

January 22, 2018

BY RESS & Courier

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

Dear Ms. Walli:

**Re: Union Gas Limited (“Union”)
Burlington-Oakville Project
Board File # EB-2014-0182**

Pursuant to Condition 6. (b) i - v. of the Board’s Conditions of Approval for the above-noted project, attached please find the final monitoring report.

Sincerely,

[Original Signed By]

Shelley Bechard
Administrative Analyst, Regulatory Projects
:sb
Encl.

cc: Z. Crnojacki
N. Marconi
Reg Library

BURLINGTON TO OAKVILLE PIPELINE PROJECT

FINAL MONITORING REPORT

**Prepared by: Union Gas Limited
Environmental Planning**

December 2017

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1.0 INTRODUCTION

This Final Monitoring Report is provided in compliance with the Ontario Energy Board (“Board”) Order EB-2014-0182 granting Union Gas Limited (“Union”) “Leave to Construct” approximately 12.2 kilometres of Nominal Pipe Size (NPS) 20 inch diameter steel natural gas pipeline in the Town of Milton and the Town of Oakville in the Region of Halton.

The pipeline commenced at Union’s Parkway West Station and proceeded south under crossing Lower Baseline Road, Highway 407, and 9th Line. The pipeline continued paralleling Highway 403 within the road allowance until under crossing Dundas Street and terminating at Union’s Bronte Gate Station. A map of the pipeline route is included in Appendix A.

The requirements for and details of this report are outlined in the specific conditions issued by the Board in its Order dated December 17, 2015 and as listed below. The complete Conditions of Approval can be found in Appendix B1. The Conditions of Approval addressed in this report are as follows:

Condition 1

Union Gas Limited (Union) shall construct the facilities and restore the land in accordance with the Board’s Decision and Order in EB-2014-0182 and these Conditions of Approval.

Condition 3

Union shall implement all the recommendations of the Environmental Report filed in the proceeding, and all the recommendations and directives identified by the Ontario Pipeline Coordinating Committee review.

Condition 4

Union shall advise the Board of any proposed change to Board-approved construction or restoration procedures. Except in an emergency, Union shall not make any such change without

prior notice to and written approval of the Board. In the event of an emergency, the Board shall be informed immediately after the fact.

Condition 6

Both during and after construction, Union shall monitor the impacts of construction and shall file with the Board one paper copy and one electronic (searchable PDF) version of each of the following reports:

- a) a post construction report, within three months of the in-service date, which shall:
 - i. provide a certification, by a senior executive of the company, of Union's adherence to Condition 1;
 - ii. describe any impacts and outstanding concerns identified during construction;
 - iii. describe the actions taken or planned to be taken to prevent or mitigate any identified impacts of construction;
 - iv. include a log of all complaints received by Union, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rationale for taking such actions; and
 - v. provide a certification, by a senior executive of the company, that the company has obtained all other approvals, permits, licences, and certificates required to obstruct, operate and maintain the proposed project.

- b) a final monitoring report, no later than fifteen months after the in-service date, or, where the deadline falls between December 1 and May 31, the following June 1, which shall:
 - i. provide a certification, by a senior executive of the company, of Union's adherence to Condition 3;
 - ii. describe the condition of any rehabilitated land;
 - iii. describe the effectiveness of any actions taken to prevent or mitigate any identified impacts of construction;
 - iv. include the results of analyses and monitoring programs and any recommendations arising therefrom; and

v. include a log of all complaints received by Union, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rationale for taking such actions

2.0 BACKGROUND

Union was granted approval to construct the Burlington to Oakville Pipeline Project on December 17, 2015. Construction was initiated on March 28, 2016 with the pipeline placed into service on November 1, 2016. Cleanup along the pipeline corridor was completed for the year on October 15, 2016, with additional cleanup completed the following year starting May 3rd, 2017 through September 27th, 2017.

Construction progressed from Union's new Parkway West Valve Nest and Metering/Odorant Station in a southerly direction with the following order of operations: topsoil stripping, grading, stringing, welding, joint coating, directional drilling, trenching, lowering-in, tie-ins, back filling, testing and clean-up.

The additional clean-up completed in 2017 included the following activities: repair any subsidence, ensure there is adequate stability and re-vegetation at all watercourse crossings, perform a general overview and complete any additional clean-up that was required.

3.0 POTENTIAL IMPACTS AND MITIGATION

3.1 Condition 1

Union Gas Limited (Union) shall construct the facilities and restore the land in accordance with the Board's Decision and Order in EB-2014-0182 and these Conditions of Approval.

Union has complied with all conditions imposed by the Board (Appendix B1, including those from the change request approvals (Condition 4), during construction of the pipeline and has restored the land according to the evidence in support of its application.

3.2 Condition 3

Union shall implement all the recommendations of the Environmental Report filed in the proceeding, and all the recommendations and directives identified by the Ontario Pipeline Coordinating Committee review.

Union has implemented all the recommendations and mitigation measures outlined in the Environmental Report along with all the recommendations and directives identified by the OPCC.

3.3 Condition 4

Union shall advise the Board of any proposed change to Board-approved construction or restoration procedures. Except in an emergency, Union shall not make any such change without prior notice to and written approval of the Board. In the event of an emergency, the Board shall be informed immediately after the fact.

Union advised the Board of four (4) changes to the Board-approved construction or restoration procedures. The Union change requests and Board approvals are presented in Appendix B2

3.4 Condition 6

Both during and after construction, Union shall monitor the impacts of construction and shall file with the Board one paper copy and one electronic (searchable PDF) version of each of the following reports:

- a) a post construction report, within three months of the in-service date, which shall:
 - i. provide a certification, by a senior executive of the company, of Union's adherence to Condition 1;
 - ii. describe any impacts and outstanding concerns identified during construction;

- iii. describe the actions taken or planned to be taken to prevent or mitigate any identified impacts of construction;
- iv. include a log of all complaints received by Union, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rationale for taking such actions; and
- v. provide a certification, by a senior executive of the company, that the company has obtained all other approvals, permits, licences, and certificates required to obstruct, operate and maintain the proposed project.

A Post Construction Report was filed with the Board within three months of the November 1, 2016 in-service date. The Post Construction Report addressed conditions (i) through (v).

- b) a Final Monitoring Report, no later than fifteen months after the in-service date, or, where the deadline falls between December 1 and May 31, the following June 1, which shall:
 - i. provide a certification, by a senior executive of the company, of Union's adherence to Condition 3;

One paper copy and one electronic (searchable PDF) version of this Final Monitoring Report are provided to the Board. This report is certified by Paul Rietdyk, Vice President Engineering Construction and STO, that Union implemented all the recommendations of the Environmental Report filed in the proceeding, and all the recommendations and directives identified by the Ontario Pipeline Coordinating Committee review and is confirmed by their signed letter of approval found in Appendix B3

- ii. describe the condition of any rehabilitated land;

The agricultural lands where rehabilitated and are back in production, stream crossings and smaller wetlands are stable and revegetating as expected. A total of thirty (30) deficiencies were identified and repaired during the 2017 clean-up program, these included twenty-four (24) localized areas of settlement, three (4) location locations of regrading to improve/control

drainage control, one (1) location along road allowance that was re-seeded and one (1) field that required additional stone picking to the satisfaction of the tenant farmer. All of these repairs were completed and returned the land to its pre-existing condition.

iii. describe the effectiveness of any actions taken to prevent or mitigate any identified impacts of construction;

The entire right of way and in particular areas in close proximity to watercourses and wetlands were checked for stability, vegetation re-establishment and subsidence during the 2017 clean-up. The wetlands and watercourses avoided by HDD crossings remain in their original state undisturbed by construction. The erosion matting, seeding and retention of native topsoil containing seed and root stock have performed well at all locations; stream banks and disturbed wetlands were stable and re-vegetating well.

iv. include the results of analyses and monitoring programs and any recommendations arising therefrom; and

The results of analyses and monitoring programs and any recommendations therefrom are presented in Section 3.4.1.

v. include a log of all complaints received by Union, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rationale for taking such actions

Union's Complaint Tracking System (Table 1), which identifies the current status of landowner complaints received as a result of pipeline construction, was in effect. A complaint is identified as a concern raised by a landowner that has not been resolved to the landowner's satisfaction within three (3) working days. Complaints that remained open from the Post Construction Monitoring Report were addressed during the 2017 final cleanup.

During construction, a number of concerns other than those listed in Table 2 were raised to Union and their Contractor. These issues were minor in nature and were dealt with by Union and the Contractor in an expeditious manner.

3.4.1 Monitoring Programs

3.4.1.1 Archaeological Assessment

Union Gas Limited retained the services of Stantec Consulting Limited to complete Archaeological Assessments for the project area. Clearance letters were received from the Ministry of Tourism, Culture and Sport for the Stage 1, Stage 2 and the Single Stage 3 site identified within the project area.

3.4.1.2 Watercourse Monitoring

It was necessary to cross fourteen (14) watercourses as part of the Project. Two (2) of the watercourses were non-regulated and the remainder were regulated by Conservation Halton.

Six (6) watercourses were crossed using the horizontal directional drill (HDD) technique and the remaining eight (8) watercourses were crossed using an isolated dry crossing technique (dam & pump) approved by Fisheries and Oceans Canada. All watercourse crossings were performed in accordance to permits obtained from Conservation Halton.

Watercourses were protected prior to, during and following construction with sediment fencing. Immediately following pipeline crossings and immediately following temporary access removals, disturbed areas adjacent to the watercourses were seeded and protected with erosion control blanket and sediment fencing.

All watercourse crossings were monitored during construction by an Environmental Inspector and all watercourses were inspected in 2017 to ensure bank stability and vegetation re-

establishment and to implement further mitigation measures as required. All watercourses were found to be stable and re-vegetating as expected, No deficiencies were identified.

3.4.1.3 Soil Testing

Prior to construction, Union conducted soil sampling on agricultural lands along the pipeline route. Soil samples were taken and analyzed for Soybean Cyst Nematode (SCN). SCN is a microscopic worm-like organism found in soils and obtain their nutrients by feeding on the root systems of soybeans. Results indicated that SCN was not present on any of the properties tested.

A construction protocol to deal with potential SCN impacted fields was available in the event that results came back positive; however, all soil samples were negative.

3.4.1.4 Post Construction Soil Compaction Monitoring

Following construction a post construction soil compaction survey and report were completed to assess and compare soil compaction on agricultural lands along the project. Soil compaction for both topsoil and subsoil over the trench line and work areas (easement) were compared to the compaction on the adjacent none impacted portions of the agricultural lands (control).

Ten (10) easement agricultural properties were analyzed for relative soil compaction. The measurements were conducted during November 21 and 24, 2016. Overall, easement compaction levels were similar to off easement control values and no additional remedial action was required.

3.4.1.5 Water Well Monitoring

Prior to construction, Union retained the services of Stantec Consulting Limited (Stantec) to undertake a water well monitoring program along the entire pipeline route as recommended in the ER and required under the PTTW. The purpose of the program was to establish baseline

groundwater conditions for comparative purposes should groundwater interference complaints arise as a result of the construction or operation of the pipeline.

The baseline monitoring program included a door-to-door survey to identify groundwater users within 100 m of general construction activity for the proposed pipeline installation and 200 m of areas with potential bedrock blasting. Well owners were provided a letter detailing the proposed pipeline construction and the proposed monitoring program and had the option of participating in the program. The notification letter included the telephone number of Union's Lands Relations Agent.

Water quality samples were collected by Stantec. In total, five (5) water quality samples were collected from five (5) supply wells. Water levels were manually monitored in three (3) of these wells and continuously monitored in one of these wells.

Water samples were analyzed for general inorganic and bacteriological water quality parameters and the results were compared to the Ontario Drinking Water Quality Standards (ODWS) established by the Ontario Ministry of the Environment and Climate Change (MOECC) per Ontario Regulation 169/03.

Upon receiving the results, Stantec immediately notified any residents whose water exceeded the MOECC ODWS Maximum Acceptable Concentration (MAC) for any tested parameter. Water quality results indicated ODWS MAC exceedances for total coliforms in two (2) samples. Stantec provided the residents with a summary letter of the results and with the contact information for the public health unit within the Region of Halton in case of further questions.

No complaints with regards to water wells have been received to date.

3.4.1.6 Species at Risk (SAR)

Prior to construction, Stantec completed detailed habitat assessments and field surveys to confirm habitat and species occurrences in the Project Area. No confirmed Species at Risk or their habitats were identified within the project area.

3.4.1.7 Tree Removal

Tree removal was initiated on February 27th, 2016 and was completed on March 15th, 2016 thus avoiding avian nesting concerns.

3.4.1.8 Tree Replacement Program

This program is designed as a reforestation initiative to replant twice the area of trees cleared from the woodlots prior to construction. Landowners who have had trees cleared from their property were given the option to have native tree species of their choice planted on their property in the spring of 2017. No landowners were willing to have trees replanted on their lands, as such the compensation trees were planted within the wildlife area of the Union Gas Parkway West facility located at the kickoff point for the BOP project.

4.0 SUMMARY

This Final Monitoring Report has been prepared as per conditions in the Board Order EB-2014-0182. The report provides an outline of Unions' compliance with the commitments of its witnesses, the measures implemented during construction to minimize disturbance to the environment, and a description of Unions' monitoring programs. It is anticipated that these measures will effectively eliminate any long-term impacts to the environment.

Table 1

Summary of Landowner Complaints Burlington Oakville Pipeline Project

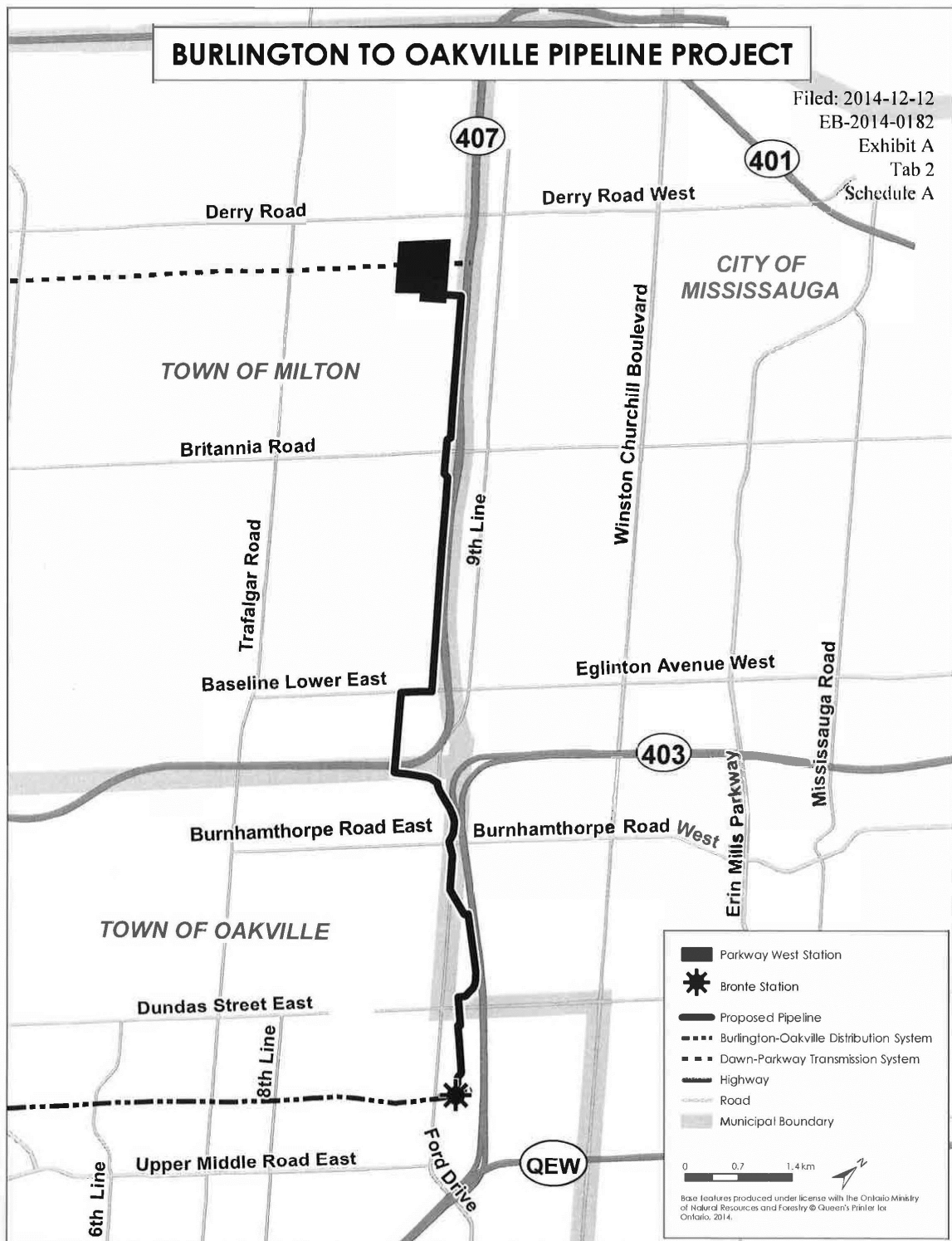
SUMMARY OF LANDOWNER COMPLAINTS
Burlington Oakville NPS 20

Date	Property Identification Number	Complaint	Resolution	Status
06/10/2016	BOP 11	Sink hole noted by Environmental Inspector Tyler Stewart in October, topsoil added to fill area. Tenant Dave Robinson advised to not farm it, area marked, photos forwarded to tenant of the area in question.	Landowner advised in October, tenant paid for crop loss and inconvenience for 2016/2017 crops. Advised that area will be monitored further in the spring of 2017.	Resolved 07/10/2016, area of subsidence repaired and leveled in 2017 prior to being ploughed and planted/ Resolution complete
12/05/2016	BOP 16	Adjacent landowner was affected by erosion from a bell hole dug to facilitate a road crossing.	Union met with adjacent landowner to explain situation and restored the land to its preconstruction condition.	Resolved 17/06/2016 Resolution complete.

Appendix A

General Location Map

GENERAL LOCATION MAP BURLINGTON TO OAKVILLE PROJECT



Appendix B1

Conditions of Approval

Leave to Construct Conditions of Approval
Application under Sections 90 of the OEB Act
Union Gas Limited
EB-2014-0182

1. Union Gas Limited (Union) shall construct the facilities and restore the land in accordance with the Board's Decision and Order in EB-2014-0182 and these Conditions of Approval.
2. (a) Authorization for leave to construct shall terminate 12 months after the decision is issued, unless construction has commenced prior to that date.

(b) Union shall give the Board notice in writing:
 - i. of the commencement of construction, at least ten days prior to the date construction commences;
 - ii. of the planned in-service date, at least ten days prior to the date the facilities go into service;
 - iii. of the date on which construction was completed, no later than 10 days following the completion of construction; and
 - iv. of the in-service date, no later than 10 days after the facilities go into service.
3. Union shall implement all the recommendations of the Environmental Report filed in the proceeding, and all the recommendations and directives identified by the Ontario Pipeline Coordinating Committee review.
4. Union shall advise the Board of any proposed change to Board-approved construction or restoration procedures. Except in an emergency, Union shall not make any such change without prior notice to and written approval of the Board. In the event of an emergency, the Board shall be informed immediately after the fact.
5. Union shall file, in the proceeding where the actual capital costs of the project are proposed to be included in rate base, a Post Construction Financial Report, which shall indicate the actual capital costs of the project and shall provide an explanation for any significant variances from the cost estimates filed in this proceeding.

6. Both during and after construction, Union shall monitor the impacts of construction, and shall file with the Board one paper copy and one electronic (searchable PDF) version of each of the following reports:
 - a) a post construction report, within three months of the in-service date, which shall:
 - i. provide a certification, by a senior executive of the company, of Union's adherence to Condition 1;
 - ii. describe any impacts and outstanding concerns identified during construction;
 - iii. describe the actions taken or planned to be taken to prevent or mitigate any identified impacts of construction;
 - iv. include a log of all complaints received by Union, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rationale for taking such actions; and
 - v. provide a certification, by a senior executive of the company, that the company has obtained all other approvals, permits, licenses, and certificates required to construct, operate and maintain the proposed project.
 - b) a final monitoring report, no later than fifteen months after the in- service date, or, where the deadline falls between December 1 and May 31, the following June 1, which shall:
 - i. provide a certification, by a senior executive of the company, of Union's adherence to Condition 3;
 - ii. describe the condition of any rehabilitated land;
 - iii. describe the effectiveness of any actions taken to prevent or mitigate any identified impacts of construction;
 - iv. include the results of analyses and monitoring programs and any recommendations arising therefrom; and
 - v. include a log of all complaints received by Union, including the date/time the complaint was received, a description of the complaint, any actions taken to address the complaint, the rationale for taking such actions.

Appendix B2

Change Requests and Approvals



May 3, 2016

RESS

Ms. Pascale Duguay
Facilities Applications
Ontario Energy Board
2300 Yonge Street, Suite 2700
Toronto, Ontario
M4P 1E4

Dear Ms. Duguay:

**Re: Union Gas Limited ("Union")
Burlington Oakville Pipeline Project
Board File # EB-2014-0182**

Please find attached two Change Requests for the above-noted project.

Union believes that these changes are not significant and would appreciate your timely review and approval of these requests.

In the event that you have any questions or would like to discuss in more detail, please do not hesitate to contact me at 519-436-4601.

Sincerely,

Mark A. Murray, LL.B
Manager Regulatory Projects and Land Acquisition

cc: Zora Cmojacki, OEB Project Advisor

ONTARIO ENERGY BOARD
LEAVE TO CONSTRUCT CHANGE REQUEST

Project Name: Burlington Oakville Pipeline Project
OEB File Number: EB-2014-0182
Change Request: #1

Description and Rationale for Change

Union is proposing changes, to the dimensions of permanent easements and temporary land use areas at various locations along the pipeline route to facilitate requests from the landowners and pipeline construction.

Construction and Restoration Practices

There are no changes proposed for the construction of the proposed facilities.

Environmental

No new environmental mitigation measures will be required.

Consultation

Union has met with the directly affected landowners and no issues have been identified.

Lands

Union has acquired the necessary permanent easements and temporary land rights.

Costs

These changes will not result in any additional costs to the project.

Schedule

These changes will not result in any change to the project in-services date.

Maps

A chart setting out the changes in land rights is attached at Schedule 1. Maps showing the location of the permanent easements and temporary land rights are attached at Schedule 2.

ONTARIO ENERGY BOARD
LEAVE TO CONSTRUCT CHANGE REQUEST

Project Name: Burlington Oakville Pipeline Project
OEB File Number: EB-2014-0182
Change Request: #2

Description and Rationale for Change

Union is proposing to change the version of the Canadian Standards Association Code for determination design and construction of the pipeline from version Z662-11 to the most recent version Z662-15. Also to fix a typographical error, the Maximum Operating Pressure design parameter is to be changed from 6160 KPag to 6170 KPag.

Construction and Restoration Practices

This change will not impact any construction procedures.

Environmental

No new environmental mitigation measures will be required.

Consultation

There are no landowners issues associated with this change.

Lands

No additional land rights are required.

Costs

These changes will not result in any additional costs to the project.

Schedule

These changes will not result in any change to the project in-services date.

Maps

No attachments are required for this change request.

**Ontario Energy
Board**

P.O. Box 2319
2300 Yonge Street
27th Floor
Toronto ON M4P 1E4
Telephone: 416-481-1967
Facsimile: 416-440-7656
Toll free: 1-888-632-6273

**Commission de l'énergie
de l'Ontario**

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2300, rue Yonge
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Téléphone: 416-481-1967
Télécopieur: 416-440-7656
Numéro sans frais: 1-888-632-6273



BY E-MAIL

May 4, 2016

Mark A. Murray
Union Gas Limited
Manager, Regulatory Projects and Land Acquisition
P.O. Box 2001
50 Keil Drive North
Chatham ON N7M 5M1

Dear Mr. Murray:

**Re: Union Gas Limited (Union)
Burlington Oakville Pipeline Project
Change Requests
Board File Number: EB-2014-0182**

The Ontario Energy Board (OEB) is in receipt of your letter dated May 3, 2016 in which you informed the OEB of two changes for the Burlington Oakville Pipeline Project.

The first change is to the dimensions of permanent easements and temporary land use areas at various locations along the pipeline route. The second change is to the version of the Canadian Standards Association Code used for determining the design and construction of the pipeline from version Z662-11 to the most recent version (Z662-15). Union is also asking to fix a typographical error noting that the Maximum Operating Pressure design parameter should be 6170 KPag (not 6160 KPag).

As the Manager, Natural Gas Applications, I have been delegated the authority of the OEB under Section 6 of the *Ontario Energy Board Act, 1998* to determine whether Union's proposals will result in material changes to the leave to construct granted by the OEB in the EB-2014-0182 proceeding. I have been further granted the authority to approve any changes that I have concluded are not material.

You indicated that for the first change there are no proposed changes to the

construction of the facilities, there are no new environmental mitigation measures required, and there will be no additional costs to the project. In addition, all of the necessary permanent easements and temporary land rights were acquired and no issues have been raised by the directly affected landowners. For the second change, there will be no impact on any construction procedures and therefore there will be no impacts on any other aspect of the project.

Based on my review of the information provided, I find that the described changes do not materially impact the leave granted by the OEB to construct the pipeline. I hereby approve the two proposed changes.

Yours truly,

Original Signed By

Pascale Duguay
Manager, Natural Gas Applications

January 23, 2017

RESS

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

Dear Ms. Walli:

**Re: Union Gas Limited ("Union")
Burlington Oakville Pipeline Project
Board File # EB-2014-0182**

This letter is to inform the Board of a change that happened in the field during hydrostatic testing of the pipeline for the above-noted project. Please find attached Change Request 3.

In making the change which is permitted by the CSA code, it is Union's position that this change is not significant and is allowed for under code. Union would appreciate your timely review and approval of this request.

In the event that you have any questions or would like to discuss in more detail, please do not hesitate to contact me at 519-436-5457.

Sincerely,

W. T. (Bill) Wachsmuth, RPF
Senior Administrator, Regulatory Projects

cc: Nancy Marconi, OEB
Zora Cmojacki, OEB

REQUEST TO VARY

Project Name: Burlington Oakville Pipeline Project
OEB File Number: EB-2014-0182
Change Request: 3

Description and Rationale for Change

Union, in its pre-filed evidence at Exhibit 8, Tab 10, Page 6 of 9, stated that it would follow the requirements of CSA Z662-15 Oil and Gas Line Pipeline Systems Section 8 in relation to Hydrostatic testing of the pipeline. The code allows for a variety of test durations ranging from one hour to 24 hours depending upon the site specific circumstances (24 hour tests are required when gases are used as the test medium). For this project where, water was used as the test medium, the mainline testing was held for a duration of eight hours as opposed to the 24 hours identified on pages 5 and 9 of the pre-filed evidence. The eight hour test is allowed for in the CSA code and an acceptable method for testing the pipeline.

Construction and Restoration Practices

This change will not impact any construction procedures.

Environmental

No new environmental mitigation measures will be required.

Consultation

There are no landowners issues associated with this change.

Lands

No additional land rights are required.

Costs

These changes will not result in any additional costs to the project.

Schedule

These changes will not result in any change to the project in-services date.

Maps

No attachments are required for this change request.

Ontario Energy
Board
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BY E-MAIL

February 3, 2017

W.T. Wachsmuth
Senior Administrator, Regulatory Projects
Union Gas Limited
50 Keil Drive North
P.O. Box 2001
Chatham ON N7M 5M1
bwachsmuth@uniongas.com

Dear Mr. Wachsmuth:

**Re: Burlington Oakville Pipeline Project – EB-2014-0182
Request to Vary
Change Request No. 3**

The Ontario Energy Board (OEB) is in receipt of your letter dated January 23, 2017 where Union Gas limited (Union) advised the OEB of a change to the Burlington Oakville Pipeline Project (Change Request No. 3).

The change relates to the duration of Union's hydrostatic testing of the pipeline. Union is required to adhere to all requirements of the CSA Standards Z662 for Oil and Gas Pipelines Systems (CSA Z662). In the pre-filed evidence, Union proposed that the test duration of the pipeline be for 24 hours. Union noted that water was used as the test medium, and the duration of the test was held for eight hours. The CSA Z662 requires that a pipeline in this site specific situation be tested for duration of no less than four hours for a liquid medium.

As the Manager, Applications Policy and Climate Change, I have been delegated the authority of the OEB under section 6 of the *Ontario Energy Board Act, 1998* to determine whether Union's proposals will result in material changes to the leave to construct granted by the OEB in the EB-2014-0182 proceeding. I have been further granted the authority to approve any changes that I have concluded are not material.

Union stated that this change will not modify the construction methods, or environmental mitigation measures and consultation. Union also noted that no additional lands will be needed, and the total cost to the project and the in-service date will remain as planned.

Based on my review of the information provided, I find that the described change does not materially impact the leave granted by the OEB to construct the pipeline. I hereby approve the proposed change.

Yours truly,

Original Signed by

Pascale Duguay
Manager, Applications Policy and Climate Change

November 8, 2017

RESS

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

Dear Ms. Walli:

**Re: Union Gas Limited ("Union")
Burlington Oakville Pipeline Project
Board File # EB-2014-0182**

Please find attached Change Request 4, for the above-noted project.

Union believes that this change is not significant and would appreciate your timely review and approval of this request.

In the event that you have any questions or would like to discuss in more detail, please do not hesitate to contact me at 519-436-4601.

Sincerely,

[original signed by]

Mark A. Murray, J.D.
Manager Regulatory Projects and Land Acquisition

cc: Zora Crnojacki, OEB
Nancy Marconi, OEB
Ritchie Murray, OEB

REQUEST TO VARY

Project Name: Burlington Oakville Pipeline Project

OEB File Number: EB-2014-0182

Change Request: 4

Description and Rationale for Change

The Burlington Oakville Pipeline Project involved the construction of 12 km of NPS 20 pipeline commencing from Union's Parkway West Compressor Station and terminating at Union's Bronte Gate Station. In addition to the construction of the pipeline, modifications were made to the two aforementioned stations for the physical connection of the pipeline. Union, in its pre-filed evidence at Exhibit A, Tab 10, Schedule 1(Burlington-Oakville Project Schedule), provided for construction to commence in June 2016 and complete in September 2017.

To accommodate the new pipeline, it was identified that the Bronte Gate Station would have to be rebuilt. This work was scheduled to be completed in summer 2016. During this construction it was discovered that some valves which were planned to be re-used were deficient and required replacement. As a result of extended delivery times for replacement valves at the Bronte Station, construction for this project will not be completed until the summer of 2018.

Construction and Restoration Practices

This change will not impact any construction procedures.

Environmental

No new environmental mitigation measures will be required.

Consultation

There are no landowners issues associated with this change.

Lands

No additional land rights are required.

Costs

The total cost for the new valves and the construction costs is approximately \$2.4 M, as the project is currently under budget these costs, will not result in an increase to the costs identified in Union's pre-filed evidence.

Schedule

The project is in service and this change will not require the project to go out of service

Maps

No attachments are required for this change request.

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Toronto ON M4P 1E4
Telephone: 416-481-1967
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BY E-MAIL

November 17, 2017

Mark A. Murray J.D.
Manager, Regulatory Projects and Land Acquisitions
Union Gas Limited
50 Keil Drive North
P.O. Box 2001
Chatham ON N7M 5M1
mmurray@uniongas.com

Dear Mr. Murray:

**Re: Burlington Oakville Pipeline Project – EB-2014-0182
Request to Vary
Change Request No. 4**

The Ontario Energy Board (OEB) is in receipt of your letter dated November 8, 2017 in which Union Gas Limited (Union) advised the OEB of a change to the Burlington Oakville Pipeline Project (Change Request No. 4).

Union proposes to delay the completion of construction for this Project from September 2017 to the summer of 2018. The need for the delay arises from an issue with the rebuild of Bronte Gate Station (one of the tie-in points for the Project). The station contains two valves that had originally been proposed to be reused. However, these valves were found to be deficient and in need of replacement. As a result of extended delivery times, the valves will not be received in time to complete construction of the Project in 2017.

Union submits that this change will not modify the Project's originally proposed construction or restoration methods, environmental mitigation measures, stakeholder consultations, or land use requirements. The change will increase the project costs by approximately \$2.4 million, however, Union submits that the Project is tracking under budget and so the additional cost can be accommodated within the originally budgeted costs.

As the Manager, Applications Supply and Infrastructure, I have been delegated the authority of the OEB under section 6 of the Ontario Energy Board Act, 1998 to

determine whether Union's proposal will result in material changes to the leave to construct granted by the OEB in the EB-2017-1118 proceeding. I have been further granted the authority to approve any changes that I have concluded are not material.

Based on my review of the information provided, I will approve the requested change. With respect to the increased costs, I note that the incremental amount can be accommodated within the Project's original budget.

Yours truly,

Original Signed by

Nancy Marconi
Manager, Applications Supply and Infrastructure

Appendix B3

Executive Certification

Burlington Oakville Pipeline Project

EB-2014-0182

Decision and Order

December 17, 2015

I hereby certify Union Gas Limited has complied with the Decision and Order, Appendix B, EB-2014-0182, Section 6 (b) (i).

January 19, 2018
Date


Senior Executive

Condition 6 b) i.

b) final monitoring report, no later than fifteen months after the in-service date, or, where the deadline falls between December 1 and May 31, the following June 1, which shall:

i. Provide a certification, by a senior executive of the company, of Union's adherence to Condition 3;

Condition 3

Union shall implement all the recommendations of the Environmental Report filed in the proceeding, and all the recommendations and directives identified by the Ontario Pipeline Coordinating Committee review.

Appendix C

Photograph Inventory



9th Line post clean up – restored agricultural land and grade following ground settlement repair prior to re-seeding.



Settlement at a foreign pipeline crossing repaired, graded and restored to agricultural land prior to re-seeding.



Exit pit and trench settlement at SC7, SC8, SC9 HDD repaired and regraded to match the surrounding cultural meadow prior to re-seeding.



Final grading and settlement repair along the west side of 9th line prior to re-seeding



Pipeline easement south of Lower Baseline following clean-up, the easement has been restored to agricultural production and was in production following the spring 2017 clean-up works.



Pipeline easement parallel to Lower Baseline. The 2017 clean-up repaired settlement and completed regrading and seeding at this location. The area has been restored to cultural meadow.



9th Line post cleanup and seeding, the land has been restored to agricultural land and will be in production in 2018.



Pipeline easement South of Dundas Rd, East of 9th Line behind the drive-in movie theatre. The land has been successfully returned to agricultural production in 2017.