32       | Spruce        | Centram MDA          | -                     | 0.1612                                    | -                                   | 0.0078                                         |
| 33       | Spruce        | Centrat MDA          | -                     | 0.0927                                    | -                                   | 0.0012                                         |
| 34       | Spruce        | Union WDA            | -                     | 0.3728                                    | -                                   | 0.0283                                         |
| 35       | Spruce        | Nipigon WDA          | -                     | 0.4553                                    | -                                   | 0.0363                                         |
| 36       | Spruce        | Union NDA            | -                     | 0.8727                                    | -                                   | 0.0767                                         |
| 37       | Spruce        | Calstock NDA         | -                     | 0.6388                                    | -                                   | 0.0541                                         |
| 38       | Spruce        | Tunis NDA            | -                     | 0.7832                                    | -                                   | 0.0681                                         |
| 39       | Spruce        | GMIT NDA             | -                     | 0.9021                                    | -                                   | 0.0796                                         |
| 40       | Spruce        | Union SSM DA         | -                     | 0.8068                                    | -                                   | 0.0703                                         |
| 41       | Spruce        | Union NCDA           | -                     | 1.1448                                    | -                                   | 0.0955                                         |
| 42       | Spruce        | Union CDA            | -                     | 1.2620                                    | -                                   | 0.1060                                         |
| 43       | Spruce        | Union EDA            | -                     | 1.3276                                    | -                                   | 0.1120                                         |
| 44       | Spruce        | Enbridge CDA         | -                     | 1.2462                                    | -                                   | 0.1046                                         |
| 45       | Spruce        | Enbridge Parkway CDA | -                     | 1.2545                                    | -                                   | 0.1054                                         |
| 46       | Spruce        | Enbridge EDA         | -                     | 1.2851                                    | -                                   | 0.1081                                         |
| 47       | Spruce        | KPUC EDA             | -                     | 1.3647                                    | -                                   | 0.1153                                         |
| 48       | Spruce        | GMIT EDA             | -                     | 1.4174                                    | -                                   | 0.1201                                         |
| 49       | Spruce        | Enbridge SWDA        | -                     | 1.1312                                    | -                                   | 0.0942                                         |
| 50       | Spruce        | Union SWDA           | -                     | 1.1291                                    | -                                   | 0.0940                                         |
| 51       | Spruce        | Chippawa             | -                     | 1.3113                                    | -                                   | 0.1105                                         |
| 52       | Spruce        | Cornwall             | -                     | 1.3168                                    | -                                   | 0.1110                                         |
| 53       | Spruce        | East Hereford        | -                     | 1.5289                                    | -                                   | 0.1301                                         |
| 54       | Spruce        | Emerson 1            | -                     | 0.1715                                    | -                                   | 0.0088                                         |
| 55       | Spruce        | Emerson 2            | -                     | 0.1715                                    | -                                   | 0.0088                                         |
| 56       | Spruce        | Iroquois             | -                     | 1.2970                                    | -                                   | 0.1092                                         |
| 57       | Spruce        | Kirkwall             | -                     | 1.2436                                    | -                                   | 0.1044                                         |
| 58       | Spruce        | Napierville          | -                     | 1.4083                                    | -                                   | 0.1192                                         |
| 59       | Spruce        | Niagara Falls        | -                     | 1.3099                                    | -                                   | 0.1104                                         |
| 60       | Spruce        | North Bay Junction   | -                     | 0.9689                                    | -                                   | 0.0860                                         |
| 61       | Spruce        | Philipsburg          | -                     | 1.4187                                    | -                                   | 0.1202                                         |
| 62       | Spruce        | Spruce               | -                     | 0.0927                                    | -                                   | 0.0012                                         |
| 63       | Spruce        | St. Clair            | -                     | 1.0403                                    | -                                   | 0.0930                                         |
| 64       | Spruce        | Welwyn               | -                     | 0.3094                                    | -                                   | 0.0222                                         |
| 65       | Spruce        | Dawn Export          | -                     | 1.1312                                    | -                                   | 0.0942                                         |
| 66       | Spruce        | Union Parkway Belt   | -                     | 1.2545                                    | -                                   | 0.1054                                         |
| 67       | Spruce        | Union CDA (Amended)  | -                     | 1.2631                                    | -                                   | 0.1061                                         |
| 68       | Spruce        | Union ECDA           | -                     | 1.2613                                    | -                                   | 0.1060                                         |
| 69       | SS. Marie     | Empress              | 39.23050              | 1.2898                                    | 3.57207                             | 0.1171                                         |
| 70       | SS. Marie     | TransGas SSDA        | 31.91043              | 1.0491                                    | 2.86106                             | 0.0938                                         |
| 71       | SS. Marie     | Centram SSDA         | 28.91165              | 0.9505                                    | 2.56978                             | 0.0843                                         |
| 72       | SS. Marie     | Centram MDA          | 24.37500              | 0.8014                                    | 2.12915                             | 0.0698                                         |
| 73       | SS. Marie     | Centrat MDA          | 24.35858              | 0.8008                                    | 2.12754                             | 0.0698                                         |
| 74       | SS. Marie     | Union WDA            | 32.84027              | 1.0797                                    | 2.95138                             | 0.0968                                         |
| 75       | SS. Marie     | Nipigon WDA          | 35.38675              | 1.1634                                    | 3.19873                             | 0.1049                                         |
| 76       | SS. Marie     | Union NDA            | 25.72520              | 0.8458                                    | 2.26029                             | 0.0741                                         |
| 77       | SS. Marie     | Calstock NDA         | 32.83935              | 1.0797                                    | 2.95129                             | 0.0968                                         |
| 78       | SS. Marie     | Tunis NDA            | 28.44597              | 0.9352                                    | 2.52453                             | 0.0828                                         |
| 79       | SS. Marie     | GMIT NDA             | 25.18074              | 0.8279                                    | 2.20741                             | 0.0724                                         |
| 80       | SS. Marie     | Union SSM DA         | 3.00304               | 0.0987                                    | 0.05323                             | 0.0018                                         |
| 81       | SS. Marie     | Union NCDA           | 21.30292              | 0.7004                                    | 1.68859                             | 0.0554                                         |
| 82       | SS. Marie     | Union CDA            | 18.06263              | 0.5938                                    | 1.39546                             | 0.0458                                         |

| Line No. | Receipt Point | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | SS. Marie     | Union EDA            | 23.81260              | 0.7829                                    | 1.91560                             | 0.0628                                         |
| 2        | SS. Marie     | Enbridge CDA         | 19.28751              | 0.6341                                    | 1.50626                             | 0.0494                                         |
| 3        | SS. Marie     | Enbridge Parkway CDA | 17.96834              | 0.5907                                    | 1.38693                             | 0.0455                                         |
| 4        | SS. Marie     | Enbridge EDA         | 26.30312              | 0.8648                                    | 2.14090                             | 0.0702                                         |
| 5        | SS. Marie     | KPUC EDA             | 23.47437              | 0.7718                                    | 1.88501                             | 0.0618                                         |
| 6        | SS. Marie     | GMIT EDA             | 29.53245              | 0.9709                                    | 2.43301                             | 0.0798                                         |
| 7        | SS. Marie     | Enbridge SWDA        | 13.85783              | 0.4556                                    | 1.01510                             | 0.0333                                         |
| 8        | SS. Marie     | Union SWDA           | 13.79305              | 0.4535                                    | 1.00922                             | 0.0331                                         |
| 9        | SS. Marie     | Chippawa             | 19.33740              | 0.6358                                    | 1.51077                             | 0.0495                                         |
| 10       | SS. Marie     | Cornwall             | 26.47010              | 0.8703                                    | 2.15599                             | 0.0707                                         |
| 11       | SS. Marie     | East Hereford        | 32.92361              | 1.0824                                    | 2.73980                             | 0.0898                                         |
| 12       | SS. Marie     | Emerson 1            | 21.96418              | 0.7221                                    | 1.89497                             | 0.0621                                         |
| 13       | SS. Marie     | Emerson 2            | 21.96418              | 0.7221                                    | 1.89497                             | 0.0621                                         |
| 14       | SS. Marie     | Iroquois             | 25.89858              | 0.8515                                    | 2.10430                             | 0.0690                                         |
| 15       | SS. Marie     | Kirkwall             | 17.27606              | 0.5680                                    | 1.32431                             | 0.0434                                         |
| 16       | SS. Marie     | Napierville          | 29.25353              | 0.9618                                    | 2.40779                             | 0.0789                                         |
| 17       | SS. Marie     | Niagara Falls        | 19.29390              | 0.6343                                    | 1.50685                             | 0.0494                                         |
| 18       | SS. Marie     | North Bay Junction   | 22.79912              | 0.7496                                    | 1.97608                             | 0.0648                                         |
| 19       | SS. Marie     | Philipsburg          | 29.56987              | 0.9722                                    | 2.43641                             | 0.0799                                         |
| 20       | SS. Marie     | Spruce               | 24.35858              | 0.8008                                    | 2.12754                             | 0.0698                                         |
| 21       | SS. Marie     | St. Clair            | 12.50368              | 0.4111                                    | 0.97605                             | 0.0320                                         |
| 22       | SS. Marie     | Welwyn               | 28.91165              | 0.9505                                    | 2.56978                             | 0.0843                                         |
| 23       | SS. Marie     | Dawn Export          | 13.85783              | 0.4556                                    | 1.01510                             | 0.0333                                         |
| 24       | SS. Marie     | Union Parkway Belt   | 17.96834              | 0.5907                                    | 1.38693                             | 0.0455                                         |
| 25       | SS. Marie     | Union CDA (Amended)  | 17.87040              | 0.5875                                    | 1.37808                             | 0.0452                                         |
| 26       | SS. Marie     | Union ECDA           | 18.17670              | 0.5976                                    | 1.40580                             | 0.0461                                         |
| 27       | St. Clair     | Empress              | 66.65326              | 2.1913                                    | 4.27944                             | 0.1403                                         |
| 28       | St. Clair     | TransGas SSDA        | 56.16285              | 1.8465                                    | 3.56840                             | 0.1170                                         |
| 29       | St. Clair     | Centram SSDA         | 51.86650              | 1.7052                                    | 3.27715                             | 0.1075                                         |
| 30       | St. Clair     | Centram MDA          | 45.36494              | 1.4915                                    | 2.83649                             | 0.0930                                         |
| 31       | St. Clair     | Centrat MDA          | 45.34182              | 1.4907                                    | 2.83492                             | 0.0930                                         |
| 32       | St. Clair     | Union WDA            | 45.34456              | 1.4908                                    | 2.83511                             | 0.0930                                         |
| 33       | St. Clair     | Nipigon WDA          | 41.18021              | 1.3539                                    | 2.55283                             | 0.0837                                         |
| 34       | St. Clair     | Union NDA            | 22.98922              | 0.7558                                    | 1.31981                             | 0.0433                                         |
| 35       | St. Clair     | Calstock NDA         | 33.18337              | 1.0910                                    | 2.01077                             | 0.0659                                         |
| 36       | St. Clair     | Tunis NDA            | 26.88712              | 0.8840                                    | 1.58401                             | 0.0519                                         |
| 37       | St. Clair     | GMIT NDA             | 22.20843              | 0.7301                                    | 1.26689                             | 0.0415                                         |
| 38       | St. Clair     | Union SSMDA          | 18.17883              | 0.5977                                    | 0.99377                             | 0.0326                                         |
| 39       | St. Clair     | Union NCDA           | 14.55438              | 0.4785                                    | 0.74805                             | 0.0245                                         |
| 40       | St. Clair     | Union CDA            | 10.23034              | 0.3363                                    | 0.45497                             | 0.0149                                         |
| 41       | St. Clair     | Union EDA            | 17.90325              | 0.5886                                    | 0.97508                             | 0.0320                                         |
| 42       | St. Clair     | Enbridge EDA         | 21.22688              | 0.6979                                    | 1.20033                             | 0.0394                                         |
| 43       | St. Clair     | Enbridge CDA         | 11.86433              | 0.3901                                    | 0.56574                             | 0.0186                                         |
| 44       | St. Clair     | Enbridge Parkway CDA | 10.10381              | 0.3322                                    | 0.44641                             | 0.0146                                         |
| 45       | St. Clair     | KPUC EDA             | 17.45217              | 0.5738                                    | 0.94449                             | 0.0310                                         |
| 46       | St. Clair     | GMIT EDA             | 25.53662              | 0.8396                                    | 1.49248                             | 0.0489                                         |
| 47       | St. Clair     | Enbridge SWDA        | 4.61816               | 0.1518                                    | 0.07458                             | 0.0025                                         |
| 48       | St. Clair     | Union SWDA           | 4.53117               | 0.1490                                    | 0.06868                             | 0.0023                                         |
| 49       | St. Clair     | Chippawa             | 11.93094              | 0.3923                                    | 0.57025                             | 0.0187                                         |
| 50       | St. Clair     | Cornwall             | 21.45044              | 0.7052                                    | 1.21549                             | 0.0399                                         |
| 51       | St. Clair     | East Hereford        | 30.06323              | 0.9884                                    | 1.79928                             | 0.0590                                         |
| 52       | St. Clair     | Emerson 1            | 41.91082              | 1.3779                                    | 2.60234                             | 0.0853                                         |
| 53       | St. Clair     | Emerson 2            | 41.91082              | 1.3779                                    | 2.60234                             | 0.0853                                         |
| 54       | St. Clair     | Iroquois             | 20.42601              | 0.6715                                    | 1.14607                             | 0.0376                                         |
| 55       | St. Clair     | Kirkwall             | 9.18005               | 0.3018                                    | 0.38379                             | 0.0126                                         |
| 56       | St. Clair     | Napierville          | 25.16493              | 0.8273                                    | 1.46729                             | 0.0481                                         |
| 57       | St. Clair     | Niagara Falls        | 11.87315              | 0.3904                                    | 0.56633                             | 0.0186                                         |
| 58       | St. Clair     | North Bay Junction   | 18.79568              | 0.6179                                    | 1.03556                             | 0.0340                                         |
| 59       | St. Clair     | Philipsburg          | 25.58741              | 0.8412                                    | 1.49590                             | 0.0491                                         |
| 60       | St. Clair     | Spruce               | 45.34182              | 1.4907                                    | 2.83492                             | 0.0930                                         |
| 61       | St. Clair     | St. Clair            | 4.04238               | 0.1329                                    | 0.03553                             | 0.0012                                         |
| 62       | St. Clair     | Welwyn               | 51.86650              | 1.7052                                    | 3.27715                             | 0.1075                                         |
| 63       | St. Clair     | Dawn Export          | 4.61816               | 0.1518                                    | 0.07458                             | 0.0025                                         |
| 64       | St. Clair     | Union Parkway Belt   | 10.10381              | 0.3322                                    | 0.44641                             | 0.0146                                         |
| 65       | St. Clair     | Union CDA (Amended)  | 9.97332               | 0.3279                                    | 0.43756                             | 0.0144                                         |
| 66       | St. Clair     | Union ECDA           | 10.38243              | 0.3413                                    | 0.46528                             | 0.0153                                         |
| 67       | Steelman      | Empress              | 9.29868               | 0.3057                                    | 0.66475                             | 0.0218                                         |
| 68       | Steelman      | TransGas SSDA        | 3.85166               | 0.1266                                    | 0.13565                             | 0.0045                                         |
| 69       | Steelman      | Centram SSDA         | 6.66155               | 0.2190                                    | 0.40860                             | 0.0134                                         |
| 70       | Steelman      | Centram MDA          | 11.21493              | 0.3687                                    | 0.85089                             | 0.0279                                         |
| 71       | Steelman      | Centrat MDA          | 13.25315              | 0.4357                                    | 1.04883                             | 0.0344                                         |
| 72       | Steelman      | Union WDA            | 21.77225              | 0.7158                                    | 1.87634                             | 0.0615                                         |
| 73       | Steelman      | Nipigon WDA          | 24.28102              | 0.7983                                    | 2.12000                             | 0.0695                                         |
| 74       | Steelman      | Union NDA            | 36.97602              | 1.2157                                    | 3.35308                             | 0.1099                                         |
| 75       | Steelman      | Calstock NDA         | 29.86156              | 0.9818                                    | 2.66206                             | 0.0873                                         |
| 76       | Steelman      | Tunis NDA            | 34.25555              | 1.1262                                    | 3.08883                             | 0.1013                                         |
| 77       | Steelman      | GMIT NDA             | 37.87149              | 1.2451                                    | 3.44006                             | 0.1128                                         |
| 78       | Steelman      | Union SSMDA          | 32.93486              | 1.0828                                    | 2.96057                             | 0.0971                                         |
| 79       | Steelman      | Union NCDA           | 46.02346              | 1.5131                                    | 3.92479                             | 0.1287                                         |
| 80       | Steelman      | Union CDA            | 47.62490              | 1.5658                                    | 4.06965                             | 0.1334                                         |
| 81       | Steelman      | Union EDA            | 51.51945              | 1.6938                                    | 4.42194                             | 0.1450                                         |
| 82       | Steelman      | Enbridge CDA         | 48.61526              | 1.5983                                    | 4.15921                             | 0.1364                                         |

| Line No. | Receipt Point | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Steelman      | Enbridge Parkway CDA | 47.53060              | 1.5627                                    | 4.06111                             | 0.1332                                         |
| 2        | Steelman      | Enbridge EDA         | 50.27845              | 1.6530                                    | 4.30968                             | 0.1413                                         |
| 3        | Steelman      | KPUC EDA             | 52.71208              | 1.7330                                    | 4.52983                             | 0.1485                                         |
| 4        | Steelman      | GMIT EDA             | 54.31565              | 1.7857                                    | 4.67489                             | 0.1533                                         |
| 5        | Steelman      | Enbridge SWDA        | 43.42010              | 1.4275                                    | 3.68928                             | 0.1210                                         |
| 6        | Steelman      | Union SWDA           | 43.35500              | 1.4254                                    | 3.68340                             | 0.1208                                         |
| 7        | Steelman      | Chippawa             | 48.89935              | 1.6077                                    | 4.18494                             | 0.1372                                         |
| 8        | Steelman      | Cornwall             | 51.25330              | 1.6850                                    | 4.39788                             | 0.1442                                         |
| 9        | Steelman      | East Hereford        | 57.70741              | 1.8972                                    | 4.98169                             | 0.1633                                         |
| 10       | Steelman      | Emerson 1            | 13.60933              | 0.4474                                    | 1.08341                             | 0.0355                                         |
| 11       | Steelman      | Emerson 2            | 13.60933              | 0.4474                                    | 1.08341                             | 0.0355                                         |
| 12       | Steelman      | Iroquois             | 50.65135              | 1.6653                                    | 4.34341                             | 0.1424                                         |
| 13       | Steelman      | Kirkwall             | 46.83832              | 1.5399                                    | 3.99849                             | 0.1311                                         |
| 14       | Steelman      | Napierville          | 54.03703              | 1.7766                                    | 4.64968                             | 0.1525                                         |
| 15       | Steelman      | Niagara Falls        | 48.85616              | 1.6062                                    | 4.18103                             | 0.1371                                         |
| 16       | Steelman      | North Bay Junction   | 39.90180              | 1.3118                                    | 3.63728                             | 0.1193                                         |
| 17       | Steelman      | Philipsburg          | 54.35337              | 1.7870                                    | 4.67830                             | 0.1534                                         |
| 18       | Steelman      | Spruce               | 13.25315              | 0.4357                                    | 1.04883                             | 0.0344                                         |
| 19       | Steelman      | St. Clair            | 40.03503              | 1.3162                                    | 3.65023                             | 0.1197                                         |
| 20       | Steelman      | Welwyn               | 6.66155               | 0.2190                                    | 0.40860                             | 0.0134                                         |
| 21       | Steelman      | Dawn Export          | 43.42010              | 1.4275                                    | 3.68928                             | 0.1210                                         |
| 22       | Steelman      | Union Parkway Belt   | 47.53060              | 1.5627                                    | 4.06111                             | 0.1332                                         |
| 23       | Steelman      | Union CDA (Amended)  | 47.43266              | 1.5594                                    | 4.05226                             | 0.1329                                         |
| 24       | Steelman      | Union ECDA           | 47.73957              | 1.5695                                    | 4.07999                             | 0.1338                                         |
| 25       | Success       | Empress              | 5.10726               | 0.1679                                    | 0.25760                             | 0.0085                                         |
| 26       | Success       | TransGas SSDA        | 7.89860               | 0.2597                                    | 0.52875                             | 0.0173                                         |
| 27       | Success       | Centram SSDA         | 10.85328              | 0.3568                                    | 0.81575                             | 0.0268                                         |
| 28       | Success       | Centram MDA          | 15.40604              | 0.5065                                    | 1.25797                             | 0.0412                                         |
| 29       | Success       | Centrat MDA          | 17.44457              | 0.5735                                    | 1.45596                             | 0.0477                                         |
| 30       | Success       | Union WDA            | 25.96428              | 0.8536                                    | 2.28350                             | 0.0749                                         |
| 31       | Success       | Nipigon WDA          | 28.47274              | 0.9361                                    | 2.52715                             | 0.0829                                         |
| 32       | Success       | Union NDA            | 41.16744              | 1.3535                                    | 3.76020                             | 0.1233                                         |
| 33       | Success       | Calstock NDA         | 34.05328              | 1.1196                                    | 3.06920                             | 0.1006                                         |
| 34       | Success       | Tunis NDA            | 38.44697              | 1.2640                                    | 3.49596                             | 0.1146                                         |
| 35       | Success       | GMIT NDA             | 42.06290              | 1.3829                                    | 3.84719                             | 0.1261                                         |
| 36       | Success       | Union SSMDA          | 37.12628              | 1.2206                                    | 3.36770                             | 0.1104                                         |
| 37       | Success       | Union NCDA           | 50.52421              | 1.6611                                    | 4.33192                             | 0.1420                                         |
| 38       | Success       | Union CDA            | 52.12565              | 1.7137                                    | 4.47678                             | 0.1468                                         |
| 39       | Success       | Union EDA            | 56.01929              | 1.8417                                    | 4.82899                             | 0.1583                                         |
| 40       | Success       | Enbridge CDA         | 53.11602              | 1.7463                                    | 4.56634                             | 0.1497                                         |
| 41       | Success       | Enbridge Parkway CDA | 52.03136              | 1.7106                                    | 4.46824                             | 0.1465                                         |
| 42       | Success       | Enbridge EDA         | 54.77950              | 1.8010                                    | 4.71683                             | 0.1547                                         |
| 43       | Success       | KPUC EDA             | 57.21314              | 1.8810                                    | 4.93698                             | 0.1619                                         |
| 44       | Success       | GMIT EDA             | 58.81580              | 1.9337                                    | 5.08197                             | 0.1666                                         |
| 45       | Success       | Enbridge SWDA        | 47.92085              | 1.5755                                    | 4.09641                             | 0.1343                                         |
| 46       | Success       | Union SWDA           | 47.85576              | 1.5733                                    | 4.09051                             | 0.1341                                         |
| 47       | Success       | Chippawa             | 53.40041              | 1.7556                                    | 4.59209                             | 0.1506                                         |
| 48       | Success       | Cornwall             | 55.75436              | 1.8330                                    | 4.80503                             | 0.1575                                         |
| 49       | Success       | East Hereford        | 62.20786              | 2.0452                                    | 5.38882                             | 0.1767                                         |
| 50       | Success       | Emerson 1            | 17.80075              | 0.5852                                    | 1.49056                             | 0.0489                                         |
| 51       | Success       | Emerson 2            | 17.80075              | 0.5852                                    | 1.49056                             | 0.0489                                         |
| 52       | Success       | Iroquois             | 55.15211              | 1.8132                                    | 4.75055                             | 0.1558                                         |
| 53       | Success       | Kirkwall             | 51.33908              | 1.6879                                    | 4.40562                             | 0.1445                                         |
| 54       | Success       | Napierville          | 58.53809              | 1.9245                                    | 5.05683                             | 0.1658                                         |
| 55       | Success       | Niagara Falls        | 53.35722              | 1.7542                                    | 4.58817                             | 0.1504                                         |
| 56       | Success       | North Bay Junction   | 44.09352              | 1.4497                                    | 4.04441                             | 0.1326                                         |
| 57       | Success       | Philipsburg          | 58.85412              | 1.9349                                    | 5.08544                             | 0.1667                                         |
| 58       | Success       | Spruce               | 17.44457              | 0.5735                                    | 1.45596                             | 0.0477                                         |
| 59       | Success       | St. Clair            | 44.22675              | 1.4540                                    | 4.05737                             | 0.1330                                         |
| 60       | Success       | Welwyn               | 10.85328              | 0.3568                                    | 0.81575                             | 0.0268                                         |
| 61       | Success       | Dawn Export          | 47.92085              | 1.5755                                    | 4.09641                             | 0.1343                                         |
| 62       | Success       | Union Parkway Belt   | 52.03136              | 1.7106                                    | 4.46824                             | 0.1465                                         |
| 63       | Success       | Union CDA (Amended)  | 51.93372              | 1.7074                                    | 4.45941                             | 0.1462                                         |
| 64       | Success       | Union ECDA           | 52.23971              | 1.7175                                    | 4.48710                             | 0.1471                                         |
| 65       | Suffield 2    | Empress              | 2.85521               | 0.0939                                    | 0.03886                             | 0.0013                                         |
| 66       | Suffield 2    | TransGas SSDA        | 10.10655              | 0.3323                                    | 0.74321                             | 0.0244                                         |
| 67       | Suffield 2    | Centram SSDA         | 13.10533              | 0.4309                                    | 1.03449                             | 0.0339                                         |
| 68       | Suffield 2    | Centram MDA          | 17.65779              | 0.5805                                    | 1.47668                             | 0.0484                                         |
| 69       | Suffield 2    | Centrat MDA          | 19.69662              | 0.6476                                    | 1.67470                             | 0.0549                                         |
| 70       | Suffield 2    | Union WDA            | 28.21602              | 0.9277                                    | 2.50222                             | 0.0820                                         |
| 71       | Suffield 2    | Nipigon WDA          | 30.72479              | 1.0101                                    | 2.74589                             | 0.0900                                         |
| 72       | Suffield 2    | Union NDA            | 43.41949              | 1.4275                                    | 3.97895                             | 0.1305                                         |
| 73       | Suffield 2    | Calstock NDA         | 36.30503              | 1.1936                                    | 3.28794                             | 0.1078                                         |
| 74       | Suffield 2    | Tunis NDA            | 40.69902              | 1.3381                                    | 3.71470                             | 0.1218                                         |
| 75       | Suffield 2    | GMIT NDA             | 44.31495              | 1.4569                                    | 4.06593                             | 0.1333                                         |
| 76       | Suffield 2    | Union SSMDA          | 39.37833              | 1.2946                                    | 3.58644                             | 0.1176                                         |
| 77       | Suffield 2    | Union NCDA           | 52.94264              | 1.7406                                    | 4.55069                             | 0.1492                                         |
| 78       | Suffield 2    | Union CDA            | 54.54378              | 1.7932                                    | 4.69550                             | 0.1540                                         |
| 79       | Suffield 2    | Union EDA            | 58.43833              | 1.9213                                    | 5.04781                             | 0.1655                                         |
| 80       | Suffield 2    | Enbridge CDA         | 55.53414              | 1.8258                                    | 4.78510                             | 0.1569                                         |
| 81       | Suffield 2    | Enbridge Parkway CDA | 54.44948              | 1.7901                                    | 4.68698                             | 0.1537                                         |
| 82       | Suffield 2    | Enbridge EDA         | 57.19793              | 1.8805                                    | 4.93560                             | 0.1618                                         |

| Line No. | Receipt Point | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Suffield 2    | KPUC EDA             | 59.63127              | 1.9605                                    | 5.15572                             | 0.1690                                         |
| 2        | Suffield 2    | GMIT EDA             | 61.23483              | 2.0132                                    | 5.30076                             | 0.1738                                         |
| 3        | Suffield 2    | Enbridge SWDA        | 50.33898              | 1.6550                                    | 4.31515                             | 0.1415                                         |
| 4        | Suffield 2    | Union SWDA           | 50.27419              | 1.6529                                    | 4.30927                             | 0.1413                                         |
| 5        | Suffield 2    | Chippawa             | 55.81854              | 1.8351                                    | 4.81083                             | 0.1577                                         |
| 6        | Suffield 2    | Cornwall             | 58.17248              | 1.9125                                    | 5.02377                             | 0.1647                                         |
| 7        | Suffield 2    | East Hereford        | 64.62599              | 2.1247                                    | 5.60756                             | 0.1839                                         |
| 8        | Suffield 2    | Emerson 1            | 20.05249              | 0.6593                                    | 1.70930                             | 0.0560                                         |
| 9        | Suffield 2    | Emerson 2            | 20.05249              | 0.6593                                    | 1.70930                             | 0.0560                                         |
| 10       | Suffield 2    | Iroquois             | 57.57023              | 1.8927                                    | 4.96930                             | 0.1629                                         |
| 11       | Suffield 2    | Kirkwall             | 53.75720              | 1.7674                                    | 4.62436                             | 0.1516                                         |
| 12       | Suffield 2    | Napierville          | 60.95622              | 2.0040                                    | 5.27557                             | 0.1730                                         |
| 13       | Suffield 2    | Niagara Falls        | 55.77535              | 1.8337                                    | 4.80692                             | 0.1576                                         |
| 14       | Suffield 2    | North Bay Junction   | 46.34557              | 1.5237                                    | 4.26315                             | 0.1398                                         |
| 15       | Suffield 2    | Philipsburg          | 61.27255              | 2.0144                                    | 5.30418                             | 0.1739                                         |
| 16       | Suffield 2    | Spruce               | 19.69662              | 0.6476                                    | 1.67470                             | 0.0549                                         |
| 17       | Suffield 2    | St. Clair            | 46.47880              | 1.5281                                    | 4.27612                             | 0.1402                                         |
| 18       | Suffield 2    | Welwyn               | 13.10533              | 0.4309                                    | 1.03449                             | 0.0339                                         |
| 19       | Suffield 2    | Dawn Export          | 50.33898              | 1.6550                                    | 4.31515                             | 0.1415                                         |
| 20       | Suffield 2    | Union Parkway Belt   | 54.44948              | 1.7901                                    | 4.68698                             | 0.1537                                         |
| 21       | Suffield 2    | Union CDA (Amended)  | 54.35185              | 1.7869                                    | 4.67815                             | 0.1534                                         |
| 22       | Suffield 2    | Union ECDA           | 54.65784              | 1.7970                                    | 4.70585                             | 0.1543                                         |
| 23       | TransGas SSDA | Empress              | -                     | 0.3334                                    | -                                   | 0.0245                                         |
| 24       | TransGas SSDA | TransGas SSDA        | -                     | 0.0927                                    | -                                   | 0.0012                                         |
| 25       | TransGas SSDA | Centram SSDA         | -                     | 0.1913                                    | -                                   | 0.0107                                         |
| 26       | TransGas SSDA | Centram MDA          | -                     | 0.3410                                    | -                                   | 0.0252                                         |
| 27       | TransGas SSDA | Centrat MDA          | -                     | 0.4080                                    | -                                   | 0.0317                                         |
| 28       | TransGas SSDA | Union WDA            | -                     | 0.6881                                    | -                                   | 0.0588                                         |
| 29       | TransGas SSDA | Nipigon WDA          | -                     | 0.7706                                    | -                                   | 0.0668                                         |
| 30       | TransGas SSDA | Union NDA            | -                     | 1.1879                                    | -                                   | 0.1073                                         |
| 31       | TransGas SSDA | Calstock NDA         | -                     | 0.9541                                    | -                                   | 0.0846                                         |
| 32       | TransGas SSDA | Tunis NDA            | -                     | 1.0985                                    | -                                   | 0.0986                                         |
| 33       | TransGas SSDA | GMIT NDA             | -                     | 1.2174                                    | -                                   | 0.1101                                         |
| 34       | TransGas SSDA | Union SSM DA         | -                     | 1.0551                                    | -                                   | 0.0944                                         |
| 35       | TransGas SSDA | Union NCDA           | -                     | 1.4834                                    | -                                   | 0.1260                                         |
| 36       | TransGas SSDA | Union CDA            | -                     | 1.5360                                    | -                                   | 0.1308                                         |
| 37       | TransGas SSDA | Union EDA            | -                     | 1.6641                                    | -                                   | 0.1423                                         |
| 38       | TransGas SSDA | Enbridge CDA         | -                     | 1.5685                                    | -                                   | 0.1337                                         |
| 39       | TransGas SSDA | Enbridge Parkway CDA | -                     | 1.5329                                    | -                                   | 0.1305                                         |
| 40       | TransGas SSDA | Enbridge EDA         | -                     | 1.6233                                    | -                                   | 0.1386                                         |
| 41       | TransGas SSDA | KPUC EDA             | -                     | 1.7033                                    | -                                   | 0.1458                                         |
| 42       | TransGas SSDA | GMIT EDA             | -                     | 1.7559                                    | -                                   | 0.1506                                         |
| 43       | TransGas SSDA | Enbridge SWDA        | -                     | 1.3978                                    | -                                   | 0.1183                                         |
| 44       | TransGas SSDA | Union SWDA           | -                     | 1.3957                                    | -                                   | 0.1181                                         |
| 45       | TransGas SSDA | Chippawa             | -                     | 1.5779                                    | -                                   | 0.1345                                         |
| 46       | TransGas SSDA | Cornwall             | -                     | 1.6553                                    | -                                   | 0.1415                                         |
| 47       | TransGas SSDA | East Hereford        | -                     | 1.8675                                    | -                                   | 0.1607                                         |
| 48       | TransGas SSDA | Emerson 1            | -                     | 0.4197                                    | -                                   | 0.0328                                         |
| 49       | TransGas SSDA | Emerson 2            | -                     | 0.4197                                    | -                                   | 0.0328                                         |
| 50       | TransGas SSDA | Iroquois             | -                     | 1.6355                                    | -                                   | 0.1397                                         |
| 51       | TransGas SSDA | Kirkwall             | -                     | 1.5102                                    | -                                   | 0.1284                                         |
| 52       | TransGas SSDA | Napierville          | -                     | 1.7468                                    | -                                   | 0.1498                                         |
| 53       | TransGas SSDA | Niagara Falls        | -                     | 1.5765                                    | -                                   | 0.1344                                         |
| 54       | TransGas SSDA | North Bay Junction   | -                     | 1.2842                                    | -                                   | 0.1166                                         |
| 55       | TransGas SSDA | Philipsburg          | -                     | 1.7572                                    | -                                   | 0.1507                                         |
| 56       | TransGas SSDA | Spruce               | -                     | 0.4080                                    | -                                   | 0.0317                                         |
| 57       | TransGas SSDA | St. Clair            | -                     | 1.2885                                    | -                                   | 0.1170                                         |
| 58       | TransGas SSDA | Welwyn               | -                     | 0.1913                                    | -                                   | 0.0107                                         |
| 59       | TransGas SSDA | Dawn Export          | -                     | 1.3978                                    | -                                   | 0.1183                                         |
| 60       | TransGas SSDA | Union Parkway Belt   | -                     | 1.5329                                    | -                                   | 0.1305                                         |
| 61       | TransGas SSDA | Union CDA (Amended)  | -                     | 1.5297                                    | -                                   | 0.1302                                         |
| 62       | TransGas SSDA | Union ECDA           | -                     | 1.5398                                    | -                                   | 0.1311                                         |
| 63       | Tunis NDA     | Empress              | -                     | 1.3392                                    | -                                   | 0.1219                                         |
| 64       | Tunis NDA     | TransGas SSDA        | -                     | 1.0985                                    | -                                   | 0.0986                                         |
| 65       | Tunis NDA     | Centram SSDA         | -                     | 0.9999                                    | -                                   | 0.0890                                         |
| 66       | Tunis NDA     | Centram MDA          | -                     | 0.8517                                    | -                                   | 0.0747                                         |
| 67       | Tunis NDA     | Centrat MDA          | -                     | 0.7832                                    | -                                   | 0.0681                                         |
| 68       | Tunis NDA     | Union WDA            | -                     | 0.5262                                    | -                                   | 0.0432                                         |
| 69       | Tunis NDA     | Nipigon WDA          | -                     | 0.4207                                    | -                                   | 0.0329                                         |
| 70       | Tunis NDA     | Union NDA            | -                     | 0.1989                                    | -                                   | 0.0115                                         |
| 71       | Tunis NDA     | Calstock NDA         | -                     | 0.2372                                    | -                                   | 0.0152                                         |
| 72       | Tunis NDA     | Tunis NDA            | -                     | 0.0927                                    | -                                   | 0.0012                                         |
| 73       | Tunis NDA     | GMIT NDA             | -                     | 0.2116                                    | -                                   | 0.0127                                         |
| 74       | Tunis NDA     | Union SSM DA         | -                     | 0.9412                                    | -                                   | 0.0834                                         |
| 75       | Tunis NDA     | Union NCDA           | -                     | 0.4034                                    | -                                   | 0.0286                                         |
| 76       | Tunis NDA     | Union CDA            | -                     | 0.5309                                    | -                                   | 0.0401                                         |
| 77       | Tunis NDA     | Union EDA            | -                     | 0.5862                                    | -                                   | 0.0451                                         |
| 78       | Tunis NDA     | Enbridge CDA         | -                     | 0.5089                                    | -                                   | 0.0381                                         |
| 79       | Tunis NDA     | Enbridge Parkway CDA | -                     | 0.5130                                    | -                                   | 0.0385                                         |
| 80       | Tunis NDA     | Enbridge EDA         | -                     | 0.5437                                    | -                                   | 0.0412                                         |
| 81       | Tunis NDA     | KPUC EDA             | -                     | 0.6233                                    | -                                   | 0.0484                                         |
| 82       | Tunis NDA     | GMIT EDA             | -                     | 0.6760                                    | -                                   | 0.0532                                         |

| Line No. | Receipt Point       | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Tunis NDA           | Enbridge SWDA        | -                     | 0.6482                                    | -                                   | 0.0507                                         |
| 2        | Tunis NDA           | Union SWDA           | -                     | 0.6503                                    | -                                   | 0.0509                                         |
| 3        | Tunis NDA           | Chippawa             | -                     | 0.5935                                    | -                                   | 0.0457                                         |
| 4        | Tunis NDA           | Cornwall             | -                     | 0.5754                                    | -                                   | 0.0441                                         |
| 5        | Tunis NDA           | East Hereford        | -                     | 0.7875                                    | -                                   | 0.0632                                         |
| 6        | Tunis NDA           | Emerson 1            | -                     | 0.8620                                    | -                                   | 0.0757                                         |
| 7        | Tunis NDA           | Emerson 2            | -                     | 0.8620                                    | -                                   | 0.0757                                         |
| 8        | Tunis NDA           | Iroquois             | -                     | 0.5556                                    | -                                   | 0.0423                                         |
| 9        | Tunis NDA           | Kirkwall             | -                     | 0.5358                                    | -                                   | 0.0405                                         |
| 10       | Tunis NDA           | Napierville          | -                     | 0.6669                                    | -                                   | 0.0523                                         |
| 11       | Tunis NDA           | Niagara Falls        | -                     | 0.5921                                    | -                                   | 0.0456                                         |
| 12       | Tunis NDA           | North Bay Junction   | -                     | 0.2784                                    | -                                   | 0.0192                                         |
| 13       | Tunis NDA           | Philipsburg          | -                     | 0.6773                                    | -                                   | 0.0533                                         |
| 14       | Tunis NDA           | Spruce               | -                     | 0.7832                                    | -                                   | 0.0681                                         |
| 15       | Tunis NDA           | St. Clair            | -                     | 0.6169                                    | -                                   | 0.0519                                         |
| 16       | Tunis NDA           | Welwyn               | -                     | 0.9999                                    | -                                   | 0.0890                                         |
| 17       | Tunis NDA           | Dawn Export          | -                     | 0.6482                                    | -                                   | 0.0507                                         |
| 18       | Tunis NDA           | Union Parkway Belt   | -                     | 0.5130                                    | -                                   | 0.0385                                         |
| 19       | Tunis NDA           | Union CDA (Amended)  | -                     | 0.5494                                    | -                                   | 0.0417                                         |
| 20       | Tunis NDA           | Union ECDA           | -                     | 0.5199                                    | -                                   | 0.0391                                         |
| 21       | Union CDA           | Empress              | -                     | 2.3948                                    | -                                   | 0.1541                                         |
| 22       | Union CDA           | TransGas SSDA        | -                     | 2.0499                                    | -                                   | 0.1308                                         |
| 23       | Union CDA           | Centram SSDA         | -                     | 1.9086                                    | -                                   | 0.1212                                         |
| 24       | Union CDA           | Centram MDA          | -                     | 1.6949                                    | -                                   | 0.1068                                         |
| 25       | Union CDA           | Centrat MDA          | -                     | 1.6842                                    | -                                   | 0.1060                                         |
| 26       | Union CDA           | Union WDA            | -                     | 1.3296                                    | -                                   | 0.0821                                         |
| 27       | Union CDA           | Nipigon WDA          | -                     | 1.1784                                    | -                                   | 0.0718                                         |
| 28       | Union CDA           | Union NDA            | -                     | 0.5804                                    | -                                   | 0.0314                                         |
| 29       | Union CDA           | Calstock NDA         | -                     | 0.9155                                    | -                                   | 0.0541                                         |
| 30       | Union CDA           | Tunis NDA            | -                     | 0.7085                                    | -                                   | 0.0401                                         |
| 31       | Union CDA           | GMIT NDA             | -                     | 0.5547                                    | -                                   | 0.0297                                         |
| 32       | Union CDA           | Union SSMDA          | -                     | 0.8011                                    | -                                   | 0.0463                                         |
| 33       | Union CDA           | Union NCDA           | -                     | 0.3030                                    | -                                   | 0.0127                                         |
| 34       | Union CDA           | Union CDA            | -                     | 0.1329                                    | -                                   | 0.0012                                         |
| 35       | Union CDA           | Union EDA            | -                     | 0.4131                                    | -                                   | 0.0201                                         |
| 36       | Union CDA           | Enbridge CDA         | -                     | 0.2148                                    | -                                   | 0.0067                                         |
| 37       | Union CDA           | Enbridge Parkway CDA | -                     | 0.1567                                    | -                                   | 0.0028                                         |
| 38       | Union CDA           | Enbridge EDA         | -                     | 0.5224                                    | -                                   | 0.0275                                         |
| 39       | Union CDA           | KPUC EDA             | -                     | 0.3983                                    | -                                   | 0.0191                                         |
| 40       | Union CDA           | GMIT EDA             | -                     | 0.6641                                    | -                                   | 0.0371                                         |
| 41       | Union CDA           | Enbridge SWDA        | -                     | 0.3174                                    | -                                   | 0.0136                                         |
| 42       | Union CDA           | Union SWDA           | -                     | 0.3202                                    | -                                   | 0.0138                                         |
| 43       | Union CDA           | Chippawa             | -                     | 0.2185                                    | -                                   | 0.0070                                         |
| 44       | Union CDA           | Cornwall             | -                     | 0.5298                                    | -                                   | 0.0280                                         |
| 45       | Union CDA           | East Hereford        | -                     | 0.8129                                    | -                                   | 0.0471                                         |
| 46       | Union CDA           | Emerson 1            | -                     | 1.5813                                    | -                                   | 0.0991                                         |
| 47       | Union CDA           | Emerson 2            | -                     | 1.5813                                    | -                                   | 0.0991                                         |
| 48       | Union CDA           | Iroquois             | -                     | 0.4961                                    | -                                   | 0.0257                                         |
| 49       | Union CDA           | Kirkwall             | -                     | 0.1674                                    | -                                   | 0.0035                                         |
| 50       | Union CDA           | Napierville          | -                     | 0.6519                                    | -                                   | 0.0363                                         |
| 51       | Union CDA           | Niagara Falls        | -                     | 0.2166                                    | -                                   | 0.0068                                         |
| 52       | Union CDA           | North Bay Junction   | -                     | 0.4425                                    | -                                   | 0.0221                                         |
| 53       | Union CDA           | Philipsburg          | -                     | 0.6658                                    | -                                   | 0.0372                                         |
| 54       | Union CDA           | Spruce               | -                     | 1.6842                                    | -                                   | 0.1060                                         |
| 55       | Union CDA           | St. Clair            | -                     | 0.3363                                    | -                                   | 0.0149                                         |
| 56       | Union CDA           | Welwyn               | -                     | 1.9086                                    | -                                   | 0.1212                                         |
| 57       | Union CDA           | Dawn Export          | -                     | 0.3174                                    | -                                   | 0.0136                                         |
| 58       | Union CDA           | Union Parkway Belt   | -                     | 0.1567                                    | -                                   | 0.0028                                         |
| 59       | Union CDA           | Union CDA (Amended)  | -                     | 0.1614                                    | -                                   | 0.0031                                         |
| 60       | Union CDA           | Union ECDA           | -                     | 0.1488                                    | -                                   | 0.0022                                         |
| 61       | Union CDA (Amended) | Empress              | -                     | 2.3863                                    | -                                   | 0.1535                                         |
| 62       | Union CDA (Amended) | TransGas SSDA        | -                     | 2.0415                                    | -                                   | 0.1302                                         |
| 63       | Union CDA (Amended) | Centram SSDA         | -                     | 1.9002                                    | -                                   | 0.1206                                         |
| 64       | Union CDA (Amended) | Centram MDA          | -                     | 1.6865                                    | -                                   | 0.1062                                         |
| 65       | Union CDA (Amended) | Centrat MDA          | -                     | 1.6857                                    | -                                   | 0.1061                                         |
| 66       | Union CDA (Amended) | Union WDA            | -                     | 1.3543                                    | -                                   | 0.0837                                         |
| 67       | Union CDA (Amended) | Nipigon WDA          | -                     | 1.2031                                    | -                                   | 0.0735                                         |
| 68       | Union CDA (Amended) | Union NDA            | -                     | 0.6051                                    | -                                   | 0.0331                                         |
| 69       | Union CDA (Amended) | Calstock NDA         | -                     | 0.9402                                    | -                                   | 0.0557                                         |
| 70       | Union CDA (Amended) | Tunis NDA            | -                     | 0.7332                                    | -                                   | 0.0417                                         |
| 71       | Union CDA (Amended) | GMIT NDA             | -                     | 0.5794                                    | -                                   | 0.0313                                         |
| 72       | Union CDA (Amended) | Union SSMDA          | -                     | 0.7927                                    | -                                   | 0.0458                                         |
| 73       | Union CDA (Amended) | Union NCDA           | -                     | 0.3277                                    | -                                   | 0.0143                                         |
| 74       | Union CDA (Amended) | Union CDA            | -                     | 0.1614                                    | -                                   | 0.0031                                         |
| 75       | Union CDA (Amended) | Union EDA            | -                     | 0.4378                                    | -                                   | 0.0218                                         |
| 76       | Union CDA (Amended) | Enbridge CDA         | -                     | 0.2313                                    | -                                   | 0.0078                                         |
| 77       | Union CDA (Amended) | Enbridge Parkway CDA | -                     | 0.1814                                    | -                                   | 0.0044                                         |
| 78       | Union CDA (Amended) | Enbridge EDA         | -                     | 0.5471                                    | -                                   | 0.0292                                         |
| 79       | Union CDA (Amended) | KPUC EDA             | -                     | 0.4230                                    | -                                   | 0.0208                                         |
| 80       | Union CDA (Amended) | GMIT EDA             | -                     | 0.6888                                    | -                                   | 0.0387                                         |
| 81       | Union CDA (Amended) | Enbridge SWDA        | -                     | 0.3090                                    | -                                   | 0.0131                                         |
| 82       | Union CDA (Amended) | Union SWDA           | -                     | 0.3118                                    | -                                   | 0.0133                                         |

| Line No. | Receipt Point       | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Union CDA (Amended) | Chippawa             | -                     | 0.1972                                    | -                                   | 0.0055                                         |
| 2        | Union CDA (Amended) | Cornwall             | -                     | 0.5544                                    | -                                   | 0.0297                                         |
| 3        | Union CDA (Amended) | East Hereford        | -                     | 0.8376                                    | -                                   | 0.0488                                         |
| 4        | Union CDA (Amended) | Emerson 1            | -                     | 1.5729                                    | -                                   | 0.0985                                         |
| 5        | Union CDA (Amended) | Emerson 2            | -                     | 1.5729                                    | -                                   | 0.0985                                         |
| 6        | Union CDA (Amended) | Iroquois             | -                     | 0.5208                                    | -                                   | 0.0274                                         |
| 7        | Union CDA (Amended) | Kirkwall             | -                     | 0.1590                                    | -                                   | 0.0029                                         |
| 8        | Union CDA (Amended) | Napierville          | -                     | 0.6766                                    | -                                   | 0.0379                                         |
| 9        | Union CDA (Amended) | Niagara Falls        | -                     | 0.1954                                    | -                                   | 0.0054                                         |
| 10       | Union CDA (Amended) | North Bay Junction   | -                     | 0.4672                                    | -                                   | 0.0238                                         |
| 11       | Union CDA (Amended) | Philipsburg          | -                     | 0.6904                                    | -                                   | 0.0389                                         |
| 12       | Union CDA (Amended) | Spruce               | -                     | 1.6857                                    | -                                   | 0.1061                                         |
| 13       | Union CDA (Amended) | St. Clair            | -                     | 0.3279                                    | -                                   | 0.0144                                         |
| 14       | Union CDA (Amended) | Welwyn               | -                     | 1.9002                                    | -                                   | 0.1206                                         |
| 15       | Union CDA (Amended) | Dawn Export          | -                     | 0.3090                                    | -                                   | 0.0131                                         |
| 16       | Union CDA (Amended) | Union Parkway Belt   | -                     | 0.1814                                    | -                                   | 0.0044                                         |
| 17       | Union CDA (Amended) | Union CDA (Amended)  | -                     | 0.1329                                    | -                                   | 0.0012                                         |
| 18       | Union CDA (Amended) | Union ECDA           | -                     | 0.1753                                    | -                                   | 0.0040                                         |
| 19       | Union ECDA          | Empress              | -                     | 2.3998                                    | -                                   | 0.1544                                         |
| 20       | Union ECDA          | TransGas SSDA        | -                     | 2.0549                                    | -                                   | 0.1311                                         |
| 21       | Union ECDA          | Centram SSDA         | -                     | 1.9136                                    | -                                   | 0.1215                                         |
| 22       | Union ECDA          | Centram MDA          | -                     | 1.6999                                    | -                                   | 0.1071                                         |
| 23       | Union ECDA          | Centrat MDA          | -                     | 1.6833                                    | -                                   | 0.1060                                         |
| 24       | Union ECDA          | Union WDA            | -                     | 1.3150                                    | -                                   | 0.0811                                         |
| 25       | Union ECDA          | Nipigon WDA          | -                     | 1.1637                                    | -                                   | 0.0709                                         |
| 26       | Union ECDA          | Union NDA            | -                     | 0.5656                                    | -                                   | 0.0304                                         |
| 27       | Union ECDA          | Calstock NDA         | -                     | 0.9008                                    | -                                   | 0.0531                                         |
| 28       | Union ECDA          | Tunis NDA            | -                     | 0.6938                                    | -                                   | 0.0391                                         |
| 29       | Union ECDA          | GMIT NDA             | -                     | 0.5400                                    | -                                   | 0.0287                                         |
| 30       | Union ECDA          | Union SSMDA          | -                     | 0.8061                                    | -                                   | 0.0467                                         |
| 31       | Union ECDA          | Union NCDA           | -                     | 0.2883                                    | -                                   | 0.0117                                         |
| 32       | Union ECDA          | Union CDA            | -                     | 0.1488                                    | -                                   | 0.0022                                         |
| 33       | Union ECDA          | Union EDA            | -                     | 0.3985                                    | -                                   | 0.0191                                         |
| 34       | Union ECDA          | Enbridge CDA         | -                     | 0.2050                                    | -                                   | 0.0060                                         |
| 35       | Union ECDA          | Enbridge Parkway CDA | -                     | 0.1421                                    | -                                   | 0.0018                                         |
| 36       | Union ECDA          | Enbridge EDA         | -                     | 0.5077                                    | -                                   | 0.0265                                         |
| 37       | Union ECDA          | KPUC EDA             | -                     | 0.3836                                    | -                                   | 0.0181                                         |
| 38       | Union ECDA          | GMIT EDA             | -                     | 0.6494                                    | -                                   | 0.0361                                         |
| 39       | Union ECDA          | Enbridge SWDA        | -                     | 0.3224                                    | -                                   | 0.0140                                         |
| 40       | Union ECDA          | Union SWDA           | -                     | 0.3253                                    | -                                   | 0.0142                                         |
| 41       | Union ECDA          | Chippawa             | -                     | 0.2311                                    | -                                   | 0.0078                                         |
| 42       | Union ECDA          | Cornwall             | -                     | 0.5151                                    | -                                   | 0.0270                                         |
| 43       | Union ECDA          | East Hereford        | -                     | 0.7982                                    | -                                   | 0.0461                                         |
| 44       | Union ECDA          | Emerson 1            | -                     | 1.5863                                    | -                                   | 0.0994                                         |
| 45       | Union ECDA          | Emerson 2            | -                     | 1.5863                                    | -                                   | 0.0994                                         |
| 46       | Union ECDA          | Iroquois             | -                     | 0.4814                                    | -                                   | 0.0247                                         |
| 47       | Union ECDA          | Kirkwall             | -                     | 0.1724                                    | -                                   | 0.0038                                         |
| 48       | Union ECDA          | Napierville          | -                     | 0.6372                                    | -                                   | 0.0353                                         |
| 49       | Union ECDA          | Niagara Falls        | -                     | 0.2292                                    | -                                   | 0.0077                                         |
| 50       | Union ECDA          | North Bay Junction   | -                     | 0.4278                                    | -                                   | 0.0211                                         |
| 51       | Union ECDA          | Philipsburg          | -                     | 0.6511                                    | -                                   | 0.0362                                         |
| 52       | Union ECDA          | Spruce               | -                     | 1.6833                                    | -                                   | 0.1060                                         |
| 53       | Union ECDA          | St. Clair            | -                     | 0.3413                                    | -                                   | 0.0153                                         |
| 54       | Union ECDA          | Welwyn               | -                     | 1.9136                                    | -                                   | 0.1215                                         |
| 55       | Union ECDA          | Dawn Export          | -                     | 0.3224                                    | -                                   | 0.0140                                         |
| 56       | Union ECDA          | Union Parkway Belt   | -                     | 0.1421                                    | -                                   | 0.0018                                         |
| 57       | Union ECDA          | Union CDA (Amended)  | -                     | 0.1753                                    | -                                   | 0.0040                                         |
| 58       | Union ECDA          | Union ECDA           | -                     | 0.1329                                    | -                                   | 0.0012                                         |
| 59       | Union Dawn          | Empress              | 67.22905              | 2.2103                                    | 4.31850                             | 0.1416                                         |
| 60       | Union Dawn          | TransGas SSDA        | 56.73986              | 1.8654                                    | 3.60750                             | 0.1183                                         |
| 61       | Union Dawn          | Centram SSDA         | 52.44229              | 1.7241                                    | 3.31621                             | 0.1087                                         |
| 62       | Union Dawn          | Centram MDA          | 45.94133              | 1.5104                                    | 2.87555                             | 0.0943                                         |
| 63       | Union Dawn          | Centrat MDA          | 45.91822              | 1.5096                                    | 2.87397                             | 0.0942                                         |
| 64       | Union Dawn          | Union WDA            | 44.86702              | 1.4751                                    | 2.80273                             | 0.0919                                         |
| 65       | Union Dawn          | Nipigon WDA          | 40.60412              | 1.3349                                    | 2.51378                             | 0.0824                                         |
| 66       | Union Dawn          | Union NDA            | 22.41374              | 0.7369                                    | 1.28078                             | 0.0420                                         |
| 67       | Union Dawn          | Calstock NDA         | 32.60697              | 1.0720                                    | 1.97172                             | 0.0647                                         |
| 68       | Union Dawn          | Tunis NDA            | 26.31072              | 0.8650                                    | 1.54495                             | 0.0507                                         |
| 69       | Union Dawn          | GMIT NDA             | 21.63264              | 0.7112                                    | 1.22783                             | 0.0403                                         |
| 70       | Union Dawn          | Union SSMDA          | 18.75522              | 0.6166                                    | 1.03282                             | 0.0339                                         |
| 71       | Union Dawn          | Union NCDA           | 13.97828              | 0.4596                                    | 0.70901                             | 0.0233                                         |
| 72       | Union Dawn          | Union CDA            | 9.65334               | 0.3174                                    | 0.41588                             | 0.0136                                         |
| 73       | Union Dawn          | Union EDA            | 17.32685              | 0.5697                                    | 0.93601                             | 0.0307                                         |
| 74       | Union Dawn          | Enbridge CDA         | 11.28793              | 0.3711                                    | 0.52667                             | 0.0173                                         |
| 75       | Union Dawn          | Enbridge Parkway CDA | 9.52802               | 0.3133                                    | 0.40736                             | 0.0134                                         |
| 76       | Union Dawn          | Enbridge EDA         | 20.65048              | 0.6789                                    | 1.16129                             | 0.0381                                         |
| 77       | Union Dawn          | KPUC EDA             | 16.87578              | 0.5548                                    | 0.90543                             | 0.0297                                         |
| 78       | Union Dawn          | GMIT EDA             | 24.96083              | 0.8206                                    | 1.45344                             | 0.0477                                         |
| 79       | Union Dawn          | Enbridge SWDA        | 4.04238               | 0.1329                                    | 0.03553                             | 0.0012                                         |
| 80       | Union Dawn          | Union SWDA           | 4.12876               | 0.1357                                    | 0.04141                             | 0.0014                                         |
| 81       | Union Dawn          | Chippawa             | 11.35454              | 0.3733                                    | 0.53119                             | 0.0174                                         |
| 82       | Union Dawn          | Cornwall             | 20.87405              | 0.6863                                    | 1.17644                             | 0.0386                                         |

| Line No. | Receipt Point | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Union Dawn    | East Hereford        | 29.48683              | 0.9694                                    | 1.76022                             | 0.0577                                         |
| 2        | Union Dawn    | Emerson 1            | 42.48691              | 1.3968                                    | 2.64140                             | 0.0866                                         |
| 3        | Union Dawn    | Emerson 2            | 42.48691              | 1.3968                                    | 2.64140                             | 0.0866                                         |
| 4        | Union Dawn    | Iroquois             | 19.84992              | 0.6526                                    | 1.10701                             | 0.0363                                         |
| 5        | Union Dawn    | Kirkwall             | 8.60427               | 0.2829                                    | 0.34474                             | 0.0113                                         |
| 6        | Union Dawn    | Napierville          | 24.58883              | 0.8084                                    | 1.42823                             | 0.0468                                         |
| 7        | Union Dawn    | Niagara Falls        | 11.29705              | 0.3714                                    | 0.52728                             | 0.0173                                         |
| 8        | Union Dawn    | North Bay Junction   | 18.21958              | 0.5990                                    | 0.99650                             | 0.0327                                         |
| 9        | Union Dawn    | Philipsburg          | 25.01102              | 0.8223                                    | 1.45685                             | 0.0478                                         |
| 10       | Union Dawn    | Spruce               | 45.91822              | 1.5096                                    | 2.87397                             | 0.0942                                         |
| 11       | Union Dawn    | St. Clair            | 4.61816               | 0.1518                                    | 0.07458                             | 0.0025                                         |
| 12       | Union Dawn    | Welwyn               | 52.44229              | 1.7241                                    | 3.31621                             | 0.1087                                         |
| 13       | Union Dawn    | Dawn Export          | 4.04238               | 0.1329                                    | 0.03553                             | 0.0012                                         |
| 14       | Union Dawn    | Union Parkway Belt   | 9.52802               | 0.3133                                    | 0.40736                             | 0.0134                                         |
| 15       | Union Dawn    | Union CDA (Amended)  | 9.39753               | 0.3090                                    | 0.39853                             | 0.0131                                         |
| 16       | Union Dawn    | Union ECDA           | 9.80664               | 0.3224                                    | 0.42624                             | 0.0140                                         |
| 17       | Union EDA     | Empress              | -                     | 2.5656                                    | -                                   | 0.1656                                         |
| 18       | Union EDA     | TransGas SSDA        | -                     | 2.2208                                    | -                                   | 0.1423                                         |
| 19       | Union EDA     | Centram SSDA         | -                     | 2.0795                                    | -                                   | 0.1328                                         |
| 20       | Union EDA     | Centram MDA          | -                     | 1.8658                                    | -                                   | 0.1183                                         |
| 21       | Union EDA     | Centrat MDA          | -                     | 1.7718                                    | -                                   | 0.1120                                         |
| 22       | Union EDA     | Union WDA            | -                     | 1.4034                                    | -                                   | 0.0870                                         |
| 23       | Union EDA     | Nipigon WDA          | -                     | 1.2522                                    | -                                   | 0.0768                                         |
| 24       | Union EDA     | Union NDA            | -                     | 0.6542                                    | -                                   | 0.0364                                         |
| 25       | Union EDA     | Calstock NDA         | -                     | 0.9893                                    | -                                   | 0.0591                                         |
| 26       | Union EDA     | Tunis NDA            | -                     | 0.7823                                    | -                                   | 0.0451                                         |
| 27       | Union EDA     | GMIT NDA             | -                     | 0.6285                                    | -                                   | 0.0347                                         |
| 28       | Union EDA     | Union SSMDA          | -                     | 1.0534                                    | -                                   | 0.0634                                         |
| 29       | Union EDA     | Union NCDA           | -                     | 0.4582                                    | -                                   | 0.0232                                         |
| 30       | Union EDA     | Union CDA            | -                     | 0.4131                                    | -                                   | 0.0201                                         |
| 31       | Union EDA     | Union EDA            | -                     | 0.1329                                    | -                                   | 0.0012                                         |
| 32       | Union EDA     | Enbridge CDA         | -                     | 0.3656                                    | -                                   | 0.0169                                         |
| 33       | Union EDA     | Enbridge Parkway CDA | -                     | 0.3893                                    | -                                   | 0.0185                                         |
| 34       | Union EDA     | Enbridge EDA         | -                     | 0.2733                                    | -                                   | 0.0107                                         |
| 35       | Union EDA     | KPUC EDA             | -                     | 0.1971                                    | -                                   | 0.0055                                         |
| 36       | Union EDA     | GMIT EDA             | -                     | 0.3848                                    | -                                   | 0.0182                                         |
| 37       | Union EDA     | Enbridge SWDA        | -                     | 0.5697                                    | -                                   | 0.0307                                         |
| 38       | Union EDA     | Union SWDA           | -                     | 0.5725                                    | -                                   | 0.0309                                         |
| 39       | Union EDA     | Chippawa             | -                     | 0.4967                                    | -                                   | 0.0258                                         |
| 40       | Union EDA     | Cornwall             | -                     | 0.2508                                    | -                                   | 0.0091                                         |
| 41       | Union EDA     | East Hereford        | -                     | 0.5340                                    | -                                   | 0.0283                                         |
| 42       | Union EDA     | Emerson 1            | -                     | 1.8103                                    | -                                   | 0.1146                                         |
| 43       | Union EDA     | Emerson 2            | -                     | 1.8103                                    | -                                   | 0.1146                                         |
| 44       | Union EDA     | Iroquois             | -                     | 0.2222                                    | -                                   | 0.0072                                         |
| 45       | Union EDA     | Kirkwall             | -                     | 0.4197                                    | -                                   | 0.0206                                         |
| 46       | Union EDA     | Napierville          | -                     | 0.3730                                    | -                                   | 0.0174                                         |
| 47       | Union EDA     | Niagara Falls        | -                     | 0.4948                                    | -                                   | 0.0256                                         |
| 48       | Union EDA     | North Bay Junction   | -                     | 0.5163                                    | -                                   | 0.0271                                         |
| 49       | Union EDA     | Philipsburg          | -                     | 0.3868                                    | -                                   | 0.0183                                         |
| 50       | Union EDA     | Spruce               | -                     | 1.7718                                    | -                                   | 0.1120                                         |
| 51       | Union EDA     | St. Clair            | -                     | 0.5886                                    | -                                   | 0.0320                                         |
| 52       | Union EDA     | Welwyn               | -                     | 2.0795                                    | -                                   | 0.1328                                         |
| 53       | Union EDA     | Dawn Export          | -                     | 0.5697                                    | -                                   | 0.0307                                         |
| 54       | Union EDA     | Union Parkway Belt   | -                     | 0.3893                                    | -                                   | 0.0185                                         |
| 55       | Union EDA     | Union CDA (Amended)  | -                     | 0.4378                                    | -                                   | 0.0218                                         |
| 56       | Union EDA     | Union ECDA           | -                     | 0.3985                                    | -                                   | 0.0191                                         |
| 57       | Union NCDA    | Empress              | -                     | 2.3245                                    | -                                   | 0.1493                                         |
| 58       | Union NCDA    | TransGas SSDA        | -                     | 1.9797                                    | -                                   | 0.1260                                         |
| 59       | Union NCDA    | Centram SSDA         | -                     | 1.8384                                    | -                                   | 0.1165                                         |
| 60       | Union NCDA    | Centram MDA          | -                     | 1.6259                                    | -                                   | 0.1021                                         |
| 61       | Union NCDA    | Centrat MDA          | -                     | 1.5278                                    | -                                   | 0.0955                                         |
| 62       | Union NCDA    | Union WDA            | -                     | 1.1595                                    | -                                   | 0.0706                                         |
| 63       | Union NCDA    | Nipigon WDA          | -                     | 1.0083                                    | -                                   | 0.0603                                         |
| 64       | Union NCDA    | Union NDA            | -                     | 0.4100                                    | -                                   | 0.0199                                         |
| 65       | Union NCDA    | Calstock NDA         | -                     | 0.7454                                    | -                                   | 0.0426                                         |
| 66       | Union NCDA    | Tunis NDA            | -                     | 0.5384                                    | -                                   | 0.0286                                         |
| 67       | Union NCDA    | GMIT NDA             | -                     | 0.3845                                    | -                                   | 0.0182                                         |
| 68       | Union NCDA    | Union SSMDA          | -                     | 0.9433                                    | -                                   | 0.0559                                         |
| 69       | Union NCDA    | Union NCDA           | -                     | 0.1329                                    | -                                   | 0.0012                                         |
| 70       | Union NCDA    | Union CDA            | -                     | 0.3030                                    | -                                   | 0.0127                                         |
| 71       | Union NCDA    | Union EDA            | -                     | 0.4582                                    | -                                   | 0.0232                                         |
| 72       | Union NCDA    | Enbridge CDA         | -                     | 0.2737                                    | -                                   | 0.0107                                         |
| 73       | Union NCDA    | Enbridge Parkway CDA | -                     | 0.2792                                    | -                                   | 0.0111                                         |
| 74       | Union NCDA    | Enbridge EDA         | -                     | 0.5343                                    | -                                   | 0.0283                                         |
| 75       | Union NCDA    | KPUC EDA             | -                     | 0.4468                                    | -                                   | 0.0224                                         |
| 76       | Union NCDA    | GMIT EDA             | -                     | 0.7027                                    | -                                   | 0.0397                                         |
| 77       | Union NCDA    | Enbridge SWDA        | -                     | 0.4596                                    | -                                   | 0.0233                                         |
| 78       | Union NCDA    | Union SWDA           | -                     | 0.4624                                    | -                                   | 0.0234                                         |
| 79       | Union NCDA    | Chippawa             | -                     | 0.3866                                    | -                                   | 0.0183                                         |
| 80       | Union NCDA    | Cornwall             | -                     | 0.5684                                    | -                                   | 0.0306                                         |
| 81       | Union NCDA    | East Hereford        | -                     | 0.8516                                    | -                                   | 0.0498                                         |
| 82       | Union NCDA    | Emerson 1            | -                     | 1.6405                                    | -                                   | 0.1031                                         |

| Line No. | Receipt Point      | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|--------------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Union NCDA         | Emerson 2            | -                     | 1.6405                                    | -                                   | 0.1031                                         |
| 2        | Union NCDA         | Iroquois             | -                     | 0.5366                                    | -                                   | 0.0285                                         |
| 3        | Union NCDA         | Kirkwall             | -                     | 0.3096                                    | -                                   | 0.0131                                         |
| 4        | Union NCDA         | Napierville          | -                     | 0.6905                                    | -                                   | 0.0389                                         |
| 5        | Union NCDA         | Niagara Falls        | -                     | 0.3847                                    | -                                   | 0.0182                                         |
| 6        | Union NCDA         | North Bay Junction   | -                     | 0.2724                                    | -                                   | 0.0106                                         |
| 7        | Union NCDA         | Philipsburg          | -                     | 0.7044                                    | -                                   | 0.0398                                         |
| 8        | Union NCDA         | Spruce               | -                     | 1.5278                                    | -                                   | 0.0955                                         |
| 9        | Union NCDA         | St. Clair            | -                     | 0.4785                                    | -                                   | 0.0245                                         |
| 10       | Union NCDA         | Welwyn               | -                     | 1.8384                                    | -                                   | 0.1165                                         |
| 11       | Union NCDA         | Dawn Export          | -                     | 0.4596                                    | -                                   | 0.0233                                         |
| 12       | Union NCDA         | Union Parkway Belt   | -                     | 0.2792                                    | -                                   | 0.0111                                         |
| 13       | Union NCDA         | Union CDA (Amended)  | -                     | 0.3277                                    | -                                   | 0.0143                                         |
| 14       | Union NCDA         | Union ECDA           | -                     | 0.2883                                    | -                                   | 0.0117                                         |
| 15       | Union NDA          | Empress              | -                     | 1.4286                                    | -                                   | 0.1306                                         |
| 16       | Union NDA          | TransGas SSDA        | -                     | 1.1879                                    | -                                   | 0.1073                                         |
| 17       | Union NDA          | Centram SSDA         | -                     | 1.0893                                    | -                                   | 0.0977                                         |
| 18       | Union NDA          | Centram MDA          | -                     | 0.9409                                    | -                                   | 0.0833                                         |
| 19       | Union NDA          | Centrat MDA          | -                     | 0.8727                                    | -                                   | 0.0767                                         |
| 20       | Union NDA          | Union WDA            | -                     | 0.6155                                    | -                                   | 0.0518                                         |
| 21       | Union NDA          | Nipigon WDA          | -                     | 0.5101                                    | -                                   | 0.0416                                         |
| 22       | Union NDA          | Union NDA            | -                     | 0.0927                                    | -                                   | 0.0012                                         |
| 23       | Union NDA          | Calstock NDA         | -                     | 0.3266                                    | -                                   | 0.0238                                         |
| 24       | Union NDA          | Tunis NDA            | -                     | 0.1989                                    | -                                   | 0.0115                                         |
| 25       | Union NDA          | GMIT NDA             | -                     | 0.1848                                    | -                                   | 0.0101                                         |
| 26       | Union NDA          | Union SSMDA          | -                     | 0.8518                                    | -                                   | 0.0747                                         |
| 27       | Union NDA          | Union NCDA           | -                     | 0.3072                                    | -                                   | 0.0199                                         |
| 28       | Union NDA          | Union CDA            | -                     | 0.4349                                    | -                                   | 0.0314                                         |
| 29       | Union NDA          | Union EDA            | -                     | 0.4902                                    | -                                   | 0.0364                                         |
| 30       | Union NDA          | Enbridge CDA         | -                     | 0.4128                                    | -                                   | 0.0294                                         |
| 31       | Union NDA          | Enbridge Parkway CDA | -                     | 0.4170                                    | -                                   | 0.0298                                         |
| 32       | Union NDA          | Enbridge EDA         | -                     | 0.4480                                    | -                                   | 0.0326                                         |
| 33       | Union NDA          | KPUC EDA             | -                     | 0.5277                                    | -                                   | 0.0398                                         |
| 34       | Union NDA          | GMIT EDA             | -                     | 0.5801                                    | -                                   | 0.0445                                         |
| 35       | Union NDA          | Enbridge SWDA        | -                     | 0.5522                                    | -                                   | 0.0420                                         |
| 36       | Union NDA          | Union SWDA           | -                     | 0.5543                                    | -                                   | 0.0422                                         |
| 37       | Union NDA          | Chippawa             | -                     | 0.4975                                    | -                                   | 0.0371                                         |
| 38       | Union NDA          | Cornwall             | -                     | 0.4798                                    | -                                   | 0.0355                                         |
| 39       | Union NDA          | East Hereford        | -                     | 0.6919                                    | -                                   | 0.0546                                         |
| 40       | Union NDA          | Emerson 1            | -                     | 0.9514                                    | -                                   | 0.0843                                         |
| 41       | Union NDA          | Emerson 2            | -                     | 0.9514                                    | -                                   | 0.0843                                         |
| 42       | Union NDA          | Iroquois             | -                     | 0.4600                                    | -                                   | 0.0337                                         |
| 43       | Union NDA          | Kirkwall             | -                     | 0.4398                                    | -                                   | 0.0319                                         |
| 44       | Union NDA          | Napierville          | -                     | 0.5713                                    | -                                   | 0.0437                                         |
| 45       | Union NDA          | Niagara Falls        | -                     | 0.4961                                    | -                                   | 0.0369                                         |
| 46       | Union NDA          | North Bay Junction   | -                     | 0.1893                                    | -                                   | 0.0105                                         |
| 47       | Union NDA          | Philipsburg          | -                     | 0.5817                                    | -                                   | 0.0447                                         |
| 48       | Union NDA          | Spruce               | -                     | 0.8727                                    | -                                   | 0.0767                                         |
| 49       | Union NDA          | St. Clair            | -                     | 0.5274                                    | -                                   | 0.0433                                         |
| 50       | Union NDA          | Welwyn               | -                     | 1.0893                                    | -                                   | 0.0977                                         |
| 51       | Union NDA          | Dawn Export          | -                     | 0.5522                                    | -                                   | 0.0420                                         |
| 52       | Union NDA          | Union Parkway Belt   | -                     | 0.4170                                    | -                                   | 0.0298                                         |
| 53       | Union NDA          | Union CDA (Amended)  | -                     | 0.4534                                    | -                                   | 0.0331                                         |
| 54       | Union NDA          | Union ECDA           | -                     | 0.4238                                    | -                                   | 0.0304                                         |
| 55       | Union Parkway Belt | Empress              | 72.71500              | 2.3906                                    | 4.69033                             | 0.1538                                         |
| 56       | Union Parkway Belt | TransGas SSDA        | 62.22550              | 2.0458                                    | 3.97933                             | 0.1305                                         |
| 57       | Union Parkway Belt | Centram SSDA         | 57.92793              | 1.9045                                    | 3.68804                             | 0.1209                                         |
| 58       | Union Parkway Belt | Centram MDA          | 51.42698              | 1.6908                                    | 3.24739                             | 0.1065                                         |
| 59       | Union Parkway Belt | Centrat MDA          | 50.92176              | 1.6741                                    | 3.21314                             | 0.1054                                         |
| 60       | Union Parkway Belt | Union WDA            | 39.71839              | 1.3058                                    | 2.45373                             | 0.0805                                         |
| 61       | Union Parkway Belt | Nipigon WDA          | 35.11878              | 1.1546                                    | 2.14195                             | 0.0702                                         |
| 62       | Union Parkway Belt | Union NDA            | 16.92748              | 0.5565                                    | 0.90892                             | 0.0298                                         |
| 63       | Union Parkway Belt | Calstock NDA         | 27.12102              | 0.8917                                    | 1.59989                             | 0.0525                                         |
| 64       | Union Parkway Belt | Tunis NDA            | 20.82538              | 0.6847                                    | 1.17313                             | 0.0385                                         |
| 65       | Union Parkway Belt | GMIT NDA             | 16.14638              | 0.5308                                    | 0.85599                             | 0.0281                                         |
| 66       | Union Parkway Belt | Union SSMDA          | 24.24117              | 0.7970                                    | 1.40465                             | 0.0461                                         |
| 67       | Union Parkway Belt | Union NCDA           | 8.49264               | 0.2792                                    | 0.33718                             | 0.0111                                         |
| 68       | Union Parkway Belt | Union CDA            | 4.76720               | 0.1567                                    | 0.08466                             | 0.0028                                         |
| 69       | Union Parkway Belt | Union EDA            | 11.84212              | 0.3893                                    | 0.56423                             | 0.0185                                         |
| 70       | Union Parkway Belt | Enbridge CDA         | 6.05839               | 0.1992                                    | 0.17218                             | 0.0057                                         |
| 71       | Union Parkway Belt | Enbridge Parkway CDA | 4.04238               | 0.1329                                    | 0.03553                             | 0.0012                                         |
| 72       | Union Parkway Belt | Enbridge EDA         | 15.16514              | 0.4986                                    | 0.78946                             | 0.0259                                         |
| 73       | Union Parkway Belt | KPUC EDA             | 11.39043              | 0.3745                                    | 0.53360                             | 0.0175                                         |
| 74       | Union Parkway Belt | GMIT EDA             | 19.47488              | 0.6403                                    | 1.08161                             | 0.0355                                         |
| 75       | Union Parkway Belt | Enbridge SWDA        | 9.52802               | 0.3133                                    | 0.40736                             | 0.0134                                         |
| 76       | Union Parkway Belt | Union SWDA           | 9.61501               | 0.3161                                    | 0.41326                             | 0.0136                                         |
| 77       | Union Parkway Belt | Chippawa             | 7.30852               | 0.2403                                    | 0.25694                             | 0.0084                                         |
| 78       | Union Parkway Belt | Cornwall             | 15.38840              | 0.5059                                    | 0.80461                             | 0.0264                                         |
| 79       | Union Parkway Belt | East Hereford        | 24.00088              | 0.7891                                    | 1.38839                             | 0.0455                                         |
| 80       | Union Parkway Belt | Emerson 1            | 47.97256              | 1.5772                                    | 3.01323                             | 0.0988                                         |
| 81       | Union Parkway Belt | Emerson 2            | 47.97256              | 1.5772                                    | 3.01323                             | 0.0988                                         |
| 82       | Union Parkway Belt | Iroquois             | 14.36427              | 0.4723                                    | 0.73518                             | 0.0241                                         |

| Line No. | Receipt Point      | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|--------------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Union Parkway Belt | Kirkwall             | 4.96613               | 0.1633                                    | 0.09815                             | 0.0032                                         |
| 2        | Union Parkway Belt | Napierville          | 19.10349              | 0.6281                                    | 1.05640                             | 0.0346                                         |
| 3        | Union Parkway Belt | Niagara Falls        | 7.25103               | 0.2384                                    | 0.25303                             | 0.0083                                         |
| 4        | Union Parkway Belt | North Bay Junction   | 12.73394              | 0.4187                                    | 0.62467                             | 0.0205                                         |
| 5        | Union Parkway Belt | Philipsburg          | 19.52568              | 0.6419                                    | 1.08502                             | 0.0356                                         |
| 6        | Union Parkway Belt | Spruce               | 50.92176              | 1.6741                                    | 3.21314                             | 0.1054                                         |
| 7        | Union Parkway Belt | St. Clair            | 10.10381              | 0.3322                                    | 0.44641                             | 0.0146                                         |
| 8        | Union Parkway Belt | Welwyn               | 57.92793              | 1.9045                                    | 3.68804                             | 0.1209                                         |
| 9        | Union Parkway Belt | Dawn Export          | 9.52802               | 0.3133                                    | 0.40736                             | 0.0134                                         |
| 10       | Union Parkway Belt | Union Parkway Belt   | 4.04238               | 0.1329                                    | 0.03553                             | 0.0012                                         |
| 11       | Union Parkway Belt | Union CDA (Amended)  | 5.51758               | 0.1814                                    | 0.13553                             | 0.0044                                         |
| 12       | Union Parkway Belt | Union ECDA           | 4.32069               | 0.1421                                    | 0.05441                             | 0.0018                                         |
| 13       | Union SSMDA        | Empress              | -                     | 1.2958                                    | -                                   | 0.1177                                         |
| 14       | Union SSMDA        | TransGas SSDA        | -                     | 1.0551                                    | -                                   | 0.0944                                         |
| 15       | Union SSMDA        | Centram SSDA         | -                     | 0.9565                                    | -                                   | 0.0848                                         |
| 16       | Union SSMDA        | Centram MDA          | -                     | 0.8074                                    | -                                   | 0.0704                                         |
| 17       | Union SSMDA        | Centrat MDA          | -                     | 0.8068                                    | -                                   | 0.0703                                         |
| 18       | Union SSMDA        | Union WDA            | -                     | 1.0857                                    | -                                   | 0.0974                                         |
| 19       | Union SSMDA        | Nipigon WDA          | -                     | 1.1694                                    | -                                   | 0.1055                                         |
| 20       | Union SSMDA        | Union NDA            | -                     | 0.8518                                    | -                                   | 0.0747                                         |
| 21       | Union SSMDA        | Calstock NDA         | -                     | 1.0856                                    | -                                   | 0.0973                                         |
| 22       | Union SSMDA        | Tunis NDA            | -                     | 0.9412                                    | -                                   | 0.0834                                         |
| 23       | Union SSMDA        | GMIT NDA             | -                     | 0.8339                                    | -                                   | 0.0730                                         |
| 24       | Union SSMDA        | Union SSMDA          | -                     | 0.0927                                    | -                                   | 0.0012                                         |
| 25       | Union SSMDA        | Union NCDA           | -                     | 0.7068                                    | -                                   | 0.0559                                         |
| 26       | Union SSMDA        | Union CDA            | -                     | 0.6003                                    | -                                   | 0.0463                                         |
| 27       | Union SSMDA        | Union EDA            | -                     | 0.7893                                    | -                                   | 0.0634                                         |
| 28       | Union SSMDA        | Enbridge CDA         | -                     | 0.6405                                    | -                                   | 0.0500                                         |
| 29       | Union SSMDA        | Enbridge Parkway CDA | -                     | 0.5972                                    | -                                   | 0.0461                                         |
| 30       | Union SSMDA        | Enbridge EDA         | -                     | 0.8712                                    | -                                   | 0.0708                                         |
| 31       | Union SSMDA        | KPUC EDA             | -                     | 0.7782                                    | -                                   | 0.0624                                         |
| 32       | Union SSMDA        | GMIT EDA             | -                     | 0.9773                                    | -                                   | 0.0804                                         |
| 33       | Union SSMDA        | Enbridge SWDA        | -                     | 0.4620                                    | -                                   | 0.0339                                         |
| 34       | Union SSMDA        | Union SWDA           | -                     | 0.4599                                    | -                                   | 0.0337                                         |
| 35       | Union SSMDA        | Chippawa             | -                     | 0.6422                                    | -                                   | 0.0501                                         |
| 36       | Union SSMDA        | Cornwall             | -                     | 0.8767                                    | -                                   | 0.0713                                         |
| 37       | Union SSMDA        | East Hereford        | -                     | 1.0889                                    | -                                   | 0.0904                                         |
| 38       | Union SSMDA        | Emerson 1            | -                     | 0.7281                                    | -                                   | 0.0627                                         |
| 39       | Union SSMDA        | Emerson 2            | -                     | 0.7281                                    | -                                   | 0.0627                                         |
| 40       | Union SSMDA        | Iroquois             | -                     | 0.8515                                    | -                                   | 0.0690                                         |
| 41       | Union SSMDA        | Kirkwall             | -                     | 0.5744                                    | -                                   | 0.0440                                         |
| 42       | Union SSMDA        | Napierville          | -                     | 0.9682                                    | -                                   | 0.0795                                         |
| 43       | Union SSMDA        | Niagara Falls        | -                     | 0.6408                                    | -                                   | 0.0500                                         |
| 44       | Union SSMDA        | North Bay Junction   | -                     | 0.7556                                    | -                                   | 0.0654                                         |
| 45       | Union SSMDA        | Philipsburg          | -                     | 0.9786                                    | -                                   | 0.0805                                         |
| 46       | Union SSMDA        | Spruce               | -                     | 0.8068                                    | -                                   | 0.0703                                         |
| 47       | Union SSMDA        | St. Clair            | -                     | 0.4171                                    | -                                   | 0.0326                                         |
| 48       | Union SSMDA        | Welwyn               | -                     | 0.9565                                    | -                                   | 0.0848                                         |
| 49       | Union SSMDA        | Dawn Export          | -                     | 0.4620                                    | -                                   | 0.0339                                         |
| 50       | Union SSMDA        | Union Parkway Belt   | -                     | 0.5972                                    | -                                   | 0.0461                                         |
| 51       | Union SSMDA        | Union CDA (Amended)  | -                     | 0.5940                                    | -                                   | 0.0458                                         |
| 52       | Union SSMDA        | Union ECDA           | -                     | 0.6040                                    | -                                   | 0.0467                                         |
| 53       | Union WDA          | Empress              | -                     | 0.9288                                    | -                                   | 0.0822                                         |
| 54       | Union WDA          | TransGas SSDA        | -                     | 0.6881                                    | -                                   | 0.0588                                         |
| 55       | Union WDA          | Centram SSDA         | -                     | 0.5895                                    | -                                   | 0.0493                                         |
| 56       | Union WDA          | Centram MDA          | -                     | 0.4412                                    | -                                   | 0.0349                                         |
| 57       | Union WDA          | Centrat MDA          | -                     | 0.3728                                    | -                                   | 0.0283                                         |
| 58       | Union WDA          | Union WDA            | -                     | 0.0927                                    | -                                   | 0.0012                                         |
| 59       | Union WDA          | Nipigon WDA          | -                     | 0.2022                                    | -                                   | 0.0118                                         |
| 60       | Union WDA          | Union NDA            | -                     | 0.6155                                    | -                                   | 0.0518                                         |
| 61       | Union WDA          | Calstock NDA         | -                     | 0.3817                                    | -                                   | 0.0292                                         |
| 62       | Union WDA          | Tunis NDA            | -                     | 0.5262                                    | -                                   | 0.0432                                         |
| 63       | Union WDA          | GMIT NDA             | -                     | 0.6451                                    | -                                   | 0.0547                                         |
| 64       | Union WDA          | Union SSMDA          | -                     | 1.0857                                    | -                                   | 0.0974                                         |
| 65       | Union WDA          | Union NCDA           | -                     | 0.8689                                    | -                                   | 0.0706                                         |
| 66       | Union WDA          | Union CDA            | -                     | 0.9963                                    | -                                   | 0.0821                                         |
| 67       | Union WDA          | Union EDA            | -                     | 1.0516                                    | -                                   | 0.0870                                         |
| 68       | Union WDA          | Enbridge CDA         | -                     | 0.9744                                    | -                                   | 0.0801                                         |
| 69       | Union WDA          | Enbridge Parkway CDA | -                     | 0.9785                                    | -                                   | 0.0805                                         |
| 70       | Union WDA          | Enbridge EDA         | -                     | 1.0091                                    | -                                   | 0.0832                                         |
| 71       | Union WDA          | KPUC EDA             | -                     | 1.0887                                    | -                                   | 0.0904                                         |
| 72       | Union WDA          | GMIT EDA             | -                     | 1.1414                                    | -                                   | 0.0952                                         |
| 73       | Union WDA          | Enbridge SWDA        | -                     | 1.1053                                    | -                                   | 0.0919                                         |
| 74       | Union WDA          | Union SWDA           | -                     | 1.1071                                    | -                                   | 0.0921                                         |
| 75       | Union WDA          | Chippawa             | -                     | 1.0589                                    | -                                   | 0.0877                                         |
| 76       | Union WDA          | Cornwall             | -                     | 1.0408                                    | -                                   | 0.0861                                         |
| 77       | Union WDA          | East Hereford        | -                     | 1.2529                                    | -                                   | 0.1052                                         |
| 78       | Union WDA          | Emerson 1            | -                     | 0.4516                                    | -                                   | 0.0359                                         |
| 79       | Union WDA          | Emerson 2            | -                     | 0.4516                                    | -                                   | 0.0359                                         |
| 80       | Union WDA          | Iroquois             | -                     | 1.0210                                    | -                                   | 0.0843                                         |
| 81       | Union WDA          | Kirkwall             | -                     | 1.0012                                    | -                                   | 0.0825                                         |
| 82       | Union WDA          | Napierville          | -                     | 1.1323                                    | -                                   | 0.0943                                         |

| Line No. | Receipt Point | Delivery Point       | FT Toll (\$/GJ/Month) | Daily Equivalent FT for IT / STFT (\$/GJ) | Abandonment Surcharge (\$/GJ/Month) | Daily Equivalent Abandonment Surcharge (\$/GJ) |
|----------|---------------|----------------------|-----------------------|-------------------------------------------|-------------------------------------|------------------------------------------------|
| 1        | Union WDA     | Niagara Falls        | -                     | 1.0575                                    | -                                   | 0.0876                                         |
| 2        | Union WDA     | North Bay Junction   | -                     | 0.7118                                    | -                                   | 0.0611                                         |
| 3        | Union WDA     | Philipsburg          | -                     | 1.1427                                    | -                                   | 0.0953                                         |
| 4        | Union WDA     | Spruce               | -                     | 0.3728                                    | -                                   | 0.0283                                         |
| 5        | Union WDA     | St. Clair            | -                     | 1.0403                                    | -                                   | 0.0930                                         |
| 6        | Union WDA     | Welwyn               | -                     | 0.5895                                    | -                                   | 0.0493                                         |
| 7        | Union WDA     | Dawn Export          | -                     | 1.1053                                    | -                                   | 0.0919                                         |
| 8        | Union WDA     | Union Parkway Belt   | -                     | 0.9785                                    | -                                   | 0.0805                                         |
| 9        | Union WDA     | Union CDA (Amended)  | -                     | 1.0148                                    | -                                   | 0.0837                                         |
| 10       | Union WDA     | Union ECDA           | -                     | 0.9853                                    | -                                   | 0.0811                                         |
| 11       | Welwyn        | Empress              | 13.13970              | 0.4320                                    | 1.03782                             | 0.0340                                         |
| 12       | Welwyn        | TransGas SSDA        | 5.81993               | 0.1913                                    | 0.32684                             | 0.0107                                         |
| 13       | Welwyn        | Centram SSDA         | 2.82084               | 0.0927                                    | 0.03553                             | 0.0012                                         |
| 14       | Welwyn        | Centram MDA          | 7.37361               | 0.2424                                    | 0.47777                             | 0.0157                                         |
| 15       | Welwyn        | Centrat MDA          | 9.41213               | 0.3094                                    | 0.67576                             | 0.0222                                         |
| 16       | Welwyn        | Union WDA            | 17.93093              | 0.5895                                    | 1.50323                             | 0.0493                                         |
| 17       | Welwyn        | Nipigon WDA          | 20.44000              | 0.6720                                    | 1.74693                             | 0.0573                                         |
| 18       | Welwyn        | Union NDA            | 33.13409              | 1.0893                                    | 2.97994                             | 0.0977                                         |
| 19       | Welwyn        | Calstock NDA         | 26.02055              | 0.8555                                    | 2.28899                             | 0.0751                                         |
| 20       | Welwyn        | Tunis NDA            | 30.41423              | 0.9999                                    | 2.71575                             | 0.0890                                         |
| 21       | Welwyn        | GMIT NDA             | 34.03047              | 1.1188                                    | 3.06698                             | 0.1006                                         |
| 22       | Welwyn        | Union SSMDA          | 29.09385              | 0.9565                                    | 2.58750                             | 0.0848                                         |
| 23       | Welwyn        | Union NCDA           | 41.89957              | 1.3775                                    | 3.55171                             | 0.1165                                         |
| 24       | Welwyn        | Union CDA            | 43.50070              | 1.4302                                    | 3.69656                             | 0.1212                                         |
| 25       | Welwyn        | Union EDA            | 47.39495              | 1.5582                                    | 4.04884                             | 0.1328                                         |
| 26       | Welwyn        | Enbridge CDA         | 44.49076              | 1.4627                                    | 3.78614                             | 0.1241                                         |
| 27       | Welwyn        | Enbridge Parkway CDA | 43.40641              | 1.4271                                    | 3.68804                             | 0.1209                                         |
| 28       | Welwyn        | Enbridge EDA         | 46.15395              | 1.5174                                    | 3.93659                             | 0.1291                                         |
| 29       | Welwyn        | KPUC EDA             | 48.58789              | 1.5974                                    | 4.15676                             | 0.1363                                         |
| 30       | Welwyn        | GMIT EDA             | 50.19145              | 1.6501                                    | 4.30181                             | 0.1410                                         |
| 31       | Welwyn        | Enbridge SWDA        | 39.29590              | 1.2919                                    | 3.31621                             | 0.1087                                         |
| 32       | Welwyn        | Union SWDA           | 39.23050              | 1.2898                                    | 3.31031                             | 0.1085                                         |
| 33       | Welwyn        | Chippawa             | 44.77546              | 1.4721                                    | 3.81187                             | 0.1250                                         |
| 34       | Welwyn        | Cornwall             | 47.12941              | 1.5495                                    | 4.02481                             | 0.1320                                         |
| 35       | Welwyn        | East Hereford        | 53.58322              | 1.7616                                    | 4.60861                             | 0.1511                                         |
| 36       | Welwyn        | Emerson 1            | 9.76801               | 0.3211                                    | 0.71034                             | 0.0233                                         |
| 37       | Welwyn        | Emerson 2            | 9.76801               | 0.3211                                    | 0.71034                             | 0.0233                                         |
| 38       | Welwyn        | Iroquois             | 46.52716              | 1.5297                                    | 3.97033                             | 0.1302                                         |
| 39       | Welwyn        | Kirkwall             | 42.71413              | 1.4043                                    | 3.62541                             | 0.1189                                         |
| 40       | Welwyn        | Napierville          | 49.91284              | 1.6410                                    | 4.27661                             | 0.1402                                         |
| 41       | Welwyn        | Niagara Falls        | 44.73227              | 1.4707                                    | 3.80795                             | 0.1249                                         |
| 42       | Welwyn        | North Bay Junction   | 36.06109              | 1.1856                                    | 3.26421                             | 0.1070                                         |
| 43       | Welwyn        | Philipsburg          | 50.22917              | 1.6514                                    | 4.30522                             | 0.1412                                         |
| 44       | Welwyn        | Spruce               | 9.41213               | 0.3094                                    | 0.67576                             | 0.0222                                         |
| 45       | Welwyn        | St. Clair            | 36.19431              | 1.1900                                    | 3.27715                             | 0.1075                                         |
| 46       | Welwyn        | Welwyn               | 2.82084               | 0.0927                                    | 0.03553                             | 0.0012                                         |
| 47       | Welwyn        | Dawn Export          | 39.29590              | 1.2919                                    | 3.31621                             | 0.1087                                         |
| 48       | Welwyn        | Union Parkway Belt   | 43.40641              | 1.4271                                    | 3.68804                             | 0.1209                                         |
| 49       | Welwyn        | Union CDA (Amended)  | 43.30847              | 1.4238                                    | 3.67920                             | 0.1206                                         |
| 50       | Welwyn        | Union ECDA           | 43.61507              | 1.4339                                    | 3.70690                             | 0.1215                                         |

- Notes:
- (i) Aggregate charges for Mainline transportation service will include the applicable transportation toll, abandonment surcharge, delivery pressure toll (if applicable) and Dawn receipt surcharge (if applicable) pursuant to the Mainline Tariff.
  - (ii) Any transportation with a Union Dawn receipt point is subject to a Union Dawn Receipt Point Surcharge. Transport under FT, FT-NR, FT-SN and EMB service is subject to the monthly surcharge toll, and other transportation services are subject to the daily equivalent toll. Refer to page 1 for the Union Dawn Receipt Point Surcharge tolls.
  - (iii) Transportation with receipt points from delivery areas or Spruce is for STFT and IT service only.
  - (iv) The following delivery points are subject to an additional charge for delivery pressure: Emerson 1 & 2, Union SWDA, Enbridge SWDA, Dawn Export, Niagara Falls, Iroquois, Chippawa, and East Hereford. Refer to page 1 for the delivery pressure toll.
  - (v) Effective November 1, 2016, the Union CDA is modified such that the Union Parkway Belt, Bronte and Burlington meters are removed from the Union CDA. The Bronte and Burlington meters are put within a new delivery area called the Union ECDA, and the Parkway-Union meter will become a new standalone delivery location called Union Parkway Belt. The remaining Union CDA meters, Nanticoke and Hamilton Gate, continue to reside in the Union CDA.
  - (vi) The following transportation services are subject to the Abandonment Surcharges: FT, FT-NR, STS, STS-L, SSS, FT-SN, MFP, EMB, IT, STFT, and ST-SN. The Daily Equivalent Abandonment Surcharge is only applicable to IT, SSS, STFT, ST-SN, ARPs, Diversions and STS Overrun.

September 18, 2015

Kimberly D. Bose  
Secretary, Federal Energy Regulatory Commission  
888 First Street, NE  
Washington, DC 20426

Re: Centra Pipelines Minnesota Inc., Docket No. RP15-\_\_\_\_-000  
Petition for Approval of Settlement

Dear Secretary Bose:

Pursuant to Rule 207(a)(5) of the Commission's Rule of Practice and Procedure, 18 C.F.R. § 385.207(a) (5), Centra Pipelines Minnesota Inc. ("CPMI") hereby submits for filing:

- A "Petition for Approval of Settlement" (the "Petition") requesting Commission approval of a Stipulation and Settlement Agreement (the "Settlement");
- Appended to the Petition as Exhibit 1, the Settlement, which includes as Appendix B a pro forma eTariff Section No. 4 that implements the Settlement Rate (as defined in the Petition);
- Appended to the Petition as Exhibit 2, a draft Commission Letter Order approving the Settlement, which draft Letter Order contains a summary of the Settlement's terms;
- A draft notice of the Petition setting September 30, 2015 as the deadline for interventions and comments; and,
- A certificate of service upon all shippers and interested state commissions as required by Section 154.7 of the Commission's Rule of Practice and Procedure.

The subject Settlement is hereby submitted by CPMI in lieu of a general rate change filing. CPMI and its shippers are mindful that the Commission "encourages" pipelines and their customers to resolve rate and tariff matters before making a rate/tariff change filing with the Commission, because such a process enables the prompt, efficient resolution of such matters for the benefit of all concerned, "without the expense of a hearing and lengthy litigation." *Dominion Transmission, Inc.* 111 FERC 61,285, at P 30 (2005) ("*Dominion*"). CPMI is following the guidance of the Commission in *Dominion*, petitioning under 18 C.F.R. § 385.207(a)(5) for Commission approval of the Settlement.

CPMI's shippers have indicated that they are not opposed to CPMI's Petition for Approval and the proposed terms of the Settlement. For this reason, CPMI does not anticipate

Kimberly D. Bose  
September 18, 2015  
Page 2

any protests to its Petition. In light of this Settlement, which contemplates implementation of the Settlement Rate effective November 1, 2015, CPMI requests that the Commission set September 30, 2015 as the deadline for interventions and comments, as reflected on the attached draft notice of the Petition.

CPMI is delivering copies of this letter and attachments to all customers and interested state commissions by email as set forth in the Certificate of Service appended to the Petition.

Respectfully submitted,

*/s/ Joan M. Darby*

Joan M. Darby

Attorney for  
Centra Pipelines Minnesota Inc.

**UNITED STATES OF AMERICA  
BEFORE THE  
FEDERAL ENERGY REGULATORY COMMISSION**

|                                 |   |                          |
|---------------------------------|---|--------------------------|
| In the Matter of                | ) |                          |
|                                 | ) |                          |
| Centra Pipelines Minnesota Inc. | ) | Docket No. RP15-____-000 |

**PETITION OF  
CENTRA PIPELINES MINNESOTA INC.  
FOR APPROVAL OF SETTLEMENT**

Pursuant to Rule 207(a)(5) of the Federal Energy Regulatory Commission's ("Commission") Rules of Practice and Procedure, 18 C.F.R. § 385.207(a)(5), Centra Pipelines Minnesota Inc. ("CPMI") hereby petitions the Commission for approval of the "Stipulation and Settlement Agreement," dated September 18, 2015 (the "Settlement," attached hereto as Exhibit 1), including the associated pro forma tariff section appearing in Appendix B to the Settlement. In support hereof, CPMI shows as follows:

**CORRESPONDENCE AND COMMUNICATIONS**

Communications concerning this filing and service of all documents should be addressed to the following:

J.P. Todd Karry, President  
Joe Brophy, VP & General Manager  
Centra Pipelines Minnesota Inc.  
2324 Main Street  
London, Ontario, N6P 1A9 CANADA  
TKarry@efgroupllc.com  
JBrophy@efgroupllc.com  
Tel: (519) 652-5357 / Fax: (519) 652-0428

Beth L. Webb  
Joan M. Darby  
Dickstein Shapiro LLP  
1825 Eye Street NW  
Washington, DC 20006  
WebbB@dicksteinshapiro.com  
DarbyJ@dicksteinshapiro.com  
Tel: (202) 420-2200 / Fax: (202) 420-2201

## BACKGROUND

CPMI's transportation system is the U.S. portion of an integrated natural gas pipeline system that extends from the TransCanada Pipeline mainline at Station 43 located near Spruce, Manitoba to CPMI's most easterly delivery point, the town border station located in International Falls, Minnesota. The Canadian portion of the integrated system is owned and operated by Centra Transmission Holdings Inc., ("CTHI"), a wholly owned subsidiary of Energy Fundamentals Group Limited Partnership. CTHI is regulated by the National Energy Board of Canada. The U.S. portion of the integrated system, owned and operated by CPMI, is comprised of three sections: (1) a 52 mile 12-inch main line transportation system interconnecting with CTHI's upstream import point at Warroad, MN, and downstream export point with CTHI at Baudette, MN, (2) an 18 mile, 3.5-inch lateral from the CPMI main line to the City of Roseau, MN and (3) a 0.5 mile, 12-inch border crossing interconnecting with CTHI at International Falls, MN.

CPMI is not an interstate pipeline. The Commission regulates CPMI under NGA Section 3. See *Inter-City Minnesota Pipelines Ltd.*, Docket No. CP83-25-000, 29 FERC ¶ 61,105 (Oct. 31, 1984).<sup>1</sup> Moreover, CPMI is not an open access transporter. FERC has permitted CPMI to provide all of its services under Part 157 certificate authority. See *Inter-City Minnesota Pipelines Ltd.*, Docket No. CP90-973-000, 53 FERC ¶ 61,162 (Nov. 1, 1990). CPMI qualifies as a Non-major natural gas company under Part 201 of FERC Regulations.

CPMI provides firm transportation service only and has one unified demand rate applicable to service on all CPMI facilities. CPMI's unified demand rate was previously determined in a rate case settlement agreement and was approved by the Commission in 1992 to be effective October 16, 1991. See *Centra Pipelines Minnesota Inc.*, Docket No. RP91-136-004, 58 FERC ¶ 61,195 (Feb. 20, 1992). That rate was modified when pre-filing settlement rates were approved by the Commission to be effective February 1, 2011 and November 1, 2014. See *Centra Pipelines Minnesota Inc.*, Docket No. RP11-1718-000, 134 FERC ¶ 61,225 (Mar. 22, 2011) and Docket No. RP14-1125-000, 148 FERC ¶ 61,162 (Sept. 3, 2014).

## THE SETTLEMENT

The Settlement establishes a new demand rate, to be effective as of November 1, 2015, of \$3.299 per Mcf per month, as set forth in the pro forma eTariff Section No. 4 appended to the Settlement as Appendix B (the "Settlement Rate"). The reason for the new demand rate is a reduction in aggregate shipper Contract Demand to become effective November 1, 2015. One

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<sup>1</sup> CPMI formerly operated as Inter-City Minnesota Pipelines Ltd.

of CPMI's current three shippers, Minnesota Energy Resources Corporation, has elected to reduce its capacity commitment effective November 1, 2015. The new demand rate is designed to maintain revenue neutrality at the lower contract demand level; there is no change in CPMI's cost of service and associated revenue recovery. No other terms and conditions of CPMI's FERC Gas Tariff are affected. Appended to this Petition as Exhibit 2 is a draft Commission Letter Order approving the Settlement. The terms of the Settlement are summarized in that draft Letter Order.

The Settlement is the product of dialogue and negotiation between CPMI and its three shippers. CPMI provided each shipper with a memorandum dated August 25, 2015 which details the basis, rationale and calculation of CPMI's proposed demand rate. CPMI provided to its shippers detail and background associated with the reduction in contract demand that explains the proposed demand rate change and responded to shipper questions. This Petition reflects the limited settlement agreed to by CPMI and its shippers. CPMI does not anticipate any protests to its Petition. Notwithstanding the foregoing, CPMI reserves its right to argue in reply comments that the Settlement should bind all CPMI's shippers despite any objection that may be filed.

### PETITION

Recognizing the benefits of affording pipelines and their customers a prompt, efficient process for resolving rate and tariff matters before making a rate or tariff change filing, in *Dominion Transmission, Inc.*, 111 FERC ¶ 61,285, at P 30 (2005) ("*Dominion*"), the Commission expressly encouraged pre-filing settlements.<sup>2</sup> As the Commission explained, such a prompt, efficient resolution of rate and tariff matters enables parties to achieve the benefits of settlement without the expense of a hearing and lengthy litigation. *Id.* As noted above, CPMI and its shippers benefitted from the Commission's approval of such pre-filing settlements in 2011 and again in 2014.

In *Dominion*, the Commission provided the industry with guidance for implementing a proactive settlement reached outside the context of a pending rate proceeding, instructing as follows:

In future situations of this kind, when a pipeline has negotiated an agreement with its customers and others to change its rates and terms and conditions of service and the pipeline desires approval

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<sup>2</sup> See also *Tuscarora Gas Transmission Co.*, 116 FERC ¶ 61,003 at P 15 (2006), *Discovery Gas Transmission LLC*, 122 FERC ¶ 61,009 at P 25 (2008) and *Gas Transmission Northwest LLC*, 151 FERC ¶ 61,280 (2015).

of the agreement before making an actual Section 4 tariff filing, the pipeline should simply file, pursuant to Section 385.207(a)(5), (footnote omitted) a petition for approval of the agreement, along with pro forma tariff sheets showing how the agreement would be implemented. The Commission will treat the petition for approval of the agreement as initiating a new proceeding, and issue a notice providing for interventions, comments, and protests. The Commission will act expeditiously on the proposal to ensure [the benefits of the settlement] are implemented as quickly as possible. If the Commission approves the agreement, it will direct that the pipeline file, pursuant to NGA Section 4(d) and Section 154.203 of the Commission's regulations, actual tariff sheets implementing the agreement consistent with the terms of the agreement as approved by the Commission. The Commission will treat such a filing as a filing to comply with the Commission's order approving the agreement, and the Commission will place tariff sheets that properly implement the agreement, as approved, into effect on the date provided for in the agreement.

*Id.* at P 32. In accordance with the Commission's instructions in *Dominion*, CPMI is filing this Petition seeking Commission approval of the Settlement.

CPMI respectfully petitions the Commission for prompt approval of the Settlement. A prompt Commission order approving the Settlement would afford CPMI and its shippers the benefit of timely direction from the Commission. It would permit CPMI and its shippers to implement the new demand rate as reflected in the Settlement effective November 1, 2015, coincident with the reductions in Contract Demand. Finally, and most importantly, it also would avoid the expense of a hearing and protracted litigation.

## CONCLUSION

WHEREFORE, CPMI respectfully requests that the Commission grant this Petition and approve the Settlement without modification or condition. CPMI further requests that the Commission grant any other authorizations or waivers that it may deem necessary to approve the Settlement as proposed.

Respectfully submitted,

September 18, 2015

/s/ Joan M. Darby

Beth L. Webb  
Joan M. Darby  
Dickstein Shapiro LLP  
1825 Eye Street NW  
Washington, DC 20006  
(202) 420-2200

Attorneys for  
Centra Pipeline Minnesota Inc.

For Settlement Purposes

**UNITED STATES OF AMERICA  
BEFORE THE  
FEDERAL ENERGY REGULATORY COMMISSION**

**CENTRA PIPELINES MINNESOTA INC. Docket No. RP15- -**

**STIPULATION AND SETTLEMENT AGREEMENT**

**(September 18, 2015)**

This Stipulation and Settlement Agreement (the "Settlement") reflects the outcome of dialogue and negotiation between Centra Pipeline Minnesota Inc. ("CPMI") and each of its three shippers on CPMI's system as of November 1, 2015 ("Shippers"). CPMI submits this Settlement with the three Shippers, each of which is listed on Appendix A hereto, in lieu of making a general rate change filing.

**ARTICLE I  
RATE MATTERS**

**Section 1.1 The Settlement Rate**

The settlement rate is the demand rate set forth in the pro forma eTariff Section No. 4, attached as Appendix B hereto (the "Settlement Rate"). The Settlement Rate is \$3.299/Mcf per month for service on CPMI.

**Section 1.2 Cost of Service**

The cost of service underlying CPMI's Settlement Rate remains unchanged from the cost of service underlying the 2011 settlement rate approved by the Commission. That settlement proposal was developed by applying a conventional itemized approach to determining each cost component with reference to actual historical cost of service incurred as a basis of comparison to recent operating results. CPMI is not proposing a change in its cost of service and no Shipper is advocating a change in CPMI's underlying cost of service at this time. In addition, it should be noted that this Stipulation and Settlement Agreement is an agreement solely on the Settlement Rate and that nothing herein constitutes an agreement on cost of service, rate of return or other matters. All Shippers have agreed to not to oppose CPMI's Petition for Approval of Settlement.

### **Section 1.3 Implementation of Settlement Rate**

As between CPMI and its Shippers, the Commission's order approving this Settlement in accord with Article III hereof shall constitute all authority necessary for the Settlement Rate to become effective November 1, 2015 and continue in effect for the Term of the Settlement as defined at Article II herein.

### **Section 1.4 No Refunds; Billing**

Because the Settlement Rate is higher than CPMI's existing tariff rate, no refunds are due to any of CPMI's Shippers. If the Settlement Rate is approved by the Commission after November 1, 2015, Shippers shall be billed retroactively to November 1, 2015 for the increase reflected in the Settlement Rate.

## **ARTICLE II TERM**

The Term of this Settlement shall commence on the Effective Date (as defined at Article 3.1) and shall terminate on the earliest of the date on which new rates become effective pursuant to: (i) a superseding general rate change filing under Section 4 of the Natural Gas Act; (ii) a superseding settlement agreement approved by the Commission; or (iii) a modification to CPMI's rate in a proceeding instituted pursuant to Section 5 of the Natural Gas Act.

## **ARTICLE III PROCEDURAL MATTERS**

### **Section 3.1 Effective Date/Nonseverability**

The provisions of this Settlement are not severable and shall become binding and effective on the date when the Commission order that approves this Settlement as to all its terms without material modification(s), reservation(s) or condition(s) (collectively referred to as "modification"), unless such modification is accepted pursuant to Section 3.2 hereof, becomes final (the "Effective Date").

### **Section 3.2 Commission Modification to Settlement**

In the event that the Commission by order approves this Settlement with a modification materially adverse to CPMI or any Shipper, then CPMI or any such Shipper shall be deemed to have accepted such modification unless, by written notice filed with the Commission and

served on all parties no later than 14 days after issuance of such order, CPMI or any such Shipper states its refusal to accept the Settlement as modified. In the event that CPMI or a Shipper gives notice of its refusal to accept the Settlement as modified, then this Settlement shall be deemed contested as of the end of such 14-day period for purposes of Section 3.3 hereof.

### **Section 3.3 Contests to Settlement Offer**

In the event this Settlement is contested pursuant to Section 3.2 hereof, and such contest is not withdrawn within 15 days of the original filing of such contest, then this Settlement may be withdrawn by CPMI for all purposes and, if so withdrawn, shall be deemed of no further force or effect.

### **Section 3.4 Tariff Sheets**

Within seven business days of the Effective Date, or such earlier date designated in the Commission order, CPMI shall file with the Commission a new eTariff Section No. 4 that is substantively identical to the pro forma eTariff Section No. 4 set forth in Appendix B hereto. Regardless of the Effective Date of the Settlement, the effective date of the new eTariff Section No. 4 and the Settlement Rate set forth therein shall be November 1, 2015 as provided in Article I hereof.

### **Section 3.5 Privileged and Confidential**

It is agreed that unless the Settlement is approved and becomes effective in accordance with its terms, the Settlement shall be privileged and shall not be discoverable, admissible in evidence or in any way described or discussed in any proceeding.

## **ARTICLE IV WAIVERS**

Approval of this Settlement shall constitute any and all waivers of the Commission's rules and regulations that may be necessary to effectuate the Settlement in accordance with all of its terms.

**ARTICLE V**  
**RESERVATIONS AND CONDITIONS**

This Settlement represents a resolution of all CPMI rate and tariff matters for the term of this Settlement. Except as specifically provided in this Settlement, no party shall be deemed to have waived any claim or right as to matters not addressed herein. This Settlement represents the entire agreement of the parties with respect to the CPMI rate and tariff matters resolved. Except as specifically provided in this Settlement, no party shall be deemed to have accepted or consented to any policy or principle purported to underlie the provisions of this Settlement. Except as specifically provided in this Settlement, the parties shall have the same rights under the Natural Gas Act that they would have had absent approval of this Settlement.

For Settlement Purposes

**APPENDIX A**  
**THE SHIPPER PARTIES**

Boise White Paper LLC  
Minnesota Energy Resources Corporation  
Union Gas Limited

For Settlement Purposes

**APPENDIX B**  
**STATEMENT OF RATES**

**4.0 STATEMENT OF RATES**

|           | <b>Base Rate (\$)</b> | <b>Adj. (\$)</b> | <b>Total Rate (\$)</b> |
|-----------|-----------------------|------------------|------------------------|
| <b>FT</b> |                       |                  |                        |
| Demand    | 3.251                 | 0.048            | 3.299                  |
| AOS       | 0.0000                | 0.0000           | 0.0000                 |

\_\_\_\_ FERC ¶ \_\_\_\_\_  
FEDERAL ENERGY REGULATORY COMMISSION  
Washington, D.C. 20426

\_\_\_\_\_, 2015

In Reply Refer To:  
Centra Pipelines Minnesota Inc.  
Docket No. RP15- \_\_\_\_ -000

Centra Pipelines Minnesota Inc.  
Attention: J.P. Todd Karry  
2324 Main Street  
London, Ontario, N6P 1A9  
Canada

Dickstein Shapiro LLP  
Attention: Beth L. Webb, Esquire  
1825 Eye Street NW  
Washington, DC 20006

Re: Centra Pipelines Minnesota Inc.  
Docket No. RP15- \_\_\_\_ -000

Dear Mr. Karry and Ms. Webb:

On September 18, 2015, pursuant to Rule 207(a)(5) of the Commission's Rules of Practice and Procedure,<sup>1</sup> Centra Pipelines Minnesota Inc. (CPMI) filed in Docket No. RP15- \_\_\_\_ -000 a Petition for Approval of Settlement (Settlement) in lieu of submitting a general rate change filing to revise CPMI's transportation rates. The Settlement is uncontested. As discussed below, the Commission approves the Settlement, with the rates thereunder to become effective November 1, 2015. The principal terms of the Settlement are summarized below.

1. Article I describes the process of developing the Settlement and sets for the Settlement Rate of \$3.299/Mcf per month for service on CPMI.
2. Article II provides that the term shall commence on the effective date and terminate on the earliest of the date on which new rates become effective pursuant to: (i) a superseding general rate change filing under Section 4 of the Natural Gas Act; (ii) a superseding settlement agreement approved by the Commission; or (iii) a modification to CPMI's rate in a proceeding instituted pursuant to Section 5 of the Natural Gas Act.

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<sup>1</sup> 18 C.F.R. § 385.207(a)(5) (2014).

3. Article III describes the effective date of the Settlement as the date on which the Commission order approving the Settlement becomes final. Article III specifies that CPMI shall file a new eTariff section No. 4 that is substantively identical to the pro forma eTariff section No. 4 appended to the Settlement within seven business days of the Settlement's becoming effective. Article III also specifies that the new eTariff section No. 4 shall have an effective date of November 1, 2015.

4. Article IV states that Commission approval of the Settlement shall constitute any and all waivers of the Commission's rules and regulations that may be necessary to effectuate the Settlement.

5. Article V contains reservations and conditions. It provides that the Settlement represents a resolution of all CPMI rate and tariff matters for the term of the Settlement. It also provides that, except as specifically provided for in the Settlement, no party shall be deemed to have waived any claim or right as to matters not addressed in the Settlement, and the parties shall have the same rights under the Natural Gas Act that they would have had absent approval of the Settlement.

6. Public notice of the Settlement was issued on \_\_\_\_\_, 2015. Interventions and protests due as provided in Section 154.210 of the Commission's regulations.<sup>2</sup> Pursuant to 18 C.F.R. § 385.214, all timely filed motions to intervene and any unopposed motion to intervene out-of-time filed before the issuance date of this order are granted. Granting late intervention at this stage of the proceeding will not disrupt the proceeding or place additional burdens on existing parties. No protests or adverse comments were filed.

7. The Commission finds that the Settlement appears to be fair and reasonable and in the public interest, and accordingly the Commission approves the Settlement, with the rates thereunder effective November 1, 2015, pursuant to its terms. The Settlement, which was filed in lieu of a rate case, resolves system-wide rate issues consistent with the Commission's guidance for settlements outside the context of an existing proceeding.<sup>3</sup> The Commission's approval of this Settlement does not constitute approval of, or precedent regarding, any principle or issue in this proceeding.

8. Within seven business days of the issuance of this order, the Commission directs CPMI to file tariff records in eTariff format as required by Order No. 714<sup>4</sup> in order to implement the pro forma tariff records proffered with the Settlement. This letter order terminates Docket No. RP15-\_\_\_\_-000.

By direction of the Commission.

Kimberly D. Bose  
Secretary

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<sup>2</sup> 18 C.F.R. § 154.210 (2014).

<sup>3</sup> See, e.g., *Dominion Transmission Inc.*, 111 FERC ¶ 61,285 (2005).

<sup>4</sup> *Electronic Tariff Filings*, Order No. 714, FERC Stats. & Regs. ¶ 31,276 (2008).

**UNITED STATES OF AMERICA  
FEDERAL ENERGY REGULATORY COMMISSION**

**CENTRA PIPELINES MINNESOTA INC.**

**Docket No. RP15-\_\_\_\_-000**

**NOTICE OF PETITION FOR APPROVAL OF SETTLEMENT**

**(\_\_\_\_\_, 2015)**

Take notice that on September 18, 2015, Petitioner Centra Pipelines Minnesota Inc. (CPMI) tendered for filing a "Petition for Approval of Settlement," accompanied by a proposed Stipulation and Settlement Agreement (Settlement Agreement), to which a pro forma eTariff section No. 4 is appended.

CPMI states that copies of its filing have been served upon all affected customers of CPMI and interested state commissions.

Any person desiring to intervene or to protest this filing must file in accordance with Rules 211 and 214 of the Commission's Rules of Practice and Procedure (18 CFR 385.211 and 385.214). Protests will be considered by the Commission in determining the appropriate action to be taken, but will not serve to make protestants parties to the proceeding. Any person wishing to become a party must file a notice of intervention or motion to intervene, as appropriate. Such notices, motions, or protests must be filed on or before the date as indicated below. Anyone filing an intervention or protest must serve a copy of that document on the Petitioner. Anyone filing an intervention or protest on or before the intervention or protest date need not serve motions to intervene or protests on persons other than the Petitioner.

The Commission encourages electronic submission of protests and interventions in lieu of paper using the "eFiling" link at <http://www.ferc.gov>. Persons unable to file electronically should submit an original and 5 copies of the protest or intervention to the Federal Energy Regulatory Commission, 888 First Street, N.E., Washington, D.C. 20426.

This filing is accessible on-line at <http://www.ferc.gov>, using the "eLibrary" link and is available for review in the Commission's Public Reference Room in Washington, D.C. There is an "eSubscription" link on the web site that enables subscribers to receive email notification when a document is added to a subscribed docket(s). For assistance with any FERC Online service, please email [FERCOnlineSupport@ferc.gov](mailto:FERCOnlineSupport@ferc.gov), or call (866) 208-3676 (toll free). For TTY, call (202) 502-8659.

Comment Date: 5:00 pm Eastern Time September 30, 2015

Kimberly D Bose

Secretary

## CERTIFICATE OF SERVICE

I hereby certify that, in accordance with Sections 154.2 and 154.208 of FERC Regulations, the foregoing filing by Centra Pipelines Minnesota Inc. has been served this 18<sup>th</sup> day of September, 2015 on all affected customers and interested state commissions as follows:

Mr. Jason Gillett  
[Jgillett@uniongas.com](mailto:Jgillett@uniongas.com)  
Union Gas Limited  
50 Keil Drive  
Chatham, Ontario  
CANADA N7M 5M1

Mr. Patrick Loupin  
[PatrickLoupin@BoisePaper.com](mailto:PatrickLoupin@BoisePaper.com)  
Boise White Paper LLC  
1111 West Jefferson Street  
Boise, ID 83728-0001

Mr. Shawn Gillespie  
[SLGillespie@integrysgroup.com](mailto:SLGillespie@integrysgroup.com)  
Minnesota Energy Resources Corporation  
1412 Howard Street  
Omaha, NE 68102

Mr. Robert Harding  
[Robert.Harding@state.mn.us](mailto:Robert.Harding@state.mn.us)  
Minnesota Public Utilities Commission  
121 7th Place E., Suite 350  
Saint Paul, MN 55101-2147

/s/ Joan M. Darby  
Joan M. Darby



**Telephone: 519-652-5357**  
**Facsimile: 519-652-0428**

September 18, 2015

**Electronic Filing**

National Energy Board  
444 – Seventh Avenue S.W.  
Calgary, Alberta  
T2P OX8

**Attention: Ms. Sheri Young**  
**Secretary of the Board**

Dear Ms. Young:

***Re: Centra Transmission Holdings, Inc.,  
Section 60 Application, For Tolls for Gas Transportation,  
Effective November 1<sup>st</sup>, 2015***

Enclosed is the above referenced Tolls and Tariff for Centra Transmission Holdings, Inc. herein referred to as CTHI.

By copy of this filing, CTHI is providing each shipper on the pipeline with a copy of this filing.

Yours truly

***Centra Transmission Holdings, Inc.***  
Joe Brophy  
Vice President & General Manager

Enclosure  
c.c.: Centra Transmission Holdings, Inc. Shippers

## **NATIONAL ENERGY BOARD**

**IN THE MATTER OF** the *National Energy Board Act*, R.S.C. 1985, c.N-7, as amended (the "Act") and the Regulations made thereunder;

**AND IN THE MATTER OF** a filing by Centra Transmission Holdings, Inc. pursuant to s. 60(1)(a) of the Act with respect to the tolls and tariffs of the pipeline.

### **CENTRA TRANSMISSION HOLDINGS, INC.**

#### **SECTION 60 NEB ACT APPLICATION**

Centra Transmission Holdings, Inc. ("CTHI") hereby files, pursuant to Section 60(1)(a) of the National Energy Board Act (the "Act"), the attached updated transportation toll which is to be effective November 1, 2015.

CTHI submits:

1. CTHI is a company within the meaning of the Act.
2. CTHI owns and operates pipeline facilities in the Provinces of Manitoba and Ontario.
3. CTHI is defined as a Group 2 company by the Memorandum of Guidance issued by the National Energy Board (the "Board") on December 6, 1995, and is not normally required to provide the detailed toll and financial information specified in Parts X and XI of the Board's Filing Requirements dated February 22, 1995.
4. CTHI last made substantial changes to its Transportation Toll effective January 1, 2012 pursuant to Board Order TG-007-2013.
5. Effective November 1, 2015, CTHI proposes to change the tolls charged for transportation service on in its pipeline system to reflect reduction in contract demand.

Therefore, CTHI files, pursuant to Section 60(1)(a) of the Act, amendments to the Centra Transmission Holdings, Inc. Transportation Tariff.

Concurrent with this filing, CTHI has provided each of its shippers with a copy of this submission including the updated Transportation Tariff effective November 1, 2015.

DATED at the City of London, in the Province of Ontario, this 15<sup>th</sup> day of September, 2015.

Respectfully submitted,

Original Executed by Joe Brophy

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All communications relative to this Application should be directed to:

Joe Brophy  
Vice President & General Manager  
Centra Transmission Holdings, Inc.  
2324 Main Street  
London, Ontario

**Centra Transmission Holdings Inc.**  
**Transportation Tolls**  
**November 1, 2015**  
**Proposed**

| Particulars | Demand Toll<br>November 1,<br>2015<br>(\$/10 <sup>3</sup> m <sup>3</sup> /Mo.) |
|-------------|--------------------------------------------------------------------------------|
| Domestic    | 449.104                                                                        |
| Export      | 451.489                                                                        |

**Centra Transmission Holdings Inc.**  
**Index to the**  
**Schedule of Proposed Transportation Tolls**  
*November 1, 2015*

| Schedule | Description                                  |
|----------|----------------------------------------------|
| 1.0      | Cost of Service                              |
| 4.1      | Determination of Allocation Units            |
| 4.2      | Determination of Demand Rates                |
| 4.5      | Comparison of Existing and Proposed Revenues |

**Centra Transmission Holdings Inc.**  
**2015 Proposed Tolls: November 1st, 2015**

Cost of Service

Filed September 18, 2015

**Approved**  
**TG-007-2013**  
2012  
Year

|   |                             |                            |
|---|-----------------------------|----------------------------|
| 1 | Operating Expenses          | \$ 2,119,365               |
| 2 | Depreciation Expense        | 484,761                    |
| 3 | Taxes other than Income Tax | 715,208                    |
| 4 | Income Taxes                | 267,629                    |
| 5 | Return on Rate Base         | <u>624,579</u>             |
| 6 | Total Cost of Service       | <u><u>\$ 4,211,542</u></u> |

**Centra Transmission Holdings Inc.**  
**2015 Proposed Tolls: November 1st, 2015**

Schedule 4.1

Determination of Allocation Units

Filed September 18, 2015

|    |                                      | Contract<br>Demand<br>(10 <sup>3</sup> m <sup>3</sup> ) | Mile<br>Post | Demand<br>Miles |
|----|--------------------------------------|---------------------------------------------------------|--------------|-----------------|
| 1  | Domestic Gas                         |                                                         |              |                 |
| 2  | Manitoba Transport                   | 152.10                                                  | 60.09        | 9,140           |
| 3  | Ontario Transport                    |                                                         |              |                 |
| 4  | Rainy River                          | 0.96                                                    | 1.52         | 1               |
| 5  | Barwick                              | 0.13                                                    | 29.46        | 4               |
| 6  | Emo                                  | 0.76                                                    | 36.78        | 28              |
| 7  | Fort Frances                         | 147.75                                                  | 56.28        | 8,315           |
| 8  | Total Domestic Transportation        | 301.70                                                  |              | 17,488          |
| 9  | Export Gas                           |                                                         |              |                 |
| 10 | Manitoba Transport                   | 626.05                                                  | 60.09        | 37,619          |
| 11 | Ontario Transport                    | 597.72                                                  | 58.13        | 34,745          |
| 12 | Total Export Transportation          | 1,223.76                                                |              | 72,365          |
| 13 | Total Allocation Units               | 1,525.46                                                |              | 89,853          |
| 14 | Total Allocation Fixed Costs         | \$ 4,211,542                                            |              |                 |
| 15 | Cost per Allocation (\$/Demand Mile) | \$ 46.87                                                |              |                 |

**Centra Transmission Holdings Inc.**  
**2015 Proposed Tolls: November 1st, 2015**

Schedule 4.2

Determination of Demand Rates:

Filed September 18, 2015

|                              | Allocation<br>Units<br>(Demand<br>Miles) | Cost per<br>Allocation<br>Units<br>(Demand<br>Miles) | <b>APPROVED<br/>TG-007-2013</b><br>Allocated<br>Costs<br>(\$) | Annual<br>Billing<br>Units*<br>(10 <sup>3</sup> m <sup>3</sup> ) | Rate<br>(\$/10 <sup>3</sup> m <sup>3</sup> ) |
|------------------------------|------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------|
| 1 Domestic Transportation    |                                          |                                                      |                                                               |                                                                  |                                              |
| 2 Union, Centra Gas Manitoba | 17,488                                   | \$ 46.87                                             | \$ 819,701                                                    | 1,825                                                            | \$ 449.104                                   |
| 3 Export Transportation      |                                          |                                                      |                                                               |                                                                  |                                              |
| 4 MERC, Boise White Paper    | 72,365                                   | \$ 46.87                                             | \$ 3,391,841                                                  | 7,513                                                            | \$ 451.489                                   |
|                              |                                          |                                                      | <b>\$ 4,211,542</b>                                           | <b>9,338</b>                                                     |                                              |

\* Annual Billing Units based on Shipper maximum daily quantity of 778.15 10<sup>3</sup>m<sup>3</sup> per day

**Centra Transmission Holdings Inc.**  
**2015 Proposed Tolls: November 1st, 2015**

Schedule 4.5

Comparison of approved and existing tolls

Filed September 18, 2015

|                    | <b>Proposed Tolls</b>                       |         |                           | <b>Existing Tolls</b>                       |         |                           | <b>Variance</b>     |     |
|--------------------|---------------------------------------------|---------|---------------------------|---------------------------------------------|---------|---------------------------|---------------------|-----|
|                    | Volume<br>(10 <sup>3</sup> m <sup>3</sup> ) | Rate    | Amount                    | Volume<br>(10 <sup>3</sup> m <sup>3</sup> ) | Rate    | Amount                    | Dollars             | %   |
| Domestic<br>Demand | 1,825                                       | 449.104 | \$819,701                 | 1,795                                       | 446.771 | \$802,040                 | \$17,661            | 2%  |
| Export<br>Demand   | 7,513                                       | 451.489 | \$3,391,841               | 7,649                                       | 445.769 | \$3,409,502               | (\$17,661)          | -1% |
| Total<br>Demand    | 9,338                                       |         | \$4,211,542               | 9,444                                       |         | \$4,211,542               | (\$0)               | 0%  |
| Total              |                                             |         | <u><u>\$4,211,542</u></u> |                                             |         | <u><u>\$4,211,542</u></u> | <u><u>(\$0)</u></u> | 0%  |

UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Rate Order, Appendix H

- a) Please confirm that the language included in the rate schedules regarding the Union North East Zone Transportation Service (for example, Rate 01 rate schedule – paragraph 2 of part b) was previously approved by the OEB.

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**Response:**

- a) Confirmed. The Board approved the rate schedule changes for the new transportation service option for the Union North East Zone as part of the Dawn Reference Price and North T-Service (EB-2015-0181) Decision and Order dated March 17, 2016. The rate schedules, including the approved Union North transportation service option changes, were provided at EB-2015-0181, Decision and Order, Schedule B.

UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Exhibit A, Tab 1, p. 10

Preamble: Union noted that, consistent with 2016 rates, it adjusted Rate M1 and Rate 01 distribution customer-related costs on a revenue neutral basis by adjusting the 2017 customer-related cost variance over all of the delivery volumes within each of the M1 and 01 rate classes.

a) Please provide rationale for continuing to use this approach for 2017 rates.

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**Response:**

a) In Union's 2016 Rates (EB-2015-0116) Settlement Proposal (the "Settlement"), parties agreed it was appropriate to revise the approach used to adjust small volume general service Rate M1 and Rate 01 distribution customer-related costs during the 2014-2018 Incentive Regulation term on a revenue neutral basis by adjusting the customer-related cost variance over all of the delivery volumes within each of the Rate M1 and Rate 01 rate classes. Parties agreed that this revised approach was appropriate as it maintained the declining block structure.

Consistent with the Settlement, Union adjusted the 2017 customer-related cost variance over all delivery volumes within each of the Rate M1 and Rate 01 rate classes as the adjustment was necessary to maintain the declining block structure of these rates in 2017.

UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Exhibit A, Tab 1, pp. 10-11, Exhibit A, Tab 2, Working Papers, Schedule 20

Preamble: Union stated that the Parkway Delivery Commitment Incentive (PDCI) credit will be paid monthly to sales service customers by way of the SPGVA rather than including the PDCI credit in the gas supply transportation rate as was established in the Settlement Agreement.

- a) Please confirm that there have been no changes to the methodology for setting the PDCI credit and allocating the PDCI costs to rate classes established in the Parkway Delivery Obligation (PDO) Settlement Agreement.
  - b) Please confirm that the only change to the methodology is the manner in which the PDCI credit will be paid to sales service customers.
    - i. Please confirm that this change is only being made as a result of the elimination of the South transportation rate (arising from the Dawn Reference Price proceeding).
    - ii. Please advise whether this change has any impact on the actual PDCI costs or the allocation of the PDCI costs.
  - c) Please explain all of the volumes used in the PDO Demand Cost Calculation at Working Papers / Schedule 20 / p. 2.
  - d) Please provide the schedule referenced in Note 1 at Working Papers / Schedule 20 / p. 2.
  - e) Please explain the volume used in the Sales Service PDCI Cost Calculation at Working Papers / Schedule 20 / p. 5.
  - f) Please provide the schedule referenced in Note 4 at Working Papers / Schedule 20 / p. 5.
  - g) Please explain the volume used in the Direct Purchase PDCI Cost Calculation at Working Papers / Schedule 20 / p. 6.
  - h) Please explain why the total Dawn-Parkway Demand Costs (19 TJ) set out at Column C / Line 15 at Working Papers / Schedule 20 / p. 2 (\$758,000) is not the same as the Sales Service Demand Cost (19 TJ) set out Column B / Line 15 at Working Papers / Schedule 20 / p. 5 (\$777,000).
-

**Response:**

a) Confirmed.

b) i. Confirmed.

ii. The use of the SPGVA to credit the PDCI to sales service customers has no impact on the actual PDCI costs or the allocation of PDCI costs.

c) The 212 TJ/d PDO reduction referenced in Rate Order, Working Paper, Schedule 20, p. 2, column (e) represents the PDO reduction that was effective April 1, 2014. There have been no further reductions in the PDO since April 1, 2014. The 212 TJ/d PDO reduction was facilitated through 146 TJ/d of temporarily available excess Dawn to Parkway capacity (column (b)) and 66 TJ/d of M12 capacity that was turned back by in-franchise customers (columns (c) + (d)). The 48 TJ/d referenced in column (d) and column (f) relates to the M12 capacity that was turned back by TCE Halton Hills. The turn back of 48 TJ/d of M12 by TCE Halton Hills resulted in an increase to its Rate T2 billing contract demand which resulted in a revenue credit to other Union South in-franchise rate classes responsible for the cost of the PDO reduction.

d) Please see Attachment 1 for EB-2011-0210, Exhibit G3, Tab 5, Schedule 23, p.7, updated for the Board Decision.

e) The PDCI credit provided to sales service customers of 19 TJ/d represents the TransCanada transportation capacity held within Union's gas supply portfolio to serve the Union CDA. The 19 TJ/d is included in Union's forecast of PDO quantities provided at Exhibit A, Tab 2, Attachment 1, column (j), line 24.

f) Please see Attachment 2 for EB-2011-0210, Exhibit G3, Tab 5, Schedule 21, pp. 13 and 14, filed on April 30, 2014.

g) The PDCI credit provided to direct purchase customers of 285 TJ/d represents the remaining obligated DCQ deliveries at Parkway. The 285 TJ/d is calculated as the 376 TJ/d of remaining PDO less the 84 TJ/d of remaining PDO for TCE Halton Hills, per the PDO forecast provided at Exhibit A, Tab 2, Attachment 1, column (j), lines 9 and 22, respectively, less a reduction of 7 TJ/d to reflect an annualized PDO due to seasonal DCQ differences.

h) The difference in Dawn-Parkway demand costs is due to rounding of the PDO volumes. The PDO reduction of 19 TJ/d per Rate Order, Working Papers, Schedule 20, p. 2 is rounded from 18.572 TJ/d and the sales service remaining PDO is based on 19.000 TJ/d per Rate Order, Working Papers, Schedule 20, p. 5.

UNION GAS LIMITED  
Blended Allocator Detail Report - Dawn-Trafalgar Transmission  
Year Ending December 31, 2013

| Line                                   |                                                                                |         | Gen. Service | Gen. Service | Firm     | Interruptible | Interruptible | Special      | Special       | Large     | Small     | Storage &      | Storage &      | Wholesale      |
|----------------------------------------|--------------------------------------------------------------------------------|---------|--------------|--------------|----------|---------------|---------------|--------------|---------------|-----------|-----------|----------------|----------------|----------------|
| No.                                    | Particulars                                                                    | Total   | Small Volume | Large Volume | Contract | Contract-     | Contract-     | Large Volume | Large Volume  | Wholesale | Wholesale | Transportation | Transportation | Storage &      |
|                                        |                                                                                |         | M1           | M2           | M4       | M5            | M5            | Contract -   | Contract -    | Service   | Service   | Service -      | Service -      | Transportation |
|                                        |                                                                                |         |              |              |          |               |               | Firm         | Interruptible |           |           | Firm           | Interruptible  | Service        |
|                                        |                                                                                |         |              |              |          |               |               | M7           | M7            | M9        | M10       | T1             | T1             | T3             |
| <u>Dawn-Trafalgar Demand Allocator</u> |                                                                                |         |              |              |          |               |               |              |               |           |           |                |                |                |
| 1                                      | Dawn-Trafalgar Demand (10 <sup>6</sup> m <sup>3</sup> /day)                    | 31,737  | -----        |              |          |               |               | 3,588        | -----         |           |           |                |                |                |
| 2                                      | Infranchise Peak Day Demand (10 <sup>3</sup> m <sup>3</sup> /day)              | 43,624  | 22,132       | 7,435        | 2,162    | 20            |               | 997          |               | 356       | 11        | 7,999          |                | 2,511          |
| 3                                      | North allocated on XSPK&AVG                                                    | 8,685   |              |              |          |               |               |              |               |           |           |                |                |                |
|                                        | Infranchise Dawn -Trafalgar Demand                                             |         |              |              |          |               |               |              |               |           |           |                |                |                |
| 4                                      | Allocated on Infranchise Peak Day Demand (10 <sup>6</sup> m <sup>3</sup> /day) | 5,180   | 1,820        | 612          | 178      | 2             | 0             | 82           | 0             | 29        | 1         | 658            | 0              | 207            |
| 5                                      | <b>DTTRANS</b> (10 <sup>6</sup> m <sup>3</sup> /day)                           | 31,737  | 1,820        | 612          | 178      | 2             | 0             | 82           | 0             | 29        | 1         | 658            | 0              | 207            |
| <u>Dawn Compression Allocator</u>      |                                                                                |         |              |              |          |               |               |              |               |           |           |                |                |                |
| 5                                      | Dawn Compression (10 <sup>3</sup> m <sup>3</sup> /day)                         | 150,183 | -----        |              |          |               |               | 26,186       | -----         |           |           |                |                |                |
| 6                                      | OSE load not requiring Dawn Compression                                        | -1100   | -----        |              |          |               |               | -192         | -----         |           |           |                |                |                |
| 7                                      | Dawn Compression excl. OSE (10 <sup>3</sup> m <sup>3</sup> /day)               | 149,083 | -----        |              |          |               |               | 25,994       | -----         |           |           |                |                |                |
| 8                                      | Infranchise Peak Day Demand (10 <sup>3</sup> m <sup>3</sup> /day)              | 43,624  | 22,132       | 7,435        | 2,162    | 20            | 0             | 997          | 0             | 356       | 11        | 7,999          | 0              | 2,511          |
| 9                                      | North allocated on XSPK&AVG                                                    |         |              |              |          |               |               |              |               |           |           |                |                |                |
| 10                                     | Infranchise Dawn Compression Allocation (10 <sup>3</sup> m <sup>3</sup> /day)  | 32,899  | 13,188       | 4,431        | 1,288    | 12            | 0             | 594          | 0             | 212       | 7         | 4,766          | 0              | 1,496          |
| 11                                     | <b>DAWNCOMP</b> (10 <sup>3</sup> m <sup>3</sup> /day)                          | 149,083 | 13,188       | 4,431        | 1,288    | 12            | 0             | 594          | 0             | 212       | 7         | 4,766          | 0              | 1,496          |

UNION GAS LIMITED  
Fully Allocated Cost of Service Study for 2013  
Allocation Factors  
(\$000's)

| Allocation Factor | Total      | Gen. Service Small Volume M1 | Gen. Service Large Volume M2 | Firm Contract M4 | Interruptible Contract - Firm M5 | Interruptible Contract - Interruptible M5 | Special Large Volume Contract Firm M7 | Contract - Interruptible M7 | Large Wholesale Service M9 | Small Wholesale Service M10 |
|-------------------|------------|------------------------------|------------------------------|------------------|----------------------------------|-------------------------------------------|---------------------------------------|-----------------------------|----------------------------|-----------------------------|
| S_W_INFRUELVOL    | 5,124,561  | 1,115,690<br>21.77%          | 330,312<br>6.45%             | 106,003<br>2.07% | 9,884<br>0.19%                   | 312,501<br>6.10%                          | 24,164<br>0.47%                       | 4,655<br>0.09%              | 0<br>0.00%                 | 0<br>0.00%                  |
| S_E_INFRUELVOL    | 5,135,803  | 1,823,853<br>35.51%          | 645,259<br>12.56%            | 294,126<br>5.73% | 7,501<br>0.15%                   | 203,891<br>3.97%                          | 118,324<br>2.30%                      | 0<br>0.00%                  | 60,750<br>1.18%            | 189<br>0.00%                |
| S_INFUELVOL       | 10,260,364 | 2,939,543<br>28.65%          | 975,571<br>9.51%             | 400,129<br>3.90% | 17,385<br>0.17%                  | 516,392<br>5.03%                          | 142,488<br>1.39%                      | 4,655<br>0.05%              | 60,750<br>0.59%            | 189<br>0.00%                |
| M16C1FUEL         |            | 0<br>0.00%                   | 0<br>0.00%                   | 0<br>0.00%       | 0<br>0.00%                       | 0<br>0.00%                                | 0<br>0.00%                            | 0<br>0.00%                  | 0<br>0.00%                 | 0<br>0.00%                  |
| SERVREPCOSTS      | 1,443,503  | 1,350,119<br>93.53%          | 31,837<br>2.21%              | 3,921<br>0.27%   | 35<br>0.00%                      | 4,254<br>0.29%                            | 4,846<br>0.34%                        | 613<br>0.04%                | 0<br>0.00%                 | 1<br>0.00%                  |
| STATIONREPCOSTS   | 818,832    | 724,202<br>88.44%            | 40,012<br>4.89%              | 8,319<br>1.02%   | 125<br>0.02%                     | 9,137<br>1.12%                            | 3,561<br>0.43%                        | 547<br>0.07%                | 633<br>0.08%               | 94<br>0.01%                 |
| S_AVEGUST         | 1,066,014  | 1,058,900<br>99.33%          | 6,788<br>0.64%               | 115<br>0.01%     | 31<br>0.00%                      | 112<br>0.01%                              | 2<br>0.00%                            | 2<br>0.00%                  | 3<br>0.00%                 | 2<br>0.00%                  |
| BDEBTDIST         | 2,791      | 1,542<br>55.23%              | 246<br>8.80%                 | 57<br>2.03%      | 15<br>0.55%                      | 55<br>1.98%                               | 1<br>0.04%                            | 1<br>0.04%                  | 1<br>0.05%                 | 1<br>0.03%                  |
| BDEBTOTHSUP       | 1,555      | 680<br>43.77%                | 608<br>39.14%                | 0<br>0.00%       | 0<br>0.00%                       | 0<br>0.00%                                | 0<br>0.00%                            | 0<br>0.00%                  | 0<br>0.00%                 | 0<br>0.00%                  |
| S_SERVICECALLTIME | 3,122,732  | 3,053,040<br>97.77%          | 69,691<br>2.23%              | 0<br>0.00%       | 0<br>0.00%                       | 0<br>0.00%                                | 0<br>0.00%                            | 0<br>0.00%                  | 0<br>0.00%                 | 0<br>0.00%                  |
| S_METERCALLTIME   | 5,784,603  | 5,666,690<br>97.96%          | 117,913<br>2.04%             | 0<br>0.00%       | 0<br>0.00%                       | 0<br>0.00%                                | 0<br>0.00%                            | 0<br>0.00%                  | 0<br>0.00%                 | 0<br>0.00%                  |
| N_SERVICECALLTIME | 969,074    | 0<br>0.00%                   | 0<br>0.00%                   | 0<br>0.00%       | 0<br>0.00%                       | 0<br>0.00%                                | 0<br>0.00%                            | 0<br>0.00%                  | 0<br>0.00%                 | 0<br>0.00%                  |
| N_METERCALLTIME   | 1,789,415  | 0<br>0.00%                   | 0<br>0.00%                   | 0<br>0.00%       | 0<br>0.00%                       | 0<br>0.00%                                | 0<br>0.00%                            | 0<br>0.00%                  | 0<br>0.00%                 | 0<br>0.00%                  |
| LRGINDRILLS       | 360        | 0.33%                        | 52<br>14.35%                 | 60<br>16.67%     | 2<br>0.54%                       | 58<br>16.02%                              | 3<br>0.75%                            | 0<br>0.02%                  | 1<br>0.33%                 | 1<br>0.22%                  |
| DCUSTSALEOTHER    | 354        | 73<br>20.50%                 | 50<br>14.05%                 | 42<br>11.74%     | 10<br>2.81%                      | 36<br>10.22%                              | 1<br>0.18%                            | 2<br>0.50%                  | 0<br>0.00%                 | 1<br>0.41%                  |
| GSBENEFITSDP      | 1,067      | 237<br>22.21%                | 4<br>0.33%                   | 143<br>13.44%    | 41<br>3.87%                      | 149<br>14.01%                             | 3<br>0.26%                            | 3<br>0.26%                  | 4<br>0.39%                 | 1<br>0.10%                  |
| GSADMINDIRECT     | 208        | 18<br>8.44%                  | 0<br>0.13%                   | 29<br>13.88%     | 8<br>4.00%                       | 30<br>14.47%                              | 1<br>0.27%                            | 1<br>0.27%                  | 1<br>0.40%                 | 0<br>0.10%                  |
| GSGO&EDIRECT      | 1,283      | 260<br>20.23%                | 4<br>0.32%                   | 127<br>9.92%     | 37<br>2.86%                      | 133<br>10.34%                             | 2<br>0.19%                            | 2<br>0.19%                  | 4<br>0.29%                 | 1<br>0.07%                  |

UNION GAS LIMITED  
Fully Allocated Cost of Service Study for 2013  
Allocation Factors  
(\$000's)

| Allocation Factor | Total      | Transportation Service - Firm T1 | Transportation Service - Interruptible T1 | Transportation Service - Firm T2 | Transportation Service - Interruptible T2 | Wholesale Storage Transportation Service T3 | Excess Utility Storage Space | Firm Transportation Service C1 | Interruptible Trans. Service & Exchanges C1 | Dawn-Trafalgar Service M12 | Local Production M13 | Storage Transportation Service M16 |
|-------------------|------------|----------------------------------|-------------------------------------------|----------------------------------|-------------------------------------------|---------------------------------------------|------------------------------|--------------------------------|---------------------------------------------|----------------------------|----------------------|------------------------------------|
| S_W_INFRUELVOL    | 5,124,561  | 205,494<br>4.01%                 | 34,734<br>0.68%                           | 2,878,457<br>56.17%              | 102,566<br>2.00%                          | 0                                           | 0                            | 0                              | 0                                           | 0                          | 0                    | 0                                  |
| S_E_INFRUELVOL    | 5,135,803  | 267,950<br>5.22%                 | 28,552<br>0.56%                           | 1,380,265<br>26.88%              | 32,431<br>0.63%                           | 272,712<br>5.31%                            | 0                            | 0                              | 0                                           | 0                          | 0                    | 0                                  |
| S_INFUELVOL       | 10,260,364 | 473,443<br>4.61%                 | 63,286<br>0.62%                           | 4,258,722<br>41.51%              | 135,097<br>1.32%                          | 272,712<br>2.66%                            | 0                            | 0                              | 0                                           | 0                          | 0                    | 0                                  |
| M16C1FUEL         | 355        | 0                                | 0                                         | 0                                | 0                                         | 0                                           | 0                            | 27.63%                         | 201                                         | 0                          | 0                    | 56                                 |
| SERVREPCOSTS      | 1,443,503  | 2,593<br>0.18%                   | 411<br>0.03%                              | 36,720<br>2.54%                  | 8,153<br>0.56%                            | 0                                           | 0                            | 0                              | 0                                           | 0                          | 0                    | 0                                  |
| STATIONREPCOSTS   | 818,832    | 3,854<br>0.47%                   | 1,669<br>0.20%                            | 20,141<br>2.46%                  | 4,071<br>0.50%                            | 2,467<br>0.30%                              | 0                            | 0                              | 0                                           | 0                          | 0                    | 0                                  |
| S_AVEGUST         | 1,066,014  | 32<br>0.00%                      | 7<br>0.00%                                | 5<br>0.00%                       | 15<br>0.00%                               | 1                                           | 0                            | 0                              | 0                                           | 0                          | 0                    | 0                                  |
| BDEBTDIST         | 2,791      | 16<br>0.57%                      | 3<br>0.12%                                | 2<br>0.09%                       | 7<br>0.27%                                | 0                                           | 0                            | 0                              | 0                                           | 0                          | 0                    | 0                                  |
| BDEBTOHSUP        | 1,555      | 0<br>0.00%                       | 0<br>0.00%                                | 0<br>0.00%                       | 0<br>0.00%                                | 0                                           | 0                            | 0                              | 0                                           | 0                          | 0                    | 0                                  |
| S_SERVICECALLTIME | 3,122,732  | 0<br>0.00%                       | 0<br>0.00%                                | 0<br>0.00%                       | 0<br>0.00%                                | 0                                           | 0                            | 0                              | 0                                           | 0                          | 0                    | 0                                  |
| S_METERCALLTIME   | 5,784,603  | 0<br>0.00%                       | 0<br>0.00%                                | 0<br>0.00%                       | 0<br>0.00%                                | 0                                           | 0                            | 0                              | 0                                           | 0                          | 0                    | 0                                  |
| N_SERVICECALLTIME | 969,074    | 0<br>0.00%                       | 0<br>0.00%                                | 0<br>0.00%                       | 0<br>0.00%                                | 0                                           | 0                            | 0                              | 0                                           | 0                          | 0                    | 0                                  |
| N_METERCALLTIME   | 1,789,415  | 0<br>0.00%                       | 0<br>0.00%                                | 0<br>0.00%                       | 0<br>0.00%                                | 0                                           | 0                            | 0                              | 0                                           | 0                          | 0                    | 0                                  |
| LRGINDRILLS       | 360        | 5<br>1.37%                       | 1<br>0.18%                                | 44<br>12.30%                     | 1<br>0.39%                                | 1                                           | 0                            | 0                              | 0                                           | 0                          | 0                    | 0                                  |
| DCUSTSALEOTHER    | 354        | 18<br>5.16%                      | 8<br>2.24%                                | 4<br>1.10%                       | 21<br>5.85%                               | 0                                           | 0                            | 0                              | 0                                           | 0                          | 0                    | 0                                  |
| GSBENEFITSDP      | 1,067      | 44<br>4.15%                      | 10<br>0.91%                               | 7<br>0.65%                       | 21<br>1.95%                               | 1                                           | 0                            | 0                              | 0                                           | 0                          | 0                    | 0                                  |
| GSADMINIDIRECT    | 208        | 9<br>4.29%                       | 2<br>0.94%                                | 1<br>0.67%                       | 4<br>2.01%                                | 0                                           | 0                            | 0                              | 0                                           | 0                          | 0                    | 0                                  |
| GSGO&EDIRECT      | 1,283      | 39<br>3.06%                      | 9<br>0.67%                                | 6<br>0.48%                       | 18<br>1.44%                               | 1                                           | 0                            | 0                              | 0                                           | 0                          | 0                    | 0                                  |

UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Rate Order, Appendix F, February 9, 2016 OEB Letter – Revisions to the Ontario Energy Board Cost Assessment Model

Preamble: The description for the Greenhouse Gas Emissions Impact Deferral Account states the following:

“To record, as a debit (credit) in Deferral Account No. 179-152, the impacts of provincial and federal regulations related to greenhouse gas emission requirements.”

- a) Does Union agree that the description for the Greenhouse Gas Emissions Impact Deferral Account should be updated to better reflect its purpose (i.e. to record the administrative costs associated with Cap-and-Trade)? If so, please propose revised language. If not, please explain.
- b) Please provide the amount associated with Union’s Cap-and-Trade related administrative costs that have been recorded in the Greenhouse Gas Emissions Impact Deferral Account to date.
- c) Please confirm that the following accounts have previously been approved by the OEB. Please provide a reference to that approval.
  - Transportation Tolls and Fuel – Union North West Operations Area (Account No. 179-145)
  - Transportation Tolls and Fuel – Union North East Operations Area (Account No. 179-146)
  - Union North West Purchase Gas Variance Account (Account No. 179-147)
  - Union North East Purchase Gas Variance Account (Account No. 179-148)
  - Base Service North T-Service TransCanada Capacity Deferral Account (Account No. 179-153)
- d) Please advise whether the existing Transportation Tolls and Fuel – Northern and Eastern Operations Area account (Account No. 179-100) and the existing North Purchase Gas Variance Account (Account No. 179-105) are still required. Please explain.
- e) Please advise whether the description for the OEB Cost Assessment Variance Account (Account No. 179-151) was previously approved by the OEB.
- f) The February 9, 2016 letter of the OEB in relation to electricity distributors states that it has established a Cost Assessment Variance Account to record any material differences between

OEB cost assessments currently built into rates, and cost assessments that will result from the application of the new cost assessment model effective April 1, 2016. Please advise whether Union proposes a materiality threshold applicable to the OEB Cost Assessment Variance Account (Account No. 179-151).

---

**Response:**

- a) Union will update the wording of the Greenhouse Gas Emissions Impact Deferral Account in its 2017 Cap-and-Trade Compliance Plan proceeding (EB-2016-0296).
- b) The amount recorded in the Greenhouse Gas Emissions Impact Deferral Account as at October 31, 2016 is \$1.3 million.
- c) Confirmed.

The following accounts were approved in EB-2015-0181, Decision and Order/Procedural Order 2 dated January 7, 2016, p. 8:

- Transportation Tolls and Fuel – Union North West Operations Area (Account No. 179-145)
- Transportation Tolls and Fuel – Union North East Operations Area (Account No. 179-146)
- Union North West Purchase Gas Variance Account (Account No. 179-147)
- Union North East Purchase Gas Variance Account (Account No. 179-148)

The following account was approved in EB-2015-0181, Decision and Order dated March 17, 2016, p. 8:

- Base Service North T-Service TransCanada Capacity Deferral Account (Account No. 179-153)
- d) The existing Transportation Tolls and Fuel – Northern and Eastern Operations Area (Account No. 179-100) and the existing North Purchase Gas Variance Account (Account No. 179-105) are still required to capture variances in gas costs until the end of December 2016. The variances that cumulate to the end of 2016 and the associated prospective rate adjustments will be filed as part of the April 2017 QRAM. The accounts will remain open until the balances in the accounts are disposed of through prospective rate adjustments for the period April 1, 2017 to March 31, 2018.

As of January 1, 2017, any gas cost variances for Union North East and Union North West will be captured in the new gas cost deferral accounts reference in part c) above.

- e) In its Letter of Notice dated February 9, 2016, the Board communicated changes to the Cost Assessment Model that would result in material shifts in the allocation of costs to align with the Board's mandate. As a result, the Board directed Union to establish an OEB Cost Assessment Variance Account to record any material differences between the Board's cost assessment currently built into rates, and the cost assessments that will result from the application of the new cost assessment model effective April 1, 2016. Union filed its final OEB Cost Assessment Variance Account (Account No. 179-151) Accounting Order with the Board on March 8, 2016. The Board did not respond with any concerns regarding Union's description in its final Accounting Order.
- f) Union is not proposing a materiality threshold. In Union's view the variances are material.

UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Exhibit A, Tab 1, p. 8, Working Papers, Schedule 12

Preamble: Union set out its calculation of the 2017 Normalized Average Consumption (NAC) target percentage change in Working Papers / Schedule 12. The 2017 NAC target change is: -5.7% for Rate 01; -7.3% for Rate 10; -4.0% for rate M1; and -3.7% for Rate M2.

Please discuss the main drivers of the large change in NAC. Please provide specific details for each rate class.

---

**Response:**

The four primary factors driving the NAC variance include:

- Estimated pre-audit DSM savings;
- Leap year adjustment;
- Change in weather normal; and,
- Change in customer behavior.

Per Exhibit A, Tab 1, p. 8, for 2017, the NAC adjustment is the variance between 2014 Actual NAC and 2015 Actual NAC. Please see Rate Order, Working Papers, Schedule 12 for the calculation of 2017 NAC target percentage change by general service rate class.

Please see Table 1 below for the breakdown of Rate Order, Working Papers, Schedule 12 by drivers and general service rate class.

Please see Tables 2 and 3 below for the actual weather data for 2014 and 2015 and weather normal data for 2016 and 2017.

The year-over-year consumption change (NAC variance) is impacted by the continued presence of energy efficiency related forces (i.e. improved building code in new home and building construction, furnace replacement, etc.) and the impact of DSM programs and energy savings initiatives conducted by the customers, and the customer behavior and comfort desires in response to extreme change in weather conditions. For Union South, the 2015 actual weather was 9.2% warmer than the 2014 actual weather and 8.4% warmer in Union North (please see Table 2 for the percent details).

Table 1  
Total 2015 to 2014 NAC Variance Breakdown

| Particulars (m <sup>3</sup> ) | <b>NAC<br/>Variance<sup>1</sup></b> | Estimated Pre-audit Average<br>DSM Volume<br>Saving per<br>Customer | Adjustment<br>for Leap<br>Year | Variance due<br>to Weather<br>Normal | Variance due<br>to Customer<br>Behavior |
|-------------------------------|-------------------------------------|---------------------------------------------------------------------|--------------------------------|--------------------------------------|-----------------------------------------|
|                               | <b>(a)*</b>                         | (b)                                                                 | (c)                            | (d)                                  | (e) = (a-b-c-d)                         |
| Rate 01                       | <b>-171</b>                         | -5                                                                  | -16                            | -4                                   | -145                                    |
| Rate 10                       | <b>-12,885</b>                      | -632                                                                | -849                           | -281                                 | -11,123                                 |
| Rate M1                       | <b>-114</b>                         | -8                                                                  | -16                            | 2                                    | -91                                     |
| Rate M2                       | <b>-6,396</b>                       | -1,682                                                              | -812                           | 103                                  | -4,006                                  |

\*Differences due to rounding.

Table 2  
Actual Weather – Heating Degree Days

|                     | Actual 2014  | Actual 2015  | % Change     |
|---------------------|--------------|--------------|--------------|
| Union South         | 4,221        | 3,834        | -9.2%        |
| Union North         | 5,361        | 4,912        | -8.4%        |
| <b>Union Merged</b> | <b>4,506</b> | <b>4,104</b> | <b>-8.9%</b> |

Table 3  
Weather Normal – Heating Degree Days

|                     | Normal 2016  | Normal 2017  |
|---------------------|--------------|--------------|
| Union South         | 3,780        | 3,782        |
| Union North         | 4,930        | 4,918        |
| <b>Union Merged</b> | <b>4,068</b> | <b>4,066</b> |

<sup>1</sup> Rate Order, Working Papers, Schedule 12, column (c).

UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Working Papers, Schedule 2

- a) Please provide the amounts excluded, for the purposes of the 2017 Price Cap Adjustment, from the 2016 Current Approved Revenue (at Line 1 of Workings Papers / Schedule 2) for the Gas Supply Admin Charge Revenue, Rate C1 Market Based Storage Services, Short-Term Transportation, Exchanges and Other Transactional Revenues. Please explain the excluded amounts.
- 

**Response:**

- a) For the purposes of calculating the 2017 price cap index, Union excluded \$6.749 million of gas supply administration charge revenue and \$37.483 million of Rate C1 revenue associated with Short-Term Storage, Short-Term Transportation, Exchanges and other transactional services.

Union excludes the gas supply administration charge revenue as this charge is included in the gas supply commodity rate, which is primarily composed of gas costs, and has not been subject to escalation.

Union excludes the Rate C1 revenue associated with Short-Term Storage, Short-Term Transportation, Exchanges and other transactional services as the rates are negotiated and not set through Union's rate setting process.

The exclusions are consistent with Union's 2014-2018 Incentive Regulation (EB-2013-0202) Settlement Agreement, Exhibit A, Tab 2, Appendix I, Working Papers, Schedule 2. Union also excluded these amounts in the calculation of the price cap index for each of 2014, 2015 and 2016.

UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Exhibit A, Tab 3, p. 10

Preamble: Union noted that its transportation contract with the NEXUS pipeline is effective November 1, 2017.

Please provide the latest information regarding the status of the NEXUS pipeline and the expected in-service date.

---

**Response:**

Union has received the following updates related to the NEXUS pipeline:

1. On May 17, 2016, Federal Energy Regulatory Commission ("FERC") issued its Notice of Schedule for Environmental Review of the NEXUS Gas Transmission and Texas Eastern Appalachian Lease Projects;
2. On July 8, 2016, FERC issued its Draft Environmental Impact Statement ("DEIS") for the NEXUS Gas Transmission Project and the Texas Eastern Appalachian Lease Project;
3. On October 21, 2016, NEXUS filed an answer to additional comments filed in its certificate application docket for the NEXUS Gas Transmission Project;
4. NEXUS continues to work with FERC staff on the process for release of the Environmental Impact Statement ("EIS") and the NEXUS Gas Transmission Project approval; and,
5. NEXUS is on target for November 2017 in-service.

UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Exhibit A, Tab 4, pp. 4, 6, 11

Preamble: Union noted that currently customers may request a reduction to their obligation DCQ to match consumption by nominating a suspension of their obligated DCQ. A DCQ suspension is considered interruptible.

Union proposed to the customer focus group an annual Storage Space entitlement of Firm CD x 9, which was considered acceptable by the focus group. Union noted that any excess storage space not contracted for by customers electing the proposed CMS becomes Excess Utility Storage Space and is treated accordingly.

Union also noted that the proposed CMS design meets the following design criteria:

- No impact to the amount of physical assets used by the Rate T2 rate class during the period of the current IRM.
  - Union remains financially neutral regardless of which customers elect the new service.
  - No financial impact to other rate classes during the period of the current IRM.
  - The PDO reductions are maintained as per the EB-2013-0365 Settlement Agreement.
- a) Please further explain a DCQ suspension (e.g. how is it initiated, does Union need to approve the suspension, length of time that a suspension can occur for, etc.).
- b) Please provide: (i) the number of DCQ suspension requests received in 2015 and 2016 (to date); (ii) the number of approved DCQ suspension requests in 2015 and 2016 (to date); and (iii) the number of DCQ suspensions that were granted and later interrupted by Union in 2015 and 2016 (to date).
- c) Please provide an estimate of the number of customers that will likely take the proposed CMS.
- d) Please discuss whether this new service will likely result in additional Excess Utility Storage Space and provide rationale.

- e) Please further explain how Union stays financially neutral and how there is no financial impact on other rate classes during the IRM term regardless of which customers elect the proposed CMS.
  - f) Please advise whether, at rebasing, the availability of the CMS for Rate T2 customers will likely impact the costs allocated to rate T2 and Union's other rate classes. Please explain.
- 

**Response:**

- a) Direct purchase customers with obligated deliveries of gas are required to deliver their obligated DCQ each day of the contract term. A suspension is a transaction whereby a customer delivers less than their obligated DCQ for a period of time.

Bundled T-service customers must seek authorization from Union in order to reduce their obligated deliveries. Union will authorize a suspension, via an Authorization Notice, provided the customer shows a need to shed gas in order to manage an excess position in their bundled T-service contract banked gas account balance. The transaction is requested in advance of the gas day and could be for durations ranging between one day and several months. Authorized suspensions are interruptible by Union through the daily nomination process based on operational conditions per Union's posted Priority of Service policy.

T-service (Rate T1/Rate T2/Rate T3) customers do not seek an Authorization Notice from Union for a suspension. Instead, these customers nominate suspensions as part of their daily nominations under this service. Customers could nominate suspensions several days in advance of a particular gas day. The suspension transaction is accepted if the nomination is scheduled by Union through the daily nomination process. The scheduling of the nomination is based on operational conditions per Union's posted Priority of Service policy.

The operational conditions that can impact the scheduling of a suspension are related to storage withdrawals at Dawn and/or transportation on the Dawn Parkway System. To the extent that nominated activity exceeds firm needs (e.g. cold weather during the winter), Union could curtail interruptible activity.

- b) At Exhibit A, Tab 4, p. 5, Union notes that it established a Customer Focus Group in 2014 based on requests from some Rate T2 customers to manage their supply to be consistent with their end-use consumption. Due to the operational circumstances during the cold winter of 2013/14, these customers were not allowed to suspend delivery of gas and were required to deliver their obligated supply. Unlike most other customers, these customers were consuming little or no gas on those days.

The following table summarizes the number of transactions requested, approved, and interrupted for T-service customers for the winters of 2013/14, 2014/15, and 2015/16. Please note that after a number of days where suspensions are not scheduled through the daily

nomination process, customers tend to reduce the number of suspension requests until Union's operational conditions change.

|                    | <u>Winter T-service Suspensions</u> |                |                |
|--------------------|-------------------------------------|----------------|----------------|
|                    | <u>2013/14</u>                      | <u>2014/15</u> | <u>2015/16</u> |
| Number Requested   | 1,337                               | 1,523          | 1,955          |
| Number Granted     | 1,283                               | 1,504          | 1,955          |
| Number Interrupted | 54                                  | 19             | 0              |

- c) Union does not have a forecast of the number of customers that will move to the proposed CMS Rate T2 service or the associated revenue. Five customers participated in the focus group and twenty customers are eligible for the service. To date, one customer has expressed its intention to Union to move to the CMS service option.

Union expects the CMS option will likely result in less storage space contracted by a Rate T2 customer than under a customer's existing Rate T2 service, resulting in additional Excess Utility Storage Space.

Currently, changes to Rate T2 customers' contract parameters may result in a change to their cost-based storage parameters impacting the amount of Excess Utility Storage Space available for sale by Union. A customer election to take the proposed CMS option would be treated in the same manner as other customer contract changes are treated.

As outlined at Exhibit A, Tab 4, Table 1, Union did examine a scenario whereby a select group of customers chose CMS and the result was a higher requirement for storage space than under the current Rate T2 service. However, it is not Union's expectation that this scenario is likely because of the requirements of the CMS option to actively manage daily gas supply, storage and balancing activities.

- d) and e) For customers that elect the CMS option, the storage demand-related revenue may change in two ways:
1. Demand charges for injection/withdrawal rights. While the customer specific contracted quantities of firm, cost-based injection/withdrawal rights may change with the CMS option, the underpinning assets Union sets aside to provide the service do not change. To maintain financial neutrality for the customer and Union during Union's IRM term, the CMS customer will be invoiced for demand charges based on its new contracted injection/withdrawal rights and the Monthly Billing Adjustment, which captures the

revenue difference in firm, cost-based Annual Firm Injection/Withdrawal rights. Injection/Withdrawals associated with the Daily Variance Account are interruptible and will be invoiced on a per use basis at the existing Authorized Overrun rate per Exhibit A, Tab 4, Table 2. The revenue associated with the Daily Variance Account injections/withdrawals has not been included. Union anticipates these quantities to be minimal as Daily Variance Account injections/withdrawals reflect small daily differences between supply and consumption.

2. Demand charges for storage space. CMS customers will likely elect a different (likely lower) quantity of storage space. A decrease in the customer's storage space will increase the amount of Excess Utility Storage Space available to sell short-term, consistent with other changes to in-franchise requirements for storage space. Union's revenue will decrease by the reduction in firm demand charges for storage space but can be offset by increased revenue opportunities associated with the 10% shareholder portion from the sale of Excess Utility Storage Space. The other 90% of the sale of Excess Utility Storage Space is included in the Short Term Storage and Other Balancing Services deferral account and disposed of through Union's annual deferral disposition proceeding.

Accordingly, Union will maintain financial neutrality associated with the demand charges for injection/withdrawal rights but will treat storage space changes in a similar manner to other storage space contracting changes during the IRM term.

There are no financial impacts to other rate classes during the current IRM term, as the CMS service option uses the existing Rate T2 storage rates.

- f) As part of rebasing, Union will update its cost allocation study based on a forecast of 2019 customer activity and design day requirements. To the extent there are changes to the Rate T2 forecasted use of storage on design day as a result of the CMS option, those changes would be included in Union's next rebasing proceeding.

Based on the response provided at d) and e) above, Union anticipates that the design day requirement for Rate T2 storage deliverability would not substantially change as a result of the CMS option.

Union also anticipates that the Rate T2 storage space would likely decrease due to the requirement of the service to better align daily supply with consumption. Should there be less forecasted Rate T2 storage space at 2019, the amount of excess utility storage space available to sell short-term would increase, of which 90% of the short-term storage revenue would be credited to in-franchise customers based on the existing Board-approved rate design.

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association (“BOMA”)

Reference: General

- a) Please provide, on a percentage and absolute basis, the increase in the 2017 delivery rate for each rate class in Union North and Union South, relative to 2016 delivery rates (both in-franchise and ex-franchise).
  - b) Please provide a summary of any changes in Terms and Conditions of Service for each of the rates.
  - c) Please provide a summary of any changes in eligibility criteria for each of the rates.
- 

**Response:**

- a) Please see Rate Order, Working Papers, Schedule 6 for the change to the average delivery rate for each Union North and Union South in-franchise rate class, relative to current approved rates. Please see Attachment 1 for the change to ex-franchise transportation rates.
- b) Union updated the General Terms and Conditions (“GT&C”), which are applicable to all in-franchise contracts, and updated Service Terms and Conditions associated with its Union North distribution service effective April 1, 2016. These changes included:

GT&C

- Reflected changes to North American Energy Standards Board (“NAESB”) nomination cycles.
- Transfer and clean-up of overrun language from the Union North distribution Service Terms and Conditions.
- Other wording changes to provide clarity.

Union North Distribution Service Terms and Conditions

- Updated the notice requirement for renewal/termination of TransCanada Pipelines’ capacity temporary assignments to be consistent with TransCanada Pipelines’ notice requirements.
- Transfer of overrun language to the GT&C.
- Clarity with respect to the operation of the Customer Balancing Service.
- Clarity with respect to measurement of compliance with minimum annual volume contract parameters resulting from interruption or force majeure.
- Other wording changes for clarity.

Union updated the GT&C and Service Terms and Conditions associated with its Union North Bundled T-service effective January 1, 2017 for the following:

GT&C

- Addition of a definition for a daily variance account.
- Change in gas purchase location for unauthorized gas supply by T-service customers.

Union North Bundled T-Service Terms and Conditions

- Changes resulting from the conversion of long-haul transportation contracts on TransCanada Pipelines from Empress to short-haul transportation contracts from Dawn including the introduction of a Dawn Daily Contract Quantity (“DCQ”) and a Dawn Reference Price.
- Removal of the requirement for customers to provide transportation fuel in kind.

There have been no changes to Union’s ex-franchise GT&Cs.

c) Union has made no changes to the eligibility criteria of its rate classes.

UNION GAS LIMITED  
Summary of 2017 Changes to Ex-franchise Transportation Rates

| Line No. | Particulars (\$/GJ)                                | EB-2016-0247<br>Approved<br>October 1, 2016<br>Rate<br>(a) | Rate<br>Change<br>(b) = (c - a) | EB-2016-0245<br>Proposed<br>January 1, 2017<br>Rate<br>(c) | Percent<br>Change<br>(%)<br>(d) = (b / a) |
|----------|----------------------------------------------------|------------------------------------------------------------|---------------------------------|------------------------------------------------------------|-------------------------------------------|
|          | <u>M12 Transportation Service</u>                  |                                                            |                                 |                                                            |                                           |
|          | <u>Firm transportation</u>                         |                                                            |                                 |                                                            |                                           |
|          | Monthly demand charges:                            |                                                            |                                 |                                                            |                                           |
| 1        | Dawn to Kirkwall                                   | 2.421                                                      | 0.444                           | 2.865                                                      | 18.3%                                     |
| 2        | Dawn to Parkway                                    | 2.883                                                      | 0.519                           | 3.402                                                      | 18.0%                                     |
| 3        | Kirkwall to Parkway                                | 0.462                                                      | 0.075                           | 0.537                                                      | 16.2%                                     |
| 4        | F24-T                                              | 0.069                                                      | 0.001                           | 0.070                                                      | 1.4%                                      |
| 5        | M12-X                                              | 3.602                                                      | 0.637                           | 4.239                                                      | 17.7%                                     |
|          | <u>M13 Transportation of Locally Produced Gas</u>  |                                                            |                                 |                                                            |                                           |
| 6        | Monthly fixed charge per customer station          | \$946.47                                                   | \$6.25                          | \$952.72                                                   | 0.7%                                      |
| 7        | Transmission commodity charge to Dawn              | 0.035                                                      | 0.000                           | 0.035                                                      | 0.0%                                      |
|          | <u>M16 Storage Transportation Service</u>          |                                                            |                                 |                                                            |                                           |
| 8        | Monthly fixed charge per customer station          | \$1,505.73                                                 | \$9.94                          | \$1,515.67                                                 | 0.7%                                      |
|          | Monthly demand charges:                            |                                                            |                                 |                                                            |                                           |
| 9        | East of Dawn                                       | 0.765                                                      | 0.005                           | 0.770                                                      | 0.7%                                      |
| 10       | West of Dawn                                       | 1.055                                                      | (0.010)                         | 1.045                                                      | -0.9%                                     |
| 11       | Transmission commodity charge to Dawn              | 0.035                                                      | 0.000                           | 0.035                                                      | 0.0%                                      |
|          | <u>C1 - Cross Franchise Transportation Service</u> |                                                            |                                 |                                                            |                                           |
|          | <u>Transportation service</u>                      |                                                            |                                 |                                                            |                                           |
|          | Monthly demand charges:                            |                                                            |                                 |                                                            |                                           |
| 12       | St. Clair / Bluewater & Dawn                       | 1.055                                                      | (0.010)                         | 1.045                                                      | -0.9%                                     |
| 13       | Ojibway & Dawn                                     | 1.055                                                      | (0.010)                         | 1.045                                                      | -0.9%                                     |
| 14       | Parkway to Dawn                                    | 0.719                                                      | 0.118                           | 0.837                                                      | 16.4%                                     |
| 15       | Parkway to Kirkwall                                | 0.719                                                      | 0.118                           | 0.837                                                      | 16.4%                                     |
| 16       | Kirkwall to Dawn                                   | 1.268                                                      | 0.207                           | 1.475                                                      | 16.3%                                     |
| 17       | Dawn to Kirkwall                                   | 2.421                                                      | 0.444                           | 2.865                                                      | 18.3%                                     |
| 18       | Dawn to Parkway                                    | 2.883                                                      | 0.519                           | 3.402                                                      | 18.0%                                     |
| 19       | Kirkwall to Parkway                                | 0.462                                                      | 0.075                           | 0.537                                                      | 16.2%                                     |
| 20       | Dawn to Dawn-Vector                                | 0.029                                                      | 0.000                           | 0.029                                                      | 0.0%                                      |
| 21       | Dawn to Dawn-TCPL                                  | 0.137                                                      | 0.001                           | 0.138                                                      | 0.7%                                      |

Note:

(1) Rate Order, Appendix A, pp. 14-16.

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association ("BOMA")

Reference: Working Paper, Schedule 6, Page 2 of 4

- a) Please explain the relatively large rate increases for the M2 (13.7%), M4 (12.3%), M7 (13.5%), T1 (9.1%), T2 (14.8%), and T3 (32.1%). Please show the different drivers and the contribution to the rate increases of each driver.
- b) What has been the cumulative increase in the rates, both in absolute and percentage terms, for each of the rate classes shown on Schedule 6, page 1 and 2 since the rates were first set in EB-2013-0202?
- c) Please explain the reduction in the rate for each rate class for Union North customers, as set out at page 1 of 2.

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**Response:**

- a) The drivers contributing to the average unit rate changes for all rate classes can be found at Rate Order, Working Papers, Schedule 5.
- b) 2014 Rates (EB-2013-0365) was Union's first rates application filed in accordance with the Board-approved EB-2013-0202 application and Settlement Agreement. Please see Attachment 1 for the change in 2017 rates relative to 2014 Board-approved rates (EB-2013-0365).
- c) The total average unit rate decrease for each Union North rate class is due to the Union North transportation and storage rate changes, as approved in the Dawn Reference Price and North T-Service proceeding (EB-2015-0181). The Board approved changes to Union North transportation and storage rates to reflect changes in the gas supply portfolio, including changes to the cost allocation methodology and rate design. The average net decrease to Union North transportation and storage rates is caused by lower transportation costs to serve the Union North East Zone from Dawn. This decrease in transportation costs is partly offset by an increase in the storage costs and an increase in the Union North East Zone commodity rate, which will be updated to reflect a Dawn Reference Price as part of the QRAM process.

UNION GAS LIMITED

Union North

Percentage Change in Proposed 2017 Average Unit Price as Compared to 2014 Average Unit Price

| Line No. | Particulars (cents/m <sup>3</sup> ) | Rate Class | EB-2013-0365<br>Approved Rates (1)<br>(cents / m <sup>3</sup> )<br>(a) | Excluding Customer-Related<br>GHG Obligation           |                            |                                          |
|----------|-------------------------------------|------------|------------------------------------------------------------------------|--------------------------------------------------------|----------------------------|------------------------------------------|
|          |                                     |            |                                                                        | Proposed Rates (2)<br>(cents / m <sup>3</sup> )<br>(b) | Rate Change<br>(c) = (b-a) | Percent Change (3)<br>(%)<br>(d) = (c/a) |
|          | Small Volume General Service        | 01         |                                                                        |                                                        |                            |                                          |
| 1        | Delivery                            |            | 17.2900                                                                | 17.7105                                                | 0.4205                     | 2.4%                                     |
| 2        | Gas Supply Transportation           |            | 5.3161                                                                 | 4.0529                                                 | (1.2632)                   | -23.8%                                   |
| 3        | Storage                             |            | 3.0467                                                                 | 5.3035                                                 | 2.2568                     | 74.1%                                    |
| 4        | Total                               |            | <u>25.6528</u>                                                         | <u>27.0669</u>                                         | <u>1.4141</u>              | <u>5.5%</u>                              |
|          | Large Volume General Service        | 10         |                                                                        |                                                        |                            |                                          |
| 5        | Delivery                            |            | 5.7533                                                                 | 6.2564                                                 | 0.5031                     | 8.7%                                     |
| 6        | Gas Supply Transportation           |            | 4.9297                                                                 | 3.4866                                                 | (1.4431)                   | -29.3%                                   |
| 7        | Storage                             |            | 2.1819                                                                 | 3.9285                                                 | 1.7466                     | 80.0%                                    |
| 8        | Total                               |            | <u>12.8649</u>                                                         | <u>13.6715</u>                                         | <u>0.8066</u>              | <u>6.3%</u>                              |
|          | Medium Volume Firm Service          | 20         |                                                                        |                                                        |                            |                                          |
| 9        | Delivery                            |            | 2.1559                                                                 | 2.2638                                                 | 0.1079                     | 5.0%                                     |
| 10       | Gas Supply Transportation           |            | 6.5191                                                                 | 6.4904                                                 | (0.0287)                   | -0.4%                                    |
| 11       | Total                               |            | <u>8.6750</u>                                                          | <u>8.7542</u>                                          | <u>0.0792</u>              | <u>0.9%</u>                              |
|          | Large Volume High Load Factor       | 100        |                                                                        |                                                        |                            |                                          |
| 12       | Delivery                            |            | <u>0.8260</u>                                                          | <u>0.8396</u>                                          | <u>0.0136</u>              | <u>1.6%</u>                              |
|          | Large Volume Interruptible          | 25         |                                                                        |                                                        |                            |                                          |
| 13       | Delivery                            |            | <u>2.8029</u>                                                          | <u>2.7201</u>                                          | <u>(0.0828)</u>            | <u>-3.0%</u>                             |

Notes:

- (1) EB-2013-0365, Rate Order, Working Papers, Schedule 4, column (w).
- (2) Rate Order, Working Papers, Schedule 4, column (u).
- (3) Excludes Gas Supply Commodity related costs.

UNION GAS LIMITED  
Union South  
Percentage Change in Proposed 2017 Average Unit Price as Compared to 2014 Average Unit Price

| Line No. | Particulars (cents/m <sup>3</sup> )                     | Rate Class | EB-2013-0365<br>Approved Rates (1)<br>(cents / m <sup>3</sup> )<br>(a) | Excluding Customer-Related<br>GHG Obligation           |                            |                                          |
|----------|---------------------------------------------------------|------------|------------------------------------------------------------------------|--------------------------------------------------------|----------------------------|------------------------------------------|
|          |                                                         |            |                                                                        | Proposed Rates (2)<br>(cents / m <sup>3</sup> )<br>(b) | Rate Change<br>(c) = (b-a) | Percent Change (3)<br>(%)<br>(d) = (c/a) |
| 1        | General Service Delivery                                | M1         | 12.5921                                                                | 13.5151                                                | 0.9230                     | 7.3%                                     |
| 2        | Storage                                                 |            | 0.7491                                                                 | 0.7153                                                 | (0.0338)                   | -4.5%                                    |
| 3        | Total                                                   |            | <u>13.3412</u>                                                         | <u>14.2304</u>                                         | <u>0.8892</u>              | <u>6.7%</u>                              |
| 4        | General Service Delivery                                | M2         | 3.8035                                                                 | 4.8880                                                 | 1.0845                     | 28.5%                                    |
| 5        | Storage                                                 |            | 0.6624                                                                 | 0.6252                                                 | (0.0372)                   | -5.6%                                    |
| 6        | Total                                                   |            | <u>4.4659</u>                                                          | <u>5.5132</u>                                          | <u>1.0473</u>              | <u>23.5%</u>                             |
| 7        | Firm Contract Commercial / Industrial Delivery          | M4         | <u>3.1144</u>                                                          | <u>4.3552</u>                                          | <u>1.2408</u>              | <u>39.8%</u>                             |
| 8        | Firm Contract Commercial / Industrial Delivery          | M5 (F)     | <u>2.9552</u>                                                          | <u>3.6872</u>                                          | <u>0.7320</u>              | <u>24.8%</u>                             |
| 9        | Interruptible Contract Commercial / Industrial Delivery | M5 (I)     | <u>2.4759</u>                                                          | <u>2.9719</u>                                          | <u>0.4960</u>              | <u>20.0%</u>                             |
| 10       | Firm Special Large Volume Contract Delivery             | M7 (F)     | <u>2.8865</u>                                                          | <u>4.0757</u>                                          | <u>1.1892</u>              | <u>41.2%</u>                             |
| 11       | Interruptible Special Large Volume Contract Delivery    | M7 (I)     | <u>1.2439</u>                                                          | <u>1.3162</u>                                          | <u>0.0723</u>              | <u>5.8%</u>                              |
| 12       | Large Wholesale Service Delivery                        | M9         | <u>1.1632</u>                                                          | <u>1.7370</u>                                          | <u>0.5738</u>              | <u>49.3%</u>                             |
| 13       | Small Wholesale Service Delivery                        | M10        | <u>4.8795</u>                                                          | <u>6.8119</u>                                          | <u>1.9324</u>              | <u>39.6%</u>                             |
| 14       | Storage and Transportation Delivery                     | T1 (F/I)   | <u>1.9751</u>                                                          | <u>2.2711</u>                                          | <u>0.2960</u>              | <u>15.0%</u>                             |
| 15       | Delivery excluding fuel                                 |            | <u>1.9199</u>                                                          | <u>2.2021</u>                                          | <u>0.2822</u>              | <u>14.7%</u>                             |
| 16       | Storage and Transportation Delivery                     | T2 (F/I)   | <u>0.8780</u>                                                          | <u>1.1281</u>                                          | <u>0.2501</u>              | <u>28.5%</u>                             |
| 17       | Delivery excluding fuel                                 |            | <u>0.8363</u>                                                          | <u>1.0784</u>                                          | <u>0.2421</u>              | <u>28.9%</u>                             |
| 18       | Storage and Transportation Distributor                  | T3         | <u>1.6285</u>                                                          | <u>2.4625</u>                                          | <u>0.8340</u>              | <u>51.2%</u>                             |

Notes:

- (1) EB-2013-0365, Rate Order, Working Papers, Schedule 4, column (w).
- (2) Rate Order, Working Papers, Schedule 4, column (u).
- (3) Excludes Gas Supply Commodity related costs.

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association (“BOMA”)

Reference:     General

Given that the Gas Supply Memorandum is a forward-looking document, in that it lays out the plan to acquire gas for the winter of 2016-2017, please provide the landed cost analysis for the 2017 gas plan.

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**Response:**

The gas supply plan establishes the supply requirements for Union’s customers. Landed cost analysis is not a function of the gas supply plan, but rather an analysis Union prepares when evaluating transportation contracting decisions. These contracting decisions can occur at several different points in time throughout the year depending on the need and opportunity. As a result, there is no landed cost analysis used in the gas supply plan.

Union files all applicable landed cost analyses, related to upstream transportation contracting decisions yearly as part of the disposition of non-commodity deferral account balances filing.

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association ("BOMA")

Reference: Exhibit A, Tab 3, Page 21, Figure 10

- a) Please provide additional detail on "Michigan's" seventeen percent share of gas supply, and Ojibway's six percent. Please explain the "Dawn/Uncommitted 22%" portion of supply. When is that amount committed, and for what purpose? Please explain fully.
- b) Ibid, Page 22: How does Union organize its seasonal load balancing for gas for the north system supply? Please explain how storage is used to do this.
- c) Ibid, Page 35: What changes will need to be made to Union's gas supply plan, given that the King North November 1, 2016 in-service date has not been met? When does Union anticipate the King North line will be in service? What will Union's unutilized Dawn/Parkway capacity be for the intervening period, as a result of the late completion, and what steps will Union take to mitigate the impact on ratepayers?

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**Response:**

- a) "Michigan" represents approximately 23.1 PJ (63,303 GJ/day) of annual Union South system supply purchased in Michigan and transported to Union via DTE at St. Clair.

"Ojibway" represents approximately 7.7 PJ (21,101 GJ/day) of annual Union South system supply purchased at the Ojibway interconnect with Panhandle Eastern Pipe Line ("PEPL") in the Windsor area.

"Dawn/Uncommitted" represents the annual Union South system supply requirement that has not been contracted upstream of Dawn at the time the gas supply plan is prepared. A portion of the portfolio is planned to be purchased at Dawn, providing the operational flexibility needed to manage annual fluctuations in demand and changing market conditions. Upstream contracting decisions are normally made by November 1<sup>st</sup>. The purpose for contracting upstream of Dawn is to ensure that customers receive secure, diverse gas supply at a prudently incurred cost. Union continuously evaluates options to secure upstream transportation to fulfill a portion of the uncommitted requirement identified in the gas supply plan with the remainder becoming a planned purchase at Dawn. All decisions made are in accordance with the guiding principles of the gas supply plan.

- b) Union uses the aggregate excess calculation described in Exhibit A, Tab 3, p. 25 to determine the amount of in-franchise storage required for Union North system supply. To balance its seasonal demand, Union injects surplus gas transported from the supply basin to the delivery area into storage during the summer months and withdraws gas from storage in the winter

months to serve winter consumption. Union uses TransCanada PipeLine's ("TransCanada's") STS service to transport the gas to storage in the summer months and from storage in the winter months.

- c) There are no changes to Union's gas supply plan as a result of delays in the King's North Project in-service date. Union will adjust its gas purchases at Empress and Dawn to reflect the supply portfolio in place until the TransCanada projects are in-service.

As noted at Exhibit B.Board Staff.4, TransCanada received approval from the NEB for the leave to open application for King's North on November 2, 2016. Union is still awaiting final communication from TransCanada on the exact in-service date of the King's North Project, however, Union is expecting the project to be in-service by mid-November. In addition, TransCanada has indicated that the Maple Compressor Upgrade will be in-service early December 2016.

There is minimal Dawn to Parkway unutilized capacity given the expected in-service dates of TransCanada facilities.

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association (“BOMA”)

Reference: Exhibit A, Tab 3, Appendix A

- a) Please explain the function performed by the SynerGEE model in the Annual Gas Supply Planning Process.
  - b) Please provide a Table with an explanation, which shows the utilization of the Dawn/Parkway/Kirkwall system by ex-franchise users on a monthly basis for 2015, 2016, and 2017, identifying each user and the volume contracted for and utilized in the system. Please show both the receipt and delivery points for each contract.
  - c) What is the total daily capacity of the Dawn/Parkway/Kirkwall system? Please show any seasonal variations due to weather impacts, and any physical constraints on portions of it. What is the estimated average unutilized capacity of the system for 2016; forecast for 2017?
- 

**Response:**

- a) Synergi Gas (formerly SynerGEE Gas) is a gas network modelling software program. Using the Synergi software, System Planning estimates the capacity of the transmission systems, the supply required at Dawn and shortfall in capacity (if any) on Design Day.
- b) Please see Attachment 1 for a listing of active contracts on the Dawn Parkway System as at November 1<sup>st</sup> for each of 2015 and 2016 as well as a projected listing as at November 1, 2017. Customer-specific utilization is commercially sensitive information, and accordingly is not included in the response.
- c) The capacity of the Dawn Parkway system as of Winter 2016/2017 is approximately 7.5 PJ/d.

There is approximately 62 TJ/d Winter 2016/2017 and forecast 160 TJ/d in Winter 2017/2018 of unutilized capacity on Design Day based on current modelling assumptions.

Union’s Dawn Parkway System is designed to transport required demands on the Design Day. The demands required to be served from the Dawn Parkway System decrease as the temperature becomes warmer. Union is able to reliably serve customer demands during the entire year and schedules planned maintenance and construction outages during times of the year when the utilization is forecast to be lower.

November 2015

| Customer Name                                                                             | Contract Identifier | Receipt Point | Delivery Point | Quantity (GJ) | Start Date | End Date  |
|-------------------------------------------------------------------------------------------|---------------------|---------------|----------------|---------------|------------|-----------|
| Enbridge Gas Distribution Inc.                                                            | C10059              | Parkway       | Dawn           | 236,586       | 01-Apr-06  | 31-Mar-18 |
| St. Lawrence Gas Company, Inc.                                                            | C10076              | Parkway       | Dawn           | 10,785        | 01-Apr-07  | 31-Mar-18 |
| Gaz Metro Limited Partnership                                                             | C10087              | Parkway       | Dawn           | 100,000       | 01-Apr-11  | 31-Mar-18 |
| York Energy Centre LP                                                                     | C10102              | Dawn          | Parkway        | 11,654        | 01-Apr-12  | 31-Mar-16 |
| Emera Energy Incorporated                                                                 | C10107              | Kirkwall      | Dawn           | 73,745        | 01-Nov-15  | 31-Oct-20 |
| Emera Energy Incorporated                                                                 | C10108              | Kirkwall      | Dawn           | 26,335        | 01-Apr-15  | 31-Mar-20 |
| DTE Energy Trading, Inc.                                                                  | C10110              | Kirkwall      | Dawn           | 73,000        | 01-Nov-15  | 31-Oct-17 |
| Mercuria Commodities Canada Corporation                                                   | C10111              | Parkway       | Dawn           | 42,202        | 01-Apr-15  | 31-Mar-20 |
| Husky Oil Operations Limited                                                              | HUB002T129          | Dawn          | Parkway        | 528           | 01-Nov-15  | 31-Mar-16 |
| Husky Oil Operations Limited                                                              | HUB002T130          | Dawn          | Parkway        | 633           | 01-Nov-15  | 31-Mar-16 |
| Husky Oil Operations Limited                                                              | HUB002T131          | Dawn          | Parkway        | 4,220         | 01-Nov-15  | 31-Mar-16 |
| Husky Oil Operations Limited                                                              | HUB002T132          | Dawn          | Parkway        | 4,326         | 01-Nov-15  | 31-Mar-16 |
| BP Canada Energy Group ULC                                                                | HUB040T211          | Dawn          | Parkway        | 2,743         | 01-Nov-15  | 31-Mar-16 |
| Tenaska Marketing Canada - a division of TMV Corp.                                        | HUB078E98           | Dawn          | Parkway        | 2,515         | 01-Nov-15  | 31-Mar-16 |
| Tenaska Marketing Canada - a division of TMV Corp.                                        | HUB078T170          | Dawn          | Parkway        | 6,126         | 01-Nov-15  | 30-Nov-15 |
| Ontario Power Generation Inc.                                                             | HUB335T006          | Parkway       | Dawn           | 2,670         | 01-Nov-15  | 31-Mar-16 |
| Ag Energy Co-operative Ltd.                                                               | HUB351T001          | Dawn          | Parkway        | 1,952         | 01-Nov-15  | 31-Mar-16 |
| Exelon Generation Company, LLC                                                            | HUB352T014          | Dawn          | Parkway        | 21,101        | 01-Nov-15  | 31-Mar-16 |
| Cargill Limited                                                                           | HUB356T137          | Dawn          | Parkway        | 5,275         | 01-Nov-15  | 31-Mar-16 |
| Access Gas Services (Ontario) Inc.                                                        | HUB547T140          | Dawn          | Parkway        | 3,000         | 01-Nov-15  | 31-Mar-16 |
| Access Gas Services (Ontario) Inc.                                                        | HUB547T141          | Dawn          | Parkway        | 2,500         | 01-Nov-15  | 31-Mar-16 |
| EDF Trading North America, LLC                                                            | HUB561T478          | Dawn          | Parkway        | 10,551        | 01-Nov-15  | 31-Mar-16 |
| EDF Trading North America, LLC                                                            | HUB561T480          | Dawn          | Parkway        | 5,275         | 01-Nov-15  | 31-Mar-16 |
| Koch Canada Energy Services, LP                                                           | HUB584T278          | Dawn          | Parkway        | 677           | 01-Nov-15  | 30-Nov-15 |
| PetroChina International (Canada) Trading Ltd.                                            | HUB667T002          | Dawn          | Parkway        | 1,055         | 01-Nov-15  | 31-Mar-16 |
| Gaz Metro Limited Partnership                                                             | M12007D             | Dawn          | Parkway        | 21,021        | 01-Nov-91  | 31-Oct-18 |
| 1425445 Ontario Limited o/a Utilities Kingston                                            | M12077              | Dawn          | Parkway        | 6,322         | 01-Apr-04  | 31-Mar-18 |
| Enbridge Gas Distribution Inc.                                                            | M12079A             | Dawn          | Kirkwall       | 32,123        | 01-Apr-14  | 31-Oct-18 |
| Enbridge Gas Distribution Inc.                                                            | M12079B             | Dawn          | Parkway        | 1,764,678     | 01-Apr-14  | 31-Oct-22 |
| Enbridge Gas Distribution Inc.                                                            | M12080              | Dawn          | Parkway        | 106,000       | 01-Nov-06  | 31-Oct-18 |
| TransAlta Cogeneration, L.P.                                                              | M12081              | Dawn          | Parkway        | 7,636         | 01-Nov-06  | 30-Nov-16 |
| U.S. Steel Canada Inc.                                                                    | M12085              | Dawn          | Parkway        | 11,087        | 16-Sep-14  | 31-Oct-18 |
| TransCanada PipeLines Limited                                                             | M12086              | Dawn          | Parkway        | 83,915        | 01-Nov-06  | 31-Oct-17 |
| The Corporation of the City of Kitchener                                                  | M12090              | Dawn          | Parkway        | 2,600         | 01-Nov-06  | 31-Oct-17 |
| Gaz Metro Limited Partnership                                                             | M12092              | Dawn          | Parkway        | 35,000        | 01-Nov-06  | 31-Oct-18 |
| Enbridge Gas Distribution Inc.                                                            | M12108              | Dawn          | Parkway        | 57,100        | 01-Nov-07  | 31-Oct-19 |
| Gaz Metro Limited Partnership                                                             | M12109              | Dawn          | Parkway        | 65,000        | 01-Nov-07  | 31-Oct-27 |
| Goreway Station Partnership by its managing partner<br>Goreway Power Station Holdings ULC | M12110              | Dawn          | Parkway        | 140,000       | 01-Nov-07  | 31-Oct-28 |

November 2015

| Customer Name                                                                         | Contract Identifier | Receipt Point | Delivery Point | Quantity (GJ) | Start Date | End Date  |
|---------------------------------------------------------------------------------------|---------------------|---------------|----------------|---------------|------------|-----------|
| Vermont Gas Systems, Inc.                                                             | M12119              | Dawn          | Parkway        | 20,000        | 01-Nov-07  | 31-Oct-18 |
| Greater Toronto Airports Authority                                                    | M12120              | Dawn          | Parkway        | 7,500         | 01-Nov-07  | 31-Oct-18 |
| TransCanada PipeLines Limited                                                         | M12123              | Dawn          | Kirkwall       | 71,838        | 01-Nov-08  | 31-Oct-17 |
| Enbridge Gas Distribution Inc.                                                        | M12125              | Dawn          | Parkway        | 10,692        | 01-Nov-08  | 31-Oct-18 |
| St. Lawrence Gas Company, Inc.                                                        | M12126              | Dawn          | Parkway        | 10,785        | 01-Nov-08  | 31-Oct-18 |
| 1425445 Ontario Limited o/a Utilities Kingston                                        | M12127              | Dawn          | Parkway        | 2,113         | 01-Nov-08  | 31-Oct-18 |
| Thorold CoGen L.P. by its General Partner Northland Power Thorold Cogen GP Inc.       | M12129              | Dawn          | Kirkwall       | 49,500        | 01-Sep-09  | 31-Aug-29 |
| Portlands Energy Centre L.P. ,by its General Partner, Portlands Energy Centre Inc.    | M12130              | Dawn          | Parkway        | 100,000       | 13-Jan-09  | 31-Oct-28 |
| TransCanada Power, a Division of TransCanada Energy Ltd.                              | M12131              | Dawn          | Parkway        | 84,348        | 01-Nov-09  | 31-Oct-18 |
| Gaz Metro Limited Partnership                                                         | M12132              | Dawn          | Parkway        | 52,343        | 01-Apr-09  | 31-Mar-18 |
| Ag Energy Co-operative Ltd.                                                           | M12151              | Dawn          | Parkway        | 1,363         | 01-Nov-08  | 31-Oct-20 |
| Consolidated Edison Company of New York, Inc. and Orange and Rockland Utilities, Inc. | M12162              | Dawn          | Kirkwall       | 31,746        | 01-Nov-11  | 31-Oct-17 |
| KeySpan Gas East Corporation d/b/a National Grid                                      | M12163              | Dawn          | Parkway        | 43,837        | 01-Nov-11  | 31-Oct-18 |
| The Narragansett Electric Company d/b/a National Grid                                 | M12164              | Dawn          | Parkway        | 1,081         | 01-Nov-11  | 31-Oct-18 |
| The Brooklyn Union Gas Company d/b/a National Grid NY                                 | M12165              | Dawn          | Parkway        | 44,019        | 01-Nov-11  | 31-Oct-18 |
| Connecticut Natural Gas Corporation                                                   | M12166              | Dawn          | Parkway        | 6,410         | 01-Nov-11  | 31-Oct-18 |
| Ag Energy Co-operative Ltd.                                                           | M12167              | Dawn          | Parkway        | 1,900         | 01-Nov-11  | 31-Oct-21 |
| Consolidated Edison Company of New York, Inc. and Orange and Rockland Utilities, Inc. | M12171              | Dawn          | Parkway        | 21,825        | 01-Nov-11  | 31-Oct-18 |
| Gaz Metro Limited Partnership                                                         | M12172              | Dawn          | Parkway        | 22,908        | 01-Apr-10  | 31-Mar-18 |
| Enbridge Gas Distribution Inc.                                                        | M12175              | Dawn          | Kirkwall       | 35,806        | 01-Nov-10  | 31-Oct-18 |
| Gaz Metro Limited Partnership                                                         | M12176              | Dawn          | Parkway        | 88,728        | 01-Apr-11  | 31-Mar-18 |
| Central Hudson Gas & Electric Corporation (a subsidiary of CH Energy Group, Inc.)     | M12182              | Dawn          | Parkway        | 5,467         | 01-Nov-11  | 31-Oct-18 |
| York Energy Centre LP                                                                 | M12184              | Dawn          | Parkway        | 76,000        | 01-Apr-12  | 31-Oct-22 |
| Niagara Mohawk Power Corporation d/b/a National Grid                                  | M12186              | Dawn          | Parkway        | 55,123        | 01-Nov-11  | 31-Oct-18 |
| Enbridge Gas Distribution Inc.                                                        | M12188              | Dawn          | Parkway        | 18,703        | 01-Nov-11  | 31-Oct-18 |
| Vermont Gas Systems, Inc.                                                             | M12190              | Dawn          | Parkway        | 500           | 01-Nov-10  | 31-Oct-20 |
| The Brooklyn Union Gas Company d/b/a National Grid NY                                 | M12193              | Dawn          | Parkway        | 12,953        | 01-Nov-10  | 31-Oct-18 |
| KeySpan Gas East Corporation d/b/a National Grid                                      | M12194              | Dawn          | Parkway        | 17,162        | 01-Nov-10  | 31-Oct-18 |
| Central Hudson Gas & Electric Corporation (a subsidiary of CH Energy Group, Inc.)     | M12195              | Dawn          | Parkway        | 10,792        | 01-Nov-10  | 31-Oct-18 |
| Boston Gas Company d/b/a National Grid                                                | M12197              | Dawn          | Parkway        | 9,282         | 01-Nov-10  | 31-Oct-18 |
| Colonial Gas Company d/b/a National Grid                                              | M12198              | Dawn          | Parkway        | 6,475         | 01-Nov-10  | 31-Oct-18 |

November 2015

| Customer Name                                                        | Contract Identifier | Receipt Point | Delivery Point | Quantity (GJ) | Start Date | End Date  |
|----------------------------------------------------------------------|---------------------|---------------|----------------|---------------|------------|-----------|
| Boston Gas Company d/b/a National Grid                               | M12199              | Dawn          | Parkway        | 2,158         | 01-Nov-10  | 31-Oct-18 |
| Liberty Utilities (EnergyNorth Natural Gas) Corp.                    | M12200              | Dawn          | Parkway        | 4,317         | 01-Nov-10  | 31-Oct-18 |
| Connecticut Natural Gas Corporation                                  | M12201              | Dawn          | Parkway        | 18,077        | 01-Nov-10  | 31-Oct-18 |
| The Southern Connecticut Gas Company                                 | M12202              | Dawn          | Parkway        | 34,950        | 01-Nov-10  | 31-Oct-18 |
| Yankee Gas Services Company                                          | M12203              | Dawn          | Parkway        | 43,116        | 01-Nov-10  | 31-Oct-18 |
| Bay State Gas Company dba Columbia Gas of Massachusetts              | M12204              | Dawn          | Parkway        | 27,803        | 01-Nov-10  | 31-Oct-18 |
| Northern Utilities, Inc.                                             | M12205              | Dawn          | Parkway        | 6,333         | 01-Nov-10  | 31-Oct-17 |
| Connecticut Natural Gas Corporation                                  | M12206              | Dawn          | Parkway        | 9,170         | 01-Nov-10  | 31-Oct-18 |
| The Southern Connecticut Gas Company                                 | M12207              | Dawn          | Parkway        | 13,970        | 01-Nov-10  | 31-Oct-18 |
| The Brooklyn Union Gas Company d/b/a National Grid NY                | M12208              | Dawn          | Parkway        | 30,217        | 01-Nov-10  | 31-Oct-18 |
| KeySpan Gas East Corporation d/b/a National Grid                     | M12209              | Dawn          | Parkway        | 22,772        | 01-Nov-10  | 31-Oct-18 |
| Yankee Gas Services Company                                          | M12210              | Dawn          | Parkway        | 20,560        | 01-Nov-10  | 31-Oct-18 |
| Yankee Gas Services Company                                          | M12212              | Dawn          | Parkway        | 5,380         | 01-Nov-10  | 31-Oct-19 |
| The Southern Connecticut Gas Company                                 | M12213              | Dawn          | Parkway        | 9,735         | 01-Nov-10  | 31-Oct-19 |
| Connecticut Natural Gas Corporation                                  | M12214              | Dawn          | Parkway        | 6,489         | 01-Nov-10  | 31-Oct-19 |
| Suncor Energy Products Partnership Produits Suncor Energie, S.E.N.C. | M12217              | Dawn          | Parkway        | 9,585         | 01-Nov-11  | 31-Oct-18 |
| TransCanada PipeLines Limited                                        | M12219              | Kirkwall      | Parkway        | 88,497        | 01-Nov-12  | 31-Oct-22 |
| TransCanada PipeLines Limited                                        | M12220              | Kirkwall      | Parkway        | 174,752       | 01-Nov-13  | 31-Oct-23 |
| Emera Energy Incorporated                                            | M12221              | Kirkwall      | Parkway        | 36,751        | 01-Nov-12  | 31-Oct-22 |
| Gaz Metro Limited Partnership                                        | M12222              | Dawn          | Parkway        | 257,784       | 01-Nov-15  | 31-Oct-25 |
| Vermont Gas Systems, Inc.                                            | M12224              | Dawn          | Parkway        | 8,100         | 01-Nov-14  | 31-Oct-24 |
| Enbridge Gas Distribution Inc.                                       | M12225              | Dawn          | Parkway (EGT)  | 0             | 01-Nov-15  | 31-Oct-25 |
| TransCanada PipeLines Limited                                        | M12258              | Dawn          | Parkway        | 35,872        | 01-Nov-15  | 31-Mar-18 |
| TransCanada PipeLines Limited                                        | M12X004             | Dawn          | Parkway        | 50,000        | 01-Sep-11  | 31-Aug-21 |
| TransCanada PipeLines Limited                                        | M12X005             | Dawn          | Parkway        | 78,316        | 01-Sep-11  | 31-Aug-21 |
| Enbridge Gas Distribution Inc.                                       | M12X006             | Dawn          | Parkway        | 200,000       | 01-Nov-12  | 31-Oct-22 |
| TransCanada PipeLines Limited                                        | M12X013             | Dawn          | Parkway        | 62,695        | 01-Nov-12  | 31-Oct-23 |
| 1425445 Ontario Limited o/a Utilities Kingston                       | M12X015             | Dawn          | Parkway        | 5,000         | 01-Apr-14  | 31-Mar-24 |

November 2016

| Customer Name                                                                          | Contract Identifier | Receipt Point | Delivery Point | Quantity (GJ) | Start Date | End Date  |
|----------------------------------------------------------------------------------------|---------------------|---------------|----------------|---------------|------------|-----------|
| Enbridge Gas Distribution Inc.                                                         | C10059              | Parkway       | Dawn           | 236,586       | 01-Apr-06  | 31-Mar-19 |
| St. Lawrence Gas Company, Inc.                                                         | C10076              | Parkway       | Dawn           | 10,785        | 01-Apr-07  | 31-Mar-19 |
| Gaz Metro Limited Partnership                                                          | C10087              | Parkway       | Dawn           | 100,000       | 01-Apr-11  | 31-Mar-19 |
| York Energy Centre LP                                                                  | C10102              | Dawn          | Parkway        | 11,654        | 01-Apr-12  | 31-Dec-16 |
| Emera Energy Incorporated                                                              | C10107              | Kirkwall      | Dawn           | 73,745        | 01-Nov-15  | 31-Oct-20 |
| Emera Energy Incorporated                                                              | C10108              | Kirkwall      | Dawn           | 26,335        | 01-Apr-15  | 31-Mar-20 |
| Seneca Resources Corporation                                                           | C10109              | Kirkwall      | Dawn           | 18,991        | 01-Nov-16  | 31-Mar-23 |
| DTE Energy Trading, Inc.                                                               | C10110              | Kirkwall      | Dawn           | 73,000        | 01-Nov-15  | 31-Oct-17 |
| Mercuria Commodities Canada Corporation                                                | C10111              | Parkway       | Dawn           | 42,202        | 01-Apr-15  | 31-Mar-20 |
| Tenaska Marketing Canada - a division of TMV Corp.                                     | HUB078T176          | Dawn          | Parkway        | 6,126         | 01-Nov-16  | 30-Nov-16 |
| Ingredion Canada Corporation                                                           | HUB228T001          | Dawn          | Parkway        | 719           | 01-Nov-16  | 31-Dec-16 |
| Ontario Power Generation Inc.                                                          | HUB335T009          | Parkway       | Dawn           | 2,650         | 01-Nov-16  | 31-Mar-17 |
| Koch Canada Energy Services, LP                                                        | HUB584T338          | Dawn          | Parkway        | 85            | 01-Nov-16  | 30-Nov-16 |
| Castleton Commodities Merchant Trading L.P.                                            | HUB623T055          | Dawn          | Parkway        | 2,638         | 01-Nov-16  | 31-Mar-17 |
| Gaz Metro Limited Partnership                                                          | M12007D             | Dawn          | Parkway        | 21,021        | 01-Nov-91  | 31-Oct-19 |
| 1425445 Ontario Limited o/a Utilities Kingston                                         | M12077              | Dawn          | Parkway        | 6,322         | 01-Apr-04  | 31-Mar-19 |
| Enbridge Gas Distribution Inc.                                                         | M12079A             | Dawn          | Kirkwall       | 32,123        | 01-Apr-14  | 31-Oct-19 |
| Enbridge Gas Distribution Inc.                                                         | M12079B             | Dawn          | Parkway        | 1,764,678     | 01-Apr-14  | 31-Oct-22 |
| Enbridge Gas Distribution Inc.                                                         | M12080              | Dawn          | Parkway        | 106,000       | 01-Nov-06  | 31-Oct-19 |
| TransAlta Cogeneration, L.P.                                                           | M12081              | Dawn          | Parkway        | 7,636         | 01-Nov-06  | 30-Nov-16 |
| U.S. Steel Canada Inc.                                                                 | M12085              | Dawn          | Parkway        | 11,087        | 16-Sep-14  | 31-Oct-19 |
| TransCanada PipeLines Limited                                                          | M12086              | Dawn          | Parkway        | 83,915        | 01-Nov-06  | 31-Oct-17 |
| The Corporation of the City of Kitchener                                               | M12090              | Dawn          | Parkway        | 2,600         | 01-Nov-06  | 31-Oct-17 |
| Gaz Metro Limited Partnership                                                          | M12092              | Dawn          | Parkway        | 35,000        | 01-Nov-06  | 31-Oct-19 |
| Enbridge Gas Distribution Inc.                                                         | M12108              | Dawn          | Parkway        | 57,100        | 01-Nov-07  | 31-Oct-19 |
| Gaz Metro Limited Partnership                                                          | M12109              | Dawn          | Parkway        | 65,000        | 01-Nov-07  | 31-Oct-27 |
| Goreway Station Partnership by its managing partner Goreway Power Station Holdings ULC | M12110              | Dawn          | Parkway        | 140,000       | 01-Nov-07  | 31-Oct-28 |
| Vermont Gas Systems, Inc.                                                              | M12119              | Dawn          | Parkway        | 20,000        | 01-Nov-07  | 31-Oct-19 |
| Greater Toronto Airports Authority                                                     | M12120              | Dawn          | Parkway        | 7,500         | 01-Nov-07  | 31-Oct-19 |
| TransCanada PipeLines Limited                                                          | M12123              | Dawn          | Kirkwall       | 59,778        | 01-Nov-08  | 31-Oct-17 |
| Enbridge Gas Distribution Inc.                                                         | M12125              | Dawn          | Parkway        | 10,692        | 01-Nov-08  | 31-Oct-19 |
| St. Lawrence Gas Company, Inc.                                                         | M12126              | Dawn          | Parkway        | 10,785        | 01-Nov-08  | 31-Oct-19 |
| 1425445 Ontario Limited o/a Utilities Kingston                                         | M12127              | Dawn          | Parkway        | 2,113         | 01-Nov-08  | 31-Oct-18 |
| Thorold CoGen L.P. by its General Partner Northland Power Thorold Cogen GP Inc.        | M12129              | Dawn          | Kirkwall       | 49,500        | 01-Sep-09  | 31-Aug-29 |
| Portlands Energy Centre L.P. by its General Partner, Portlands Energy Centre Inc.      | M12130              | Dawn          | Parkway        | 100,000       | 13-Jan-09  | 31-Oct-28 |
| TransCanada Power, a Division of TransCanada Energy Ltd.                               | M12131              | Dawn          | Parkway        | 84,348        | 01-Nov-09  | 31-Oct-18 |

November 2016

| Customer Name                                                                         | Contract Identifier | Receipt Point | Delivery Point | Quantity (GJ) | Start Date | End Date  |
|---------------------------------------------------------------------------------------|---------------------|---------------|----------------|---------------|------------|-----------|
| Gaz Metro Limited Partnership                                                         | M12132              | Dawn          | Parkway        | 52,343        | 01-Apr-09  | 31-Mar-19 |
| Ag Energy Co-operative Ltd.                                                           | M12151              | Dawn          | Parkway        | 1,363         | 01-Nov-08  | 31-Oct-20 |
| Consolidated Edison Company of New York, Inc. and Orange and Rockland Utilities, Inc. | M12162              | Dawn          | Kirkwall       | 31,746        | 01-Nov-11  | 31-Oct-17 |
| The Narragansett Electric Company d/b/a National Grid                                 | M12164              | Dawn          | Parkway        | 1,081         | 01-Nov-11  | 31-Oct-19 |
| Connecticut Natural Gas Corporation                                                   | M12166              | Dawn          | Parkway        | 6,410         | 01-Nov-11  | 31-Oct-19 |
| Ag Energy Co-operative Ltd.                                                           | M12167              | Dawn          | Parkway        | 1,900         | 01-Nov-11  | 31-Oct-21 |
| Consolidated Edison Company of New York, Inc. and Orange and Rockland Utilities, Inc. | M12171              | Dawn          | Parkway        | 21,825        | 01-Nov-11  | 31-Oct-19 |
| Gaz Metro Limited Partnership                                                         | M12172              | Dawn          | Parkway        | 22,908        | 01-Apr-10  | 31-Mar-19 |
| Enbridge Gas Distribution Inc.                                                        | M12175              | Dawn          | Kirkwall       | 35,806        | 01-Nov-10  | 31-Oct-19 |
| Gaz Metro Limited Partnership                                                         | M12176              | Dawn          | Parkway        | 88,728        | 01-Apr-11  | 31-Mar-19 |
| Central Hudson Gas & Electric Corporation (a subsidiary of CH Energy Group, Inc.)     | M12182              | Dawn          | Parkway        | 5,467         | 01-Nov-11  | 31-Oct-19 |
| York Energy Centre LP                                                                 | M12184              | Dawn          | Parkway        | 76,000        | 01-Apr-12  | 31-Oct-22 |
| Niagara Mohawk Power Corporation d/b/a National Grid                                  | M12186              | Dawn          | Parkway        | 55,123        | 01-Nov-11  | 31-Oct-19 |
| Enbridge Gas Distribution Inc.                                                        | M12188              | Dawn          | Parkway        | 18,703        | 01-Nov-11  | 31-Oct-19 |
| Vermont Gas Systems, Inc.                                                             | M12190              | Dawn          | Parkway        | 500           | 01-Nov-10  | 31-Oct-20 |
| The Brooklyn Union Gas Company d/b/a National Grid NY                                 | M12193              | Dawn          | Parkway        | 12,953        | 01-Nov-10  | 31-Oct-19 |
| KeySpan Gas East Corporation d/b/a National Grid                                      | M12194              | Dawn          | Parkway        | 17,162        | 01-Nov-10  | 31-Oct-19 |
| Central Hudson Gas & Electric Corporation (a subsidiary of CH Energy Group, Inc.)     | M12195              | Dawn          | Parkway        | 10,792        | 01-Nov-10  | 31-Oct-19 |
| Boston Gas Company d/b/a National Grid                                                | M12197              | Dawn          | Parkway        | 9,282         | 01-Nov-10  | 31-Oct-19 |
| Colonial Gas Company d/b/a National Grid                                              | M12198              | Dawn          | Parkway        | 6,475         | 01-Nov-10  | 31-Oct-19 |
| Boston Gas Company d/b/a National Grid                                                | M12199              | Dawn          | Parkway        | 2,158         | 01-Nov-10  | 31-Oct-19 |
| Liberty Utilities (EnergyNorth Natural Gas) Corp.                                     | M12200              | Dawn          | Parkway        | 4,317         | 01-Nov-10  | 31-Oct-22 |
| Connecticut Natural Gas Corporation                                                   | M12201              | Dawn          | Parkway        | 18,077        | 01-Nov-10  | 31-Oct-19 |
| The Southern Connecticut Gas Company                                                  | M12202              | Dawn          | Parkway        | 34,950        | 01-Nov-10  | 31-Oct-19 |
| Yankee Gas Services Company                                                           | M12203              | Dawn          | Parkway        | 43,116        | 01-Nov-10  | 31-Oct-19 |
| Bay State Gas Company dba Columbia Gas of Massachusetts                               | M12204              | Dawn          | Parkway        | 27,803        | 01-Nov-10  | 31-Oct-22 |
| Northern Utilities, Inc.                                                              | M12205              | Dawn          | Parkway        | 6,333         | 01-Nov-10  | 31-Oct-17 |
| Connecticut Natural Gas Corporation                                                   | M12206              | Dawn          | Parkway        | 9,170         | 01-Nov-10  | 31-Oct-19 |
| The Southern Connecticut Gas Company                                                  | M12207              | Dawn          | Parkway        | 13,970        | 01-Nov-10  | 31-Oct-19 |
| The Brooklyn Union Gas Company d/b/a National Grid NY                                 | M12208              | Dawn          | Parkway        | 30,217        | 01-Nov-10  | 31-Oct-19 |
| KeySpan Gas East Corporation d/b/a National Grid                                      | M12209              | Dawn          | Parkway        | 22,772        | 01-Nov-10  | 31-Oct-19 |
| Yankee Gas Services Company                                                           | M12210              | Dawn          | Parkway        | 20,560        | 01-Nov-10  | 31-Oct-19 |
| Yankee Gas Services Company                                                           | M12212              | Dawn          | Parkway        | 5,380         | 01-Nov-10  | 31-Oct-19 |
| The Southern Connecticut Gas Company                                                  | M12213              | Dawn          | Parkway        | 9,735         | 01-Nov-10  | 31-Oct-19 |
| Connecticut Natural Gas Corporation                                                   | M12214              | Dawn          | Parkway        | 6,489         | 01-Nov-10  | 31-Oct-19 |

November 2016

| Customer Name                                                        | Contract Identifier | Receipt Point | Delivery Point | Quantity (GJ) | Start Date | End Date  |
|----------------------------------------------------------------------|---------------------|---------------|----------------|---------------|------------|-----------|
| Suncor Energy Products Partnership Produits Suncor Energie, S.E.N.C. | M12217              | Dawn          | Parkway        | 9,585         | 01-Nov-11  | 31-Oct-19 |
| TransCanada PipeLines Limited                                        | M12219              | Kirkwall      | Parkway        | 88,497        | 01-Nov-12  | 31-Oct-22 |
| TransCanada PipeLines Limited                                        | M12220              | Kirkwall      | Parkway        | 174,752       | 01-Nov-13  | 31-Oct-23 |
| Emera Energy Incorporated                                            | M12221              | Kirkwall      | Parkway        | 36,751        | 01-Nov-12  | 31-Oct-22 |
| Gaz Metro Limited Partnership                                        | M12222              | Dawn          | Parkway        | 257,784       | 01-Nov-15  | 31-Oct-25 |
| Vermont Gas Systems, Inc.                                            | M12224              | Dawn          | Parkway        | 8,100         | 01-Nov-14  | 31-Oct-24 |
| Enbridge Gas Distribution Inc.                                       | M12225              | Dawn          | Parkway (EGT)  | 400,000       | 01-Nov-15  | 31-Oct-25 |
| TransCanada PipeLines Limited                                        | M12230              | Kirkwall      | Parkway        | 36,301        | 01-Nov-16  | 31-Oct-31 |
| Gaz Metro Limited Partnership                                        | M12232              | Dawn          | Parkway        | 39,507        | 01-Nov-16  | 31-Oct-31 |
| Gaz Metro Limited Partnership                                        | M12233              | Dawn          | Parkway        | 19,754        | 01-Nov-16  | 31-Oct-31 |
| Enbridge Gas Distribution Inc.                                       | M12234              | Dawn          | Parkway        | 170,000       | 01-Nov-16  | 31-Oct-31 |
| Gaz Metro Limited Partnership                                        | M12237              | Dawn          | Parkway        | 85,680        | 01-Nov-16  | 31-Oct-31 |
| TransCanada PipeLines Limited                                        | M12258              | Dawn          | Parkway        | 35,872        | 01-Nov-15  | 31-Mar-18 |
| Mercuria Commodities Canada Corporation                              | M12262              | Dawn          | Parkway        | 44,019        | 01-Nov-16  | 31-Oct-18 |
| Mercuria Commodities Canada Corporation                              | M12263              | Dawn          | Parkway        | 43,837        | 01-Nov-16  | 31-Oct-18 |
| TransCanada PipeLines Limited                                        | M12X004             | Dawn          | Parkway        | 50,000        | 01-Sep-11  | 31-Aug-21 |
| TransCanada PipeLines Limited                                        | M12X005             | Dawn          | Parkway        | 78,316        | 01-Sep-11  | 31-Aug-21 |
| Enbridge Gas Distribution Inc.                                       | M12X006             | Dawn          | Parkway        | 200,000       | 01-Nov-12  | 31-Oct-22 |
| TransCanada PipeLines Limited                                        | M12X013             | Dawn          | Parkway        | 62,695        | 01-Nov-12  | 31-Oct-23 |
| 1425445 Ontario Limited o/a Utilities Kingston                       | M12X015             | Dawn          | Parkway        | 5,000         | 01-Apr-14  | 31-Mar-24 |

November 2017

| Customer Name                                                                          | Contract Identifier | Receipt Point | Delivery Point | Quantity (GJ) | Start Date | End Date  |
|----------------------------------------------------------------------------------------|---------------------|---------------|----------------|---------------|------------|-----------|
| Enbridge Gas Distribution Inc.                                                         | C10059              | Parkway       | Dawn           | 236,586       | 01-Apr-06  | 31-Mar-19 |
| St. Lawrence Gas Company, Inc.                                                         | C10076              | Parkway       | Dawn           | 10,785        | 01-Apr-07  | 31-Mar-19 |
| Gaz Metro Limited Partnership                                                          | C10087              | Parkway       | Dawn           | 100,000       | 01-Apr-11  | 31-Mar-19 |
| Emera Energy Incorporated                                                              | C10107              | Kirkwall      | Dawn           | 73,745        | 01-Nov-15  | 31-Oct-20 |
| Emera Energy Incorporated                                                              | C10108              | Kirkwall      | Dawn           | 26,335        | 01-Apr-15  | 31-Mar-20 |
| Seneca Resources Corporation                                                           | C10109              | Kirkwall      | Dawn           | 18,991        | 01-Nov-16  | 31-Mar-23 |
| Mercuria Commodities Canada Corporation                                                | C10111              | Parkway       | Dawn           | 42,202        | 01-Apr-15  | 31-Mar-20 |
| Gaz Metro Limited Partnership                                                          | M12007D             | Dawn          | Parkway        | 21,021        | 01-Nov-91  | 31-Oct-19 |
| 1425445 Ontario Limited o/a Utilities Kingston                                         | M12077              | Dawn          | Parkway        | 6,322         | 01-Apr-04  | 31-Mar-19 |
| Enbridge Gas Distribution Inc.                                                         | M12079A             | Dawn          | Kirkwall       | 32,123        | 01-Apr-14  | 31-Oct-19 |
| Enbridge Gas Distribution Inc.                                                         | M12079B             | Dawn          | Parkway        | 1,764,678     | 01-Apr-14  | 31-Oct-22 |
| Enbridge Gas Distribution Inc.                                                         | M12080              | Dawn          | Parkway        | 106,000       | 01-Nov-06  | 31-Oct-19 |
| U.S. Steel Canada Inc.                                                                 | M12085              | Dawn          | Parkway        | 11,087        | 16-Sep-14  | 31-Oct-19 |
| TransCanada PipeLines Limited                                                          | M12086              | Dawn          | Parkway        | 83,915        | 01-Nov-06  | 31-Oct-17 |
| The Corporation of the City of Kitchener                                               | M12090              | Dawn          | Parkway        | 2,600         | 01-Nov-06  | 31-Oct-17 |
| Gaz Metro Limited Partnership                                                          | M12092              | Dawn          | Parkway        | 35,000        | 01-Nov-06  | 31-Oct-19 |
| Enbridge Gas Distribution Inc.                                                         | M12108              | Dawn          | Parkway        | 57,100        | 01-Nov-07  | 31-Oct-19 |
| Gaz Metro Limited Partnership                                                          | M12109              | Dawn          | Parkway        | 65,000        | 01-Nov-07  | 31-Oct-27 |
| Goreway Station Partnership by its managing partner Goreway Power Station Holdings ULC | M12110              | Dawn          | Parkway        | 140,000       | 01-Nov-07  | 31-Oct-28 |
| Vermont Gas Systems, Inc.                                                              | M12119              | Dawn          | Parkway        | 20,000        | 01-Nov-07  | 31-Oct-19 |
| Greater Toronto Airports Authority                                                     | M12120              | Dawn          | Parkway        | 7,500         | 01-Nov-07  | 31-Oct-19 |
| TransCanada PipeLines Limited                                                          | M12123              | Dawn          | Kirkwall       | 59,778        | 01-Nov-08  | 31-Oct-17 |
| Enbridge Gas Distribution Inc.                                                         | M12125              | Dawn          | Parkway        | 10,692        | 01-Nov-08  | 31-Oct-19 |
| St. Lawrence Gas Company, Inc.                                                         | M12126              | Dawn          | Parkway        | 10,785        | 01-Nov-08  | 31-Oct-19 |
| 1425445 Ontario Limited o/a Utilities Kingston                                         | M12127              | Dawn          | Parkway        | 2,113         | 01-Nov-08  | 31-Oct-18 |
| Thorold CoGen L.P. by its General Partner Northland Power Thorold CoGen GP Inc.        | M12129              | Dawn          | Kirkwall       | 49,500        | 01-Sep-09  | 31-Aug-29 |
| Portlands Energy Centre L.P. by its General Partner, Portlands Energy Centre Inc.      | M12130              | Dawn          | Parkway        | 100,000       | 13-Jan-09  | 31-Oct-28 |
| TransCanada Power, a Division of TransCanada Energy Ltd.                               | M12131              | Dawn          | Parkway        | 84,348        | 01-Nov-09  | 31-Oct-18 |
| Gaz Metro Limited Partnership                                                          | M12132              | Dawn          | Parkway        | 52,343        | 01-Apr-09  | 31-Mar-19 |
| Ag Energy Co-operative Ltd.                                                            | M12151              | Dawn          | Parkway        | 1,363         | 01-Nov-08  | 31-Oct-20 |
| Consolidated Edison Company of New York, Inc. and Orange and Rockland Utilities, Inc.  | M12162              | Dawn          | Kirkwall       | 31,746        | 01-Nov-11  | 31-Oct-17 |
| The Narragansett Electric Company d/b/a National Grid                                  | M12164              | Dawn          | Parkway        | 1,081         | 01-Nov-11  | 31-Oct-19 |
| Connecticut Natural Gas Corporation                                                    | M12166              | Dawn          | Parkway        | 6,410         | 01-Nov-11  | 31-Oct-19 |
| Ag Energy Co-operative Ltd.                                                            | M12167              | Dawn          | Parkway        | 1,900         | 01-Nov-11  | 31-Oct-21 |
| Consolidated Edison Company of New York, Inc. and Orange and Rockland Utilities, Inc.  | M12171              | Dawn          | Parkway        | 21,825        | 01-Nov-11  | 31-Oct-19 |

November 2017

| Customer Name                                                                     | Contract Identifier | Receipt Point | Delivery Point | Quantity (GJ) | Start Date | End Date  |
|-----------------------------------------------------------------------------------|---------------------|---------------|----------------|---------------|------------|-----------|
| Gaz Metro Limited Partnership                                                     | M12172              | Dawn          | Parkway        | 22,908        | 01-Apr-10  | 31-Mar-19 |
| Enbridge Gas Distribution Inc.                                                    | M12175              | Dawn          | Kirkwall       | 35,806        | 01-Nov-10  | 31-Oct-19 |
| Gaz Metro Limited Partnership                                                     | M12176              | Dawn          | Parkway        | 88,728        | 01-Apr-11  | 31-Mar-19 |
| Central Hudson Gas & Electric Corporation (a subsidiary of CH Energy Group, Inc.) | M12182              | Dawn          | Parkway        | 5,467         | 01-Nov-11  | 31-Oct-19 |
| York Energy Centre LP                                                             | M12184              | Dawn          | Parkway        | 76,000        | 01-Apr-12  | 31-Oct-22 |
| Niagara Mohawk Power Corporation d/b/a National Grid                              | M12186              | Dawn          | Parkway        | 55,123        | 01-Nov-11  | 31-Oct-19 |
| Enbridge Gas Distribution Inc.                                                    | M12188              | Dawn          | Parkway        | 18,703        | 01-Nov-11  | 31-Oct-19 |
| Vermont Gas Systems, Inc.                                                         | M12190              | Dawn          | Parkway        | 500           | 01-Nov-10  | 31-Oct-20 |
| The Brooklyn Union Gas Company d/b/a National Grid NY                             | M12193              | Dawn          | Parkway        | 12,953        | 01-Nov-10  | 31-Oct-19 |
| KeySpan Gas East Corporation d/b/a National Grid                                  | M12194              | Dawn          | Parkway        | 17,162        | 01-Nov-10  | 31-Oct-19 |
| Central Hudson Gas & Electric Corporation (a subsidiary of CH Energy Group, Inc.) | M12195              | Dawn          | Parkway        | 10,792        | 01-Nov-10  | 31-Oct-19 |
| Boston Gas Company d/b/a National Grid                                            | M12197              | Dawn          | Parkway        | 9,282         | 01-Nov-10  | 31-Oct-19 |
| Colonial Gas Company d/b/a National Grid                                          | M12198              | Dawn          | Parkway        | 6,475         | 01-Nov-10  | 31-Oct-19 |
| Boston Gas Company d/b/a National Grid                                            | M12199              | Dawn          | Parkway        | 2,158         | 01-Nov-10  | 31-Oct-19 |
| Liberty Utilities (EnergyNorth Natural Gas) Corp.                                 | M12200              | Dawn          | Parkway        | 4,317         | 01-Nov-10  | 31-Oct-22 |
| Connecticut Natural Gas Corporation                                               | M12201              | Dawn          | Parkway        | 18,077        | 01-Nov-10  | 31-Oct-19 |
| The Southern Connecticut Gas Company                                              | M12202              | Dawn          | Parkway        | 34,950        | 01-Nov-10  | 31-Oct-19 |
| Yankee Gas Services Company                                                       | M12203              | Dawn          | Parkway        | 43,116        | 01-Nov-10  | 31-Oct-19 |
| Bay State Gas Company dba Columbia Gas of Massachusetts                           | M12204              | Dawn          | Parkway        | 27,803        | 01-Nov-10  | 31-Oct-22 |
| Northern Utilities, Inc.                                                          | M12205              | Dawn          | Parkway        | 6,333         | 01-Nov-10  | 31-Oct-17 |
| Connecticut Natural Gas Corporation                                               | M12206              | Dawn          | Parkway        | 9,170         | 01-Nov-10  | 31-Oct-19 |
| The Southern Connecticut Gas Company                                              | M12207              | Dawn          | Parkway        | 13,970        | 01-Nov-10  | 31-Oct-19 |
| The Brooklyn Union Gas Company d/b/a National Grid NY                             | M12208              | Dawn          | Parkway        | 30,217        | 01-Nov-10  | 31-Oct-19 |
| KeySpan Gas East Corporation d/b/a National Grid                                  | M12209              | Dawn          | Parkway        | 22,772        | 01-Nov-10  | 31-Oct-19 |
| Yankee Gas Services Company                                                       | M12210              | Dawn          | Parkway        | 20,560        | 01-Nov-10  | 31-Oct-19 |
| Yankee Gas Services Company                                                       | M12212              | Dawn          | Parkway        | 5,380         | 01-Nov-10  | 31-Oct-19 |
| The Southern Connecticut Gas Company                                              | M12213              | Dawn          | Parkway        | 9,735         | 01-Nov-10  | 31-Oct-19 |
| Connecticut Natural Gas Corporation                                               | M12214              | Dawn          | Parkway        | 6,489         | 01-Nov-10  | 31-Oct-19 |
| Suncor Energy Products Partnership Produits Suncor Energie, S.E.N.C.              | M12217              | Dawn          | Parkway        | 9,585         | 01-Nov-11  | 31-Oct-19 |
| TransCanada PipeLines Limited                                                     | M12219              | Kirkwall      | Parkway        | 88,497        | 01-Nov-12  | 31-Oct-22 |
| TransCanada PipeLines Limited                                                     | M12220              | Kirkwall      | Parkway        | 174,752       | 01-Nov-13  | 31-Oct-23 |
| Emera Energy Incorporated                                                         | M12221              | Kirkwall      | Parkway        | 36,751        | 01-Nov-12  | 31-Oct-22 |
| Gaz Metro Limited Partnership                                                     | M12222              | Dawn          | Parkway        | 257,784       | 01-Nov-15  | 31-Oct-25 |
| Vermont Gas Systems, Inc.                                                         | M12224              | Dawn          | Parkway        | 8,100         | 01-Nov-14  | 31-Oct-24 |
| Enbridge Gas Distribution Inc.                                                    | M12225              | Dawn          | Parkway (EGT)  | 400,000       | 01-Nov-15  | 31-Oct-25 |
| TransCanada PipeLines Limited                                                     | M12230              | Kirkwall      | Parkway        | 36,301        | 01-Nov-16  | 31-Oct-31 |

November 2017

| Customer Name                                  | Contract Identifier | Receipt Point | Delivery Point | Quantity (GJ) | Start Date | End Date  |
|------------------------------------------------|---------------------|---------------|----------------|---------------|------------|-----------|
| Gaz Metro Limited Partnership                  | M12232              | Dawn          | Parkway        | 39,507        | 01-Nov-16  | 31-Oct-31 |
| Gaz Metro Limited Partnership                  | M12233              | Dawn          | Parkway        | 19,754        | 01-Nov-16  | 31-Oct-31 |
| Enbridge Gas Distribution Inc.                 | M12234              | Dawn          | Parkway        | 170,000       | 01-Nov-16  | 31-Oct-31 |
| Gaz Metro Limited Partnership                  | M12237              | Dawn          | Parkway        | 85,680        | 01-Nov-16  | 31-Oct-31 |
| Gaz Metro Limited Partnership                  | M12244              | Dawn          | Parkway        | 36,670        | 01-Nov-17  | 31-Oct-32 |
| TransCanada Energy Limited                     | M12246              | Dawn          | Parkway        | 120,000       | 01-Nov-17  | 31-Oct-32 |
| St. Lawrence Gas Company, Inc.                 | M12249              | Dawn          | Parkway        | 10,412        | 01-Nov-17  | 31-Oct-32 |
| Enbridge Gas Distribution Inc.                 | M12250              | Dawn          | Parkway        | 190,000       | 01-Nov-17  | 31-Oct-32 |
| 1425445 Ontario Limited o/a Utilities Kingston | M12251              | Dawn          | Parkway        | 5,000         | 01-Nov-17  | 31-Oct-32 |
| 1425445 Ontario Limited o/a Utilities Kingston | M12252              | Kirkwall      | Parkway        | 1,000         | 01-Nov-17  | 31-Oct-32 |
| The Corporation of the City of Kitchener       | M12253              | Kirkwall      | Parkway        | 10,000        | 01-Nov-17  | 31-Oct-32 |
| DTE Energy Trading Inc.                        | M12255              | Kirkwall      | Parkway        | 73,854        | 01-Nov-17  | 31-Oct-31 |
| Northern Utilities, Inc.                       | M12256              | Dawn          | Parkway        | 6,440         | 01-Nov-17  | 31-Mar-18 |
| TransCanada PipeLines Limited                  | M12258              | Dawn          | Parkway        | 35,872        | 01-Nov-15  | 31-Mar-18 |
| Mercuria Commodities Canada Corporation        | M12262              | Dawn          | Parkway        | 44,019        | 01-Nov-16  | 31-Oct-18 |
| Mercuria Commodities Canada Corporation        | M12263              | Dawn          | Parkway        | 43,837        | 01-Nov-16  | 31-Oct-18 |
| TransCanada PipeLines Limited                  | M12X004             | Dawn          | Parkway        | 50,000        | 01-Sep-11  | 31-Aug-21 |
| TransCanada PipeLines Limited                  | M12X005             | Dawn          | Parkway        | 78,316        | 01-Sep-11  | 31-Aug-21 |
| Enbridge Gas Distribution Inc.                 | M12X006             | Dawn          | Parkway        | 200,000       | 01-Nov-12  | 31-Oct-22 |
| TransCanada PipeLines Limited                  | M12X013             | Dawn          | Parkway        | 62,695        | 01-Nov-12  | 31-Oct-23 |
| 1425445 Ontario Limited o/a Utilities Kingston | M12X015             | Dawn          | Parkway        | 5,000         | 01-Apr-14  | 31-Mar-24 |

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association ("BOMA")

Reference: Ibid, Page 9

"Long term demand growth will be shaped by future environmental policies and their impacts on the power sector demand of growth".

- a) Is Union referring to US long-term demand growth, and the continuing replacement of coal-fired power by gas-fired power? If so, what are the principle driver(s) for Union's/EGD's franchise gas consumption growth? Please explain fully.
- b) Please provide the ICF projections that support Figure 4 for July 2016.
- c) Has Union had discussions with TCPL with respect to its "fixed price option" transportation service from WCSB, which has recently been discussed in the press and in EGD's 2017 rates submission. Would Union contract for this service in the next few years if it were available, on economic terms, given the recent increase in gas supply in Western Canada?

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**Response:**

- a) The long-term demand growth underpinning the ICF projections considers demand impacts across North America. Future demand growth in Eastern Canada is attributable to the recovery of industrial demand and incremental growth in power demand (due to both load growth and planned nuclear plant refurbishments and retirements).
- b) Please see Table 1 below for the ICF projections that support Figure 4 for July 2016.

Table 1

| <b>Year</b> | <b>Henry Hub<br/>\$ USD/MMBTU</b> |
|-------------|-----------------------------------|
| 2010        | 4.74                              |
| 2011        | 4.24                              |
| 2012        | 2.86                              |
| 2013        | 3.82                              |
| 2014        | 4.38                              |
| 2015        | 2.60                              |
| 2016        | 2.19                              |
| 2017        | 3.21                              |
| 2018        | 2.98                              |
| 2019        | 3.34                              |
| 2020        | 3.68                              |
| 2021        | 3.71                              |
| 2022        | 3.93                              |
| 2023        | 3.83                              |
| 2024        | 3.89                              |
| 2025        | 3.92                              |
| 2026        | 4.25                              |
| 2027        | 4.32                              |
| 2028        | 4.56                              |
| 2029        | 4.48                              |
| 2030        | 4.73                              |
| 2031        | 4.82                              |
| 2032        | 5.08                              |
| 2033        | 5.08                              |
| 2034        | 5.15                              |
| 2035        | 5.12                              |

- c) TransCanada PipeLine (“TransCanada”) provided Union with an overview of the proposed Dawn Long-Term Fixed Price (“LTFP”) service prior to the open season being issued. Based on Union’s review of the open season materials, the proposed LTFP service includes different terms, including pricing and contract duration, than originally described to Union.

Union chose not to participate in the LTFP open season. Union is not a targeted customer of the proposed LTFP service as it is primarily being marketed to meet WCSB producer needs. The long-term commitment requested by TransCanada is not required to underpin any facility expansions on the Mainline and would reduce contracting flexibility in Union’s transportation portfolio. In addition, the proposed LTFP service does not provide the same attributes as a firm transportation (“FT”) service on the Mainline, including diversion rights and alternate receipt points that can be used to reach Ontario or export markets.

The Western Canadian Sedimentary Basin (“WCSB”) continues to represent a significant portion of Union’s gas supply portfolio either directly through purchases at Empress (with TransCanada Mainline transportation) and at Chicago (with Vector transportation). In addition, purchases in Michigan and at Dawn may also be gas originating from the WCSB. If the proposed LTFP service is ultimately subscribed and approved by the National Energy Board (“NEB”), Union would have the ability to purchase natural gas transported via the LTFP service that lands at Dawn or in Michigan.

Union is concerned that the proposed LTFP service is unfair or inequitable for existing Mainline Shippers given that a significant discount is being offered to a specific segment of the market. Union is also concerned that the proposed LTFP service toll and terms have been developed to eliminate or reduce the likelihood of new pipeline infrastructure being built from Appalachia into Michigan (and subsequently using existing facilities to get to Dawn).

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association (“BOMA”)

Reference: Ibid, Page 11

- a) Please explain in detail how Union manages risk to customers by contracting transportation for terms ranging from one to sixteen years.
  - b) How does Union plan to avoid stranded transportation and storage assets in the event the Ontario government moves aggressively to reduce natural gas space heating, water heating, and power generation load in Ontario?
- 

**Response:**

- a) Exhibit A, Tab 3, Appendix C and D show that Union currently holds contracts of durations between one and sixteen years in its portfolio. Contract term diversity allows Union to balance the need for short-term flexibility with the need for longer term commitments to be made by the utility.

Union will typically contract for a shorter term (1-5 years) for existing pipeline capacity which provides the flexibility needed to reduce contracted amounts annually should the capacity no longer be required or alternate paths become more competitive. To ensure it has renewal rights on contracts that underpin the firm obligations of the utility, Union contracts for terms of three years or greater on TransCanada, as renewal rights are only available for contracts greater than two years in duration.

Union also holds contracts with long-term durations. These contracts are typically required to underpin long-term, capital-based facilities expansions. For example, Union holds TransCanada short haul contracts from Parkway to Union EDA and from Parkway to Union NDA that required a fifteen year commitment to support the facilities builds. The contract with a sixteen year duration is the Kirkwall to (amended) Union CDA contract which commenced November 1, 2016.

- b) Union maintains an upstream transportation portfolio with diversified contract terms which provides flexibility in managing fluctuations in gas supply requirements. If the future years' forecasted demand requirements result in a need to reduce transportation contract commitments, Union will actively reduce the amount of transportation contracted through the annual gas supply planning process.

Union is the owner/operator of storage facilities at the Dawn Hub and in-franchise customers are allocated a portion of this storage to meet their seasonal gas supply needs. In the event the storage requirements of in-franchise customers are reduced and the space is no longer required, Union will remarket this storage capacity.

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association (“BOMA”)

Reference: Ibid, Page 12

Union states that one of its gas supply principles is to receive gas at various delivery points on its system, yet it receives almost all of its gas supplies at Dawn, with very modest amounts at Ojibway and Niagara, and off the TCPL mainline in Union North West. Please explain why Union does not plan to acquire more gas at Niagara and Ojibway, especially at Niagara.

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**Response:**

In the Application for Pre-Approval of the Cost Consequences of NEXUS Long-Term Contract (“NEXUS”) proceeding (EB-2015-0166/EB-2015-0175), at Exhibit B.T2.Union.Staff.17, Union provided the following response related to Niagara supply,

*“... the upstream pipelines that provide supply to Niagara are largely sold out and significant incremental infrastructure would be required to import any substantial additional Marcellus and Utica natural gas into Ontario (beyond 2015/2016) at Niagara or Chippawa. Union expects that significant incremental infrastructure would also be required on the TransCanada system to move natural gas from Niagara further into Ontario (beyond the current 2015/2016 volume of 1.4TJ/d).”*

There has been no change to the pipeline capacities in the Niagara region since the NEXUS proceeding. However, Natural Fuel Gas (“NFG”)/Empire Pipeline expansions into Niagara that were planned for 2016 have been delayed to 2017.

In the Panhandle Reinforcement proceeding at EB-2016-0186, Exhibit B.FRPO.2, Union stated that Panhandle System incremental deliveries at Ojibway are not available and would also not provide sufficient incremental capacity into the growing market area without the need for significant incremental facilities. Ojibway, like Niagara, is not a liquid trading point. It is also a trans-shipment point between pipeline systems; in this case between the Panhandle Eastern Pipe Line (“PEPL”) system in Michigan and Union’s Panhandle System. Upstream and downstream transportation capacity at Ojibway is held by a limited number of counterparties. Purchasing gas at Ojibway would be subject to availability and significant price risk.

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association ("BOMA")

Reference: Ibid, Page 13

*"The effectiveness of delivered supply to minimize pipeline facilities will depend on system hydraulics".*

Please explain this sentence, and provide examples of how and where on its system the effectiveness of delivered supply in reducing the need for pipeline facilities is constrained by hydraulics. Please define "hydraulics" (in this context) as part of the answer.

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**Response:**

The behaviour of gas flow and pressure within a pipeline system (referred to as system hydraulics) is related to demand, supply and operational changes.

*"The effectiveness of delivered supply to minimize pipeline facilities depends on system hydraulics"* means that supply must be able enter Union's system and be delivered to a location on the pipeline system where benefit will be realized on design day. The system must also be able to accept the supply during times of the year when the system's capability is lower (for example, due to reduced demand in the summer or reduction of compressor capability due to warmer weather). The supply must also be obligated and guaranteed to arrive when it is required.

Receiving gas at Ojibway is an example where Union firm sales service supply has reduced (or delayed) required facilities on the Panhandle System. There is a limit on the system benefits of gas imports availability at Ojibway due to a reduced market during the summer and a constrained ability to transport gas from Ojibway to Dawn.

Another example of the effectiveness of deliveries to minimize facilities is the obligated delivery of gas at Parkway on the Dawn Parkway System. This service has reduced the number of facilities required on the Dawn Parkway System.

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association ("BOMA")

Reference: Ibid, Page 14

*"The outcome of the annual planning process is a five-year plan that provides a monthly volumetric forecast of supplies (by transportation path) and demands and a forecast of Union's costs to serve its sales service and bundled DP customers".*

Please provide a copy of the current five year plan.

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**Response:**

Please see Attachment 1 for the five year plan, which is calculated from April 2016 to March 2021. The gas year runs from November to October, as a result in this context only 4 full calendar years can be provided.

UNION GAS LIMITED  
2016/17 Gas Supply Plan Memorandum  
Union Gas Limited - System Sales Supply Demand Balance - 2016/2017 to 2019/2020

| Line No. | Particulars (TJ)                  | 2016/2017<br>(a) | 2017/2018<br>(b) | 2018/2019<br>(c) | 2019/2020<br>(d) |
|----------|-----------------------------------|------------------|------------------|------------------|------------------|
|          | <u>South</u>                      |                  |                  |                  |                  |
|          | Demands                           |                  |                  |                  |                  |
| 1        | System Sales                      | 132,768          | 132,348          | 132,031          | 131,915          |
| 2        | South Co. Use, UFG, Comp. Fuel    | 11,281           | 12,617           | 12,582           | 12,574           |
| 3        | Less: Customer Supplied Fuel      | (8,239)          | (8,982)          | (9,150)          | (9,245)          |
| 4        | Total Demands                     | 135,810          | 135,983          | 135,463          | 135,244          |
|          | Supplies                          |                  |                  |                  |                  |
| 5        | TCPL Empress-Union CDA            | 4,585            | 1,076            | 1,076            | 1,079            |
| 6        | Alliance/Vector                   | -                | -                | -                | -                |
| 7        | Vector                            | 40,689           | 30,807           | 30,807           | 30,892           |
| 8        | TCPL Niagara-Kirkwall             | 7,702            | 7,702            | 7,702            | 7,723            |
| 9        | Trunkline                         | 7,702            | -                | -                | -                |
| 10       | Panhandle                         | 14,249           | 13,478           | 13,478           | 13,515           |
| 11       | Local Production                  | 465              | 465              | 465              | 467              |
| 12       | DTE                               | 23,105           | -                | -                | -                |
| 13       | Market Based Transport            | -                | -                | -                | -                |
| 14       | South Ojibway                     | 7,702            | 7,702            | 7,702            | -                |
| 15       | Dawn                              | 30,570           | 36,764           | 36,562           | 43,819           |
| 16       | NEXUS                             | -                | 38,510           | 38,510           | 38,615           |
| 17       | Total Supplies                    | 136,769          | 136,505          | 136,303          | 136,110          |
| 18       | Change in Inventory - wd/(inj)    | (959)            | (523)            | (840)            | (867)            |
| 19       | Total Supplies + Inventory Change | 135,810          | 135,983          | 135,463          | 135,244          |
|          | <u>North</u>                      |                  |                  |                  |                  |
|          | Demands                           |                  |                  |                  |                  |
|          | System Sales                      |                  |                  |                  |                  |
| 20       | Union NCDA                        | 3,212            | 3,234            | 3,241            | 3,242            |
| 21       | Union EDA                         | 12,739           | 12,716           | 12,578           | 12,581           |
| 22       | Union MDA                         | 489              | 495              | 513              | 514              |
| 23       | Union NDA                         | 14,636           | 14,588           | 14,683           | 14,683           |
| 24       | Union SSMDA                       | 5,101            | 5,104            | 3,642            | 3,629            |
| 25       | Union WDA                         | 8,094            | 8,118            | 8,089            | 8,090            |
| 26       | North Comp Fuel                   | 234              | 234              | 234              | 234              |
|          |                                   | 44,503           | 44,488           | 42,979           | 42,973           |
|          | Supplies                          |                  |                  |                  |                  |
| 27       | TCPL Empress-Union NCDA           | 2,002            | 2,013            | 264              | 261              |
| 28       | TCPL Empress-Union EDA            | 334              | 334              | 334              | 335              |
| 29       | TCPL Empress-Union MDA            | 489              | 495              | 514              | 514              |
| 30       | TCPL Empress-Union NDA            | 2,047            | 2,057            | 334              | 335              |
| 31       | TCPL Empress-Union SSMDA          | 2,821            | 2,823            | 1,763            | 1,192            |
| 32       | TCPL Empress-Union WDA            | 7,208            | 7,284            | 7,127            | 7,529            |
| 33       | TCPL Parkway-Union EDA            | 5,949            | 5,700            | 6,225            | 6,510            |
| 34       | TCPL Parkway-Union NDA            | 2,063            | 2,378            | 3,552            | 3,248            |
| 35       | North Vector Sale                 | 19,255           | -                | -                | -                |
| 36       | North Nexus Sale                  | -                | 19,255           | 19,255           | 19,308           |
| 37       | Dawn North                        | 2,159            | 1,528            | 2,088            | 2,088            |
| 38       | Total Supplies                    | 44,329           | 43,867           | 41,456           | 41,319           |
| 39       | Change in Inventory - wd/(inj)    | 174              | 105              | (75)             | (13)             |
| 40       | Total Supplies + Inventory Change | 44,503           | 43,972           | 41,381           | 41,306           |
| 41       | Total Demands                     | 135,810          | 135,983          | 135,463          | 135,244          |
| 42       | North                             | 44,503           | 44,488           | 42,979           | 42,973           |
|          |                                   | 180,312          | 180,470          | 178,442          | 178,216          |
| 43       | Total Supplies                    | 136,769          | 136,505          | 136,303          | 136,110          |
| 44       | North                             | 44,329           | 43,867           | 41,456           | 41,319           |
|          |                                   | 181,097          | 180,372          | 177,758          | 177,429          |
| 45       | Change in Inventory - wd/(inj)    | (959)            | (523)            | (840)            | (867)            |
| 46       | South                             | 174              | 105              | (75)             | (13)             |
|          |                                   | (785)            | (418)            | (915)            | (880)            |
| 47       | Total Supplies + Inventory Change | 180,312          | 179,954          | 176,844          | 176,549          |

UNION GAS LIMITED  
2016/17 Gas Supply Plan Memorandum  
Union Gas Limited - System Sales Supply Demand Balance - 2016/2017

| Line No. | Particulars (TJ)                  | Nov-16<br>(a) | Dec-16<br>(b) | Jan-17<br>(c) | Feb-17<br>(d) | Mar-17<br>(e) | Apr-17<br>(f) | May-17<br>(g) | Jun-17<br>(h) | Jul-17<br>(i) | Aug-17<br>(j) | Sep-17<br>(k) | Oct-17<br>(l) | Total<br>(m) |
|----------|-----------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|
|          | <u>South</u>                      |               |               |               |               |               |               |               |               |               |               |               |               |              |
|          | Demands                           |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 1        | System Sales                      | 13,355        | 19,882        | 22,659        | 20,228        | 17,438        | 10,894        | 6,066         | 3,604         | 3,489         | 3,550         | 3,842         | 7,760         | 132,768      |
| 2        | South Co. Use, UFG, Comp. Fuel    | 848           | 1,033         | 1,692         | 1,934         | 1,597         | 809           | 464           | 447           | 512           | 545           | 676           | 725           | 11,281       |
| 3        | Less: Customer Supplied Fuel      | (788)         | (1,006)       | (1,224)       | (1,057)       | (947)         | (755)         | (401)         | (386)         | (429)         | (343)         | (367)         | (537)         | (8,239)      |
| 4        | Total Demands                     | 13,416        | 19,909        | 23,127        | 21,105        | 18,088        | 10,947        | 6,129         | 3,665         | 3,572         | 3,752         | 4,150         | 7,948         | 135,810      |
|          | Supplies                          |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 5        | TCPL Empress-Union CDA            | 618           | 638           | 339           | 307           | 339           | 328           | 339           | 328           | 339           | 339           | 328           | 339           | 4,585        |
| 6        | Alliance/Vector                   | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -            |
| 7        | Vector                            | 3,198         | 5,267         | 5,267         | 4,757         | 5,267         | 2,374         | 2,453         | 2,374         | 2,453         | 2,453         | 2,374         | 2,453         | 40,689       |
| 8        | TCPL Niagara-Kirkwall             | 633           | 654           | 654           | 591           | 654           | 633           | 654           | 633           | 654           | 654           | 633           | 654           | 7,702        |
| 9        | Trunkline                         | 633           | 654           | 654           | 591           | 654           | 633           | 654           | 633           | 654           | 654           | 633           | 654           | 7,702        |
| 10       | Panhandle                         | 1,171         | 1,210         | 1,210         | 1,093         | 1,210         | 1,171         | 1,210         | 1,171         | 1,210         | 1,210         | 1,171         | 1,210         | 14,249       |
| 11       | Local Production                  | 38            | 40            | 40            | 36            | 40            | 38            | 40            | 38            | 40            | 40            | 38            | 40            | 465          |
| 12       | DTE                               | 1,899         | 1,962         | 1,962         | 1,772         | 1,962         | 1,899         | 1,962         | 1,899         | 1,962         | 1,962         | 1,899         | 1,962         | 23,105       |
| 13       | Market Based Transport            | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -            |
| 14       | South Ojibway                     | 633           | 654           | 654           | 591           | 654           | 633           | 654           | 633           | 654           | 654           | 633           | 654           | 7,702        |
| 15       | Dawn                              | 1,161         | 1,200         | 1,200         | 1,084         | 1,200         | 3,466         | 3,582         | 3,466         | 3,582         | 3,582         | 3,466         | 3,582         | 30,570       |
| 16       | NEXUS                             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -            |
| 17       | Total Supplies                    | 9,984         | 12,279        | 11,980        | 10,821        | 11,980        | 11,176        | 11,549        | 11,176        | 11,549        | 11,549        | 11,176        | 11,549        | 136,769      |
| 18       | Change in Inventory - wd/(inj)    | 3,432         | 7,630         | 11,146        | 10,284        | 6,108         | (229)         | (5,419)       | (7,511)       | (7,977)       | (7,796)       | (7,026)       | (3,600)       | (959)        |
| 19       | Total Supplies + Inventory Change | 13,416        | 19,909        | 23,127        | 21,105        | 18,088        | 10,947        | 6,129         | 3,665         | 3,572         | 3,752         | 4,150         | 7,948         | 135,810      |
|          | <u>North</u>                      |               |               |               |               |               |               |               |               |               |               |               |               |              |
|          | Demands                           |               |               |               |               |               |               |               |               |               |               |               |               |              |
|          | System Sales                      |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 20       | Union NCDA                        | 320           | 468           | 592           | 493           | 403           | 254           | 140           | 88            | 82            | 77            | 95            | 198           | 3,212        |
| 21       | Union EDA                         | 1,250         | 1,776         | 2,316         | 1,985         | 1,644         | 1,053         | 586           | 371           | 314           | 300           | 381           | 762           | 12,739       |
| 22       | Union MDA                         | 50            | 72            | 91            | 77            | 64            | 40            | 21            | 12            | 11            | 10            | 13            | 28            | 489          |
| 23       | Union NDA                         | 1,464         | 2,130         | 2,670         | 2,237         | 1,858         | 1,208         | 687           | 394           | 361           | 340           | 402           | 884           | 14,636       |
| 24       | Union SSMDA                       | 380           | 540           | 675           | 583           | 530           | 326           | 839           | 582           | 206           | 109           | 113           | 218           | 5,101        |
| 25       | Union WDA                         | 805           | 1,144         | 1,407         | 1,211         | 989           | 659           | 433           | 285           | 243           | 242           | 229           | 446           | 8,094        |
| 26       | North Comp Fuel                   | 10            | 3             | 10            | 5             | 3             | 15            | 32            | 31            | 32            | 32            | 31            | 32            | 234          |
|          |                                   | 4,279         | 6,134         | 7,761         | 6,591         | 5,491         | 3,554         | 2,739         | 1,762         | 1,248         | 1,111         | 1,263         | 2,569         | 44,503       |
|          | Supplies                          |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 27       | TCPL Empress-Union NCDA           | 179           | 185           | 185           | 168           | -             | 180           | 186           | 180           | 186           | 186           | 180           | 186           | 2,002        |
| 28       | TCPL Empress-Union EDA            | 30            | 31            | 31            | 28            | -             | 30            | 31            | 30            | 31            | 31            | 30            | 31            | 334          |
| 29       | TCPL Empress-Union MDA            | 53            | 78            | 99            | 84            | 69            | 39            | 17            | 7             | 5             | 4             | 8             | 26            | 489          |
| 30       | TCPL Empress-Union NDA            | 183           | 189           | 190           | 172           | -             | 184           | 190           | 184           | 190           | 190           | 184           | 190           | 2,047        |
| 31       | TCPL Empress-Union SSMDA          | 415           | 554           | -             | -             | -             | 330           | 554           | 524           | 134           | 37            | 63            | 209           | 2,821        |
| 32       | TCPL Empress-Union WDA            | 949           | 1,246         | 1,403         | 777           | 74            | 763           | 476           | 291           | 238           | 239           | 238           | 515           | 7,208        |
| 33       | TCPL Parkway-Union EDA            | 554           | 576           | 529           | 432           | -             | 551           | 527           | 623           | 551           | 503           | 504           | 600           | 5,949        |
| 34       | TCPL Parkway-Union NDA            | 169           | 168           | 216           | 240           | -             | 168           | 215           | 96            | 192           | 240           | 216           | 144           | 2,063        |
| 35       | North Vector Sale                 | 1,583         | 1,635         | 1,635         | 1,477         | 1,635         | 1,583         | 1,635         | 1,583         | 1,635         | 1,635         | 1,583         | 1,635         | 19,255       |
| 36       | North Nexus Sale                  | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -            |
| 37       | Dawn North                        | -             | -             | -             | -             | -             | 303           | 313           | 303           | 313           | 313           | 303           | 313           | 2,159        |
|          |                                   | 4,115         | 4,662         | 4,289         | 3,378         | 1,778         | 4,131         | 4,145         | 3,820         | 3,475         | 3,379         | 3,308         | 3,849         | 44,329       |
| 38       | Total Supplies                    | 4,115         | 4,662         | 4,289         | 3,378         | 1,778         | 4,131         | 4,145         | 3,820         | 3,475         | 3,379         | 3,308         | 3,849         | 44,329       |
| 39       | Change in Inventory - wd/(inj)    | 164           | 1,472         | 3,472         | 3,213         | 3,713         | (576)         | (1,406)       | (2,058)       | (2,227)       | (2,268)       | (2,045)       | (1,280)       | 174          |
| 40       | Total Supplies + Inventory Change | 4,279         | 6,134         | 7,761         | 6,591         | 5,491         | 3,554         | 2,739         | 1,762         | 1,248         | 1,111         | 1,263         | 2,569         | 44,503       |
|          | Total Demands                     |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 41       | South                             | 13,416        | 19,909        | 23,127        | 21,105        | 18,088        | 10,947        | 6,129         | 3,665         | 3,572         | 3,752         | 4,150         | 7,948         | 135,810      |
| 42       | North                             | 4,279         | 6,134         | 7,761         | 6,591         | 5,491         | 3,554         | 2,739         | 1,762         | 1,248         | 1,111         | 1,263         | 2,569         | 44,503       |
|          |                                   | 17,695        | 26,044        | 30,888        | 27,696        | 23,580        | 14,501        | 8,868         | 5,427         | 4,820         | 4,863         | 5,414         | 10,517        | 180,312      |
|          | Total Supplies                    |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 43       | South                             | 9,984         | 12,279        | 11,980        | 10,821        | 11,980        | 11,176        | 11,549        | 11,176        | 11,549        | 11,549        | 11,176        | 11,549        | 136,769      |
| 44       | North                             | 4,115         | 4,662         | 4,289         | 3,378         | 1,778         | 4,131         | 4,145         | 3,820         | 3,475         | 3,379         | 3,308         | 3,849         | 44,329       |
|          |                                   | 14,099        | 16,942        | 16,269        | 14,199        | 13,759        | 15,307        | 15,694        | 14,996        | 15,024        | 14,927        | 14,485        | 15,398        | 181,097      |
|          | Change in Inventory - wd/(inj)    |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 45       | South                             | 3,432         | 7,630         | 11,146        | 10,284        | 6,108         | (229)         | (5,419)       | (7,511)       | (7,977)       | (7,796)       | (7,026)       | (3,600)       | (959)        |
| 46       | North                             | 164           | 1,472         | 3,472         | 3,213         | 3,713         | (576)         | (1,406)       | (2,058)       | (2,227)       | (2,268)       | (2,045)       | (1,280)       | 174          |
|          |                                   | 3,596         | 9,102         | 14,619        | 13,497        | 9,821         | (805)         | (6,825)       | (9,569)       | (10,203)      | (10,064)      | (9,071)       | (4,881)       | (785)        |
| 47       | Total Supplies + Inventory Change | 17,695        | 26,044        | 30,888        | 27,696        | 23,580        | 14,501        | 8,868         | 5,427         | 4,820         | 4,863         | 5,414         | 10,517        | 180,312      |

UNION GAS LIMITED  
2016/17 Gas Supply Plan Memorandum  
Union Gas Limited - System Sales Supply Demand Balance - 2017/2018

| Line No. | Particulars (TJ)                  | Nov-17<br>(a) | Dec-17<br>(b) | Jan-18<br>(c) | Feb-18<br>(d) | Mar-18<br>(e) | Apr-18<br>(f) | May-18<br>(g) | Jun-18<br>(h) | Jul-18<br>(i) | Aug-18<br>(j) | Sep-18<br>(k) | Oct-18<br>(l) | Total<br>(m) |
|----------|-----------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|
|          | <u>South</u>                      |               |               |               |               |               |               |               |               |               |               |               |               |              |
|          | Demands                           |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 1        | System Sales                      | 13,358        | 19,833        | 22,581        | 20,173        | 17,384        | 10,854        | 6,038         | 3,583         | 3,471         | 3,529         | 3,818         | 7,726         | 132,348      |
| 2        | South Co. Use, UFG, Comp. Fuel    | 1,060         | 1,516         | 1,874         | 2,030         | 1,807         | 867           | 485           | 467           | 534           | 558           | 720           | 699           | 12,617       |
| 3        | Less: Customer Supplied Fuel      | (788)         | (1,006)       | (1,350)       | (1,222)       | (1,035)       | (833)         | (438)         | (435)         | (479)         | (377)         | (424)         | (595)         | (8,982)      |
| 4        | Total Demands                     | 13,630        | 20,343        | 23,104        | 20,982        | 18,155        | 10,888        | 6,085         | 3,614         | 3,527         | 3,710         | 4,115         | 7,830         | 135,983      |
|          | Supplies                          |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 5        | TCPL Empress-Union CDA            | 88            | 91            | 91            | 83            | 91            | 88            | 91            | 88            | 91            | 91            | 88            | 91            | 1,076        |
| 6        | Alliance/Vector                   | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -            |
| 7        | Vector                            | 2,532         | 2,617         | 2,617         | 2,363         | 2,617         | 2,532         | 2,617         | 2,532         | 2,617         | 2,617         | 2,532         | 2,617         | 30,807       |
| 8        | TCPL Niagara-Kirkwall             | 633           | 654           | 654           | 591           | 654           | 633           | 654           | 633           | 654           | 654           | 633           | 654           | 7,702        |
| 9        | Trunkline                         | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -            |
| 10       | Panhandle                         | 1,108         | 1,145         | 1,145         | 1,034         | 1,145         | 1,108         | 1,145         | 1,108         | 1,145         | 1,145         | 1,108         | 1,145         | 13,478       |
| 11       | Local Production                  | 38            | 40            | 40            | 36            | 40            | 38            | 40            | 38            | 40            | 40            | 38            | 40            | 465          |
| 12       | DTE                               | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -            |
| 13       | Market Based Transport            | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -            |
| 14       | South Ojibway                     | 633           | 654           | 654           | 591           | 654           | 633           | 654           | 633           | 654           | 654           | 633           | 654           | 7,702        |
| 15       | Dawn                              | 3,229         | 3,336         | 3,336         | 3,013         | 3,336         | 2,876         | 2,972         | 2,876         | 2,972         | 2,972         | 2,876         | 2,972         | 36,764       |
| 16       | NEXUS                             | 3,165         | 3,271         | 3,271         | 2,954         | 3,271         | 3,165         | 3,271         | 3,165         | 3,271         | 3,271         | 3,165         | 3,271         | 38,510       |
| 17       | Total Supplies                    | 11,426        | 11,807        | 11,807        | 10,665        | 11,807        | 11,074        | 11,443        | 11,074        | 11,443        | 11,443        | 11,074        | 11,443        | 136,505      |
| 18       | Change in Inventory - wd/(inj)    | 2,203         | 8,536         | 11,297        | 10,317        | 6,348         | (186)         | (5,358)       | (7,459)       | (7,916)       | (7,733)       | (6,959)       | (3,613)       | (523)        |
| 19       | Total Supplies + Inventory Change | 13,630        | 20,343        | 23,104        | 20,982        | 18,155        | 10,888        | 6,085         | 3,614         | 3,527         | 3,710         | 4,115         | 7,830         | 135,983      |
|          | <u>North</u>                      |               |               |               |               |               |               |               |               |               |               |               |               |              |
|          | Demands                           |               |               |               |               |               |               |               |               |               |               |               |               |              |
|          | System Sales                      |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 20       | Union NCDA                        | 325           | 472           | 586           | 502           | 402           | 255           | 143           | 93            | 83            | 78            | 95            | 200           | 3,234        |
| 21       | Union EDA                         | 1,264         | 1,789         | 2,316         | 1,987         | 1,644         | 1,041         | 585           | 370           | 306           | 292           | 369           | 750           | 12,716       |
| 22       | Union MDA                         | 51            | 74            | 92            | 77            | 64            | 40            | 21            | 12            | 12            | 11            | 14            | 29            | 495          |
| 23       | Union NDA                         | 1,466         | 2,126         | 2,657         | 2,227         | 1,849         | 1,187         | 682           | 388           | 364           | 344           | 407           | 890           | 14,588       |
| 24       | Union SSMDA                       | 382           | 541           | 675           | 584           | 529           | 322           | 842           | 582           | 206           | 109           | 113           | 218           | 5,104        |
| 25       | Union WDA                         | 821           | 1,159         | 1,409         | 1,214         | 991           | 654           | 434           | 285           | 242           | 241           | 226           | 444           | 8,118        |
| 26       | North Comp Fuel                   | 10            | 3             | 10            | 5             | 3             | 15            | 32            | 31            | 32            | 32            | 31            | 32            | 234          |
|          |                                   | 4,319         | 6,164         | 7,745         | 6,596         | 5,483         | 3,513         | 2,738         | 1,761         | 1,245         | 1,106         | 1,256         | 2,563         | 44,488       |
|          | Supplies                          |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 27       | TCPL Empress-Union NCDA           | 181           | 187           | 187           | 169           | -             | 181           | 187           | 181           | 187           | 187           | 181           | 187           | 2,013        |
| 28       | TCPL Empress-Union EDA            | 30            | 31            | 31            | 28            | -             | 30            | 31            | 30            | 31            | 31            | 30            | 31            | 334          |
| 29       | TCPL Empress-Union MDA            | 53            | 79            | 100           | 84            | 69            | 40            | 17            | 6             | 6             | 5             | 9             | 27            | 495          |
| 30       | TCPL Empress-Union NDA            | 185           | 191           | 191           | 172           | -             | 185           | 191           | 185           | 191           | 191           | 185           | 191           | 2,057        |
| 31       | TCPL Empress-Union SSMDA          | 415           | 556           | -             | -             | -             | 326           | 556           | 525           | 135           | 38            | 64            | 209           | 2,823        |
| 32       | TCPL Empress-Union WDA            | 876           | 1,263         | 1,026         | 1,270         | 40            | 767           | 487           | 300           | 244           | 245           | 243           | 523           | 7,284        |
| 33       | TCPL Parkway-Union EDA            | 527           | 457           | 580           | 439           | -             | 443           | 460           | 537           | 515           | 539           | 590           | 614           | 5,700        |
| 34       | TCPL Parkway-Union NDA            | 166           | 263           | 145           | 218           | -             | 306           | 296           | 204           | 252           | 228           | 149           | 150           | 2,378        |
| 35       | North Vector Sale                 | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -            |
| 36       | North Nexus Sale                  | 1,583         | 1,635         | 1,635         | 1,477         | 1,635         | 1,583         | 1,635         | 1,583         | 1,635         | 1,635         | 1,583         | 1,635         | 19,255       |
| 37       | Dawn North                        | -             | -             | -             | -             | -             | 214           | 221           | 214           | 221           | 221           | 214           | 221           | 1,528        |
|          |                                   | 4,015         | 4,661         | 3,894         | 3,856         | 1,744         | 4,074         | 4,082         | 3,765         | 3,416         | 3,321         | 3,248         | 3,789         | 43,867       |
| 38       | Total Supplies                    | 4,015         | 4,661         | 3,894         | 3,856         | 1,744         | 4,074         | 4,082         | 3,765         | 3,416         | 3,321         | 3,248         | 3,789         | 43,867       |
| 39       | Change in Inventory - wd/(inj)    | 252           | 1,453         | 3,804         | 2,700         | 3,739         | (597)         | (1,400)       | (2,050)       | (2,218)       | (2,260)       | (2,040)       | (1,277)       | 105          |
| 40       | Total Supplies + Inventory Change | 4,267         | 6,114         | 7,699         | 6,556         | 5,483         | 3,477         | 2,682         | 1,715         | 1,199         | 1,060         | 1,208         | 2,513         | 43,972       |
|          | Total Demands                     |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 41       | South                             | 13,630        | 20,343        | 23,104        | 20,982        | 18,155        | 10,888        | 6,085         | 3,614         | 3,527         | 3,710         | 4,115         | 7,830         | 135,983      |
| 42       | North                             | 4,319         | 6,164         | 7,745         | 6,596         | 5,483         | 3,513         | 2,738         | 1,761         | 1,245         | 1,106         | 1,256         | 2,563         | 44,488       |
|          |                                   | 17,949        | 26,507        | 30,849        | 27,578        | 23,638        | 14,401        | 8,823         | 5,375         | 4,771         | 4,816         | 5,370         | 10,393        | 180,470      |
|          | Total Supplies                    |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 43       | South                             | 11,426        | 11,807        | 11,807        | 10,665        | 11,807        | 11,074        | 11,443        | 11,074        | 11,443        | 11,443        | 11,074        | 11,443        | 136,505      |
| 44       | North                             | 4,015         | 4,661         | 3,894         | 3,856         | 1,744         | 4,074         | 4,082         | 3,765         | 3,416         | 3,321         | 3,248         | 3,789         | 43,867       |
|          |                                   | 15,442        | 16,469        | 15,701        | 14,521        | 13,551        | 15,148        | 15,525        | 14,839        | 14,859        | 14,763        | 14,322        | 15,232        | 180,372      |
|          | Change in Inventory - wd/(inj)    |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 45       | South                             | 2,203         | 8,536         | 11,297        | 10,317        | 6,348         | (186)         | (5,358)       | (7,459)       | (7,916)       | (7,733)       | (6,959)       | (3,613)       | (523)        |
| 46       | North                             | 252           | 1,453         | 3,804         | 2,700         | 3,739         | (597)         | (1,400)       | (2,050)       | (2,218)       | (2,260)       | (2,040)       | (1,277)       | 105          |
|          |                                   | 2,455         | 9,988         | 15,101        | 13,017        | 10,087        | (783)         | (6,757)       | (9,510)       | (10,134)      | (9,993)       | (8,999)       | (4,890)       | (418)        |
| 47       | Total Supplies + Inventory Change | 17,897        | 26,457        | 30,803        | 27,538        | 23,638        | 14,365        | 8,767         | 5,329         | 4,725         | 4,770         | 5,322         | 10,343        | 179,954      |

UNION GAS LIMITED  
2016/17 Gas Supply Plan Memorandum  
Union Gas Limited - System Sales Supply Demand Balance - 2018/2019

| Line No. | Particulars (TJ)                  | Nov-18<br>(a) | Dec-18<br>(b) | Jan-19<br>(c) | Feb-19<br>(d) | Mar-19<br>(e) | Apr-19<br>(f) | May-19<br>(g) | Jun-19<br>(h) | Jul-19<br>(i) | Aug-19<br>(j) | Sep-19<br>(k) | Oct-19<br>(l) | Total<br>(m) |
|----------|-----------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|
|          | <u>South</u>                      |               |               |               |               |               |               |               |               |               |               |               |               |              |
|          | Demands                           |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 1        | System Sales                      | 13,321        | 19,799        | 22,570        | 20,155        | 17,363        | 10,832        | 6,012         | 3,556         | 3,450         | 3,502         | 3,787         | 7,683         | 132,031      |
| 2        | South Co. Use, UFG, Comp. Fuel    | 1,069         | 1,514         | 1,870         | 2,026         | 1,803         | 863           | 481           | 463           | 530           | 554           | 716           | 695           | 12,582       |
| 3        | Less: Customer Supplied Fuel      | (815)         | (1,020)       | (1,370)       | (1,286)       | (1,043)       | (834)         | (438)         | (439)         | (484)         | (381)         | (438)         | (603)         | (9,150)      |
| 4        | Total Demands                     | 13,575        | 20,293        | 23,070        | 20,895        | 18,123        | 10,860        | 6,055         | 3,580         | 3,496         | 3,675         | 4,065         | 7,775         | 135,463      |
|          | Supplies                          |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 5        | TCPL Empress-Union CDA            | 88            | 91            | 91            | 83            | 91            | 88            | 91            | 88            | 91            | 91            | 88            | 91            | 1,076        |
| 6        | Alliance/Vector                   | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -            |
| 7        | Vector                            | 2,532         | 2,617         | 2,617         | 2,363         | 2,617         | 2,532         | 2,617         | 2,532         | 2,617         | 2,617         | 2,532         | 2,617         | 30,807       |
| 8        | TCPL Niagara-Kirkwall             | 633           | 654           | 654           | 591           | 654           | 633           | 654           | 633           | 654           | 654           | 633           | 654           | 7,702        |
| 9        | Trunkline                         | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -            |
| 10       | Panhandle                         | 1,108         | 1,145         | 1,145         | 1,034         | 1,145         | 1,108         | 1,145         | 1,108         | 1,145         | 1,145         | 1,108         | 1,145         | 13,478       |
| 11       | Local Production                  | 38            | 40            | 40            | 36            | 40            | 38            | 40            | 38            | 40            | 40            | 38            | 40            | 465          |
| 12       | DTE                               | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -            |
| 13       | Market Based Transport            | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -            |
| 14       | South Ojibway                     | 633           | 654           | 654           | 591           | 654           | 633           | 654           | 633           | 654           | 654           | 633           | 654           | 7,702        |
| 15       | Dawn                              | 3,273         | 3,382         | 3,382         | 3,055         | 3,382         | 2,816         | 2,910         | 2,816         | 2,910         | 2,910         | 2,816         | 2,910         | 36,562       |
| 16       | NEXUS                             | 3,165         | 3,271         | 3,271         | 2,954         | 3,271         | 3,165         | 3,271         | 3,165         | 3,271         | 3,271         | 3,165         | 3,271         | 38,510       |
| 17       | Total Supplies                    | 11,471        | 11,853        | 11,853        | 10,706        | 11,853        | 11,014        | 11,381        | 11,014        | 11,381        | 11,381        | 11,014        | 11,381        | 136,303      |
| 18       | Change in Inventory - wd/(inj)    | 2,104         | 8,440         | 11,217        | 10,189        | 6,270         | (154)         | (5,326)       | (7,434)       | (7,885)       | (7,706)       | (6,949)       | (3,606)       | (840)        |
| 19       | Total Supplies + Inventory Change | 13,575        | 20,293        | 23,070        | 20,895        | 18,123        | 10,860        | 6,055         | 3,580         | 3,496         | 3,675         | 4,065         | 7,775         | 135,463      |
|          | <u>North</u>                      |               |               |               |               |               |               |               |               |               |               |               |               |              |
|          | Demands                           |               |               |               |               |               |               |               |               |               |               |               |               |              |
|          | System Sales                      |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 20       | Union NCDA                        | 326           | 473           | 587           | 504           | 403           | 256           | 143           | 93            | 83            | 78            | 95            | 201           | 3,241        |
| 21       | Union EDA                         | 1,247         | 1,767         | 2,293         | 1,967         | 1,626         | 1,027         | 576           | 361           | 305           | 291           | 369           | 749           | 12,578       |
| 22       | Union MDA                         | 53            | 76            | 96            | 79            | 67            | 42            | 22            | 13            | 11            | 11            | 14            | 29            | 513          |
| 23       | Union NDA                         | 1,475         | 2,137         | 2,680         | 2,247         | 1,866         | 1,198         | 687           | 393           | 363           | 343           | 406           | 889           | 14,683       |
| 24       | Union SSMDA                       | 382           | 529           | 650           | 550           | 466           | 291           | 197           | 92            | 86            | 83            | 102           | 215           | 3,642        |
| 25       | Union WDA                         | 818           | 1,153         | 1,405         | 1,210         | 987           | 650           | 431           | 283           | 241           | 240           | 226           | 443           | 8,089        |
| 26       | North Comp Fuel                   | 10            | 3             | 10            | 5             | 3             | 15            | 32            | 31            | 32            | 32            | 31            | 32            | 234          |
|          |                                   | 4,310         | 6,139         | 7,721         | 6,563         | 5,417         | 3,478         | 2,087         | 1,265         | 1,121         | 1,078         | 1,242         | 2,558         | 42,979       |
|          | Supplies                          |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 27       | TCPL Empress-Union NCDA           | 30            | 31            | 31            | 28            | -             | 30            | 31            | 22            | 5             |               | 26            | 31            | 264          |
| 28       | TCPL Empress-Union EDA            | 30            | 31            | 31            | 28            | -             | 30            | 31            | 30            | 31            | 31            | 30            | 31            | 334          |
| 29       | TCPL Empress-Union MDA            | 55            | 81            | 104           | 86            | 72            | 42            | 19            | 8             | 6             | 5             | 9             | 27            | 514          |
| 30       | TCPL Empress-Union NDA            | 30            | 31            | 31            | 28            | -             | 30            | 31            | 30            | 31            | 31            | 30            | 31            | 334          |
| 31       | TCPL Empress-Union SSMDA          | 414           | 557           | -             | -             | -             | 295           | 175           | 36            | 15            | 12            | 53            | 206           | 1,763        |
| 32       | TCPL Empress-Union WDA            | 973           | 1,262         | 793           | 1,270         | 34            | 762           | 484           | 298           | 243           | 244           | 242           | 521           | 7,127        |
| 33       | TCPL Parkway-Union EDA            | 667           | 565           | 679           | 414           | -             | 650           | 521           | 435           | 480           | 567           | 591           | 655           | 6,225        |
| 34       | TCPL Parkway-Union NDA            | 263           | 408           | 288           | 476           | -             | 293           | 368           | 340           | 340           | 253           | 205           | 319           | 3,552        |
| 35       | North Vector Sale                 | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -            |
| 36       | North Nexus Sale                  | 1,583         | 1,635         | 1,635         | 1,477         | 1,635         | 1,583         | 1,635         | 1,583         | 1,635         | 1,635         | 1,583         | 1,635         | 19,255       |
| 37       | Dawn North                        | -             | -             | -             | -             | -             | 293           | 302           | 293           | 302           | 302           | 293           | 302           | 2,088        |
| 38       | Total Supplies                    | 4,045         | 4,602         | 3,592         | 3,808         | 1,741         | 4,008         | 3,598         | 3,073         | 3,088         | 3,081         | 3,061         | 3,760         | 41,456       |
| 39       | Change in Inventory - wd/(inj)    | 111           | 1,390         | 3,975         | 2,632         | 3,676         | (685)         | (1,646)       | (1,971)       | (2,116)       | (2,153)       | (1,961)       | (1,327)       | (75)         |
| 40       | Total Supplies + Inventory Change | 4,155         | 5,992         | 7,567         | 6,439         | 5,417         | 3,323         | 1,952         | 1,101         | 972           | 929           | 1,100         | 2,433         | 41,381       |
| 41       | Total Demands                     | 13,575        | 20,293        | 23,070        | 20,895        | 18,123        | 10,860        | 6,055         | 3,580         | 3,496         | 3,675         | 4,065         | 7,775         | 135,463      |
| 42       | North                             | 4,310         | 6,139         | 7,721         | 6,563         | 5,417         | 3,478         | 2,087         | 1,265         | 1,121         | 1,078         | 1,242         | 2,558         | 42,979       |
|          |                                   | 17,885        | 26,432        | 30,791        | 27,458        | 23,541        | 14,339        | 8,142         | 4,845         | 4,617         | 4,753         | 5,307         | 10,333        | 178,442      |
| 43       | Total Supplies                    | 11,471        | 11,853        | 11,853        | 10,706        | 11,853        | 11,014        | 11,381        | 11,014        | 11,381        | 11,381        | 11,014        | 11,381        | 136,303      |
| 44       | North                             | 4,045         | 4,602         | 3,592         | 3,808         | 1,741         | 4,008         | 3,598         | 3,073         | 3,088         | 3,081         | 3,061         | 3,760         | 41,456       |
|          |                                   | 15,516        | 16,455        | 15,445        | 14,514        | 13,595        | 15,022        | 14,979        | 14,087        | 14,469        | 14,463        | 14,075        | 15,141        | 177,758      |
| 45       | Change in Inventory - wd/(inj)    | 2,104         | 8,440         | 11,217        | 10,189        | 6,270         | (154)         | (5,326)       | (7,434)       | (7,885)       | (7,706)       | (6,949)       | (3,606)       | (840)        |
| 46       | North                             | 111           | 1,390         | 3,975         | 2,632         | 3,676         | (685)         | (1,646)       | (1,971)       | (2,116)       | (2,153)       | (1,961)       | (1,327)       | (75)         |
|          |                                   | 2,215         | 9,830         | 15,191        | 12,821        | 9,946         | (838)         | (6,972)       | (9,405)       | (10,001)      | (9,859)       | (8,910)       | (4,933)       | (915)        |
| 47       | Total Supplies + Inventory Change | 17,731        | 26,285        | 30,636        | 27,334        | 23,541        | 14,183        | 8,007         | 4,681         | 4,468         | 4,604         | 5,165         | 10,208        | 176,844      |

UNION GAS LIMITED  
2016/17 Gas Supply Plan Memorandum  
Union Gas Limited - System Sales Supply Demand Balance - 2019/2020

| Line No. | Particulars (TJ)                  | Nov-19<br>(a) | Dec-19<br>(b) | Jan-20<br>(c) | Feb-20<br>(d) | Mar-20<br>(e) | Apr-20<br>(f) | May-20<br>(g) | Jun-20<br>(h) | Jul-20<br>(i) | Aug-20<br>(j) | Sep-20<br>(k) | Oct-20<br>(l) | Total<br>(m) |
|----------|-----------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|
|          | <u>South</u>                      |               |               |               |               |               |               |               |               |               |               |               |               |              |
|          | Demands                           |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 1        | System Sales                      | 13,269        | 19,735        | 22,570        | 20,155        | 17,363        | 10,832        | 6,012         | 3,556         | 3,450         | 3,502         | 3,787         | 7,683         | 131,915      |
| 2        | South Co. Use, UFG, Comp. Fuel    | 1,064         | 1,510         | 1,870         | 2,026         | 1,803         | 863           | 481           | 463           | 530           | 554           | 716           | 695           | 12,574       |
| 3        | Less: Customer Supplied Fuel      | (840)         | (1,044)       | (1,370)       | (1,332)       | (1,043)       | (834)         | (438)         | (439)         | (484)         | (381)         | (438)         | (603)         | (9,245)      |
| 4        | Total Demands                     | 13,493        | 20,202        | 23,070        | 20,849        | 18,123        | 10,860        | 6,055         | 3,580         | 3,496         | 3,675         | 4,065         | 7,775         | 135,244      |
|          | Supplies                          |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 5        | TCPL Empress-Union CDA            | 88            | 91            | 91            | 86            | 91            | 88            | 91            | 88            | 91            | 91            | 88            | 91            | 1,079        |
| 6        | Alliance/Vector                   | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -            |
| 7        | Vector                            | 2,532         | 2,617         | 2,617         | 2,448         | 2,617         | 2,532         | 2,617         | 2,532         | 2,617         | 2,617         | 2,532         | 2,617         | 30,892       |
| 8        | TCPL Niagara-Kirkwall             | 633           | 654           | 654           | 612           | 654           | 633           | 654           | 633           | 654           | 654           | 633           | 654           | 7,723        |
| 9        | Trunkline                         | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -            |
| 10       | Panhandle                         | 1,108         | 1,145         | 1,145         | 1,071         | 1,145         | 1,108         | 1,145         | 1,108         | 1,145         | 1,145         | 1,108         | 1,145         | 13,515       |
| 11       | Local Production                  | 38            | 40            | 40            | 37            | 40            | 38            | 40            | 38            | 40            | 40            | 38            | 40            | 467          |
| 12       | DTE                               | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -            |
| 13       | Market Based Transport            | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -            |
| 14       | South Ojibway                     | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -            |
| 15       | Dawn                              | 3,818         | 3,945         | 3,818         | 3,690         | 3,945         | 3,449         | 3,564         | 3,449         | 3,564         | 3,564         | 3,449         | 3,564         | 43,819       |
| 16       | NEXUS                             | 3,165         | 3,271         | 3,271         | 3,060         | 3,271         | 3,165         | 3,271         | 3,165         | 3,271         | 3,271         | 3,165         | 3,271         | 38,615       |
| 17       | Total Supplies                    | 11,382        | 11,762        | 11,635        | 11,003        | 11,762        | 11,014        | 11,381        | 11,014        | 11,381        | 11,381        | 11,014        | 11,381        | 136,110      |
| 18       | Change in Inventory - wd/(inj)    | 2,111         | 8,440         | 11,435        | 9,846         | 6,361         | (154)         | (5,326)       | (7,434)       | (7,885)       | (7,706)       | (6,949)       | (3,606)       | (867)        |
| 19       | Total Supplies + Inventory Change | 13,493        | 20,202        | 23,070        | 20,849        | 18,123        | 10,860        | 6,055         | 3,580         | 3,496         | 3,675         | 4,065         | 7,775         | 135,244      |
|          | <u>North</u>                      |               |               |               |               |               |               |               |               |               |               |               |               |              |
|          | Demands                           |               |               |               |               |               |               |               |               |               |               |               |               |              |
|          | System Sales                      |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 20       | Union NCDA                        | 326           | 474           | 587           | 504           | 403           | 256           | 143           | 93            | 83            | 78            | 95            | 201           | 3,242        |
| 21       | Union EDA                         | 1,247         | 1,770         | 2,293         | 1,967         | 1,626         | 1,027         | 576           | 361           | 305           | 291           | 369           | 749           | 12,581       |
| 22       | Union MDA                         | 53            | 76            | 96            | 79            | 67            | 42            | 22            | 13            | 11            | 11            | 14            | 29            | 514          |
| 23       | Union NDA                         | 1,475         | 2,136         | 2,680         | 2,247         | 1,866         | 1,198         | 687           | 393           | 363           | 343           | 406           | 889           | 14,683       |
| 24       | Union SSMDA                       | 369           | 529           | 650           | 550           | 466           | 291           | 197           | 92            | 86            | 83            | 102           | 215           | 3,629        |
| 25       | Union WDA                         | 818           | 1,154         | 1,405         | 1,210         | 987           | 650           | 431           | 283           | 241           | 240           | 226           | 443           | 8,090        |
| 26       | North Comp Fuel                   | 10            | 3             | 10            | 5             | 3             | 15            | 32            | 31            | 32            | 32            | 31            | 32            | 234          |
|          |                                   | 4,300         | 6,142         | 7,721         | 6,563         | 5,417         | 3,478         | 2,087         | 1,265         | 1,121         | 1,078         | 1,242         | 2,558         | 42,973       |
|          | Supplies                          |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 27       | TCPL Empress-Union NCDA           | 30            | 31            | 31            | 29            | -             | 30            | 31            | 22            | -             |               | 26            | 31            | 261          |
| 28       | TCPL Empress-Union EDA            | 30            | 31            | 31            | 29            | -             | 30            | 31            | 30            | 31            | 31            | 30            | 31            | 335          |
| 29       | TCPL Empress-Union MDA            | 56            | 81            | 104           | 86            | 72            | 42            | 19            | 8             | 6             | 5             | 9             | 27            | 514          |
| 30       | TCPL Empress-Union NDA            | 30            | 31            | 31            | 29            | -             | 30            | 31            | 30            | 31            | 31            | 30            | 31            | 335          |
| 31       | TCPL Empress-Union SSMDA          | 401           | -             | -             | -             | -             | 295           | 175           | 36            | 15            | 12            | 53            | 206           | 1,192        |
| 32       | TCPL Empress-Union WDA            | 971           | 1,261         | 1,406         | 1,062         | 34            | 762           | 484           | 298           | 243           | 244           | 242           | 521           | 7,529        |
| 33       | TCPL Parkway-Union EDA            | 758           | 549           | 565           | 573           | -             | 648           | 566           | 557           | 525           | 463           | 567           | 738           | 6,510        |
| 34       | TCPL Parkway-Union NDA            | 192           | 405           | 409           | 317           | -             | 282           | 295           | 260           | 272           | 378           | 243           | 196           | 3,248        |
| 35       | North Vector Sale                 | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -             | -            |
| 36       | North Nexus Sale                  | 1,583         | 1,635         | 1,635         | 1,530         | 1,635         | 1,583         | 1,635         | 1,583         | 1,635         | 1,635         | 1,583         | 1,635         | 19,308       |
| 37       | Dawn North                        | -             | -             | -             | -             | -             | 293           | 302           | 293           | 302           | 302           | 293           | 302           | 2,088        |
|          |                                   | 4,050         | 4,024         | 4,213         | 3,655         | 1,741         | 3,993         | 3,569         | 3,115         | 3,060         | 3,103         | 3,075         | 3,719         | 41,319       |
| 38       | Total Supplies                    | 4,050         | 4,024         | 4,213         | 3,655         | 1,741         | 3,993         | 3,569         | 3,115         | 3,060         | 3,103         | 3,075         | 3,719         | 41,319       |
| 39       | Change in Inventory - wd/(inj)    | 112           | 1,948         | 3,361         | 2,748         | 3,676         | (685)         | (1,646)       | (1,971)       | (2,116)       | (2,153)       | (1,961)       | (1,327)       | (13)         |
| 40       | Total Supplies + Inventory Change | 4,162         | 5,972         | 7,574         | 6,404         | 5,417         | 3,309         | 1,923         | 1,144         | 944           | 950           | 1,114         | 2,393         | 41,306       |
|          | Total Demands                     |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 41       | South                             | 13,493        | 20,202        | 23,070        | 20,849        | 18,123        | 10,860        | 6,055         | 3,580         | 3,496         | 3,675         | 4,065         | 7,775         | 135,244      |
| 42       | North                             | 4,300         | 6,142         | 7,721         | 6,563         | 5,417         | 3,478         | 2,087         | 1,265         | 1,121         | 1,078         | 1,242         | 2,558         | 42,973       |
|          |                                   | 17,793        | 26,344        | 30,791        | 27,412        | 23,541        | 14,339        | 8,142         | 4,845         | 4,617         | 4,753         | 5,307         | 10,333        | 178,216      |
|          | Total Supplies                    |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 43       | South                             | 11,382        | 11,762        | 11,635        | 11,003        | 11,762        | 11,014        | 11,381        | 11,014        | 11,381        | 11,381        | 11,014        | 11,381        | 136,110      |
| 44       | North                             | 4,050         | 4,024         | 4,213         | 3,655         | 1,741         | 3,993         | 3,569         | 3,115         | 3,060         | 3,103         | 3,075         | 3,719         | 41,319       |
|          |                                   | 15,433        | 15,786        | 15,847        | 14,658        | 13,503        | 15,007        | 14,950        | 14,129        | 14,441        | 14,484        | 14,089        | 15,100        | 177,429      |
|          | Change in Inventory - wd/(inj)    |               |               |               |               |               |               |               |               |               |               |               |               |              |
| 45       | South                             | 2,111         | 8,440         | 11,435        | 9,846         | 6,361         | (154)         | (5,326)       | (7,434)       | (7,885)       | (7,706)       | (6,949)       | (3,606)       | (867)        |
| 46       | North                             | 112           | 1,948         | 3,361         | 2,748         | 3,676         | (685)         | (1,646)       | (1,971)       | (2,116)       | (2,153)       | (1,961)       | (1,327)       | (13)         |
|          |                                   | 2,222         | 10,388        | 14,796        | 12,595        | 10,037        | (838)         | (6,972)       | (9,405)       | (10,001)      | (9,859)       | (8,910)       | (4,933)       | (880)        |
| 47       | Total Supplies + Inventory Change | 17,655        | 26,174        | 30,643        | 27,253        | 23,541        | 14,169        | 7,978         | 4,724         | 4,440         | 4,625         | 5,179         | 10,168        | 176,549      |

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association (“BOMA”)

Reference: Ibid, Page 17

In Figure 6, please explain the following items:

|                                   |     |
|-----------------------------------|-----|
| Non-obligated (e.g. Power Plants) | 212 |
| Ontario Parkway                   | 286 |
| Ontario Dawn                      | 482 |

Does the Ontario Dawn correspond to the "Dawn/Uncommitted 22%" in Figure 10 on page 21?  
If not, what are the differences?

---

**Response:**

Figure 6 represents the resources available to meet Union’s design day in Union South. The non-obligated, Ontario Parkway and Ontario Dawn supplies are all part of the Union South design day calculation.

- The non-obligated line item is the portion of the power plant supply that needs to be delivered only if the customer plans to burn gas on that day. The Design Day demand includes non-obligated contract demand and assumes incremental gas deliveries to match the demand.
- Ontario Parkway represents the obligated Daily Contract Quantity (“DCQ”) for direct purchase customers delivering gas at Parkway.
- Ontario Dawn represents both the obligated DCQ for direct purchase customers delivering gas at Dawn as well as the planned Dawn/Uncommitted purchases.

Figure 10 demonstrates the sources of supply underpinned by Union’s transportation portfolio for Union South sales service customers on an average day. The “Dawn/Uncommitted 22%” figure represents the annual amount of system supply being purchased at Dawn with respect to the average day plan.

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association (“BOMA”)

Reference: Ibid, Page 33

What steps will Union take to deal with injection and removal from storage if TCPL is successful in its bid to raise its STS toll in RH-001-2016?

---

**Response:**

Union is awaiting the National Energy Board (“NEB”) Decision on TransCanada Pipeline’s (“TransCanada”) RH-001-2016 application. Until the Decision is rendered, it is not known whether the NEB will approve the application as filed, deny the application entirely, or approve some variation of what TransCanada has requested.

Without an NEB Decision, Union is unable to identify what specific steps it would take to adjust its upstream transportation portfolio in order to serve Union North customers. Union would use the most recent information available at the time to analyze various options, including, but not limited to, the cost of the transportation and related gas supply, as well as the flexibility offered by the available service offerings, all in the context of Union’s Gas Supply Planning Principles.

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association ("BOMA")

Reference: Ibid, Appendix B, System Sales Supply Demand Balance

- a) Please show the supply demand balance for Union EDA. The stated amounts under North EDA "Demands" and "Supplies" do not match.
- b) Please explain the "North Vector Sale" and its significance in the supply demand balance.
- c) Please distinguish between "Panhandle" and "South Ojibway".
- d) Please show in detail the amounts of gas that Union, or its affiliates, accepts at each delivery point in the Sarnia/Dawn area. Please provide a map showing each delivery point, the US pipelines that connect directly with that delivery point, the planned volume that will enter through that point, and the route from that point to Dawn.
- e) Please explain the DTE supply. When was the supply contracted? How and where does it enter Canada? Please provide a map, showing the DTE pipeline route and its connection with Union.
- f) Please explain the Kirkwall/CBA TCPL contract. Is that gas sourced in Marcellus/Utica? When did the contract commence?
- g) Please explain the "Other" Suppliers, in particular, which US pipeline match up with these Canadian side arrangements? Is it Vector, Michigan, Generic and DTE? Please explain.

---

**Response:**

- a) Part of the Union EDA demand is met through TransCanada PipeLine ("TransCanada") contracted capacity with the remainder met through Vector contracted capacity. The North Vector Supply contract is delivered to Dawn and then to the North East delivery area from Parkway.

|                                 |              |
|---------------------------------|--------------|
|                                 | (TJ)         |
| Demand – Union North EDA        | 12,739       |
| Supply - TCPL Empress-Union EDA | 334          |
| Supply - TCPL Parkway-Union EDA | <u>5,949</u> |
| <b>North Vector Supply</b>      | <b>6,456</b> |

- b) North Vector Sale is the portion of Vector supply that has been allocated to the Union North East Zone. As noted in part a) above, the North Vector Supply contract is delivered to Dawn and then to the Union North East delivery area from Parkway.
- c) Panhandle refers to supply purchased in the Panhandle Eastern Pipe Line (“PEPL”) Field Zone. South Ojibway refers to the supply that is being purchased at the Ojibway interconnect between PEPL and Union on the Union system.
- d) Please see Attachment 1 for a map of the Sarnia/Dawn area.

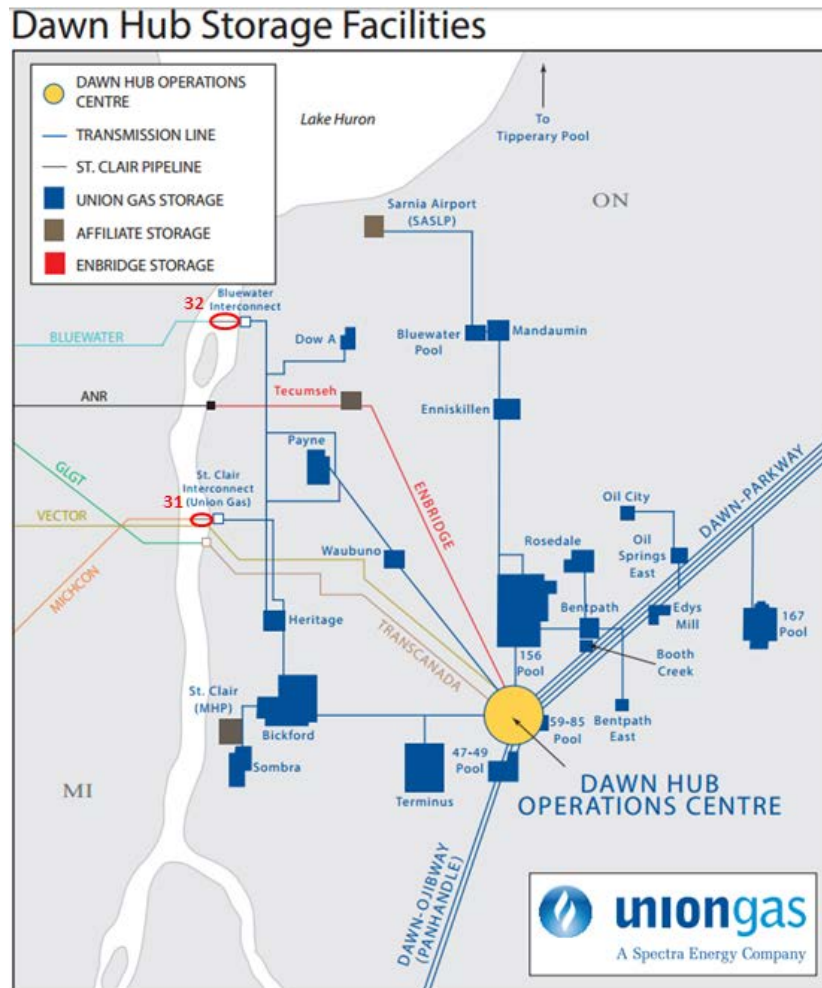
In the gas supply plan, Union accepts supply from the DTE (MichCon) pipeline at the St. Clair delivery point and supply from the Vector Pipeline at the Vector/Dawn or Vector/Courtright delivery points. The DTE (MichCon) volumes feed into the Sarnia Market. The average annual planned volume is 63 TJ/d. The Vector volumes can be accepted into the Sarnia Market or can be accepted at Dawn. The average annual planned volume is 164 TJ/d.

The Sarnia/Dawn area is supplied through four directly connected third-party pipelines. The Sarnia Expansion Pipeline Project evidence, EB-2014-0333, Exhibit A, Section 2, pp. 4-10 provides an explanation of each pipeline.

- e) Union purchased a transportation contract for 60,000 Dth/day (63,303 GJ/day) from DTE to transport gas sourced in Michigan to Union’s system at the St. Clair interconnect. Please see Figure 1 below for a map that depicts the interconnection of the DTE (MichCon) facilities with the Union system at the St. Clair interconnect. Please see Attachment 2 for detailed map of the DTE (MichCon) transportation system.

The contract started December 1, 2015 and will end the earlier of the NEXUS pipeline in-service date or October 31, 2018. For more details on the contract including capacity history, rationale for purchase, contract parameters and incremental contracting form, please refer to EB-2016-0118, Exhibit A, Tab 4, Page 16 to 18.

Figure 1  
Union Gas Dawn Hub Storage Facilities

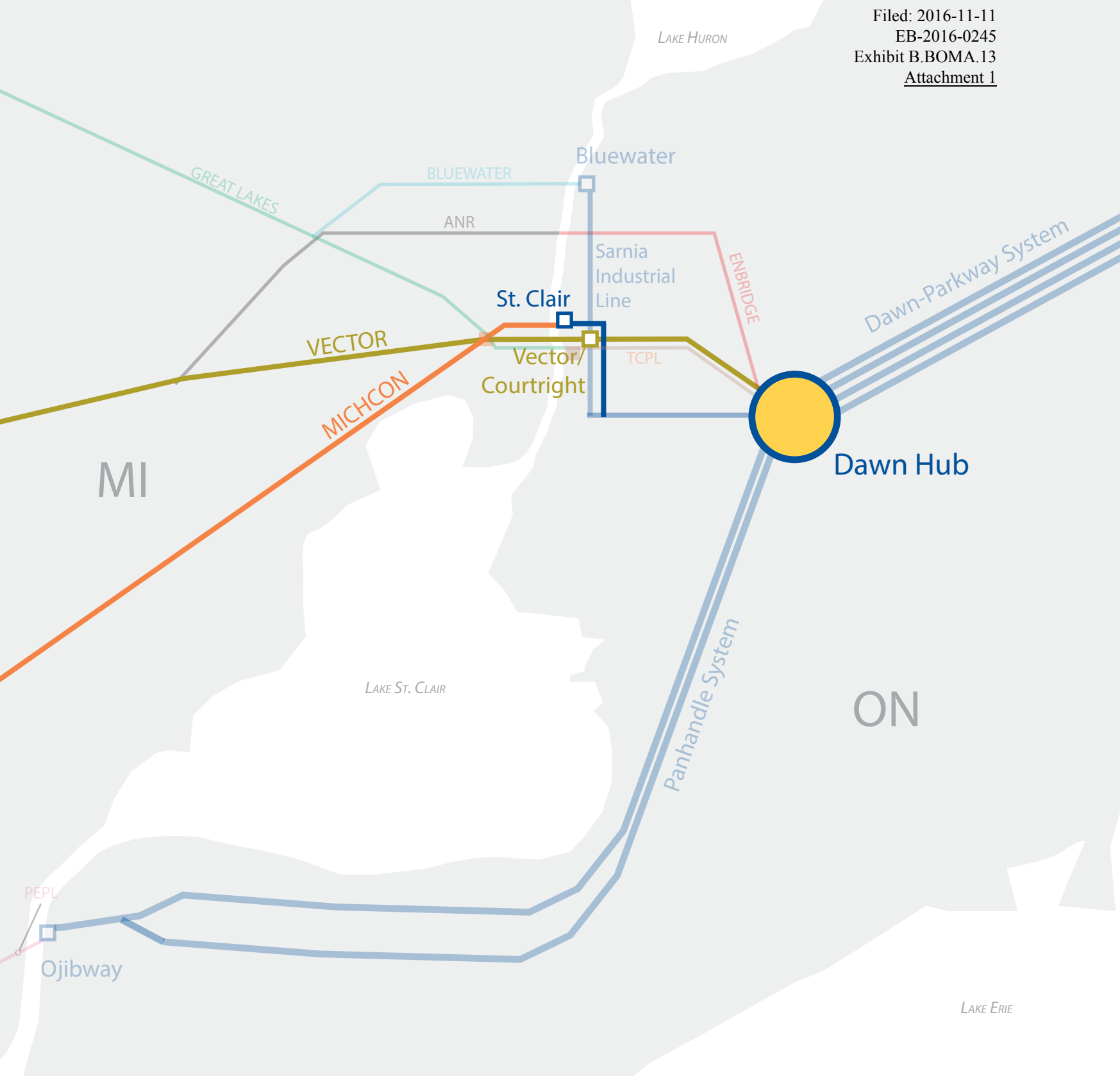


- f) The Kirkwall to Union CDA contract is a contract with TransCanada used to redeliver supply from the Union Dawn Parkway System to customers located in the TransCanada (amended) Union CDA delivery area. This contract commenced November 1, 2016 with the completion of Union's Burlington-Oakville Pipeline Project. The source of gas that will flow from Kirkwall to the (amended) Union CDA cannot be specifically identified. Union can use gas flowing out of or through Dawn delivered at Kirkwall, gas received at Kirkwall from the TransCanada system or, in some instances, gas received at Parkway flowing westerly to Dawn.

- g) The “Other” Suppliers listed on Exhibit A, Tab 3, Appendix C, “Summary of November 1, 2016 Upstream Transportation Contracts – Southern Operations Area” are Union’s contracts with St. Clair Pipelines L.P. for transportation service across the St. Clair River.

The contract on line 31, “St. Clair Pipelines L.P. (St. Clair Pipelines)”, is a contract for 214,000 GJ/day of capacity from the DTE (Michcon) interconnect at the international border under the St. Clair River to Union’s system at the St. Clair Valve Site on the Canadian side of the St. Clair River. Please see Figure 1 above for a visual of this interconnection (circled in red and marked 31). On this map, the DTE (Michcon) pipeline is shown in peach colour and terminates at the International Boundary within the St. Clair River where it connects to the St. Clair Pipelines assets.

The contract on line 32, “St. Clair Pipelines L.P. (Bluewater Pipeline)”, is a contract for 127,000 GJ/day of capacity from the interconnect of the St. Clair Pipelines and Bluewater Gas Storage (Michigan) systems at the International Border within the St. Clair River to a valve site connected to Union’s system at the Sarnia Industrial Line. Please see Figure 1 above for a visual of this interconnection between Union’s system and the St. Clair Pipelines (Bluewater Pipeline) system (circled in red and marked 32). On this map, the Bluewater Gas Storage pipeline is shown in light blue colour and terminates at the International Border within the St. Clair River where it connects to the St. Clair Pipelines (Bluewater Pipeline) assets.



KEY

ANR

- 1 ALPENA/NORTH HAMILTON: 9001  
6 COLUMBUS: 9100, 9410  
7 CRYSTAL FALLS: 9003  
8 DETROIT: 9004, 9319, 9407  
19 KALKASKA: 9460, 9480, 9481  
23 LOREED LUDINGTON: 9014  
28 MENOMINEE: 9017, 9070  
48 WILLOW: 9038, 9307, 9438  
49 WOOLFOLK: 9039, 9324, 9439

BLUEWATER

- 3 BLUEWATER: 9206, 9311, 9406

CONSUMERS ENERGY

- 31 NORTHVILLE: 9023, 9423, 9458

DTE GAS STORAGE

- 47 WASHINGTON 10: 9140, 9310, 9440

GREAT LAKES GAS TRANSMISSION

- 2 BELLE RIVER MILLS: 9002, 9301, 9422  
11 GAYLORD: 9010  
25 MACKINAW: 9015  
32 PETOSKEY: 9025  
33 RAPID RIVER: 9026  
38 SAGOLA: 9403

MICHIGAN CONSOLIDATED GAS

- 27 MCGC STORAGE: 9036, 9437

MICHIGAN GAS UTILITIES

- 13 GRAND HAVEN: 9336

PANHANDLE EASTERN PIPELINE

- N/A PEPL-MICHCON 9028, 9303

- 35 RIVER ROUGE: 9428  
39 SCOFIELD: 9232  
42 SOUTHERN: 9490

SEMCO

- 10 EAST CHINA: 9574  
40 SEMCO: 9141

UNION

- 44 ST. CLAIR: 9035, 9435, 9459

VECTOR PIPELINE

- 45 VECTOR BELLE RIVER: 9136, 9308, 9436  
46 VECTOR MILFORD JUNCTION: 9137, 9237, 9309

PRODUCTION

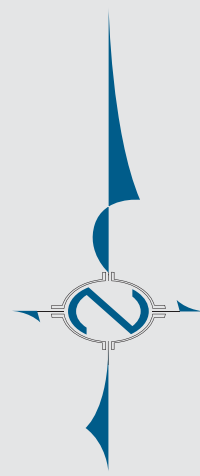
- 4 CHERRY VALLEY: 9393  
5 CHESTONIA: 9457  
9 EAST CALEDONIA: 9323, 9432  
12 GOODWELL: 9335  
14 HART: 9364  
15 HAYES: 9365  
16 HINTON: 9367  
17 ISABELLA: 9380, 9387  
18 JORDAN: 9468  
20 LENOX: 9369, 9370  
21 LINCOLN: 9372, 9373  
22 LOGAN: 9318, 9374  
24 LYON: 9376  
26 MANCELONA: 9478  
29 MENTOR: 9312, 9379  
30 NEW HAVEN: 9395  
34 RENO: 9317, 9381  
36 ROMEO PRODUCTION-MCGC: 9108  
37 ROSE LAKE: 9382  
41 SHERMAN: 9383  
43 SPRINGFIELD: 9384  
44 ST. CLAIR: 9035, 9435, 9459  
45 VECTOR BELLE RIVER: 9136, 9308, 9436  
46 VECTOR MILFORD JUNCTION: 9137, 9237, 9309  
47 WASHINGTON 10: 9140, 9310, 9440  
48 WILLOW: 9038, 9307, 9438  
49 WOOLFOLK: 9039, 9324, 9439

- RECEIPT POINTS  
DELIVERY POINTS  
POOLS

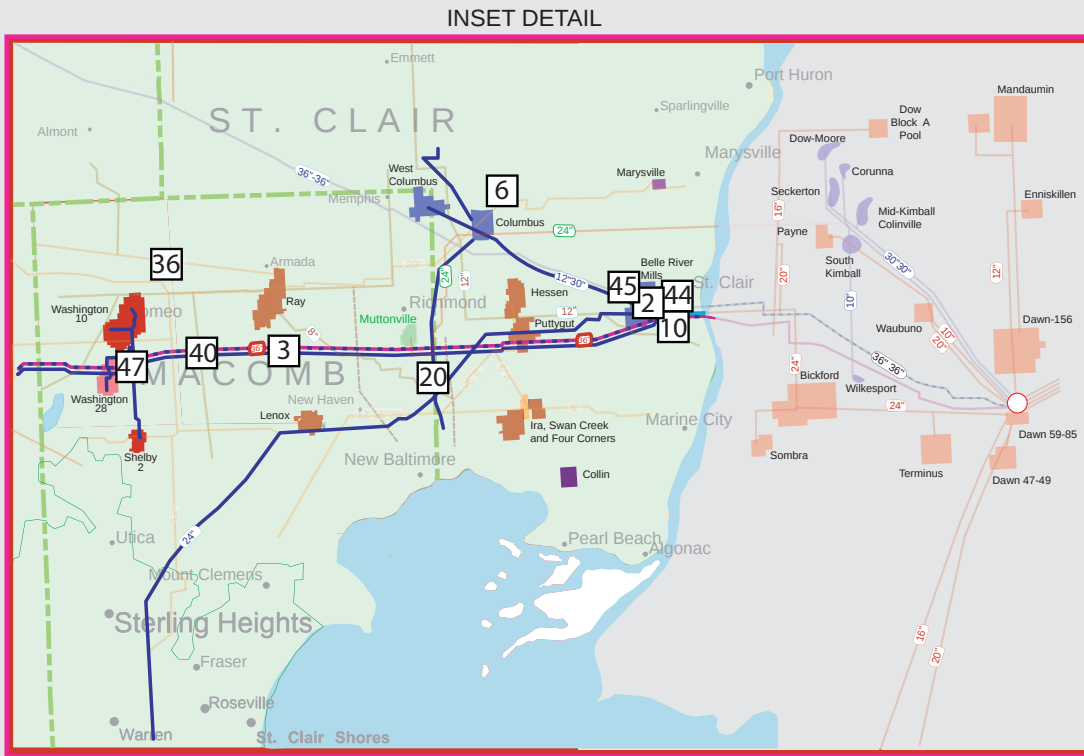


MICHIGAN GAS TRANSMISSION

2009 EDITION



0 5 10 15 20 30 40  
SCALE IN MILES



MAJOR PIPELINES

- MICHIGAN CONSOLIDATED GAS COMPANY  
CONSUMERS ENERGY COMPANY  
ANR PIPELINE COMPANY  
ANR STORAGE COMPANY  
GREAT LAKES GAS TRANSMISSION COMPANY  
PANHANDLE EASTERN PIPE LINE COMPANY  
SEMCO ENERGY COMPANY  
NORTHERN NATURAL GAS COMPANY  
MICHIGAN GAS UTILITIES  
AURORA GAS COMPANY  
VECTOR PIPELINE COMPANY  
VECTOR LEASE LINE
- NOTE:  
DASHED PIPELINES REPRESENT MAJOR DISTRIBUTION PIPELINES

STORAGE FIELDS

- ANR PIPELINE COMPANY  
ANR STORAGE COMPANY  
BATTLE CREEK COMPANY  
BLUE LAKE GAS STORAGE COMPANY  
CONSUMERS ENERGY COMPANY  
EATON RAPIDS GAS STORAGE SYSTEM  
LEE & STORAGE PARTNERSHIP  
MICHIGAN CONSOLIDATED GAS COMPANY / DTE ENERGY  
SEMCO ENERGY  
AQUILA NETWORKS-MGU  
MID MICHIGAN GAS STORAGE COMPANY  
SOUTHWEST GAS STORAGE  
MID MICHIGAN GAS STORAGE  
SOUTH ROMEO GAS STORAGE CORPORATION  
WASHINGTON 10 STORAGE

COMPILED BY MICHIGAN CONSOLIDATED GAS COMPANY  
SEPTEMBER, 2009

NOTE:  
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UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association ("BOMA")

Reference: Ibid, Page 6

- a) Please explain the relationship between Union Gas Supply Plan and its Storage and Transportation Plan.
- b) Please identify if in the evidence, or provide if not in the evidence, the Storage and Transportation Plan.
- c) Please confirm that Union's Transportation and Storage Plan does not include the upstream transportation requirements for bundled customers in the South "since they must acquire their own transportation". Yet Union states that "these customers are included in the DSP". Please explain.
- d) Please explain whether the Transportation and Storage Plan must acquire transportation and storage service for facilities for T-service customers, or just provide for storage capacity via storage service contracts, upon request.

---

**Response:**

a) Gas Supply Plan

For Union South, the gas supply plan determines the amount of upstream transportation and supply required to meet the annual demand requirements. The annual volume is divided by 365 days such that the upstream pipe flows at 100% utilization each day of the year. During the summer when demands are lower than the upstream supply, gas is injected into storage at Dawn and in the winter when demands are greater than the upstream supply, gas is withdrawn from storage. This plan utilizes the volume of gas arriving on upstream pipelines at the various contracted receipt points as well as gas stored on behalf of Union South customers.

For Union North, the gas supply plan also determines the amount of upstream transportation and supply required to meet the design day requirements in the six Union North delivery areas. The plan provides input into the transportation plan by indicating the amount of Union North volume required to be shipped on Union's Dawn Parkway System on design day and into the storage plan by indicating the amount of gas required to be stored on behalf of Union North customers.

### Transmission Planning Process

The transmission system planning process determines the design day transportation requirements, on Union-owned assets, for all Union South and ex-franchise customers, and provides transportation for a portion of Union North customers. The process identifies the volume required at Dawn to supply Union's transmission systems and identifies any shortfall in system capacity. If the transmission assets are not sufficient to meet design day requirements, Union will seek to build additional assets through facility applications or will purchase commercial services to manage this shortfall.

### Storage Planning Process

The storage planning process incorporates output from the gas supply plan and the Transmission planning process to determine the storage assets required at Dawn. If the storage assets are not sufficient to meet design day and seasonal requirements, Union will seek to build additional assets or purchase commercial services to meet this shortfall.

- b) The Storage and Transmission planning processes culminate in facilities applications, when required, to be considered by the Ontario Energy Board. Examples of these include Panhandle Reinforcement Project (EB-2016-0186), 2017 Dawn Parkway Project (EB-2015-0200), and 2016 Dawn Parkway Expansion Project (EB-2014-0261). As a result, an annual report or plan similar to the Gas Supply Memorandum is not required.
- c) The transmission and storage planning processes do not include planning for any upstream transportation requirements.

Bundled direct purchase customers are included in the gas supply plan in order to track supplies by delivery point and determine the appropriate level of direct purchase balancing required.

- d) Union's transportation planning process does not include planning for upstream transportation for T-service customers. Union's storage planning process includes the storage service requirements as per the T-service customer's contracts.

UNION GAS LIMITED

Answer to Interrogatory from  
Canadian Manufacturers & Exporters ("CME")

Reference: Rate Order Working Paper, Schedule 3, page 1 of 2

Union has provided a summary of the 2017 proposed rates which includes the percentage rate increases Excluding the Customer-Related GHG Obligation. That schedule shows a 30% increase for Rate M9, a 21.9% rate increase for Rate 20 and a 59.4% increase for Rate 25. CME wishes to better understand why these three rates are increasing, on a percentage basis, so significantly. Please set out all of the drivers for the rate increases for each of these three rates.

---

**Response:**

The Rate 20 and Rate 25 average transportation and storage rates have not increased, but rather decreased by 21.9% and 59.4%, respectively, per Rate Order, Working Papers, Schedule 3, p. 2. Please see the response at Exhibit B.BOMA.2 c) for an explanation of the Union North transportation and storage rate decreases.

The drivers contributing to the average unit rate changes for all rate classes can be found at Rate Order, Working Papers, Schedule 5.

UNION GAS LIMITED

Answer to Interrogatory from  
Energy Probe Research Foundation (“Energy Probe”)

Reference: Exhibit A, Tab 1, Page 7; Working Papers Schedule 10 Rate Order App G

Preamble: The Board approved capital pass-through treatment on Union’s Leave-To-Construct (LTC) applications for the LTC projects. Union has included the Board-approved 2017 costs for each of the proceedings in 2017 rates.

a) For each of the projects:

1. Parkway West Project – EB-2012-0433;
2. Brantford-Kirkwall / Parkway D Project – EB-2013-0074;
3. Dawn Parkway 2016 System Expansion Project – EB-2014-0261;
4. Burlington Oakville Pipeline Project – EB-2014-0182; and,
5. 2017 Dawn Parkway Project – EB-2015-0200.
6. H/Lobo D/Bright C Compressor Project (EB-2015-0020)

Please provide in *Tabular Form* for completed projects:

- the actual in-service date(s)
- Approved capital costs
- Capital cost at completion and
- the amounts recorded in each of the associated project deferral/variance accounts that are to be disposed in the 2017 deferral account proceeding

b) For any projects that are scheduled to be completed in 2016 and are forecasted to be completed in 2017, please provide in tabular form:

- The actual or forecast in service date(s)
- Approved capital costs
- Estimated capital cost at completion
- The Revenue Requirement placeholder in 2017 rates; and
- Amounts recorded or forecast to be recorded in the relevant project deferral/variance account(s)

c) Please reconcile the above data to the Working Papers in Schedule 10 and to the relevant project deferral/variance accounts.

---

**Response:**

- a) and b) Please see the response at Staff.3 a).
- c) Please see the response at Staff.3 a). The 2017 revenue requirements at Attachment 1 in Staff.3 a), line 4 are equal to the 2017 revenue requirements provided at Rate Order Working Papers, Schedule 10, p. 2, line 26. The approved revenue requirement for each capital-pass through project can also be found in Appendix G of Union's 2017 Rates application. The Parkway Projects 2017 revenue requirement of \$32.6 million is the sum of the 2017 revenue requirements for the Parkway West project of \$17.2 million (Exhibit A, Rate Order, Appendix G, p. 1, line 12, column. (e)) and the Brantford-Kirkwall/ Parkway D project of \$15.4 million (Exhibit A, Rate Order, Appendix G, p. 2, line 12, column. (c)).

Lines 5-7 of Attachment 1 show the approved 2016 revenue requirements in 2016 Rates for each project, the estimated 2016 revenue requirements and the estimated 2016 deferral account balances, respectively. Actual 2016 deferral account balances will be determined at year-end when Union has the actual 2016 revenue requirements for each project and will be filed as part of Union's annual non-commodity deferral account disposition application in 2017.

UNION GAS LIMITED

Answer to Interrogatory from  
Energy Probe Research Foundation (“Energy Probe”)

Reference: Exhibit A, Tab 1, Page 6; Rate Order Appendix F Page 14; Deferral Account No. 179-126; Working Papers / Schedule 11; EB-2015-0116 Exhibit B.Staff.3

Preamble: The difference between the 2016 DSM Utility Incentive and the actual 2016 DSM Utility Incentive will be captured in the Demand Side Management Incentive Deferral Account (“DSMIDA”). The allocation to rate classes can be found at Working Papers, Schedule 11.

- a) Please confirm the 2017 DSM Utility Incentive amount is not included in rates.
- b) Please confirm Union’s proposal is to use the DSMIDA to record the difference between the forecast and actual DSM Utility Incentive.

---

**Response:**

- a) Confirmed.
- b) The preamble to the question references Rate Order, Working Papers, Schedule 11 which shows the allocation of the DSM budget to rate classes. As stated in Exhibit A, Tab 1, page 6, Section 3.2, *“the difference between the 2017 DSM budget and actual 2017 DSM budget will be captured in the Demand Side Management Variance Account (“DSMVA”).”*

The response to part a) confirms there is no DSM Incentive included in 2017 rates. The DSM Incentive Deferral account will include the full amount of the DSM Incentive earned in 2017, as there is no amount included in rates.

UNION GAS LIMITED

Answer to Interrogatory from  
Energy Probe Research Foundation (“Energy Probe”)

Reference: Exhibit A, Tab 1, Page 8; Working Papers Schedule 12; Rate Order Appendix F, Page 19, Deferral Account No. 179-133; EB-2015-0116 Exhibit B, FRPO.2, Attachments 1 and 2 and EB-2015-0116 Exhibit B, Energy Probe.5

Preamble: Consistent with the 2016 methodology, Union has adjusted the general service storage and delivery rates for the 2015 actual Normalized Average Consumption (NAC) using the Board-approved weather normal methodology blend of 50:50 (30-year average and 20-year declining trend). For 2017, the NAC adjustment is the variance between 2014 Actual NAC and 2015 Actual NAC, as seen in Rate Order, Working Papers, Schedule 12.

- a) Please Update EB-2015-0116 IRR FRPO 2 Attachments 1 and 2 for 2015 actuals.
- b) Please update Table 1 provided in EB-2015-0116 Energy Probe IRR Exhibit B, Energy Probe 5 and provide details on the drivers/reasons for the large 2015 and 2016 change in NAC for Rates M1 (4.0%) and R01 (5.7%).
- c) Please provide a discussion/analysis/estimate of the direction/trends related to 2015-2019 NAC adjustments based on Union’s DSM Plan, weather and other factors.
- d) Please provide any updates to DSM forecasts for the different rate classes.

---

**Response:**

- a) Please see Attachment 1 for the historic weather in Union South and Union North updated with the 2015 actual weather data. Please see Attachment 2 for the calculated weather normal for 2017.
- b) Please see updated Table 1 below.

Table 1

|         | Due to Weather * | Due to other Variables | Total Change in NAC |
|---------|------------------|------------------------|---------------------|
| Rate M1 | 0.1%             | -4.0%                  | -4.0%               |
| Rate 01 | -0.1%            | -5.5%                  | -5.7%               |

\* The weather normal has changed from 2016 to 2017 by 0.1% in Union South and -0.3% in Union North.

Please see the response at Exhibit B.Staff.9 a) for a variance explanation by rate class.

- c) Please see the response at Exhibit B.Staff.9 a) for the main drivers impacting consumption. The energy efficiency related forces reduce consumption. For example, according to Union's Board-approved DSM Plan, the total throughput for general service rate classes (Rate M1, Rate M2, Rate 01 and Rate 10) in 2019 would be reduced by  $194.4 \times 10^6 \text{m}^3$ . The impact of the customer behavior (i.e. comfort desires in response to extreme change in weather conditions) and any energy savings initiatives conducted by the customer would be estimated once the actual consumption is verified. The actual NAC adjustment due to the weather normal updates going into year 2019 will be determined once the actual weather for years 2016 and 2017 are available.
- d) Please see Table 2 below for the DSM Savings Volume forecast by rate class from 2016 to 2019.

Table 2  
DSM Savings Volume from 2016 to 2019 by Rate Class

| <b>Particulars<br/>(m<sup>3</sup>)</b> | <b>2016</b> | <b>2017</b> | <b>2018</b> | <b>2019</b> | <b>Total</b> |
|----------------------------------------|-------------|-------------|-------------|-------------|--------------|
| Rate 01                                | 4,694,630   | 5,106,966   | 5,464,438   | 5,514,085   | 20,780,119   |
| Rate 10                                | 5,883,252   | 6,111,118   | 6,191,804   | 6,244,311   | 24,430,485   |
| Rate M1                                | 13,290,335  | 14,502,743  | 15,555,414  | 15,668,619  | 59,017,111   |
| Rate M2                                | 21,695,648  | 22,547,446  | 22,837,186  | 23,104,038  | 90,184,319   |
| Total                                  | 45,563,865  | 48,268,272  | 50,048,844  | 50,531,053  | 194,412,034  |

UNION GAS LIMITED  
ACTUAL HEATING DEGREE DAYS FOR UNION SOUTH AND UNION NORTH

UNION SOUTH ACTUAL HEATING DEGREE DAY

| Year | <u>Jan</u> | <u>Feb</u> | <u>Mar</u> | <u>Apr</u> | <u>May</u> | <u>Jun</u> | <u>Jul</u> | <u>Aug</u> | <u>Sep</u> | <u>Oct</u> | <u>Nov</u> | <u>Dec</u> | <u>Htg. Deg.Days</u> |
|------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------------------|
| 1984 | 836        | 553        | 683        | 323        | 229        | 23         | 13         | 11         | 117        | 208        | 442        | 560        | 3,997                |
| 1985 | 793        | 667        | 523        | 279        | 126        | 62         | 8          | 12         | 80         | 240        | 413        | 722        | 3,926                |
| 1986 | 724        | 665        | 528        | 300        | 126        | 53         | 9          | 37         | 87         | 260        | 491        | 603        | 3,882                |
| 1987 | 707        | 634        | 492        | 282        | 131        | 24         | 5          | 26         | 70         | 339        | 407        | 566        | 3,684                |
| 1988 | 720        | 703        | 560        | 340        | 127        | 53         | 3          | 15         | 86         | 344        | 397        | 640        | 3,986                |
| 1989 | 614        | 679        | 581        | 382        | 168        | 35         | 3          | 17         | 101        | 252        | 472        | 849        | 4,154                |
| 1990 | 583        | 586        | 503        | 303        | 195        | 39         | 6          | 8          | 99         | 269        | 394        | 586        | 3,572                |
| 1991 | 735        | 562        | 498        | 276        | 101        | 17         | 4          | 5          | 118        | 230        | 469        | 616        | 3,631                |
| 1992 | 677        | 623        | 575        | 376        | 168        | 72         | 27         | 41         | 109        | 315        | 447        | 602        | 4,031                |
| 1993 | 666        | 715        | 619        | 343        | 167        | 50         | 2          | 9          | 143        | 305        | 448        | 637        | 4,105                |
| 1994 | 906        | 730        | 578        | 318        | 206        | 38         | 4          | 27         | 81         | 238        | 369        | 559        | 4,055                |
| 1995 | 647        | 696        | 499        | 403        | 152        | 21         | 11         | 2          | 116        | 217        | 514        | 708        | 3,987                |
| 1996 | 758        | 683        | 651        | 393        | 201        | 21         | 11         | 3          | 80         | 258        | 518        | 577        | 4,153                |
| 1997 | 743        | 573        | 559        | 371        | 266        | 30         | 14         | 27         | 84         | 264        | 481        | 595        | 4,005                |
| 1998 | 596        | 502        | 482        | 286        | 68         | 52         | 1          | 6          | 41         | 224        | 385        | 533        | 3,175                |
| 1999 | 743        | 537        | 556        | 302        | 101        | 29         | 2          | 14         | 64         | 262        | 373        | 572        | 3,554                |
| 2000 | 720        | 573        | 420        | 339        | 128        | 37         | 11         | 17         | 105        | 222        | 435        | 785        | 3,792                |
| 2001 | 677        | 585        | 571        | 287        | 118        | 36         | 12         | 2          | 95         | 236        | 322        | 526        | 3,469                |
| 2002 | 578        | 538        | 544        | 322        | 221        | 36         | 1          | 3          | 32         | 298        | 447        | 632        | 3,652                |
| 2003 | 796        | 699        | 568        | 361        | 196        | 48         | 5          | 5          | 74         | 277        | 386        | 575        | 3,988                |
| 2004 | 831        | 626        | 493        | 314        | 149        | 47         | 8          | 28         | 51         | 233        | 392        | 635        | 3,807                |
| 2005 | 762        | 611        | 612        | 312        | 189        | 12         | 2          | 4          | 33         | 228        | 396        | 677        | 3,838                |
| 2006 | 543        | 598        | 517        | 286        | 143        | 26         | 3          | 8          | 94         | 296        | 388        | 505        | 3,407                |
| 2007 | 644        | 735        | 518        | 353        | 120        | 19         | 8          | 9          | 55         | 151        | 460        | 627        | 3,700                |
| 2008 | 639        | 670        | 597        | 268        | 190        | 27         | 2          | 17         | 60         | 281        | 453        | 662        | 3,869                |
| 2009 | 819        | 596        | 518        | 308        | 144        | 50         | 17         | 20         | 67         | 296        | 361        | 629        | 3,824                |
| 2010 | 716        | 605        | 448        | 225        | 120        | 24         | 2          | 5          | 88         | 242        | 417        | 683        | 3,574                |
| 2011 | 779        | 636        | 573        | 337        | 142        | 26         | 0          | 4          | 77         | 243        | 344        | 534        | 3,695                |
| 2012 | 615        | 546        | 333        | 323        | 82         | 30         | 0          | 9          | 98         | 252        | 456        | 529        | 3,274                |
| 2013 | 645        | 633        | 572        | 359        | 123        | 41         | 8          | 16         | 95         | 227        | 479        | 677        | 3,875                |
| 2014 | 825        | 753        | 684        | 352        | 142        | 20         | 21         | 17         | 97         | 248        | 494        | 568        | 4,221                |
| 2015 | 792        | 857        | 612        | 334        | 99         | 35         | 10         | 16         | 47         | 245        | 349        | 440        | 3,834                |

# UNION NORTH ACTUAL HEATING DEGREE DAY

| Year | Jan   | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec   | Htg. Deg.Days |
|------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|---------------|
| 1984 | 1,027 | 670 | 799 | 356 | 296 | 90  | 35  | 36  | 208 | 311 | 554 | 793   | 5,175         |
| 1985 | 995   | 816 | 672 | 428 | 225 | 137 | 52  | 65  | 156 | 343 | 615 | 934   | 5,438         |
| 1986 | 947   | 815 | 671 | 363 | 192 | 132 | 37  | 77  | 198 | 384 | 630 | 730   | 5,175         |
| 1987 | 846   | 741 | 619 | 322 | 218 | 70  | 28  | 62  | 135 | 417 | 550 | 714   | 4,722         |
| 1988 | 934   | 904 | 728 | 427 | 192 | 100 | 16  | 52  | 166 | 422 | 514 | 863   | 5,317         |
| 1989 | 855   | 874 | 799 | 482 | 209 | 105 | 22  | 65  | 159 | 348 | 659 | 1,079 | 5,654         |
| 1990 | 780   | 785 | 662 | 410 | 274 | 96  | 34  | 47  | 186 | 386 | 527 | 807   | 4,994         |
| 1991 | 972   | 733 | 667 | 371 | 176 | 53  | 31  | 38  | 201 | 369 | 586 | 822   | 5,019         |
| 1992 | 906   | 811 | 766 | 480 | 232 | 136 | 93  | 94  | 181 | 411 | 592 | 789   | 5,489         |
| 1993 | 904   | 888 | 704 | 451 | 255 | 110 | 23  | 34  | 236 | 432 | 622 | 804   | 5,460         |
| 1994 | 1,180 | 903 | 675 | 463 | 258 | 75  | 33  | 82  | 136 | 306 | 503 | 680   | 5,294         |
| 1995 | 832   | 862 | 643 | 516 | 238 | 60  | 32  | 29  | 210 | 329 | 702 | 906   | 5,358         |
| 1996 | 1,016 | 875 | 793 | 526 | 294 | 67  | 50  | 39  | 130 | 366 | 634 | 761   | 5,550         |
| 1997 | 987   | 799 | 764 | 467 | 337 | 51  | 47  | 77  | 154 | 363 | 595 | 743   | 5,384         |
| 1998 | 852   | 610 | 646 | 361 | 141 | 87  | 24  | 29  | 131 | 327 | 517 | 732   | 4,457         |
| 1999 | 956   | 687 | 677 | 383 | 165 | 64  | 16  | 58  | 134 | 389 | 482 | 742   | 4,754         |
| 2000 | 936   | 726 | 559 | 440 | 212 | 114 | 42  | 47  | 179 | 330 | 533 | 948   | 5,065         |
| 2001 | 825   | 798 | 686 | 395 | 171 | 68  | 45  | 29  | 155 | 339 | 448 | 655   | 4,613         |
| 2002 | 784   | 707 | 744 | 449 | 303 | 84  | 14  | 29  | 101 | 442 | 614 | 736   | 5,007         |
| 2003 | 976   | 883 | 721 | 489 | 210 | 75  | 25  | 27  | 122 | 368 | 524 | 728   | 5,147         |
| 2004 | 1,090 | 743 | 637 | 456 | 268 | 111 | 39  | 85  | 95  | 332 | 509 | 851   | 5,216         |
| 2005 | 973   | 723 | 723 | 378 | 241 | 34  | 24  | 26  | 96  | 310 | 543 | 796   | 4,866         |
| 2006 | 728   | 786 | 628 | 356 | 183 | 59  | 14  | 45  | 166 | 381 | 485 | 641   | 4,473         |
| 2007 | 836   | 871 | 652 | 439 | 203 | 67  | 31  | 39  | 117 | 261 | 572 | 802   | 4,888         |
| 2008 | 807   | 822 | 736 | 379 | 271 | 68  | 20  | 37  | 142 | 349 | 537 | 871   | 5,040         |
| 2009 | 993   | 762 | 666 | 419 | 264 | 96  | 51  | 60  | 107 | 396 | 434 | 800   | 5,049         |
| 2010 | 851   | 718 | 505 | 318 | 162 | 77  | 8   | 25  | 170 | 338 | 506 | 784   | 4,462         |
| 2011 | 963   | 759 | 696 | 430 | 198 | 70  | 9   | 21  | 127 | 296 | 467 | 705   | 4,741         |
| 2012 | 795   | 663 | 487 | 417 | 160 | 45  | 7   | 31  | 161 | 329 | 551 | 721   | 4,367         |
| 2013 | 841   | 768 | 675 | 476 | 219 | 89  | 32  | 39  | 150 | 317 | 579 | 946   | 5,131         |
| 2014 | 989   | 859 | 814 | 474 | 219 | 67  | 47  | 48  | 161 | 331 | 622 | 730   | 5,361         |
| 2015 | 970   | 989 | 722 | 430 | 197 | 80  | 24  | 36  | 84  | 356 | 449 | 574   | 4,912         |

2017 50:50 Weather Normal

| Year        | <u>Jan</u> | <u>Feb</u> | <u>Mar</u> | <u>Apr</u> | <u>May</u> | <u>Jun</u> | <u>Jul</u> | <u>Aug</u> | <u>Sep</u> | <u>Oct</u> | <u>Nov</u> | <u>Dec</u> | <u>Htg. Deg.Days</u> |
|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------------------|
| Union South | 712        | 636        | 544        | 325        | 148        | 34         | 7          | 13         | 77         | 256        | 423        | 608        | 3,782                |
| Union North | 898        | 777        | 671        | 419        | 218        | 76         | 29         | 44         | 141        | 348        | 533        | 764        | 4,918                |

UNION GAS LIMITED

Answer to Interrogatory from  
Energy Probe Research Foundation ("Energy Probe")

Reference: Exhibit A, Tab 2, Page 4 and Attachment 1; EB-2015-0200, Exhibit A, Tab 8, Schedule 1: Rate Order Working Papers Schedule 20, Pages 1-5; EB-2015-0116 Exhibit B.APPrO.4.

Preamble: Union is including the Parkway Delivery Commitment Incentive (PDCI) costs of \$16.6 million in rates effective January 1, 2017. Per the Settlement, Union has allocated the PDCI costs to rate classes consistent with the allocation of other PDO costs included in rates.

Union projects a shortfall at Parkway, as a result of the PDO shift, of 23 TJ/d between November 1, 2015 and October 31, 2016 and 13 TJ/d between November 1, 2016 and October 31, 2017 until sufficient M12 Dawn to Kirkwall capacity has been turned back.

- a) Please confirm the turn back volumes now projected for November 1, 2017 (67 TJ/day)
- b) Discuss in more detail changes that have occurred since EB-2015-0200, and provide an updated forecast surplus as of November 1, 2017 (TJ/d)
- c) Please explain the volume(s) used in the Sales Service PDCI Cost Calculation at Working Papers / Schedule 20 / p. 5.
- d) Why is the PDO for sales customers still 11 TJ/d at November 1 2017 as well as November 1 2018, rather than zero?
- e) Please explain Footnote 5: "The actual contract amount for November 1, 2016 is higher, but Union has turn back rights which are effective January, 2017".
- f) What are the actual 2016 (estimate) and basis of the forecast rate year M12 turn back 2016 estimates generating the cost to M1 customers?

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**Response:**

- a) The forecasted turnback of 67 TJ/day is confirmed to be effective November 1, 2017.
- b) The difference between the 2017 Parkway Delivery Obligation ("PDO") in the 2017 Dawn to Parkway project proceeding (EB-2015-0200), Exhibit A, Tab 8, Schedule 1, and Exhibit A, Tab 2, p. 4 and Attachment 1, is due to timing. The EB-2015-0200 evidence included

forecast contract changes for Union South direct purchase (“DP”) and T-service customers up to January 31, 2015. The starting PDO in Attachment 1 reflects further contract changes for Union South DP and T-service customers up to and including August 1, 2016.

- c) Please see part d) below. The contracts underpinning the 19 TJ/day are an 11 TJ/day contract from Empress to Union ECDA, which will be in place through October 31, 2017, and an 8 TJ/day contract from Dawn to Union ECDA, which will be in place through October 31, 2019.
- d) The Parkway Obligation for sales service customers is calculated based on the Union South gas supply portfolio firm transportation contracts to the Parkway area.

Union currently holds an 11 TJ/day contract from Empress to Union ECDA which will be in place through October 31, 2017. Effective November 1, 2017 this contract will be reduced to 3 TJ/day through to October 31, 2019.

Union also holds an 8 TJ/day contract from Dawn to Union ECDA which will be in place through October 31, 2019.

With the 3 TJ/day contracted from Empress to Union ECDA and the 8 TJ/day contracted from Dawn to Union ECDA, Union will have a total of 11,000 GJ/day (11 TJ/day) of capacity contracted at November 1, 2017 and November 1, 2018.

- e) Please see the response at Exhibit B.VECC.2.
- f) Union is forecasting M12 Dawn to Kirkwall turnback effective November, 2016 of the equivalent to 10 TJ/d Dawn to Parkway capacity per Exhibit A, Tab 2, Attachment 1, line 4. This forecast of M12 Dawn to Kirkwall turnback does not impact the PDO costs included in 2017 rates as Union is continuing to manage the Parkway shortfall associated with the 146 TJ/d of temporary available excess Dawn to Parkway capacity, which is no longer available. As of November 2016, there continues to be a Parkway shortfall of 13 TJ/d (please see Exhibit A, Tab 2, Attachment 1, line 5). Accordingly, the costs included in 2017 rates continue to be based on the PDO shift of 212 TJ/d, as described at Exhibit B.Staff.7 part c).

By November 2017, Union is forecasting sufficient M12 Dawn to Kirkwall turnback to provide an additional PDO reduction of 73 TJ/d, as shown at Exhibit A, Tab 2, Attachment 1, line 8. Should the forecast turnback be realized, Union will record the additional costs in the Parkway Obligation Rate Variance Deferral Account, as this account is used to record rate variances associated with the timing differences between the effective date of the PDO changes and the inclusion of the cost impacts in approved rates (January 1 of the following year).

The 2017 rate increase applicable to Rate M1 customers resulting from the PDO is related to the inclusion of PDCI costs in 2017 rates as well as updates to the Rate M12 Dawn to Parkway demand rate and fuel charges used to calculate the PDO costs.

UNION GAS LIMITED

Answer to Interrogatory from  
Energy Probe Research Foundation (“Energy Probe”)

Reference: Exhibit A, Tab 2, Page 4 and Attachment 1; EB-2015-0200 Exhibit A, Tab 8, Schedule 1: Rate Order Working Papers, Schedule 20, Pages 1-5;

Preamble: Union’s foreseeable options to manage the shortfall are:

- Request early ex-franchise turn-back of Dawn-Kirkwall contracts;
- Purchase a service from a third party; and,
- Allocate some portion of a future build that may not be completely sold out.

- a) Please discuss the viability of each of the listed options.
- b) Please provide updated cost estimates for each option and compare to the PDCI.

---

**Response:**

- a) As outlined at Exhibit A, Tab 2, p. 5, lines 9-12, there is a projected shortfall for the period November 1, 2016 to October 31, 2017 of 13 TJ/day. No shortfall exists beyond November 1, 2017. Therefore, of the 3 options listed, the preferred alternative is to purchase a service from a third party.
- b) Should Union need to purchase a service from a third party to manage the shortfall at Parkway, it would be priced based on market prices in effect at the time of execution. Union’s best estimate of market cost at this time is equivalent to the M12 rate if purchased on a yearly basis. This is equivalent to the cost of the PDCI.

UNION GAS LIMITED

Answer to Interrogatory from  
Energy Probe Research Foundation (“Energy Probe”)

Reference: Exhibit A, Appendix B, Rate Order M1 and 01 Rate Schedules and Working Papers, Schedule 3; Exhibit A, Tab 3, Page 35.

Preamble: In order to prepare for customer communications and billing system changes in regards to implementing the province’s cap and trade market by on January 1, 2017, Union submitted an interim rate order to the Board on April 15, 2016 to obtain approval for a rate and corresponding separate line item bill presentment. The Board issued its decision on this request on July 29, 2016. In its decision, the Board provided direction on customer communications and also required the natural gas distributors to include the cost of cap and trade in delivery rates.

Union is in the process of complying with this decision. In addition, Union will be requesting approval for rate changes to recover the cost of cap and trade costs (related to customer and facility obligations) in its 2017 rates application.

- a) Please provide a copy of the Board Direction to Union regarding Customer GHG Commitments.
- b) What is the status regarding Union’s Customer GHG Charges/Billing implementation?
- c) Please provide an illustration of the Charges for Rates M1 and 01 using Union’s “best guess”. List relevant assumptions.
- d) What is/are Union’s expectation(s) regarding implementation/timing of Customer GHG Charges?
- e) Please provide a copy of Union’s GHG Compliance Plan in this proceeding as soon as available.
- f) Please provide any drafts or final versions of customer communications related to cap and trade.
- g) Please provide any analysis or assessments that the company has done in regards to the impact cap and trade will have on NAC going forward.

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**Response:**

- a) Please see Attachment 1 for a copy of the Board’s July 29, 2016 Decision in EB-2015-0363.

- b) Union is working towards the January 1, 2017 Cap-and-Trade implementation. Union will be prepared to bill rates which include the costs of Cap-and-Trade for January 1, 2017. Union is requesting interim rate approval of these rates from the Board by November 18, 2016 in order to facilitate this billing.
- c) In accordance with the Board's Regulatory Framework for the Assessment of Costs of Natural Gas Utilities' Cap-and-Trade Activities ("Framework"), Union will file its 2017 Compliance Plan on November 15, 2016. The Compliance Plan will include rate impacts for all in-franchise rate classes.
- d) Union expects to implement the rates reflecting its 2017 Cap-and-Trade Compliance Plan on an interim basis, effective January 1, 2017.
- e) As noted in part c) above, Union's 2017 Cap-and-Trade Compliance Plan will be filed November 15, 2016, subject to the confidentiality provisions outlined in the Framework.
- f) Customer communications and samples of communications will be filed with the 2017 Compliance Plan.
- g) Union is in the process of assessing and incorporating the impacts of Cap-and-Trade into its business processes. Union has not completed any analysis of the impact Cap-and-Trade may have on NAC during future years.

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## **BY E-MAIL AND WEB POSTING**

July 28, 2016

**TO: Enbridge Gas Distribution Inc., Natural Resource Gas Limited, Union Gas Limited and All Participants in EB-2015-0363**

**RE: Cap and Trade Framework for Natural Gas Utilities –  
Early Determination regarding Billing of Cap and Trade Related Costs and  
Customer Outreach - File No.: EB-2015-0363**

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The Ontario Energy Board (OEB) has made a determination on billing and customer outreach in relation to the Cap and Trade framework to be implemented by Enbridge Gas Distribution Inc. (Enbridge), Natural Resource Gas Limited (NRG) and Union Gas Limited (Union) (collectively “the Utilities”).

### **Background**

Ontario has passed legislation to establish a Cap and Trade program for the purposes of reducing greenhouse gas (“GHG”) emissions in Ontario<sup>1</sup>. Under the legislation, Ontario’s natural gas utilities will have greenhouse gas (GHG) emission compliance obligations for:

- Residential, commercial and industrial customers (excluding Large Final Emitters, defined as emitting > 25,000 tonnes CO<sub>2</sub>e per year) and natural gas generators
- Facilities owned or operated by natural gas distributors

<sup>1</sup> The *Climate Change and Low-Carbon Economy Act, 2016* (“*Climate Change Act*”) received Royal Assent on May 18, 2016 and Ontario Regulation 144/16, The Cap and Trade Program (“*Cap and Trade Regulation*”) was issued May 19, 2016.

In order to comply with the legislation, the Utilities will need to develop Compliance Plans to achieve their Cap and Trade obligations for both customer-related and facility-related obligations. The Compliance Plans will include a variety of measures such as GHG abatement activities and the purchase of emissions credits, either through auctions or other mechanisms. The OEB is responsible for assessing the cost effectiveness of the Utilities Compliance Plans for the purpose of cost recovery from ratepayers.

To facilitate its assessment of these costs, the OEB is developing a Regulatory Framework (the Framework). The Framework will provide guidance to the Utilities on the OEB's approach to assessing the costs of the Utilities' implementation of Cap and Trade and the recovery of those costs.

On May 25, 2016, the OEB issued a [Staff Discussion Paper](#) (the Discussion Paper) for comment, which outlined OEB staff's initial views on the key elements, issues and options for the development of a Cap and Trade Framework as it relates to natural gas utilities. Comments on the issues and proposals set out in the Discussion Paper were received from over 40 stakeholders, including the Utilities, from consumer groups representing residential, commercial and industrial gas users and from environmental organizations. All comments are posted on the [OEB's website](#).

The OEB has identified two issues that require early determination to facilitate the Utilities' implementation of the Cap and Trade Program by January 1, 2017. The Discussion Paper contained staff proposals on these issues. By way of letters dated April 15 and 21, 2016, Union and Enbridge indicated that they will need about six months to implement billing system changes to ensure they are ready to bill Cap and Trade related costs to customers when the Cap and Trade Program comes into effect January 1, 2017. In response to the Utilities' request the OEB has made this determination on billing for the recovery of Cap and Trade related costs and with respect to customer communications and outreach as set out in the OEB's May 25 letter.

## **Summary of the OEB Determinations**

### Billing

A determination on the billing issue requires that decisions be made on a number of underlying rate design questions. **The OEB has accepted staff's proposals on these matters as outlined in the Discussion Paper.** The Utilities are expected to ensure the necessary system changes have been made in accordance with its determination in order that rate design and billing determination is ready for implementation by January 1, 2017.

## Customer Outreach

The OEB has not adopted staff's proposal on customer outreach and messaging as set out in the Discussion Paper. **The OEB will not require the Utilities to have their communications approved by the OEB. Rather, the OEB will provide key messaging to be used by the Utilities to ensure consistent information is provided to all consumers.**

## **Discussion of Billing of Cap and Trade Costs**

Under the Cap and Trade program, each utility will need to develop a Compliance Plan to meet its GHG compliance obligations under the *Climate Change Act*. The Compliance Plan will include costs of:

- Facility-related obligations for measures related to GHG emissions from facilities owned or operated by the utilities
- Customer-related obligations for measures related to GHG emissions from natural gas-fired generators and residential, commercial and industrial customers who are not Large Final Emitters (LFEs) or voluntary participants
- Administration to meet compliance obligations

The OEB's determination addresses the two issues identified in the May 25 letter relating to the billing of the above noted costs; the type of rate and how the rate is to appear on natural gas bills.

This determination does not address the amount of the costs to be recovered or the actual rate impacts. These matters will be determined in a future rate hearing where the OEB will undertake a detailed review and assessment of the cost consequences of the Compliance Plan submitted by each of the natural gas utilities.

## Rate Design

In order to determine the type of rate, the OEB considered the issues of cost causation, cost allocation and rate design. The OEB notes that most stakeholders supported the approach on these matters as set out in the Discussion Paper.

**The OEB has determined that customer-related obligation costs will be recovered from all customers except Large Final Emitters (LFEs) and voluntary participants, who are responsible for managing their own compliance obligation.**

Customer related costs are driven by gas consumption, which causes the GHG emissions, and therefore should be allocated and recovered based on a customer's consumption. The OEB has determined that customer-related costs will be recovered through a volumetric (m<sup>3</sup>) rate charged to each customer based on their consumption.

This rate will be separately identified on the Utility tariff sheet. Given that the rate will not apply to LFEs and voluntary participants, the tariff sheet will indicate it should be applied "as applicable" similar to other charges which are not uniformly applied to a rate class. A separate customer-related rate on the tariff sheet will assist natural gas-fired generators who bid into the market. It will also provide the information necessary for large gas users who may qualify as voluntary participants to make decisions as to whether they wish to become voluntary participants.

**The OEB has determined that facility-related obligation costs will be recovered from all customers, as they are directly related to the delivery of natural gas to customers.**

Facility related costs will be allocated to rate classes based on consumption, given that the driver for GHG emissions is gas consumption. These costs will be recovered through a volumetric (m<sup>3</sup>) charge based on consumption.

The rate for facility-related costs will also be separately identified on the Utility tariff sheet so that customers may easily identify these costs, and to facilitate tracking and updating as needed.

**Administrative costs relating to the implementation and ongoing operation of the Cap and Trade Program will be allocated and recovered from all customers in the same manner as existing administrative costs.**

Most stakeholders supported the proposal in the Discussion Paper that administrative costs should be recovered from all customers. Stakeholders representing large gas users commented that a portion of these costs should not be borne by the LFEs or voluntary participants, as they would be incurring their own administrative costs to comply with the Cap and Trade Program. These stakeholders also commented that the load and associated GHG emissions from the LFEs and voluntary participants are not part of a utility's compliance obligation and that, as a result, their liability for the utility's administrative costs should be limited to those incurred in meeting facility-related GHG obligations only.

The OEB agrees that administrative costs will be incurred to support both facility-related

and customer-related obligations. While the exact quantum of the administrative costs is not known at this time, based on research conducted on the experience in other jurisdictions the OEB does not expect these costs to be sufficiently material to justify the cost and time involved in allocating administrative costs differently than is the case today for all of a utility's other administrative costs. The OEB may revisit this approach in the future, based on experience with the Utilities' implementation of the Cap and Trade Program and associated administrative costs.

### Billing

Having determined that there should be two volumetric charges related to the recovery of approved Cap and Trade costs, the next issue for determination is how these rates should be reflected on customers' natural gas bills. **The OEB has determined that charges related to the recovery of Cap and Trade Program costs will be included in the Delivery charge on the bill.**

Comments from the Utilities and commercial, institutional and industrial gas consumers suggested that Cap and Trade related costs should be a separate line item on the bill in order to provide greater transparency and visible price signals. Some residential consumer groups specifically stated that it was not necessary to reflect Cap and Trade Program costs as a separate line as long as customers were otherwise informed of the Cap and Trade Program and resulting costs.

The OEB has determined that charges to recover costs incurred by the Utility to meet its facility-related obligations will be included in the delivery charge on the customer bill. Under the Climate Change Act, the Utilities are responsible for GHG emissions related to the operation of their equipment and facilities, as is the case for any other LFE. These costs will be part of the utility's on-going business and should be reflected in the ongoing cost of doing business like all other utility costs of operation.

The OEB has also determined that costs incurred by the natural gas utilities to meet their customer-related obligations will be included as part of the Delivery charge on the customer's bills. This charge will be included for all customers other than LFEs and voluntary participants. The Utilities are required by the Climate Change Act to be responsible for the GHG emissions related to all natural gas delivered on their distribution systems and in order to comply with this obligation they will incur costs. While these costs are not specifically tied to the activity of operating a gas transmission or distribution system, they are an ongoing business obligation of a natural gas distributor under the *Climate Change Act*.

Stakeholders who support a separate line item argue that a separate line item is needed to provide greater transparency and appropriate pricing signals to customers. The OEB agrees that it is important to provide customers with the information they need to better understand energy costs so that they can make appropriate choices about their energy use.

The OEB will ensure that those customers who require more detailed information will have access to that information by requiring utilities to separately identify charges associated with the recovery of Cap and Trade Program compliance on the Utility's tariff sheet. Tariff sheets are available on the Utilities' websites. Utilities will also be required to include information on Cap and Trade in the description section of monthly customer bills. In addition, as discussed below under Communications, the Utilities will be expected to provide customers with ongoing information about the Cap and Trade Program in accordance with guidance provided by the OEB.

In the OEB's view, separating out Cap and Trade related costs as a line item on the bill is inconsistent with the manner in which all other ongoing costs of operating the utility are reflected on the bill. The public policy objective of the Cap and Trade Program is to reduce GHG emissions. For the vast majority of customers, a separate line item will not provide any form of meaningful price signal. Customers other than voluntary participants cannot avoid the Cap and Trade Program related costs which will be borne by the Utility and allocated to them. Costs associated with Cap and Trade Program compliance are part of the Utilities' cost of providing natural gas service similar to other delivery costs. In the OEB's view the most important driver of consumer behaviour is total price. This has been borne out by research that the OEB has undertaken in the past in relation to consumers' response to electricity bills. This research showed that low volume customers are much more focused on the total amount owing on their bill than individual line items.

Stakeholders representing large gas users, in particular LFEs, suggested that the charge should be separated to enable them to confirm that they had been charged the appropriate amounts, recognizing the different treatment of LFEs in relation to the recovery of customer-related obligation costs. Since the OEB is requiring separate rates on the utility tariffs, large gas users (such as LFEs and voluntary participants) will have access to the information necessary to determine the amount they will be/have been charged in any billing period for both facility-related and customer-related costs.

## **Customer Outreach and Key Messaging**

**The OEB has determined that in order to provide all Ontario natural gas consumers with consistent information, Utilities will be expected to use a set of key messages in their customer communications which will be provided by the OEB.** The OEB will not require Utilities' customer communications to be approved before they are issued.

Stakeholders had a variety of views regarding consumer communications. Ratepayer and industry groups generally supported staff's proposal that the OEB review and approve each utility's proposed communications strategy. One residential consumer group supported a comprehensive effort on the part of the OEB and the Utilities to educate customers. The Utilities and some other stakeholders did not support explicit OEB approval of messaging and wording. They suggested that the Utilities have a better understanding of their customers and that they should manage their own communication strategies. Several of these stakeholders did support sharing bill insert communication and/or key themes to be included in customer education. The Utilities were also concerned that an additional approval process could delay the provision of timely information to customers.

The OEB considers appropriate customer outreach and education to be essential to consumer understanding of the Cap and Trade Program and the way in which the program will affect consumer bills. Given that the program is being implemented across the province, consistent messaging across all Utilities will minimize the potential for customer confusion.

The OEB has therefore decided that it will provide the Utilities with key messages that should be included in communications to low volume consumers, and will not require the Utilities to submit their communications to the OEB for approval. This will ensure consistency in messaging while allowing the Utilities the flexibility to develop their communications strategies in a way that they believe best responds to the needs of their customers. The key messages will be provided by the OEB in a separate letter. The OEB will expect the Utilities to provide their customer communication materials to the OEB prior to any Cap and Trade-related information being delivered to customers.

The OEB thanks all stakeholders for their comments on the Discussion Paper. Comments on the issues not addressed in this letter will inform the OEB as it proceeds to finalize the rest of the Framework for issuance this Fall. If stakeholders have questions regarding this letter, they may contact Laurie Klein at [laurie.klein@ontarioenergyboard.ca](mailto:laurie.klein@ontarioenergyboard.ca) or Rachele Levin at [rachele.levin@ontarioenergyboard.ca](mailto:rachele.levin@ontarioenergyboard.ca)

Yours truly,

*Original signed by*

Kirsten Walli  
Board Secretary

UNION GAS LIMITED

Answer to Interrogatory from  
Energy Probe Research Foundation (“Energy Probe”)

Preamble: Union and EGDI are expected to become Affiliates after completion of the sale of Sempra Stock to Enbridge Inc.

- a) Has Union considered the various regulatory Implications in regards to affiliate relations in terms of its transactions with Enbridge Gas Distribution, for example with various services such as M12 and M12X services?
- b) If so please provide a summary of the issues.

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**Response:**

- a) and b) No, Union has not considered these implications as the merger between Enbridge Inc. and Spectra Energy has not yet been approved. Regardless of ownership structure, Union is always fully compliant with the Board’s Affiliate Relationship Code.

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 2, Page 2 and EB-2013-0365 Exhibit A, Tab 4, page 24

Preamble: The Application Tab 2 states: "The quantities shown are the Dawn to Parkway equivalent of Dawn to Kirkwall turnback at an equivalency factor of approximately 73%.

Exhibit A, Tab 4, page 24 states: "The net effect of "re-purposing" the Dawn-Kirkwall capacity is that only a portion of the Dawn-Kirkwall capacity is available when converted to move gas from Dawn-Parkway. To compensate for this, Union has calculated an average Parkway equivalency factor for the purpose of this proposal at approximately 84% based on the configuration of the Dawn-Parkway system for each year."

We would like to understand the reduction in equivalency as it relates to new facilities.

Please provide an explanation of the impact of new facilities on the equivalency factor aided by schematics of the Dawn-Parkway system demonstrating the different equivalency levels.

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**Response:**

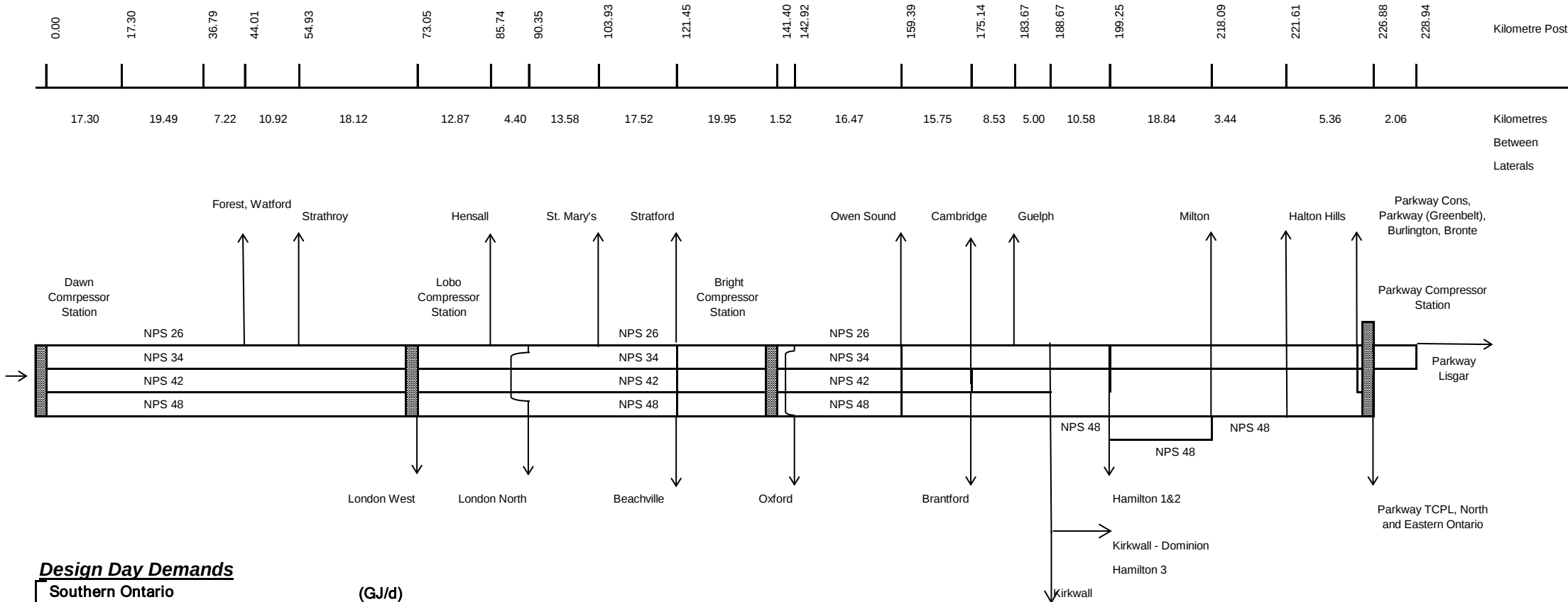
The equivalency factor is not static and can change for many reasons including changes in volume, location of demand along the Dawn Parkway system, the facilities planned and the timing of the demand changes in relation to the forecast and regulatory process.

As an example of the equivalency factor change, in EB-2015-0200, Exhibit A, Tab 6, Page 17, Lines 12-13, Union forecast 31,746 GJ/d of Dawn to Kirkwall turnback in Winter 2017/2018. This resulted in an equivalent volume at Parkway of 29,556 GJ/d (Tab 8, Page 6, Lines 11-12). The ratio of the two values results in an equivalency factor of 93%. The equivalent value at Parkway forms part of the capacity of the Dawn Parkway system which is then used to determine the need for facilities to serve forecast demand. Please see Attachment 1, labelled "Winter Design Day Dawn – Parkway System Winter 2016/2017", for the schematic prior to the turnback. Please see Attachment 2, labelled as "Winter Design Day Dawn – Parkway System Winter 2016/2017 including 31,746 GJ/d of D-K turnback", for the schematic after the turnback. The Kirkwall demands have been reduced by 31,746 GJ/d and the system shortfall has been reduced by 29,556 GJ/d.

After the Lobo D and Bright C facilities were approved, Union received notice of an additional Dawn to Kirkwall turnback of 59,778 GJ/d for Winter 2017/2018. This turnback resulted in an equivalent volume at Parkway of 38,093 GJ/d. This is an equivalency factor of 63%. Please see Attachment 3, labelled as “Winter Design Day Dawn – Parkway System Winter 2017/2018”, for the schematic prior to the turnback. Please see Attachment 4, labelled as “Winter Design Day Dawn – Parkway System Winter 2016/2017 including 59,778 GJ/d of D-K turnback”, for the schematic after the turnback. The Kirkwall demands have been reduced by 59,778 GJ/d and the system surplus has been increased by 38,093 GJ/d.

The two values together equate to a total equivalency factor of 73% for Winter 2017/2018.

Union Gas Dawn to Parkway System



Design Day Demands

| Southern Ontario          |  | (GJ/d)    |
|---------------------------|--|-----------|
| Forest, Watford           |  | 11663     |
| Strathroy                 |  | 8945      |
| London West               |  | 102533    |
| Hensall                   |  | 52695     |
| London North              |  | 95779     |
| St. Mary's                |  | 7774      |
| Stratford                 |  | 49051     |
| Beachville                |  | 54899     |
| Oxford                    |  | 49342     |
| Owen Sound                |  | 249767    |
| Cambridge                 |  | 75899     |
| Brantford                 |  | 104666    |
| Kirkwall - Dominion       |  | 94738     |
| Guelph                    |  | 91335     |
| Hamilton 3                |  | 70254     |
| Hamilton 1&2              |  | 266213    |
| Milton                    |  | 74184     |
| Halton Hills              |  | 144373    |
| Parkway (Greenbelt)       |  | 43203     |
| Burlington, Bronte        |  | 146143    |
| Total Southern Ontario    |  | 1,793,456 |
| North and Eastern Ontario |  | 409,272   |
| Kirkwall                  |  | 208,953   |
| Parkway TCPL              |  | 3,813,397 |
| Parkway Cons/Lisgar       |  | 1,238,085 |
| Total M12                 |  | 5,260,435 |
| Total Design Day Demands  |  | 7,463,163 |

System Capacity

|                                                      | (GJ/d)    |
|------------------------------------------------------|-----------|
| Total System Capacity                                | 7,396,781 |
| including Parkway Delivery Obligation                | 382,747   |
| Supplies for Kirkwall to Parkway Contracts and Union | 357,402   |
| Total Requirements                                   | 7,463,163 |
| Total (Shortfall) Surplus                            | -66,382   |

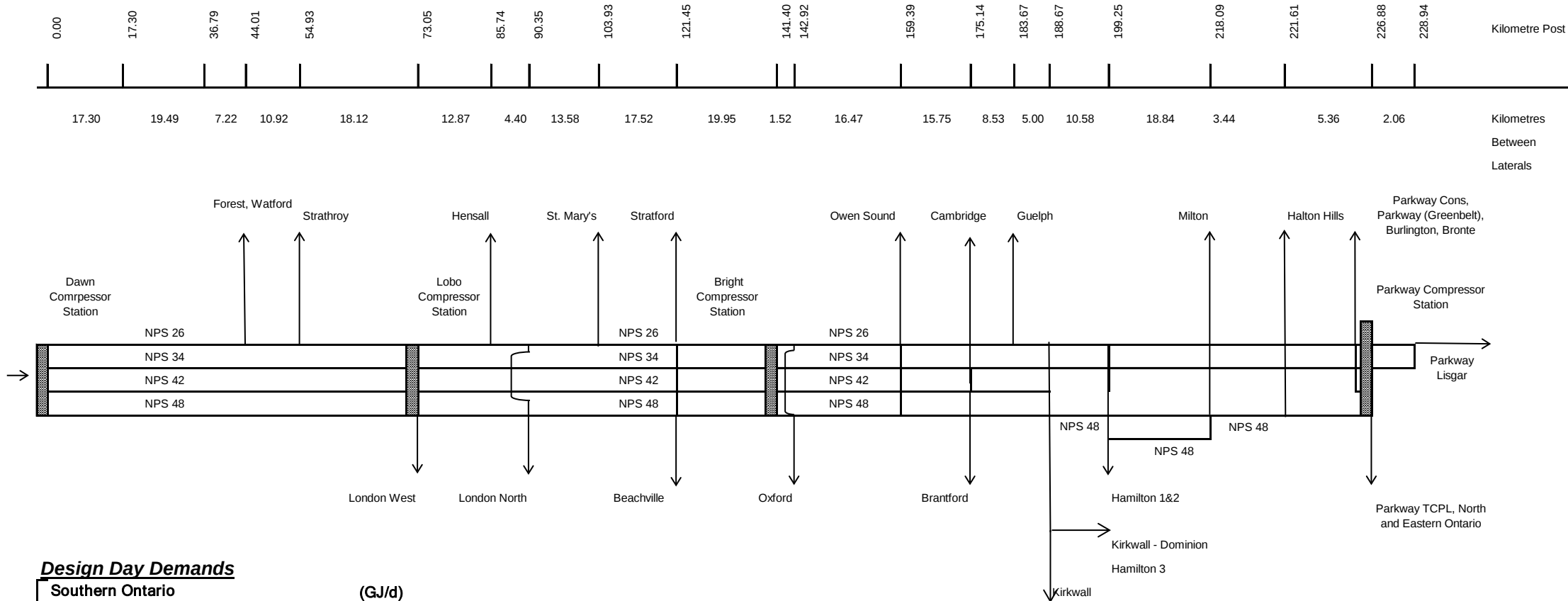
Compressor Stations

Operating Conditions at Peak Hour

| STATION              | LOBO      | BRIGHT    | PARKWAY   |
|----------------------|-----------|-----------|-----------|
| Power Available (MW) | 66.8      | 93.5      | 87.7      |
| Power Required (MW)  | 66.8      | 93.5      | 87.3      |
| Pressure             |           |           |           |
| Suction (kPa)        | 4,195     | 3,705     | 3,448     |
| Discharge (kPa)      | 5,450     | 5,588     | 6,453     |
| Compression Ratio    | 1.30      | 1.51      | 1.87      |
| Flow (GJ/d)          | 6,611,766 | 6,309,276 | 3,773,214 |
| Daily Fuel (GJ/d)    | 21,645    | 23,160    | 18,926    |

WINTER DESIGN DAY  
 DAWN - PARKWAY SYSTEM  
 WINTER 2016/2017

Union Gas Dawn to Parkway System



**Design Day Demands**

| Southern Ontario          |  | (GJ/d)    |
|---------------------------|--|-----------|
| Forest, Watford           |  | 11663     |
| Strathroy                 |  | 8945      |
| London West               |  | 102533    |
| Hensall                   |  | 52695     |
| London North              |  | 95779     |
| St. Mary's                |  | 7774      |
| Stratford                 |  | 49051     |
| Beachville                |  | 54899     |
| Oxford                    |  | 49342     |
| Owen Sound                |  | 249767    |
| Cambridge                 |  | 75899     |
| Brantford                 |  | 104666    |
| Kirkwall - Dominion       |  | 94738     |
| Guelph                    |  | 91335     |
| Hamilton 3                |  | 70254     |
| Hamilton 1&2              |  | 266213    |
| Milton                    |  | 74184     |
| Halton Hills              |  | 144373    |
| Parkway (Greenbelt)       |  | 43203     |
| Burlington, Bronte        |  | 146143    |
| Total Southern Ontario    |  | 1,793,456 |
| North and Eastern Ontario |  | 409,272   |
| Kirkwall                  |  | 177,207   |
| Parkway TCPL              |  | 3,813,397 |
| Parkway Cons/Lisgar       |  | 1,238,085 |
| Total M12                 |  | 5,228,689 |
| Total Design Day Demands  |  | 7,431,417 |

**System Capacity**

|                                                      | (GJ/d)    |
|------------------------------------------------------|-----------|
| Total System Capacity                                | 7,394,591 |
| including Parkway Delivery Obligation                | 382,747   |
| Supplies for Kirkwall to Parkway Contracts and Union | 357,402   |
| Total Requirements                                   | 7,431,417 |
| Total (Shortfall) Surplus                            | -36,826   |

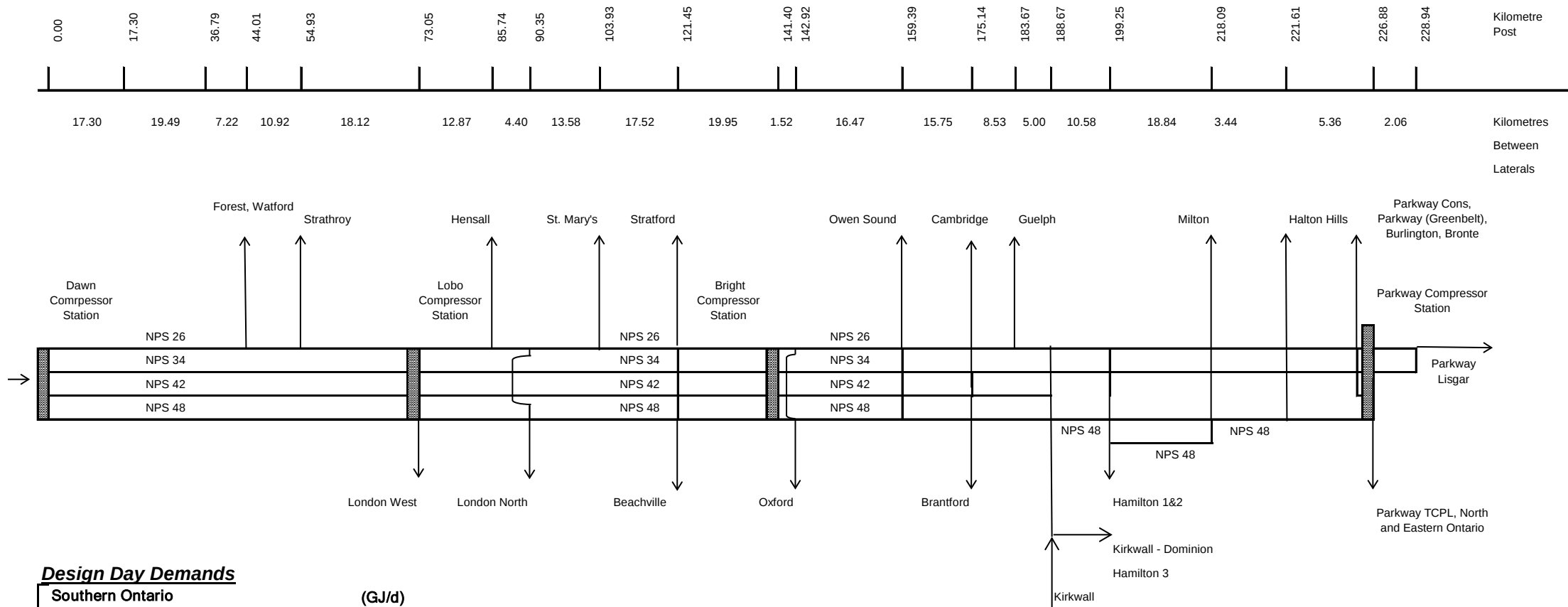
WINTER DESIGN DAY  
DAWN - PARKWAY SYSTEM  
WINTER 2016/2017  
including 31746 GJ/d D-K turnback

**Compressor Stations**

**Operating Conditions at Peak Hour**

| STATION              | LOBO      | BRIGHT    | PARKWAY   |
|----------------------|-----------|-----------|-----------|
| Power Available (MW) | 66.8      | 93.5      | 87.7      |
| Power Required (MW)  | 66.8      | 93.5      | 87.3      |
| Pressure             |           |           |           |
| Suction (kPa)        | 4,195     | 3,709     | 3,448     |
| Discharge (kPa)      | 5,452     | 5,596     | 6,453     |
| Compression Ratio    | 1.30      | 1.51      | 1.87      |
| Flow (GJ/d)          | 6,610,120 | 6,310,166 | 3,802,770 |
| Daily Fuel (GJ/d)    | 21,645    | 23,160    | 19,069    |

Union Gas Dawn to Parkway System



Design Day Demands

| Southern Ontario          |  | (GJ/d)    |
|---------------------------|--|-----------|
| Forest, Watford           |  | 11663     |
| Strathroy                 |  | 8945      |
| London West               |  | 102533    |
| Hensall                   |  | 52695     |
| London North              |  | 95779     |
| St. Mary's                |  | 7774      |
| Stratford                 |  | 49051     |
| Beachville                |  | 54899     |
| Oxford                    |  | 49342     |
| Owen Sound                |  | 249767    |
| Cambridge                 |  | 75899     |
| Brantford                 |  | 104666    |
| Kirkwall - Dominion       |  | 94738     |
| Guelph                    |  | 91335     |
| Hamilton 3                |  | 70254     |
| Hamilton 1&2              |  | 266213    |
| Milton                    |  | 74184     |
| Halton Hills              |  | 144373    |
| Parkway (Greenbelt)       |  | 43203     |
| Burlington, Bronte        |  | 146143    |
| Total Southern Ontario    |  | 1,793,456 |
| North and Eastern Ontario |  | 415,247   |
| Kirkwall                  |  | 177,207   |
| Parkway TCPL              |  | 4,250,032 |
| Parkway Cons/Lisgar       |  | 1,238,085 |
| Total M12                 |  | 5,665,324 |
| Total Design Day Demands  |  | 7,874,027 |

System Capacity

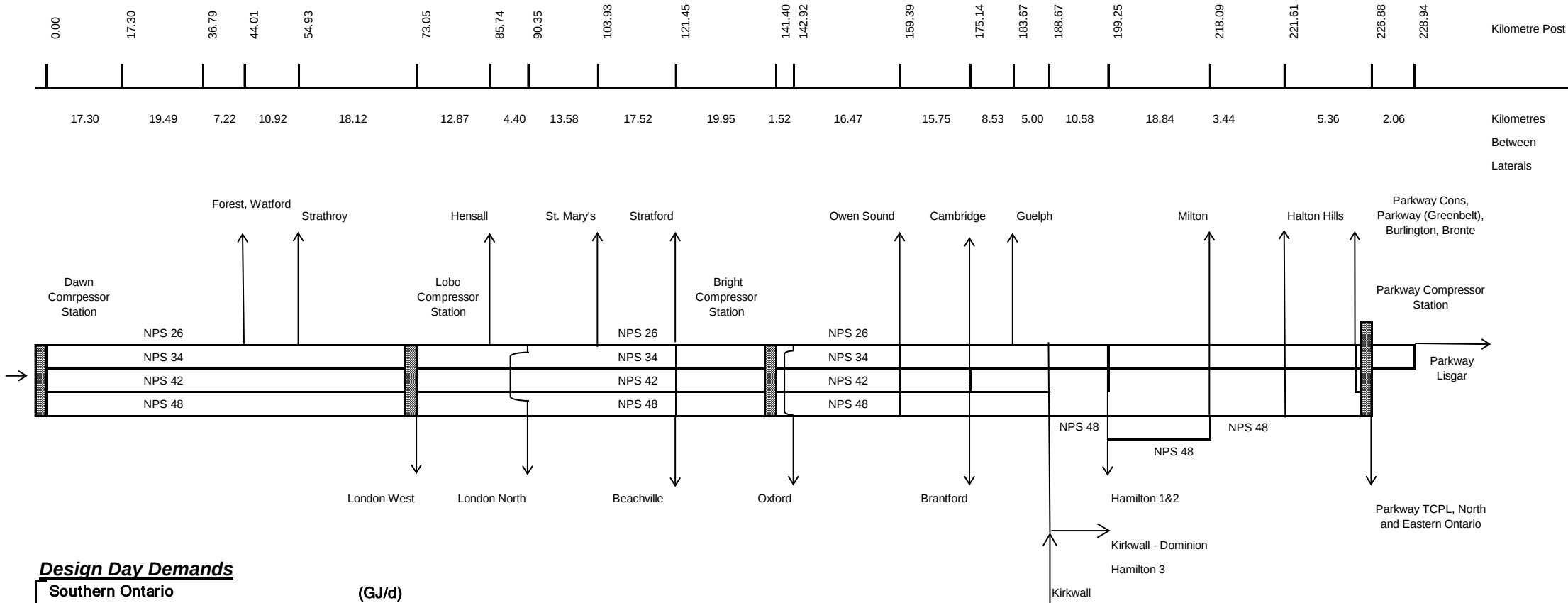
|                                                      | (GJ/d)    |
|------------------------------------------------------|-----------|
| Total System Capacity                                | 7,904,420 |
| including                                            |           |
| Parkway Delivery Obligation                          | 359,969   |
| Supplies for Kirkwall to Parkway Contracts and Union | 442,256   |
| Total Requirements                                   | 7,874,027 |
| Total (Shortfall) Surplus                            | 30,393    |
| Union Markets                                        |           |
| M12 Transportation                                   |           |
| Kirkwall                                             |           |
| Lisgar, Parkway                                      | 30,393    |

Compressor Stations  
Operating Conditions at Peak Hour

| STATION              | LOBO      | BRIGHT    | PARKWAY   |
|----------------------|-----------|-----------|-----------|
| Power Available (MW) | 102.3     | 126.6     | 87.7      |
| Power Required (MW)  | 102.3     | 126.6     | 87.7      |
| Pressure             |           |           |           |
| Suction (kPa)        | 3,791     | 3,547     | 3,651     |
| Discharge (kPa)      | 5,584     | 6,022     | 6,453     |
| Compression Ratio    | 1.47      | 1.70      | 1.77      |
| Flow (GJ/d)          | 7,131,782 | 7,030,239 | 4,346,759 |
| Daily Fuel (GJ/d)    | 30,947    | 31,954    | 18,880    |

WINTER DESIGN DAY  
DAWN - PARKWAY SYSTEM  
WINTER 2017/2018

Union Gas Dawn to Parkway System



Design Day Demands

| Southern Ontario                 |  | (GJ/d)           |
|----------------------------------|--|------------------|
| Forest, Watford                  |  | 11663            |
| Strathroy                        |  | 8945             |
| London West                      |  | 102533           |
| Hensall                          |  | 52695            |
| London North                     |  | 95779            |
| St. Mary's                       |  | 7774             |
| Stratford                        |  | 49051            |
| Beachville                       |  | 54899            |
| Oxford                           |  | 49342            |
| Owen Sound                       |  | 249767           |
| Cambridge                        |  | 75899            |
| Brantford                        |  | 104666           |
| Kirkwall - Dominion              |  | 94738            |
| Guelph                           |  | 91335            |
| Hamilton 3                       |  | 70254            |
| Hamilton 1&2                     |  | 266213           |
| Milton                           |  | 74184            |
| Halton Hills                     |  | 144373           |
| Parkway (Greenbelt)              |  | 43203            |
| Burlington, Bronte               |  | 146143           |
| <b>Total Southern Ontario</b>    |  | <b>1,793,456</b> |
| <b>North and Eastern Ontario</b> |  | <b>415,247</b>   |
| Kirkwall                         |  | 117,429          |
| Parkway TCPL                     |  | 4,250,032        |
| Parkway Cons/Lisgar              |  | 1,238,085        |
| <b>Total M12</b>                 |  | <b>5,665,324</b> |
| <b>Total Design Day Demands</b>  |  | <b>7,874,027</b> |

System Capacity

|                                                      | (GJ/d)           |
|------------------------------------------------------|------------------|
| <b>Total System Capacity</b>                         | <b>7,942,513</b> |
| including Parkway Delivery Obligation                | 359,969          |
| Supplies for Kirkwall to Parkway Contracts and Union | 442,256          |
| <b>Total Requirements</b>                            | <b>7,874,027</b> |
| <b>Total (Shortfall) Surplus</b>                     | <b>68,486</b>    |
| Union Markets                                        |                  |
| M12 Transportation                                   |                  |
| Kirkwall                                             |                  |
| Lisgar, Parkway                                      | 68,486           |

WINTER DESIGN DAY  
 DAWN - PARKWAY SYSTEM  
 WINTER 2017/2018  
 including 59778 GJ/d D-K turnback

Compressor Stations

Operating Conditions at Peak Hour

| STATION              | LOBO      | BRIGHT    | PARKWAY   |
|----------------------|-----------|-----------|-----------|
| Power Available (MW) | 102.3     | 126.6     | 87.7      |
| Power Required (MW)  | 102.3     | 126.6     | 87.7      |
| Pressure             |           |           |           |
| Suction (kPa)        | 3,782     | 3,568     | 3,651     |
| Discharge (kPa)      | 5,582     | 6,050     | 6,453     |
| Compression Ratio    | 1.48      | 1.70      | 1.77      |
| Flow (GJ/d)          | 7,125,190 | 7,027,316 | 4,384,852 |
| Daily Fuel (GJ/d)    | 30,913    | 28,852    | 19,524    |

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 2, Page 3

Preamble: We would like to understand more about the nature of the contracts being turned back.

Please expand Table 1 to provide the breakdown between Dawn-Kirkwall, Dawn-Parkway and Kirkwall-Parkway for each the years.

- a) Please include the results of turnback elections from the October 31, 2016 deadline in the updated Table.

---

**Response:**

- a) Exhibit A, Tab 2, p. 3, Table 1 only includes turnback received from Dawn to Kirkwall as this is the only capacity that was agreed to be used to facilitate PDO reductions.

There were no contracts from Dawn to Kirkwall turned back for November 1, 2018.

Supplemental response to FRPO Letter dated November 13, 2016:

Per 2014 Rates (EB-2013-0365), Settlement Agreement, Appendix B, p. 4, para. 2. iii, "*Any Dawn to Kirkwall M12 capacity turned back to Union by ex-franchise shippers will be used to first, reduce the Parkway shortfall and secondly, to further reduce the PDO.*"

Consistent with the Settlement Agreement, in Union's EB-2013-0365, Exhibit A, Tab 2, p. 3, Table 1, and again in the original interrogatory response, only the Dawn to Kirkwall capacity that was turned back to Union was included, which are the only volumes being used to reduce the Parkway shortfall and further reduce the PDO.

Please see Table 1 below for the volumes on the Dawn to Parkway system that were turned back to Union.

Table 1

| <b>Path</b>         | <b>November 1, 2016</b> | <b>November 1, 2017</b> | <b>November 1, 2018</b> |
|---------------------|-------------------------|-------------------------|-------------------------|
| Dawn to Parkway*    | 7,636 GJ/day            | 86,515 GJ/day           | 89,969 GJ/day           |
| Kirkwall to Parkway | 0 GJ/day                | 0 GJ/day                | 0 GJ/day                |

\*Excluding TCE Halton Hills turnback which was allowed as part of the PDO Reduction Settlement Agreement

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 2, Page 4, lines 16-18

Preamble: *"Union expects to conduct a customer election process during the second quarter of 2017 where customers will determine their level of participation in the PDO shift effective November 1, 2017."*

Please provide the cost \$/GJ for the incremental capacity on the Dawn-Parkway system from the forecasted cost of each of the 2016 D-P Build and the 2017 D-P Build.

---

**Response:**

Based on cost estimates as filed in EB-2014-0261, the 2016 Dawn Parkway project was estimated to cost \$938 per GJ/d.

Based on cost estimates as filed in EB-2015-0200, the 2017 Dawn Parkway project was estimated to cost \$1,364<sup>1</sup> per GJ/d.

Supplemental response to FRPO Letter dated November 13, 2016:

- 1) Please see Attachment 1 for the per GJ/day cost of the PDO and PDCI.
- 2)
  - a) and b)

| TJ/d     | Winter<br>2014/2015 | Winter<br>2015/2016 | Winter<br>2016/2017 | Winter<br>2017/2018 |
|----------|---------------------|---------------------|---------------------|---------------------|
| Capacity | 6801                | 7014                | 7505                | 7878                |
| Demand   | 6643                | 7049                | 7443                | 7718                |

- c) Please see Attachment 2 for the amount of capacity recovered in rate base.
- d) Union did not acquire incremental resources in any of the years listed to manage the Parkway delivery shortfall.

---

<sup>1</sup> Note that this project cost includes replacement costs in addition to growth costs.

Union managed the PDO shortfall within its overall Dawn to Parkway system and did not acquire incremental resources in any of the years listed.

Table 1  
Cost per GJ of 2017 PDO and PDCI Costs in 2017 Rates

| Line<br>No. | Particulars                                   | PDO<br>(a) | PDCI<br>(b) |
|-------------|-----------------------------------------------|------------|-------------|
| 1           | Total Cost in Rates (\$000) (1)               | 8,426      | 16,559      |
| 2           | PDO Reduction/Remaining PDO Obligation (TJ/d) | <u>165</u> | <u>304</u>  |
| 3           | Cost per GJ (\$/GJ/d) (line 1/line 2)         | 51.19      | 54.39       |

Notes:

(1) Rate Order, Working Papers, Schedule 20, p.1, line 29.

Table 2  
Dawn-Parkway Capacity in 2017 Rates

| Line No. | Particulars                                   | Dawn-Parkway Capacity (TJ/d) |
|----------|-----------------------------------------------|------------------------------|
|          | Base Rates                                    |                              |
| 1        | 2013 Cost of Service                          | 6,803                        |
|          | 2014-2018 IRM Y Factor Adjustments            |                              |
|          | Capital Pass-through Projects                 |                              |
| 2        | Brantford-Kirkwall / Parkway D Project        | 433                          |
| 3        | Dawn Parkway 2016 System Expansion Project    | 443                          |
| 4        | 2017 Dawn Parkway Project (1)                 | 457                          |
| 5        | Total Dawn-Parkway Capacity in Rates as Filed | 8,135                        |
| 6        | Other Dawn-Parkway Capacity Changes (2)       | (257)                        |
| 7        | Total Dawn-Parkway Capacity at W17/18         | 7,878                        |

Notes:

- (1) The in-service date of the 2017 Dawn Parkway Project is forecast for November 2017. Rate Order, Working Papers, Schedule 4 includes the 2017 revenue requirement and two months of demands added to the Rate M12 billing units associated with the project.
- (2) Total Dawn-Parkway capacity has been reduced due to year to year modelling changes and ex-franchise and in-franchise demand changes along the Dawn-Parkway system. These changes in the Dawn-Parkway capacity do not impact filed rates.

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 2, Page 4, lines 16-18

Preamble: *"Union expects to conduct a customer election process during the second quarter of 2017 where customers will determine their level of participation in the PDO shift effective November 1, 2017."*

Given the incentive structure for PDCI proposed, would Union consider providing a reverse PDO (customer moving from Dawn to Parkway for obligated delivery) if the PDCI is less than the cost of required new Dawn to Parkway capacity through facility build? If not, why not?

---

**Response:**

The proposal to offer a "reverse PDO" is counter to what customers have been requesting for many years, which is to shift their delivery obligations from Parkway to Dawn.

Union has not considered a "reverse PDO" as a means to offset capital expansions on the Dawn Parkway System. Union offers existing Dawn to Parkway transportation holders the opportunity to turn back capacity through a reverse open season when capital expansions are proposed.

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 3, Page 22, Figure 11

Preamble: We would like to understand the supply portfolio allocation for the Northeast.

What market forces or other factors contribute to the majority of gas for the Northeast being sourced from Chicago as opposed to other locations?

---

**Response:**

The Chicago supply allocation to the Union North East Zone represents an allocation of Vector pipeline capacity that Union holds from November 2016 to October 2017. This capacity is used to satisfy Union North East Zone supply requirements.

In November of 2016, the Union North East portfolio is planned to change substantially as TransCanada PipeLine ("TransCanada") long-haul contracts originating at Empress are replaced by short-haul contracts originating at Parkway. This shift from long-haul transportation to short-haul transportation creates an "Uncommitted/Dawn" requirement for Union North East Zone customers.

In response to the incremental needs of gas supply customers, Union secured incremental Vector capacity for the 2016/2017 gas year. Union evaluated the options available at the time it secured this incremental capacity using the Gas Supply Planning Principles.

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 3, Page 24

For each of the last three years, please provide:

- a) The number of customers that moved from system gas to direct purchase
- b) The number above expressed as a percentage of the total system gas customers at the start of the period.
- c) The annual volume of gas associated with those customers
- d) The number above expressed as a percentage of the total system gas volume forecasted at the start of the period.
- e) Please provide the information in a) thru d) for the customers switching from direct purchase to system using direct purchase numbers and volumes for the expressed percentages.

---

**Response:**

- a) to e) Union does not report changes in the number of customers and their associated volume resulting from migration from system supply to direct purchase ("DP") and from DP to system supply discretely. However, Union does report its customers and volume by service type and rate class in its annual applications for deferral account disposition and earnings sharing. Union manages the net migration between system supply and DP.

Please see Attachment 1 for the number of migrating customers (column b), the percentage of system customers they represent (column d) and the respective volume (columns f and h).

Direct Purchase Customer Information

|      | Number of DP<br>customers | Change in<br>number of DP<br>customers | Number of<br>system<br>customers<br>start of year | Percent change in<br>DP customers to<br>system<br>customers | DP<br>consumption<br>(10 <sup>3</sup> m <sup>3</sup> ) | Change in DP<br>consumption<br>(10 <sup>3</sup> m <sup>3</sup> ) | Actual system<br>consumption<br>(10 <sup>3</sup> m <sup>3</sup> ) | Percent change<br>in DP<br>consumption to<br>actual system<br>consumption |
|------|---------------------------|----------------------------------------|---------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------|
|      | (a)                       | (b)                                    | (c)                                               | (d)                                                         | (e)                                                    | (f)                                                              | (g)                                                               | (h)                                                                       |
| 2015 | 121,317                   | -21,660                                | 1,276,522                                         | -1.7%                                                       | 9,391,689                                              | -437,795                                                         | 4,487,722                                                         | -9.8%                                                                     |
| 2014 | 142,977                   | -22,786                                | 1,232,917                                         | -1.8%                                                       | 9,829,484                                              | -294,864                                                         | 4,917,599                                                         | -6.0%                                                                     |
| 2013 | 165,763                   | -29,420                                | 1,183,770                                         | -2.5%                                                       | 10,124,348                                             | -191,785                                                         | 4,420,929                                                         | -4.3%                                                                     |
| 2012 | 195,183                   |                                        |                                                   |                                                             | 10,316,133                                             |                                                                  |                                                                   |                                                                           |

Notes:

Column (a) per Exhibit A, Tab 2, Appendix A, Schedule 10 of EB-2016-0118, EB-2015-0010, EB-2013-0109 columns (n - q) and EB-2014-0145 Actual columns (b) through (e).

Column (b) = change within column (a) between previous year and current year.

Column (c) per Exhibit A, Tab 2, Appendix A, Schedule 10 of EB-2015-0010, EB-2013-0109 column (m) and EB-2014-0145 Actual column (a).

Column (d) = column (b) / column(c).

Column (e) per Exhibit A, Tab 2, Appendix A, Schedule 6 of EB-2016-0118, EB-2015-0010, EB-2013-0109 columns (n - q) and EB-2014-0145 Actual columns (b) through (e).

Column (f) = change in column (e) between previous year and current year.

Column (g) per Exhibit A, Tab 2, Appendix A, Schedule 6 of EB-2015-0010, EB-2013-0109 column (m) and EB-2014-0145 Actual column (a).

Column (h) = column (f) / column (g).

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 3, pages 33-34

Preamble: Page 34 provides: *"Union's forecasted annual TransCanada transportation costs as of November 1, 2016, which includes FT, STS, and EMB, is currently forecasted to be approximately \$123 million. The proposed tolling methodologies, if approved as filed and with no changes to Union's portfolio as a result, would increase Union's total TransCanada transportation costs by 30% percent."*

We would like to understand better the bill impacts of these potential changes if the NEB approves the application:

Using the applied for rates and their underpinning methodologies, please provide the bill impacts for customers in each TCPL delivery area broken out by changes to distribution, transmission and storage.

---

**Response:**

Union's 2017 gas supply plan includes approximately \$16.1 million in annual STS demand costs, per Exhibit A, Rate Order, Working Papers, Schedule 23, p. 3, column (e). If Union were to update the 2017 gas supply plan for the proposed TransCanada tolling methodology, annual STS demand costs would increase by \$22.6 million for Union's North West Zone (MDA, WDA and SSMDA) and \$13.8 million for Union's North East Zone (NDA, NCDA and EDA), for a total increase of approximately \$36.4 million.

Based on the 2017 gas supply plan updated for incremental STS demand costs of \$36.4 million. Please see Table 1 below for the estimated bill impacts for Union North general service customers.

Table 1  
Union North  
General Service Customer Bill Impacts

| Line No. | Particulars (\$)        | Rate 01 (1)      |                  | Rate 10 (2)      |                  |
|----------|-------------------------|------------------|------------------|------------------|------------------|
|          |                         | Union North West | Union North East | Union North West | Union North East |
|          |                         | (a)              | (b)              | (c)              | (d)              |
| 1        | Delivery Charge         | -                | -                | -                | -                |
|          | Supply Charges          |                  |                  |                  |                  |
| 2        | Transportation to Union | -                | -                | -                | -                |
| 3        | Storage Services        | 146              | 35               | 4,561            | 1,020            |
| 4        | Commodity               | -                | -                | -                | -                |
| 5        | Total Bill Impact       | 146              | 35               | 4,561            | 1,020            |
| 6        | Total Bill (3)          | 895              | 918              | 24,295           | 24,472           |
| 7        | Total Bill Impact (%)   | 16%              | 4%               | 19%              | 4%               |

Notes:

- (1) Based on annual consumption of 2,200 m<sup>3</sup>.
- (2) Based on annual consumption of 93,000 m<sup>3</sup>.
- (3) Rate Order, Working Papers, Schedule 8. Union North West total bill based on the previous Western Zone and Union North East total bill based on the previous Eastern Zone.

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 3, pages 33-34

Preamble: Page 34 provides: *"Union's forecasted annual TransCanada transportation costs as of November 1, 2016, which includes FT, STS, and EMB, is currently forecasted to be approximately \$123 million. The proposed tolling methodologies, if approved as filed and with no changes to Union's portfolio as a result, would increase Union's total TransCanada transportation costs by 30% percent."*

We would like to understand better the bill impacts of these potential changes if the NEB approves the application:

Please provide a total bill for a customer in the NDA assuming Union continued to provide service to the NDA from Empress.

---

**Response:**

The potential changes associated with the proposed TransCanada PipeLine ("TransCanada") tolling methodology would not impact Union's short-haul transportation contracts to serve the Union NDA, as Union has contracted for this capacity for 15 years, with no option to turnback. Union also has Board-approval to base the Union North East Zone's gas supply commodity rate on a Dawn Reference Price consistent with the gas supply portfolio changes. Please see the response at Exhibit B.BOMA.12.

For the purpose of this response only, Union assumed a conversion of short-haul transportation contracts from Dawn with long-haul transportation contracts from Empress to serve the Union NDA in the 2017 gas supply plan. Specifically, Union converted 43,000 GJ/d and 67,000 GJ/d of short-haul transportation contracts to long-haul transportation, including the related compressor fuel adjustments. Based on long-haul transportation contracts from Empress, Union assumed gas supply commodity charges based on an Alberta Border Reference Price. Union also assumed no other potential changes related to this conversion (i.e. changes to Dawn to Parkway costs). Union estimates the transportation cost increase is approximately \$40.0 million for the Union North East Zone, which is partly offset by a decrease in the gas supply commodity charges for gas purchases at Empress versus Dawn.

To estimate the bill impacts for a customer in the Union NDA, Union assumed an incremental 3.0 cents/m<sup>3</sup> increase to the gas supply commodity rate to represent the gas supply cost differential between Dawn and Empress, consistent with the Dawn Reference Price and North T-Service proceeding (EB-2015-0181), Exhibit A, Tab 2, Table 2. Based on these assumptions, the estimated general service bill impacts for Union NDA customers are provided at Attachment 1.

UNION GAS LIMITED  
General Service Customer Bill Impacts based on Union NDA Assumptions (per Exhibit B.FRPO.8)

| Line No. | Particulars                                                         | Union North East Zone (Previously Northern Zone (Union NDA))<br>Rate 01 - Residential<br>(Annual Consumption of 2,200 m <sup>3</sup> ) |                                                                                    |                                   | Union North East Zone (Previously Northern Zone (Union NDA))<br>Rate 10 - Commercial / Industrial<br>(Annual Consumption of 93,000 m <sup>3</sup> ) |                                                                                    |                                   |
|----------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------|
|          |                                                                     | Union North<br>East Zone<br>Estimated<br>01-Jan-17<br>Total Bill (\$) (1) (2)<br>(a)                                                   | Union North<br>East Zone<br>Updated<br>01-Jan-17<br>Total Bill (\$) (1) (3)<br>(b) | Impact<br>(\$)<br>(c) = (b) - (a) | Union North<br>East Zone<br>Estimated<br>01-Jan-17<br>Total Bill (\$) (1) (2)<br>(d)                                                                | Union North<br>East Zone<br>Updated<br>01-Jan-17<br>Total Bill (\$) (1) (3)<br>(e) | Impact<br>(\$)<br>(f) = (e) - (d) |
|          | <u>Delivery Charges</u>                                             |                                                                                                                                        |                                                                                    |                                   |                                                                                                                                                     |                                                                                    |                                   |
| 1        | Monthly Charge                                                      | 252.00                                                                                                                                 | 252.00                                                                             | -                                 | 840.00                                                                                                                                              | 840.00                                                                             | -                                 |
|          | Delivery Commodity Charge                                           |                                                                                                                                        |                                                                                    |                                   |                                                                                                                                                     |                                                                                    |                                   |
| 2        | Customer-Related GHG Obligation                                     | -                                                                                                                                      | -                                                                                  | -                                 | -                                                                                                                                                   | -                                                                                  | -                                 |
| 3        | Other Delivery Commodity                                            | 200.33                                                                                                                                 | 200.33                                                                             | -                                 | 5,974.97                                                                                                                                            | 5,974.97                                                                           | -                                 |
| 4        | Total Delivery Charge                                               | 452.33                                                                                                                                 | 452.33                                                                             | -                                 | 6,814.97                                                                                                                                            | 6,814.97                                                                           | -                                 |
|          | <u>Supply Charges</u>                                               |                                                                                                                                        |                                                                                    |                                   |                                                                                                                                                     |                                                                                    |                                   |
| 5        | Transportation to Union                                             | 65.24                                                                                                                                  | 196.40                                                                             | 131.16                            | 2,539.16                                                                                                                                            | 6,939.56                                                                           | 4,400.40                          |
| 6        | Storage Services                                                    | 145.67                                                                                                                                 | 109.02                                                                             | (36.65)                           | 4,348.88                                                                                                                                            | 3,263.47                                                                           | (1,085.41)                        |
| 7        | Subtotal                                                            | 210.91                                                                                                                                 | 305.42                                                                             | 94.51                             | 6,888.04                                                                                                                                            | 10,203.03                                                                          | 3,314.99                          |
| 8        | Commodity                                                           | 318.54                                                                                                                                 | 252.54                                                                             | (66.00)                           | 13,466.11                                                                                                                                           | 10,676.11                                                                          | (2,790.00)                        |
| 9        | Total Gas Supply Charge                                             | 529.45                                                                                                                                 | 557.96                                                                             | 28.51                             | 20,354.15                                                                                                                                           | 20,879.14                                                                          | 524.99                            |
|          | <u>Total Bill</u>                                                   |                                                                                                                                        |                                                                                    |                                   |                                                                                                                                                     |                                                                                    |                                   |
| 10       | Including Customer-Related GHG Obligation                           | 981.78                                                                                                                                 | 1,010.29                                                                           | 28.51                             | 27,169.12                                                                                                                                           | 27,694.11                                                                          | 524.99                            |
| 11       | Excluding Customer-Related GHG Obligation                           | 981.78                                                                                                                                 | 1,010.29                                                                           | 28.51                             | 27,169.12                                                                                                                                           | 27,694.11                                                                          | 524.99                            |
|          | <u>Impacts</u>                                                      |                                                                                                                                        |                                                                                    |                                   |                                                                                                                                                     |                                                                                    |                                   |
|          | Sales Service                                                       |                                                                                                                                        |                                                                                    |                                   |                                                                                                                                                     |                                                                                    |                                   |
| 12       | Including Customer-Related GHG Obligation (line 10)                 |                                                                                                                                        |                                                                                    | 28.51                             |                                                                                                                                                     |                                                                                    | 524.99                            |
| 13       | Excluding Customer-Related GHG Obligation (line 11)                 |                                                                                                                                        |                                                                                    | 28.51                             |                                                                                                                                                     |                                                                                    | 524.99                            |
|          | Direct Purchase                                                     |                                                                                                                                        |                                                                                    |                                   |                                                                                                                                                     |                                                                                    |                                   |
| 14       | Including Customer-Related GHG Obligation (line 4+ line 7)          |                                                                                                                                        |                                                                                    | 94.51                             |                                                                                                                                                     |                                                                                    | 3,314.99                          |
| 15       | Excluding Customer-Related GHG Obligation (line 4+ line 7 - line 2) |                                                                                                                                        |                                                                                    | 94.51                             |                                                                                                                                                     |                                                                                    | 3,314.99                          |

Notes:

- (1) Excludes temporary charges/(credits) and prospective recovery.  
(2) Rate Order, Working Papers, Schedule 8, p. 3 & p. 6, column (e). Commodity increased by 3.0 cents/m<sup>3</sup> to represent a Dawn Reference Price.  
(3) Total bill based on assumptions provided at Exhibit B.FRPO.8.

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 3, pages 33-34

Preamble: Page 34 provides: *"Union's forecasted annual TransCanada transportation costs as of November 1, 2016, which includes FT, STS, and EMB, is currently forecasted to be approximately \$123 million. The proposed tolling methodologies, if approved as filed and with no changes to Union's portfolio as a result, would increase Union's total TransCanada transportation costs by 30% percent."*

We would like to understand better the bill impacts of these potential changes if the NEB approves the application:

Does Union contemplate consideration of changes in TCPL FT and STS contracting if the application is approved to adjust to the higher costs to use STS?

- a) If not, why not?
- b) If so, please outline the process for assessing the sourcing of gas (i.e., Empress versus Dawn) for the NDA and NCDA.
- c) Please provide a numeric example of the assessment for customers' bills in the NDA.

---

**Response:**

- a) to c) Please see the response at Exhibit B.BOMA.12.

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 3, Appendix B

Preamble: We would like to understand better Union's approach, methodology and cost implications of the Supply Demand Balance.

Please explain why the use of TCPL FT falls considerably in the month of March to service Union North customers when it is one of the higher consuming months.

- a) Please provide a summary table of SENDOUT outputs that demonstrate that this approach is the lowest cost solution for Northern customers.
- b) Please explain why storage withdrawals are maximized in that month along with short-haul transport to the respective North delivery areas.
  - i. Please ensure the explanation includes the impact on storage levels required to maintain deliverability and the incremental amount of gas to maintain deliverability.
  - ii. Please provide a financial assessment of the costs of carrying that incremental gas in storage.

---

**Response:**

From a gas supply planning perspective, Union plans for storage to be drawn down to the 6 PJ contingency level needed to maintain system integrity by the end of March. As a result, upstream supplies are reduced and withdrawals from storage are utilized to serve demands.

When planning, Union assumes weather normalized demands, and as a result, Union also assumes that all gas purchased will be used within the gas year. SENDOUT will determine when best to utilize gas from storage by balancing demand, transportation capability and commodity pricing to achieve the lowest cost solution.

- a) SENDOUT is a linear programming tool that provides the lowest cost solution. Exhibit A, Tab 3, Appendix B is a summary table of the lowest cost solution from SENDOUT.
- b)
  - i. Please see the response above.

- ii. The carrying cost of 6 PJ of system integrity gas as approved by the Board is calculated in the plan at the April 2016 QRAM Ontario Landed Reference Price of \$4.379/GJ with a composite return of 5.18% from EB-2016-0040, Tab 2, Schedule 4, for an inventory carrying cost of \$1.361 million for gas in storage for contingency, as calculated below.

April 2016 QRAM

|                                |              |              |
|--------------------------------|--------------|--------------|
| Ontario Landed Reference Price | 4.379        | \$/GJ        |
| Composite Return               | 5.18         | %            |
| Contingency Storage            | 6.000        | PJ           |
| Inventory Carrying Cost        | <b>1.361</b> | (\$ million) |

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 4, page 1-20

Preamble: We would like to understand better the attributes and costs of the Customer Managed Service.

Please provide a high level summary of the main similarities and differences between Union's proposed Customer Managed Service and the former U7 service offering.

---

**Response:**

| <b>Service Feature</b>               | <b>Former U7 Service*</b>                                                              | <b>Proposed CMS</b>                                                                                  |
|--------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Service Design Driver                | Customer desires more control over individual underpinning assets.                     | Customer desires to actively manage gas supply on a daily basis consistent with end-use consumption. |
| Primary eligibility criteria         | Annual firm and interruptible distribution service minimum of 5,000,000 m <sup>3</sup> | Daily Firm CD of at least 140,870 m <sup>3</sup>                                                     |
| Cost based Firm Storage Space        | Aggregate Excess                                                                       | Firm CD * 9                                                                                          |
| Cost based Firm Injection/Withdrawal | 1.2% of storage space with ratchets tied to storage inventory level, nominated         | 1.2% of storage space, nominated                                                                     |
| Balancing                            | +/-4% Daily Tolerance allowed                                                          | Daily Variance Account (Firm CD)                                                                     |
| Gas Supply                           | Non-obligated, subject to Parkway Call                                                 | Non-obligated at Dawn, obligated at Parkway                                                          |
| Consumption                          | Nominated                                                                              | Allocated                                                                                            |
| Rate Structure                       | Reflects service design                                                                | Reflects service design                                                                              |

\*The Unbundled services were approved in RP-1999-0017 Decision with Reasons, July 21, 2001 and implemented in November 2001<sup>1</sup>. No customer elected the U7 service. The U7 service was discontinued following EB-2011-0210, Decision and Order dated January 17, 2013.

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<sup>1</sup> RP-2000-0078, Decision with Reasons dated July 31, 2002, Section 4.1 paragraph 112.

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 4, page 1-20

Preamble: We would like to understand better the attributes and costs of the Customer Managed Service.

How does Union propose to replace the gas above ground at Dawn on peak days that was formerly provided by obligated deliveries from these customers on peak days?

- a) What is the forecasted cost of that replacement?
- b) Who bears the replacement cost?

---

**Response:**

- a) and b) There is no need for Union to "replace" the gas above ground at Dawn on a planned peak day. Currently, on a planned Peak Day, obligated DCQs plus Planned Storage Withdrawal on design day meet customer requirements. For the proposed CMS option, the gas supply delivered to Union plus storage withdrawals together meet design day requirements. Small differences may flow to/from the Daily Variance Account (subject to interruptions).

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 4, page 1-20

Preamble: We would like to understand better the attributes and costs of the Customer Managed Service.

What is the cost for systems changes required to manage, monitor, report and bill the CMS services?

a) Who bears these incremental costs?

---

**Response:**

The cost for systems changes required for managing, monitoring, reporting and billing the CMS option will be minimal and managed within Union's approved IRM framework.

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 4, page 18, lines 14-16

Preamble: *"Union is proposing to set the rates for the DVA based on existing cost-based storage rates, in accordance with the Rate T2 rate schedule. The firm storage space is set at Union's existing annual firm storage space demand charge of \$0.011/GJ".*

We would like to understand the derivation of the storage space demand charge.

Please show a comparable derivation of the storage space demand charge similar to Table 2 provided for the Injection and Withdrawal charges that demonstrates the composition of the rate.

---

**Response:**

Please see Table 1 below. The storage space demand charge of \$0.011/GJ is common for Rate T1, Rate T2 and Rate T3 and is set based on the Union South storage space revenue requirement and demands, per EB-2011-0210. Adjustments to the revenue requirement during Union's 2014-2018 IRM term have not resulted in a change to the rate.

Table 1  
Derivation of the Rate T2 Storage Space Monthly Demand Charge

| <u>Line No.</u> | <u>Particulars</u>                              |                       |
|-----------------|-------------------------------------------------|-----------------------|
| 1               | Storage Space Revenue Requirement (\$000's) (1) | \$10,189              |
| 2               | Storage Space Demand (GJ) (1)                   | <u>75,177,124</u>     |
| 3               | Storage Space Monthly Demand Charge (\$/GJ) (2) | <u><u>\$0.011</u></u> |

Notes:

- (1) EB-2011-0210, Rate Order, Working Papers, Schedule 19.  
(2) (Line 1 / line 2 x 1000) / 12.

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 4, Appendix C

Preamble: We would like to understand the charges associated with this new service.

For each the scenarios provided, please show the charges associated with this service with the utilization in the scenario.

---

**Response:**

The scenarios in Exhibit A, Tab 4, Appendix C were provided for the purposes of illustrating the Daily Variance Account injection/withdrawal calculations on a single day. The associated CMS Storage and Daily Variance Account utilization and overrun charges are shown below using the proposed Rate T2 Rate Schedule effective January 1, 2017.

***Example 1: Allocated Injection Calculation***

|                                       | <b>Commodity Charge<br/>(Rate/GJ)</b> | <b>Quantity<br/>(GJ)</b> | <b>Total<br/>(\$)</b> |
|---------------------------------------|---------------------------------------|--------------------------|-----------------------|
| <b>Storage Injections<sup>1</sup></b> | \$0.008                               | 100                      | \$0.80                |
| <b>DVA Injections<sup>1</sup></b>     | \$0.059                               | 500                      | \$29.50               |
| <b>Total</b>                          |                                       |                          | <b>\$30.30</b>        |

***Example 2: Allocated Withdrawal Calculation***

|                                        | <b>Commodity Charge<br/>(Rate/GJ)</b> | <b>Quantity<br/>(GJ)</b> | <b>Total<br/>(\$)</b> |
|----------------------------------------|---------------------------------------|--------------------------|-----------------------|
| <b>Storage Withdrawals<sup>1</sup></b> | \$0.008                               | 108                      | \$0.86                |
| <b>DVA Withdrawals<sup>1</sup></b>     | \$0.059                               | 292                      | \$17.23               |
| <b>Total</b>                           |                                       |                          | <b>\$18.09</b>        |

---

<sup>1</sup> For customers providing their own compressor fuel.

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 4, Appendix C

Preamble: We would like to understand the charges associated with this new service.

Are the expected incremental revenues to be generated from this service sufficient to cover the costs identified above and any additional costs Union has identified?

a) Please specify the nature of the additional costs and quantify the annual impact.

---

**Response:**

Please see the response at Exhibit B.FRPO.13.

UNION GAS LIMITED

Answer to Interrogatory from  
City of Kitchener ("Kitchener")

Union has indicated the largest drivers for the very substantial increase (32.1%) in the T3 rate (*Working Papers, Sched. 3, P. 1*) to be capital pass-throughs and parkway delivery obligation costs. Please provide a detailed explanation of the cost allocation methodology performed for each of these two drivers. Specifically describe how the various capital project costs and parkway delivery obligation\credit incentive costs are allocated to Kitchener.

---

**Response:**

Capital Pass-through Project Costs

The revenue requirement of capital pass-through projects included in Union's 2017 rates were previously approved by the Board in each of their respective proceedings. The detailed cost allocation methodology explanations can be found in each of the project specific proceedings. References for each proceeding can be found in Table 1 below.

Table 1  
Capital Pass-through Projects Proceedings

| <u>Line No.</u> | <u>Particulars</u>           | <u>OEB Case Number</u> | <u>Cost Allocation Methodology Reference</u> | <u>Date of Board Decision</u> |
|-----------------|------------------------------|------------------------|----------------------------------------------|-------------------------------|
|                 |                              | (a)                    | (b)                                          | (c)                           |
| 1               | Parkway West                 | EB-2012-0433           | Section 12, pp. 102-103                      | 30-Jan-14                     |
| 2               | Brantford-Kirkwall/Parkway D | EB-2013-0074           | Section 10, pp. 5-6                          | 30-Jan-14                     |
| 3               | Burlington-Oakville          | EB-2014-0182           | Exhibit A, Tab 3, p. 4                       | 17-Dec-15                     |
| 4               | 2016 Dawn to Parkway         | EB-2014-0261           | Exhibit A, Tab 3, pp. 4-5                    | 30-Apr-15                     |
| 5               | 2017 Dawn to Parkway         | EB-2015-0200           | Exhibit A, Tab 3, p. 6                       | 22-Dec-15                     |

As a wholesale customer taking service under Rate T3, the City of Kitchener is allocated a lower proportion of distribution costs than an end-use distribution customer. The lower allocation of distribution costs results in a lower benefit associated with the reallocation of indirect costs and income tax allocation. As a result, the Project costs allocated to Rate T3 are only partly offset by the reallocation of indirect costs and taxes, based on Board-approved methodology.

Parkway Delivery Obligation Costs

The Parkway Delivery Obligation (“PDO”) and Parkway Delivery Commitment Incentive (“PDCI”) were approved by the Board in Union’s 2014 Rates proceeding (EB-2013-0365).

The PDO costs include the Rate M12 Dawn to Parkway demand costs and incremental compressor fuel costs associated with the PDO reduction and Rate M12 turnback. The Dawn to Parkway demand costs are allocated to rate classes in proportion to the 2013 Board-approved design day demands on the Dawn-Parkway transmission system. The compressor fuel costs are allocated to Union South in-franchise rate classes in proportion to the 2013 Board-approved delivery volumes for customers located east of Dawn.

The PDCI costs are allocated to rate classes in the same manner as the PDO costs.

UNION GAS LIMITED

Answer to Interrogatory from  
City of Kitchener ("Kitchener")

Please provide a detailed explanation of the methodology used to determine a rate increase of 5.0873 cents per cubic meter (*Rate Order, Appendix A, P.12*) to the T3 transportation firm demand charge.

---

**Response:**

The increase in the Rate T3 transportation firm demand charge is primarily driven by the increase in the capital pass-through projects and PDO costs included in 2017 Rates as summarized in Table 1 below. A detailed calculation of the change to the Rate T3 transportation firm demand charge is provided at Rate Order, Working Papers, Schedule 4, p.17-18, line 9.

Please see Exhibit B.Kitchener.1 for the description of the methodology used to allocate the capital pass-through projects and PDO costs.

Table 1  
Summary of Rate T3 Transportation Demand Rate Change

| Line<br>No. | Particulars                                | Revenue<br>Requirement<br>(\$000's)<br>(a) | Demand<br>(10 <sup>3</sup> m <sup>3</sup> /d/mo)<br>(b) | Unit Rate<br>(cents/m <sup>3</sup> /d/mo)<br>(c) = (a/b) |
|-------------|--------------------------------------------|--------------------------------------------|---------------------------------------------------------|----------------------------------------------------------|
| 1           | Current Approved Revenue and Unit Rate (1) | 3,281                                      | 28,200                                                  | 11.6340                                                  |
|             | 2017 Changes in Revenue                    |                                            |                                                         |                                                          |
| 2           | Capital Pass-Throughs (2)                  | 610                                        | 28,200                                                  | 2.1619                                                   |
| 3           | Parkway Delivery Obligation (3)            | 807                                        | 28,200                                                  | 2.8622                                                   |
| 4           | Price Cap Index (4)                        | 18                                         | 28,200                                                  | 0.0632                                                   |
| 5           | Proposed Revenue and Unit Rate (5)         | 4,715                                      |                                                         | 16.7213                                                  |
| 6           | Unit Rate Change (line 5 - line 1)         |                                            |                                                         | 5.0873                                                   |

Notes:

- (1) Rate Order, Working Papers, Schedule 4, line 9, columns (a), (b) & (c).
- (2) Rate Order, Working Papers, Schedule 4, line 9, column (e) + column (m).
- (3) Rate Order, Working Papers, Schedule 4, line 9, column (f) + column (n).
- (4) Rate Order, Working Papers, Schedule 4, line 9, column (i).
- (5) Rate Order, Working Papers, Schedule 4, line 9, columns (r) & (u).

UNION GAS LIMITED

Answer to Interrogatory from  
City of Kitchener ("Kitchener")

Please provide a detailed explanation of the rationale between Parkway Delivery Obligation (PDO) costs and Parkway Delivery Credit Incentive (PDCI) costs. Kitchener is to be receiving a PDCI credit on our PDO for 2017 and this has not been reflected.

---

**Response:**

The PDO costs reflect the annual Rate M12 Dawn to Parkway demand and fuel costs associated with the Dawn to Parkway capacity used to facilitate the reduction to obligated DCQ deliveries at Parkway (PDO). The recovery of the PDO costs through rates recognizes the costs associated with the Dawn-Parkway capacity used to facilitate the PDO reduction.

The PDCI costs reflect the PDCI credit rate multiplied by the remaining PDO volumes. The PDCI credit is paid monthly to direct purchase customers based on their PDO, effective November 1, 2016. The recovery of the PDCI costs through rates recognizes the incremental cost to Union of providing customers the PDCI. The PDCI credit payment has not been included in the application because it is only applicable to customers with a PDO and not necessarily all customers within a particular rate class.

UNION GAS LIMITED

Answer to Interrogatory from  
City of Kitchener ("Kitchener")

Specifically related to the 2017 Parkway Delivery Obligation (PDO) costs, to the best of our knowledge, Union does not use Parkway equipment including compressors to supply Kitchener and these costs should not be allocated as such. Kindly confirm that these costs are not being attributed to Kitchener.

---

**Response:**

Not confirmed. Consistent with EB-2013-0365, Updated Settlement Agreement, Appendix B, the Parkway Delivery Obligation ("PDO") demand costs are calculated using the 2017 Rate M12 Dawn to Parkway demand rate, which includes an allocation of Union's Parkway compressor station. These costs are allocated to Union South in-franchise rate classes in proportion to the 2013 Board-approved design day demands on the Dawn-Parkway transmission system.

Please see the response at Exhibit B.Kitchener.3 for an explanation of the rationale of the PDO costs.

UNION GAS LIMITED

Answer to Interrogatory from  
London Property Management Association ("LPMA")

Reference: Exhibit A, Tab 1

Please provide a version of the "Detail Change in Revenue" section of Table 1 that provides the same breakdown of the \$46,074 increase as shown in lines 4 through 9, but does so at the rate class level.

---

**Response:**

Please see Attachment 1 for the requested breakdown.

UNION GAS LIMITED  
Detail Change in Revenue by Rate Class  
Effective January 1, 2017

| Line No. | Particulars (\$000's)               | 2017 Price Cap Index (0.66%)<br>(a) | 2017 Union North Redesign<br>(b) | 2017 DSM Budget Change<br>(c) | 2017 Capital Pass-throughs<br>(d) | 2017 Parkway Delivery Obligation<br>(e) | 2017 Facility-Related GHG Obligation<br>(f) | Total Change In Revenue<br>(g) = (sum a:f) |
|----------|-------------------------------------|-------------------------------------|----------------------------------|-------------------------------|-----------------------------------|-----------------------------------------|---------------------------------------------|--------------------------------------------|
|          | <u>In-franchise</u>                 |                                     |                                  |                               |                                   |                                         |                                             |                                            |
| 1        | Rate 01                             | 1,143                               | (15,922)                         | 524                           | (1,791)                           | (0)                                     | -                                           | (16,047)                                   |
| 2        | Rate 10                             | 149                                 | (6,521)                          | 276                           | (46)                              | (0)                                     | -                                           | (6,142)                                    |
| 3        | Rate 20                             | 91                                  | (2,312)                          | (160)                         | (244)                             | (0)                                     | -                                           | (2,626)                                    |
| 4        | Rate 25                             | 30                                  | (1,119)                          | -                             | (105)                             | -                                       | -                                           | (1,194)                                    |
| 5        | Rate 100                            | 93                                  | 111                              | (214)                         | (278)                             | (0)                                     | -                                           | (289)                                      |
| 6        | Rate M1                             | 2,540                               | -                                | 1,571                         | (873)                             | 8,280                                   | -                                           | 11,517                                     |
| 7        | Rate M2                             | 310                                 | -                                | 975                           | 1,272                             | 2,807                                   | -                                           | 5,365                                      |
| 8        | Rate M4                             | 71                                  | -                                | (262)                         | 449                               | 901                                     | -                                           | 1,159                                      |
| 9        | Rate M5A                            | 70                                  | -                                | (349)                         | (239)                             | 174                                     | -                                           | (344)                                      |
| 10       | Rate M7                             | 21                                  | -                                | (91)                          | 196                               | 402                                     | -                                           | 528                                        |
| 11       | Rate M9                             | 5                                   | -                                | -                             | 81                                | 158                                     | -                                           | 244                                        |
| 12       | Rate M10                            | 0                                   | -                                | -                             | 2                                 | 4                                       | -                                           | 6                                          |
| 13       | Rate T1                             | 59                                  | -                                | (132)                         | 330                               | 562                                     | -                                           | 820                                        |
| 14       | Rate T2                             | 267                                 | -                                | (389)                         | 2,913                             | 3,246                                   | -                                           | 6,036                                      |
| 15       | Rate T3                             | 30                                  | -                                | -                             | 581                               | 1,020                                   | -                                           | 1,631                                      |
| 16       | Total In-Franchise                  | <u>4,878</u>                        | <u>(25,764)</u>                  | <u>1,749</u>                  | <u>2,247</u>                      | <u>17,553</u>                           | <u>-</u>                                    | <u>663</u>                                 |
|          | <u>Ex-franchise</u>                 |                                     |                                  |                               |                                   |                                         |                                             |                                            |
| 17       | Rate M12                            | 1,069                               | -                                | -                             | 42,917                            | (21)                                    | -                                           | 43,965                                     |
| 18       | Rate M13                            | 3                                   | -                                | -                             | (4)                               | -                                       | -                                           | (1)                                        |
| 19       | Rate M16                            | 5                                   | -                                | -                             | (4)                               | (0)                                     | -                                           | 1                                          |
| 20       | Rate C1                             | 51                                  | -                                | -                             | 1,426                             | (7)                                     | -                                           | 1,471                                      |
| 21       | Total Ex-Franchise                  | <u>1,128</u>                        | <u>-</u>                         | <u>-</u>                      | <u>44,336</u>                     | <u>(28)</u>                             | <u>-</u>                                    | <u>45,436</u>                              |
| 22       | Gas Supply Admin Charge             | -                                   | -                                | -                             | (26)                              | -                                       | -                                           | (26)                                       |
| 23       | Total (line 16 + line 21 + line 22) | <u>6,006</u>                        | <u>(25,764)</u>                  | <u>1,749</u>                  | <u>46,557</u>                     | <u>17,525</u>                           | <u>-</u>                                    | <u>46,074</u>                              |

UNION GAS LIMITED

Answer to Interrogatory from  
London Property Management Association ("LPMA")

Reference: Exhibit A, Tab 1, page 8 & Working Papers, Schedule 12

- a) Please provide details on the reasons for the decrease in NAC for each of the rates shown, including, for example, the amount or percent due to weather, the amount or percent due to the leap year, and other drivers.
  - b) Please provide the weather data, consumption by rate class and underlying working papers in support of the NAC values shown in Schedule 12.
- 

**Response:**

- a) and b) Please see the response at Exhibit B.Staff.9.

UNION GAS LIMITED

Answer to Interrogatory from  
London Property Management Association ("LPMA")

Reference: Exhibit A, Tab 1, pages 8-10

Does the proposal related to the Union North Cost Allocation and Rate Design Implementation have any impact on Union South Rates? If yes, please explain fully what these impacts are.

---

**Response:**

No. The Union North storage and transportation rate changes implemented as part of the 2017 rates application do not have any impact on Union South rates.

The changes resulting from the Dawn Reference Price (EB-2015-0181) Settlement Proposal will impact the Union South commodity and transportation rates. These will be implemented with the QRAM coincident with or immediately following the TransCanada King's North Project in-service date.

UNION GAS LIMITED

Answer to Interrogatory from  
London Property Management Association ("LPMA")

Reference: Exhibit A, Tab 1, pages 10-11 & Working Papers Schedule 20

The evidence indicates that the cost of the PDCI will be \$16.6 million for the January through December, 2017 period.

- a) Please provide the historical PDCI costs for 2014 through 2016 comparable to the \$16.6 million.
- b) Please provide the PDCI credit that was included in 2016 rates by rate class and the PDCI credit that will be included in 2017 rates, again by rate class.
- c) What is the impact of customers moving from direct purchase to system sales on the PDO and the PDCI? For example, what happens to delivery rates for a particular rate class if a significant amount of gas deliveries switch from direct purchase to system gas relative to that forecast by Union? Please explain fully.
- d) What is the date of the most recent information used by Union for the PDCI and PDO that reflects customers moving to and from system supply from direct purchase? If this date is not November 1, 2016, please explain why this date was not used.

---

**Response:**

- a) The effective date of the PDCI credit payment to customers for continued obligated DCQ deliveries at Parkway is November 1, 2016. Prior to the effective date, Union incurred no costs associated with the PDCI.

Union estimates the PDCI cost in 2016 to be approximately \$2.9 million for the two-month period from November 1, 2016 to December 31, 2016. Please see the response at Exhibit B.VECC.2.

Per the PDO Settlement Agreement (EB-2013-0365), these PDCI costs will be recorded in the Parkway Obligation Rate Variance deferral account, as this account is used to record rate variances associated with the timing differences between the effective date of the PDO and PDCI changes and the inclusion of the cost impacts in approved rates (January 1 of the following year). Accordingly, the PDCI costs for the two-month period (between November 1, 2016 and December 31, 2016) will be included as part of Union's 2016 deferral disposition application.

- b) The PDCI credit included in 2016 Rates is \$(0.134)/GJ and 2017 Rates is \$(0.149)/GJ. The PDCI credit is set at the Rate M12 Dawn to Parkway toll at 100% load factor including the Rate M12 fuel rate at October QRAM for each year, respectively. The PDCI credit is a common rate applied to all PDO volumes, regardless of rate class.

Union will be proposing an update to the 2017 PDCI credit as part of the Cap-and-Trade Compliance Plan application (EB-2016-0296) to include the proposed Rate M12 commodity rate.

- c) The calculation of the PDO and PDCI costs included in rates is based on a forecast of PDO volumes at November 1 of the previous year. The variances associated with timing differences between the effective date of PDO and PDCI changes and the inclusion of the cost in rates (January 1 of the following year) is included in the Parkway Obligation Rate Variance deferral account.

To the extent that Union's PDO forecast includes the customer changes from direct purchase to system sales, the amounts will be recovered through Union's annual rates and deferral disposition proceedings.

Should there be variances between the actual and forecast PDO volumes, caused by customers switching between direct purchase and system gas or new customers with Parkway obligated deliveries, these variances would form part of Union's utility earnings subject to sharing under the Incentive Regulation Mechanism ("IRM") framework.

- d) The information used by Union reflects contract renewals/amendments as of August 1, 2016. This was the most recent information available at the time Union's evidence was prepared for its 2017 Rates filing. This timing is consistent with the information used in Union's evidence for its 2015 and 2016 Rates filings.

0UNION GAS LIMITED

Answer to Interrogatory from  
London Property Management Association ("LPMA")

Reference: Exhibit A, Tab 4

- a) What is the expected impact on Union revenues of the CMS proposal for rate T2 in the absence of the Monthly Billing Adjustment?
- b) Does Union plan on offering a similar CMS to other rate classes? If yes, please indicate which rates. If no, please explain why not.

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**Response:**

- a) Please see the response at Exhibit B.Staff.12 c). Please also see the responses at Exhibit B.LPMA.6 a) and b) for examples of possible impacts.
- b) The CMS option was designed for Rate T2 customers in direct response to Rate T2 customer requests for a "non-obligated" service. No other customers have requested such an option so there are no plans to offer a similar service to other rate classes at this time.

UNION GAS LIMITED

Answer to Interrogatory from  
London Property Management Association ("LPMA")

Reference: Exhibit A, Tab 4, Table 1

- a) Please confirm that under the 3 scenarios shown in Table 1 (other than the existing T2 service), Union will receive the same amount of revenues as under the existing T2 service with the Monthly Billing Adjustment in place. If this cannot be confirmed, please indicate the variance in revenues for each of the 3 scenarios shown.
- b) Please indicate the variance in T2 revenues from the existing T2 service for each of the 3 scenarios assuming that the Monthly Billing Adjustment is not in place.
- c) Does Union propose to continue to use the Monthly Billing Adjustment beyond the current IRM term? Please explain fully.

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**Response:**

- a) and b) Not confirmed. The revenue for each of the three scenarios is not equal to the revenue under the existing Rate T2 service. The revenue variances between the scenarios is caused by changes to the firm storage space requirements. A description of the treatment of storage space revenue during the IRM term is provided at Exhibit B.Staff.12 d) and e). The Monthly Billing Adjustment maintains the financial neutrality associated with demand charges for injection/withdrawal rights.

The purpose of the scenarios in Exhibit A, Tab 4, Table 1 is to provide insight into the CMS service design approach and is not a forecast of CMS activity or revenue projections. The service design is based on the aggregate group of Rate T2 customers. Once CMS is implemented, each customer will decide whether to elect the CMS option.

Please see Attachment 1 for the estimated revenue calculation related to the CMS scenarios.

- c) The Minimum Billing Adjustment is applicable to customers that elect CMS during Union's IRM term. At rebasing, Union will set rates to recover costs based on an updated forecast, including CMS. The Monthly Billing Adjustment will not be required beyond the IRM term.

UNION GAS LIMITED  
Estimated Revenue Calculation for CMS Scenarios

| Line No. | Particulars                                                                   | Scenarios (Exhibit A, Tab 4, Table 1) |                                |                                               |                                                            |
|----------|-------------------------------------------------------------------------------|---------------------------------------|--------------------------------|-----------------------------------------------|------------------------------------------------------------|
|          |                                                                               | Existing T2 Service                   | All T2 Customers Switch to CMS | Customers Above Average Firm CD Switch to CMS | All Customers Elect T2 Service that Maximize Storage Space |
|          |                                                                               | (a)                                   | (b)                            | (c)                                           | (d)                                                        |
|          | <u>Firm Storage Space</u>                                                     |                                       |                                |                                               |                                                            |
| 1        | Storage Space (GJ) (1)                                                        | 9,018,600                             | 5,638,377                      | 7,014,786                                     | 9,660,580                                                  |
| 2        | Change to Excess Utility Storage Space (GJ) (2)                               | 0                                     | 3,380,223                      | 2,003,814                                     | (641,980)                                                  |
| 3        | Total                                                                         | 9,018,600                             | 9,018,600                      | 9,018,600                                     | 9,018,600                                                  |
|          | <u>Planned Storage Withdrawal on Peak Day</u>                                 |                                       |                                |                                               |                                                            |
| 4        | Storage Withdrawal (GJ/day) (3)                                               | 89,487                                | 60,894                         | 87,843                                        | 82,860                                                     |
| 5        | Storage Withdrawal Variance (GJ/day) (4)                                      | 0                                     | 28,593                         | 1,644                                         | 6,627                                                      |
| 6        | Total                                                                         | 89,487                                | 89,487                         | 89,487                                        | 89,487                                                     |
|          | <u>Revenue (5),(6)</u>                                                        |                                       |                                |                                               |                                                            |
| 7        | Storage Space Demand (\$) (line 1 * \$0.011 * 12)                             | 1,190,455                             | 744,266                        | 925,952                                       | 1,275,197                                                  |
| 8        | Firm Injection/Withdrawal Right (\$) (line 4 * \$1.561 * 12)                  | 1,676,270                             | 1,140,666                      | 1,645,475                                     | 1,552,134                                                  |
| 9        | Total Rate T2 Revenue Excluding Monthly Billing Adjustment                    | 2,866,726                             | 1,884,932                      | 2,571,427                                     | 2,827,330                                                  |
| 10       | Monthly Billing Adjustment (\$) (line 5 * \$1.561 * 12)                       | 0                                     | 535,604                        | 30,795                                        | 124,137                                                    |
| 11       | Total Rate T2 Revenue Including Monthly Billing Adjustment (line 9 + line 10) | 2,866,726                             | 2,420,536                      | 2,602,222                                     | 2,951,467                                                  |
| 12       | Estimated Short-Term Storage Revenue (line 2 * \$0.70 * 10%) (7)              | 0                                     | 236,616                        | 140,267                                       | (44,939)                                                   |
| 13       | Total Revenue Including Short-Term Storage Revenue (line 11 + line 12)        | 2,866,726                             | 2,657,152                      | 2,742,489                                     | 2,906,528                                                  |

Notes:

- (1) Firm Storage Space and Daily Variance Account Storage Space per Exhibit A, Tab 4, Table 1. Assumes customers electing CMS contract for the maximum quantities available.
- (2) Calculated as the variance between Firm Storage Space for each scenario and the existing Rate T2 service's Firm Storage Space, per line 1.
- (3) Planned Storage Withdrawal on Peak Day per Exhibit A, Tab 4, Table 1.
- (4) Calculated as the variance between planned storage withdrawal on peak day for each scenario and the existing Rate T2 service's planned storage withdrawal on peak day, per line 4.
- (5) Rate T2 revenue calculated based on proposed 2017 Rate T2 storage demand changes for firm storage space and injection/withdrawal rights.
- (6) The revenue associated with the Daily Variance Account injections/ withdrawals has not been included.
- (7) Storage-term storage revenue calculated based on the annual average value of Rate C1 short-term firm peak storage of \$0.070/GJ (\$7.883 million/11.3 PJ) based on the 2013 Board-approved forecast.

UNION GAS LIMITED

Answer to Interrogatory from  
London Property Management Association ("LPMA")

Reference: Exhibit A, Tab 4, Table 1

- a) The amount of firm storage space used differs in each of the 3 scenarios shown in Table 1 from the status quo, with two of the scenarios showing a reduction in the amount first storage space and one showing an increase. For each of the scenarios (less and more storage space), please explain how the change in the firm storage space would impact other rate classes and how it would impact the amount of cost-based storage space available to be marketed.
- b) Please explain the treatment of the excess utility storage that would be generated if some T2 customers use the CMS service, as noted on page 11.

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**Response:**

- a) and b) Please see the response at Exhibit B.Staff.12 e).

UNION GAS LIMITED

Answer to Interrogatory from  
London Property Management Association ("LPMA")

Reference: Exhibit A, Tab 4, Table 1

All 3 scenarios shown in Table 1 show a reduction in the amount of planned storage withdrawal on peak day as compared to the existing T2 service.

- a) Please explain what Union would or could do with the apparent increase in storage withdrawal on peak day because of the introduction of the T2 CMS service.
- b) Would Union be able to generate additional revenues because of the potential reduction in storage withdrawals on peak day allocated to the T2 customers that choose the CMS service?
- c) Would Union be able to generation additional revenues on non peak days as a result of the reduction in storage withdrawals available to T2 customers that select the CMS service? Please explain fully.
- d) Would any additional revenues, whether from in-franchise or ex-franchise customers on either an interruptible or firm basis that result from T2 customers moving to the CMS service during the remainder of the IRM term accrue solely to Union or would they accrue all or in part to Union ratepayers? Please explain fully.

---

**Response:**

- a) to d) Union does not anticipate an "increase in storage withdrawal on peak day". The three scenarios outlined in Table 1 were identified to examine potential boundaries in order to ensure that the service design is appropriate. Union is not suggesting that any of the three scenarios outlined are reasonable expectations for customers switching to the CMS option.

To determine if there is an increase in excess storage withdrawals on a peak day, an examination of both Firm Storage Space and Planned Storage Withdrawal on peak day must be made. If a customer elects the CMS option and it results in a decrease of Firm Storage Space and/or withdrawal rights, Union will sell Excess Utility Storage Space and withdrawal rights as Short-Term Storage. Any revenues earned through the sale of Excess Utility Storage Space are shared 90% with ratepayers.

UNION GAS LIMITED

Answer to Interrogatory from  
London Property Management Association ("LPMA")

Reference: Exhibit A, Tab 4, page 14

- a) Please explain the treatment of any storage overrun revenues associated with the Daily Variance Account.
  - b) Are these revenues over and above the revenues from a T2 customer, including the Monthly Billing Adjustment?
  - c) Has Union included in any forecast of overrun revenues in its calculation of revenues from T2 customers using the CMS service with or without the Monthly Billing Adjustment? If yes, please provide the forecasted figure.
- 

**Response:**

- a) The treatment of storage overrun revenues associated with the Daily Variance Account will form part of Union's utility earnings, which are subject to earnings sharing during Union's 2014-2018 IRM term, consistent with other Rate T2 storage overrun revenue.
- b) Yes. Should there be additional storage overrun revenue due to the CMS option, the overrun would be incremental to the existing Rate T2 revenue.
- c) No. There are no updates to Union's forecast during its 2014-2018 IRM term. Overrun revenue will not be included in the calculation of the Monthly Billing Adjustment. The inclusion of overrun revenue in the Monthly Billing Adjustment would result in no incentive for the CMS customer to stay within their contract limits. Customers that elect the CMS option are responsible for managing their storage activity within their contract parameters.

UNION GAS LIMITED

Answer to Interrogatory from  
London Property Management Association ("LPMA")

Reference: Exhibit A, Tab 4, Appendix D

Does the Monthly Billing Adjustment also reflect changes in storage space or does it only reflect changes in the annual firm storage injection/withdrawal rights? If the latter, please explain why the potential change in storage space is not also reflected in the Monthly Billing Adjustment.

---

**Response:**

The Monthly Billing Adjustment reflects changes in firm storage injection/withdrawal rights. Changes to customer contracted storage space will impact Union's revenue earned on the sale of Excess Utility Storage Space. Please see the response at Exhibit B.Staff.12 d) and e).

UNION GAS LIMITED

Answer to Interrogatory from  
TransCanada Pipelines Limited (“TransCanada”)

Reference: EB-2016-0245, Exhibit A, Tab 3, Page 23 of 36  
EB-2016-0118, Application, Exhibit A, Tab 4, Appendix A,  
Schedule 2

Preamble: In Reference 1, Union states that it has extended an 80,000 Dth/d Vector contract to October 31, 2022, and contracted for an additional 132,060 Dth/d of incremental Vector capacity with varying expiry dates.

In Reference 2, Union provided landed cost analyses as part of its 2015 Disposition of Deferral Account Balances and 2015 Utility Earnings proceeding.

TransCanada notes Union has committed to new upstream transportation contracts and requests further information on these arrangements.

- a) Utilizing the same format as presented in Reference 2, please provide the landed cost analyses for the periods of 2016-2017 and 2016-2022 used in support of the contracting decisions noted in Reference 1.

---

**Response:**

- a) Union has not completed a landed cost analysis for the periods stated. Union prepares landed costs analyses to evaluate transportation contracting decisions. Transportation contracting decisions can occur at several different points in time throughout the year, and includes varying timeframes depending on the need and opportunity. Union files all applicable landed cost analyses related to upstream transportation contracting decisions yearly as part of the disposition of deferral account balances filing.

UNION GAS LIMITED

Answer to Interrogatory from  
TransCanada Pipelines Limited (“TransCanada”)

Reference: EB-2016-0245, Exhibit A, Tab 3, Page 31 of 36

Preamble: In Reference 1, Union discusses its long-term contract with the NEXUS Gas Transmission (“NEXUS”) Pipeline commencing November 1, 2017.

- a) Has the Union-NEXUS Precedent Agreement been amended since December 2, 2015? If so, please provide a summary of the changes as well as a blackline version of the updated Precedent Agreement.
  - b) Please list all regulatory authorizations required for NEXUS and provide an update on the status of each.
- 

**Response:**

- a) Union entered into a “Restated Precedent Agreement” dated May 28, 2015 as filed in the NEXUS Contract Pre-approval proceeding at EB-2015-0166, Exhibit A, Schedule 1. There have been no amendments since that time.
- b) Please see below for a list of the Federal Energy Regulatory Commission (“FERC”) regulatory authorizations required for NEXUS and the status of each:

|                                                     |                         |
|-----------------------------------------------------|-------------------------|
| Application Filed                                   | November 2015           |
| Draft Environmental Impact Statement (“EIS”) Issued | July 2016               |
| Draft EIS Comment Period Closed                     | August 2016             |
| Final EIS Issued                                    | Expected November 2016  |
| Federal Authorization Decision Deadline             | Expected February 2017* |

\*The Federal Authorization Decision Deadline is 90 days from the issuance of the Final EIS.

UNION GAS LIMITED

Answer to Interrogatory from  
Vulnerable Energy Consumers Coalition ("VECC")

Reference: Exhibit A, Tab 1, pg.11

- a) Please explain more fully how the introduction of the Dawn Reference Price (EB-2015-0181) impacts on a going forward basis the decision to not incorporate the PDCI credit in the gas supply transportation rate. Specifically does the gas supply transportation rate continue to exist and be applied after January 1, 2017?
  - b) Why is a separate PDCI credit account not preferable to the SPVGA?
- 

**Response:**

- a) As described in the the Dawn Reference Price and North T-Service (EB-2015-0181) Settlement Proposal, pp. 10 and 11:

*"The use of a Dawn Reference Price will minimize or eliminate the difference between the cost of the Union South portfolio and the cost of serving Union South sales service customers using a Dawn Reference Price, thereby eliminating the need for the South Portfolio Cost Differential ("SPCD"). Accordingly, the Union South transportation rate is not required for sales service customers and will be set to zero."*

Union is proposing to credit the SPGVA for the Union South sales service PDCI credit because the Union South gas supply transportation rate is set to zero beginning January 1, 2017.

- b) Union's proposal to use the SPGVA for the PDCI credit payment to sales service customers matches the credit payment with the associated cost of the transportation contracts and utilizes an already established process for disposition to customers. The use of the SPGVA eliminates the introduction of a new mechanism to dispose of the PDCI credit payment.

UNION GAS LIMITED

Answer to Interrogatory from  
Vulnerable Energy Consumers Coalition (“VECC”)

Reference: Exhibit A, Tab 1, Schedule 20

a) Using Schedule 20, page 5 (sales service) and page 6 (direct purchase) please show the derivation of the 2015 and 2016 PDCI costs.

**Response:**

a) Please see the response at Exhibit B.LPMA.4 a).

Union estimates the PDCI cost in 2016 to be approximately \$2.9 million for the two-month period from November 1, 2016 to December 31, 2016 as calculated in Table 1 below.

Table 1  
2016 PDCI Cost Estimate

|                                  | Parkway<br>Obligation<br>(TJ/d) (1) | 2016<br>PDCI Rate<br>(\$/GJ) (2) | 2016<br>PDCI Cost Estimate<br>(\$000's) (3) |
|----------------------------------|-------------------------------------|----------------------------------|---------------------------------------------|
|                                  | (a)                                 | (b)                              | (c)=(a)*(-b)*61                             |
| Direct Purchase (“DP”) Customers | 292                                 | (0.134)                          | 2,387                                       |
| Sales Service Customers          | 58                                  | (0.134)                          | 474                                         |
|                                  |                                     |                                  | <u>2,861</u>                                |

Notes:

- (1) DP customers Parkway Obligation (“PDO”) calculated as total DP PDO of 376 TJ/d less PDO for TCE Halton Hills of 84 TJ/d per Exhibit A, Tab 2, Attachment 1, column (j), lines 9 and 22, respectively.  
  
Sales service customers Parkway Obligation calculated based on the Union South gas supply portfolio firm transportation contracts to the Parkway area prior to TransCanada’s implementation of its Maple project. Upon the in-service of TransCanada’s Maple project, the gas supply portfolio contracts will reduce to 28 TJ/d if the in-service is prior to January 1, 2017 and 19 TJ/d at January 1, 2017 or 19 TJ/d upon the in-service if subsequent to January 1, 2017.
- (2) Per October 1, 2016 QRAM (EB-2016-0247) applicable rate schedules.
- (3) Based on the 61 days of November and December.

UNION GAS LIMITED

Answer to Interrogatory from  
Vulnerable Energy Consumers Coalition (“VECC”)

Reference: Exhibit A, Tab 1, Appendix A

What were the reasons for the Madoc interruptions in which it appears that no customers or volumes were affected?

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**Response:**

Exhibit A, Tab 1, Appendix A indicates that one Madoc customer was affected by an interruption lasting two days. It also indicates that no Madoc customers were non-compliant.

UNION GAS LIMITED

Answer to Interrogatory from  
Vulnerable Energy Consumers Coalition ("VECC")

Reference: Exhibit A, Tab 4, pg.6

- a) Presumably existing T2 customers wish to avail themselves to the new CMS in order to save money. If so, how can this new service be offered and still meet the principles of inter class revenue neutrality while leaving Union financially harmless. Specifically, please explain if the Monthly Billing Adjustment is intended to achieve both inter and intra class revenue neutrality and how.

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**Response:**

- a) The Monthly Billing Adjustment is intended to achieve financial neutrality for the CMS customer and Union. There are no financial impacts to other rate classes or other Rate T2 customers (inter and intra class neutrality) during the current IRM term, as the service uses the existing Rate T2 storage rates.

Please see the response at Exhibit B.Staff.12 f) for a description of the potential cost allocation impacts upon rebasing.

Please see the response at Exhibit B.LPMA.6 c) for a description of the Monthly Billing Adjustment upon rebasing.