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mccarthy tetrault

May 28, 2018

VIA RESS AND COURIER

Ms. Kirsten Walli
Board Secretary
Ontario Energy Board
P.O. Box 2319
2300 Yonge Street, 27th Floor
Toronto, Ontario M4P 1E4

Dear Ms. Walli:

**RE: Hydro One Networks Inc. ("Hydro One")
EB-2017-0049 - Hydro One Networks Inc.'s 2018-2022 Distribution Rates Application**

Further to the Board's Decision on Confidentiality and Procedural Order No. 6 dated May 18, 2018 in respect of the above-noted proceeding, Hydro One Networks Inc. provides submissions on two topic areas: (1) how Pole Attachment Issues may now move forward in this proceeding in light of the issuance of the Board's pole attachment report; and (2) information to assist Staff and intervenors regarding the objectives of having an effective and efficient oral hearing.

Pole Attachment Issues

On March 22, 2018, the OEB issued its *Report of the Ontario Energy Board Wireline Pole Attachment Charges* for EB-2015-0304 (the "**2018 Pole Attachment Report**") setting out its updated methodology and directed LDCs to file the OEB's workform when applying for an LDC-specific pole attachment charge.

The 2018 Pole Attachment Report determined the methodology and appropriate input costs for determining the LDC-specific pole attachment charge. Parties had the opportunity to comment on the appropriateness of this methodology in that proceeding. As such, and as it concerns the EB-2017-0049 proceeding, the only limited issue requiring consideration is whether the 2018 Pole Attachment Report methodology has been correctly applied and implemented.

Hydro One has updated its proposed 2018 Specific Service Charges - Joint Use Telecom Charge (Rate Code 30) applying the OEB's methodology and has inflated the 2018 charge by the projected Implicit Price Index (IPI)[1] to determine the charge for 2019-2022. The table below summarizes the annual charges being requested. The workform and a supplemental summary document of the workform inputs, have been included with this submission.

	2018	2019	2020	2021	2022
Rate Code 30	$47.67	$48.47	$49.48	$50.45	$51.41

[1] Source: IHS Global Insight

If intervenors or the Board require further explanation on the attached workform information, Hydro One would be amenable to receiving written interrogatories during the time period established for the oral hearing and to respond to such questions in writing within that period and prior to final argument. This would allow parties to provide submissions regarding application of the 2018 Pole Attachment Report methodology as part of their final argument.

Hydro One is mindful of the compressed time period established for the EB-2017-0049 oral hearing and the extent of the evidentiary record. Any remaining issues concerning Rate Code 30 are narrow and may proceed effectively without the need for an oral hearing process.

Hydro One's Proposed Witness Panels and Responsibilities for the Oral Hearing

Enclosed is Hydro One's proposed list of witnesses, witness panels and a table depicting which witness panels have responsibility for the sections or parts of Hydro One's evidence. In view of the compressed time period for the oral hearing, Hydro One is not intending to proceed with an examination in chief of each witness panel. Instead each witness panel may make a brief opening statement addressing the panel's responsibilities and highlighting aspects of that panel's evidence.

Regarding the question raised in Procedural Order No. 6 as to whether issues on the issues list require further consideration in the oral hearing process, Hydro One makes two observations. First, Hydro One believes it would be helpful to receive intervenor views on this question and in context with Hydro One's proposed witness panels and areas of responsibility. For example, if parties can address the subject-matter areas of the questions they have in relation to the witness panels listed, this information may allow Hydro One to make revisions to the witness attendees and/or composition of its witness panels. Following receipt of intervenor submissions, Hydro One will provide follow-up remarks on these matters.

Second, the evidence of PSE and PEG addressed the Total Factor Productivity growth trend, the proposed Hydro One stretch factor, and the resultant X Factor in Hydro One's proposed Custom Incentive Regulation formula. PEG agreed with the reasonableness of PSE's conclusions on all of these components, including the combined X factor of 0.45%.[2] No other party has sponsored any other evidence on these points. Given this, Hydro One proposes that any differences in methodology between the PSE and PEG studies be addressed through written final argument, thus avoiding the need to have these witnesses attend from the United States and thereby making available additional hearing time.

We trust the foregoing is satisfactory.

Yours very truly,

McCarthy Tétrault LLP

Per: *(Signed in original)*

Gordon M. Nettleton
Encls.
cc: All Parties – EB-2017-0049

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[2] See Exhibit M1, p.6 of 67.

Supplemental Explanation of the Pole Attachment Rate Calculations

(Please see attached)

Supplemental Explanation of the Pole Attachment Rate Calculations

2018 HONI Rate Using New OEB Methodology ($47.67)

1. **Admin Costs of $1.59** =

   - **GIS Tracking (Joint Use Database Maintenance):** (2018 Joint Use Database enhancement costs = $38,378) + (Annual maintenance costs = 50 hours x $181/hour = $9,050) = $47,428
   - **Joint Use Staff Specific Labour:** $1,109,258.50
   - Total Administration Costs = $47,428+$1,109,258.50 = $1,156,686.50
   - Administration Cost Per Pole, Per Attacher = (2018 Total Administration Costs/Qty. of Joint Use Poles Extrapolated for 2018[1])/2018 Number of Attachers Per Pole
   - Administration Cost Per Pole, Per Attacher = ($1,156,686.50/537,719)/1.35 = $1.59

2. **Loss of Productivity of $3.20**

Trouble Calls Dispatched on Behalf of Telecom Carriers

Labour Type	Duration of Call (Minutes)	Quantity of Personnel	Total Labour Hours	Rate	Total Labour Dollars
DOMC (Reg. Hours)	34,777.52	1	579.63	$124.00	$71,873.53
RLM (regular hours)	292,389.07	2	9,746.30	$123.00	$1,198,795.17
RLM (OT)	109,606.63	2	3,653.55	$172.20	$629,142.08
Large Vehicle for RLM	401,995.70	1	6,699.93	$57.00	$381,895.91
Clerical - Scheduling/CIS (Reg. Hours)	19,024.47	1	317.07	$124.00	$39,317.23
Clerical - Scheduling/CIS (OT)	18.73	1	0.31	$173.60	$54.20
			Labour Only		**$1,939,182.22**
			Vehicle Only		**$381,895.91**
			Total Cost		**$2,321,078.13**

***Number of Hours Calculated using 2017 Data, 2018 Labour Dollars Applied

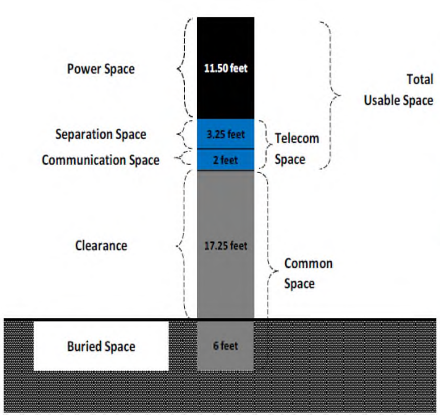
   - **Trouble Calls for Telecom Wires:**
     - Total Loss of Productivity Costs = (Total labour cost + Total vehicle time cost)
     - Total Loss of Productivity Costs = $1,939,182.22 + $381,895.91 = $2,321,078.13
   - Total Loss of Productivity Costs Per Pole, Per Attacher = (Total Loss of Productivity Costs/Qty. of Joint Use Poles Extrapolated for 2018[1])/2018 Number of Attachers Per Pole
   - Total Loss of Productivity Costs Per Pole, Per Attacher = ($2,321,078.13/537,719)/1.35 = $3.20

3. **Net Embedded Cost (NEC) of $1,290.58** = {[2018 Forecasted Year End Acquisition Value, as stated in D2-01-02-01, Page 5 of 5, USoA 1830, Cost, Closing Balance ($3,380,110,026.80) - 2018 Forecasted Year End Acquisition Value, as stated in D2-01-02-01, Page 5 of 5, USoA 1830,

[1] 2018 quantity of poles are extrapolated using 2016 and 2017 data sets, which shows an average increase of 12,227 Joint Use Poles per year, and an average increase of 1,644 total poles per year.

Accumulated Depreciation, Closing Balance ($1,002,000,428.80) = $2,378,109,598.00]/Qty. of Poles Extrapolated for 2018 (1,566,272) [1]}* Reduction by 15% to remove power specific assets (85%)

4. **<u>Depreciation Cost of $33.35</u>**
   - Depreciation Rate = 1.82%
     - Depreciation Rate = 1/Hydro One's Useful Life of Poles (as stated in C1-06-01, Attachment 1, Page 22) = 1/55 = 1.82%
   - [2018 Forecasted Year End Acquisition Value, as stated in D2-01-02-01, Page 5 of 5, USoA 1830, Cost, Closing Balance ($3,380,110,026.80) / Qty. of Poles Extrapolated for 2018 (1,566,272) [1]] * Depreciation Rate (1.82%)* Reduction by 15% to remove power specific assets (85%)
5. **<u>Pole Maintenance Costs of $7.25</u>** =
   [USoA 5120, as stated in G1-03-01, Attachment 3, Sheet I3 Trial Balance Data, Cell H392 ($23,422,812.70)/ Qty. of Poles Extrapolated for 2018[1] (1,566,272) = $14.95]*Allocation to Third Parties Determined by OEB (48.50%)
   =$7.25
6. **<u>Capital Carrying Cost of $96.66</u>** = 2018 Forecasted Net Embedded Cost as calculated in Line 3 above ($1,290.58) * 2018 Before Tax Weighted Average Cost of Capital (7.49%)
7. **<u>Average Number of Attachers Per Pole =</u>** (2018 Total Number of Permitted Poles for All Attachers / Qty. of Joint Use Poles Extrapolated for 2018[1]) = 726,240/537,719 = 1.350593897 (1.35)
8. **<u>Allocation Factor =</u>** [(Telecom Space + Half of Common Space)/Number of Attachers Per Pole]/Length of Average Pole
   - =[(5.25 + 23.25/2)/1.35]/40=31.24%



	Feet
Power Space	**11.50**
Separation Space	3.25
Communication Space	2.00
Telecom Space	**5.25**
Total Usable Space	**16.75**
Clearance Space	17.25
Buried Space	6.00
Total Common Space	**23.25**
Total	**40.00**

Extract from Draft Report of the Board – Framework for Determining Wireline Pole Attachment Charges (EB-2015-0304), December 18, 2017, Page 13

The rate calculated for 2018 was escalated by the corresponding year's forecast of Implicit Price Index to determine the rates for 2019-2022.

Forecast of Implicit Price Index (%)				
Year	2019	2020	2021	2022
IPI	1.7%	2.1%	2.0%	1.9%

9. **2019 rate of $48.47** = $47.67 * (1.0167498015336053)
10. **2020 rate of $49.48** = $48.47 * (1.0208685966047693)
11. **2021 rate of $50.45** = $49.48 * (1.0196572938702602)
12. **2022 rate of $51.41** = $50.45 * (1.0189042362715679)

[1]2018 quantity of poles are extrapolated using 2016 and 2017 data sets, which shows an average increase of 12,227 Joint Use Poles per year, and an average increase of 1,644 total poles per year.

Draft Hearing Plan

(Please see attached)

Hydro One Distribution Witness Panels
Areas of Responsibility and Scheduling

Hydro One proposes to make available the following Panels and Witnesses for the oral hearing of proceeding EB-2017-0049. The attached tables provide detailed lists of the areas of responsibility for each of the witnesses. Please note that panels have overlapping areas of responsibility for various issues on the issues list in this proceeding.

Custom IR Application
• Chris Lopez, Senior Vice President – Finance (Hydro One)
• Frank D'Andrea, Interim Vice President – Regulatory Affairs & Chief Risk Officer (Hydro One)
• Henry Andre, Director – Pricing and Load Forecasting (Hydro One)
• Steven Fenrick, Leader, Economics & Market Research (Power System Engineering Inc.)

Finance & Compensation
• Samir Chhelavda,[1] Director – Corporate Accounting & Reporting (Hydro One)
• Joel Jodoin, Senior Financial Advisor – Financial Planning (Hydro One)
• Keith McDonell, Director – HR Projects (Hydro One)
• Iain Morris, Partner (Mercer Canada Limited)

Customer Engagement
• Ferio Pugliese, Executive Vice President - Customer Care and Corporate Affairs (Hydro One)
• Imran Merali, Director – Custom Program Delivery (Hydro One)
• Derek Chum, Vice President – Indigenous Relations (Hydro One)
• Sandra Guiry, Senior Vice President, Public Affairs (IPSOS Reid)
• Brad Griffin, Senior Vice President, Head of Qualitative Canada (IPSOS Reid)

Expert Panel: Work Programs
• Ben Grunfeld, Managing Director, Energy (Navigant)
• Ken Buckstaff, Managing Director (First Quartile)
• Steve Tankersley, Principal Consultant (Clear Path Utility Solutions LLC)

Asset Management Planning & Work Execution
• Darlene Bradley, Vice President – Planning (Hydro One)
• Bruno Jesus, Director – Strategy and Integrated Planning (Hydro One)
• Lyla Garzouzi, Director – Distribution Asset Management (Hydro One)
• Brad Bowness, Vice President – Distribution (Hydro One)

Shared Services
• Rob Berardi, Vice President – Shared Services (Hydro One)
• Imran Merali, Director – Custom Program Delivery (Hydro One)
• Lincoln Frost-Hunt, Director – Enterprise IT (Hydro One)
• Tom Irvine, Director – System Control (Hydro One)

[1] Unavailable after June 15th.

Load Forecasting & Rate Design

- Henry Andre, Director – Pricing and Load Forecasting (Hydro One)
- Bijan Alagheband, Manager – Economics and Load Forecasting (Hydro One)
- Clement Li, Manager – Pricing (Hydro One)
- John Boldt, Manager – Asset Optimization (Tx Secondary Land Use & Dx Joint Use) (Hydro One)

Hydro One Distribution Witness Panels

Areas of Responsibility and Scheduling

Panels	Issue Responsibility	Witness Responsibility	Application Exhibits	**Interrogatories**	**Technical Conference Undertakings**
Custom IR • Chris Lopez • Frank D'Andrea • Henry Andre • Steven Fenrick	**A: General** #1, 3, 6 **B: Custom Application** #7, 8, 9, 10, 12, 13, 14, 15, 16 **C: Outcomes, Scorecard & Incentives** #17, 18, 19, 20, 21, 22 **D: Distribution System Plan** #23, 24. 25, 27, 32 **E: Rate Base & Cost of Capital** #33, 35, 36, 37 **F: Operations, Maintenance & Administration Costs** #38, 40, 41, 43	**Chris Lopez**	A, Tab 3, Sch 1, Att 1 A, Tab 3, Sch 1, Att 2 A, Tab 3, Sch 1, Att 3 A, Tab 3, Sch 1, Att 4 A, Tab 3, Sch 1, Att 5 A, Tab 5, Sch 1 A, Tab 5, Sch 2 B1, Tab 1, Sch 1, Sec 1.4 B1, Tab 1, Sch 1, Sec 1.5 C1, Tab 7, Sch 1 C1, Tab 7, Sch 2, Att 1 C1, Tab 7, Sch 2, Att 2 C1, Tab 7, Sch 2, Att 3 C1, Tab 7, Sch 2, Att 4 C1, Tab 7, Sch 2, Att 5 C1, Tab 7, Sch 2, Att 6 C1, Tab 7, Sch 3 Q, Tab 1, Sch 1, Att 1	**BOMA** • I-00-062 • I-03-036 • I-03-039 • I-07-082 • I-17-034 • I-17-071 • I-22-122 • I-23-032 • I-24-033 • I-35-031 • I-35-081 • I-36-159 • I-36-161 • I-42-160 **CCC** • I-03-003 • I-03-005 • I-03-007 • I-03-009 • I-08-012 • I-14-016 • I-21-020 • I-21-021 • I-21-022 • I-38-040	

I: Cost Allocation & Rate Design
#49, 53, 55, 56

J: Deferral/Variance Accounts
#57, 58

CME
- I-03-042
- I-03-046
- I-33-043
- I-33-044
- I-33-045
- I-57-041

SEC
- I-03-001
- I-03-004
- I-21-032
- I-21-033
- I-25-049

OEB Staff
- I-03-010
- I-03-011
- I-03-012
- I-03-013
- I-08-037
- I-10-047
- I-18-067
- I-23-078
- I-25-123
- I-25-145
- I-25-146
- I-25-148
- I-25-150

EP
- I-10-008
- I-10-009
- I-10-010
- I-22-035

			• I-25-045 • I-25-046 • I-25-047 **OSEA** • I-21-011 **AMPCO** • I-21-015 **VECC** • I-08-009 • I-26-023 • I-38-040 **SEP** • I-26-003 • I-38-004 • I-43-018 **PWU** • I-40-025	
	Frank D’Andrea	A, Tab 1, Sch 1 A, Tab 2, Sch 1 A, Tab 2, Sch 1, Att 1 A, Tab 3, Sch 1 A, Tab 3, Sch 2 A, Tab 7, Sch 1 A, Tab 8, Sch 1 A, Tab 9, Sch 1 A, Tab 9, Sch 2 A, Tab 10, Sch 1 B1, Tab 1, Sch 1, Sec 1.3 C1, Tab 5, Sch 2 Q, Tab 1, Sch 1	**BOMA** • I-00-064 • I-01-001 • I-06-146 • I-07-079 • I-07-088 • I-07-144 • I-08-141 • I-08-142 • I-08-143 • I-09-001 • I-09-002	JT 1.17-1 JT 1.17-2 JT 3.19 JT 3.25

Q, Tab 1, Sch 1, Att 8	• I-13-085 • I-13-086 • I-13-087 • I-15-063 • I-16-089 • I-16-093 • I-17-080 • I-20-021 • I-27-009 • I-32-145 **CCC** • I-03-002 • I-03-008 • I-07-010 • I-13-015 • I-16-018 • I-53-069 • I-53-070 • I-53-071 **SEC** • I-03-004 • I-03-006 • I-10-010 • I-10-020 • I-24-046 • I-56-090 • I-56-091 • I-56-092 **CME** • I-07-001 • I-08-002 • I-08-003

- I-08-011
- I-09-004
- I-09-005
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- I-15-007
- I-16-010
- I-37-063
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- I-58-009

EP
- I-07-005
- I-07-006
- I-09-007
- I-10-011
- I-14-012
- I-17-013
- I-17-014
- I-18-018
- I-18-020
- I-22-025

OEB Staff
- I-08-019
- I-08-021
- I-08-036
- I-08-038
- I-10-047
- I-10-048
- I-15-064
- I-16-065

VECC
- I-07-003
- I-07-004
- I-07-005

			• I-07-006 • I-07-007 • I-09-010 • I-09-011 • I-09-013 • I-09-014 • I-14-015 • I-16-016 • I-18-019 • I-38-051 • I-55-129 **AMPCO** • I-24-004 • I-24-005 • I-24-016 • I-49-049 • I-49-050 **OSEA** • I-25-018 **COFH** • I-46-006	
	Henry Andre (Custom IR and Acquireds MAAD and influence on CIR)	A, Tab 3, Sch 2 A, Tab 7, Sch 1 B1, Tab 1, Sch 1, App. A	**AMPCO** I-24-005 **BOMA** I-13-085 I-16-089 I-13-086	JT3.20

		I-13-087 **CCC** I-13-015 I-14-016 I-53-069 I-53-070 I-53-071 **CME** I-07-001 I-45-066 **EP** I-07-006 **SEC** I-56-90 I-56-91 I-56-92 **VECC** I-07-003 I-14-015 I-38-051	
Steven Fenrick	A, Tab 3, Sch 2, Att 1 A, Tab 3, Sch 2, Att 2 A, Tab 5, Sch 2, Att 1	**BOMA** • I-07-010 • I-07-011 • I-07-066 • I-09-003	JT 1.2 JT 1.3 JT 1.4 JT 1.5 JT 1.6

• I-09-004 JT 1.7
• I-09-005
• I-09-006
• I-09-007
• I-09-008
• I-09-009
• I-09-012
• I-09-015
• I-09-016
• I-09-065
• I-09-067

CME
• I-08-003
• I-10-012

OEB Staff
• I-08-022
• I-08-023
• I-08-024
• I-08-025
• I-08-026
• I-08-027
• I-08-028
• I-08-029
• I-08-030
• I-08-031
• I-08-032
• I-08-033
• I-08-034
• I-08-035
• I-10-039
• I-10-040
• I-10-041
• I-10-042

• I-10-043
• I-10-044
• I-10-045
• I-10-046

VECC
• I-08-008

SEC
• I-10-011
• I-10-012
• I-10-013
• I-10-014
• I-10-015
• I-10-016
• I-10-017
• I-10-018
• I-10-019
• I-10-021
• I-10-022
• I-10-023
• I-10-024

Panels	Issue Responsibility	Witness Responsibility	Application Exhibits	**Interrogatories**	**Technical Conference Undertakings**
Finance & Compensation • Samir Chhelavda • Joel Jodoin • Keith McDonell • Iain Morris	**A: General** #1,3 **B: Custom Application** #8, 9, 10, 11 **C: Outcomes, Scorecard & Incentives** #21, 22 **D: Distribution System Plan** #24, 25, 26, 31, 32 **E: Rate Base & Cost of Capital** #33, 34, 35, 36, 37 **F: Operations, Maintenance & Administration Costs** #38, 40, 41, 42, 43 **G: Revenue Requirement** #44, 45 **J: Deferral/Variance Accounts** #57, 58, 59 **I: Cost Allocation & Rate Design**	**Samir Chhelavda**	A, Tab 6, Sch 1 A, Tab 6, Sch 2 A, Tab 6, Sch 2, Att 1 A, Tab 6, Sch 2, Att 2 A, Tab 6, Sch 2, Att 3 A, Tab 6, Sch 3 A, Tab 6, Sch 4 A, Tab 6, Sch 4, Att 1 A, Tab 6, Sch 4, Att 2 A, Tab 6, Sch 5 A, Tab 6, Sch 5, Att 1 A, Tab 6, Sch 6 A, Tab 6, Sch 7 A, Tab 6, Sch 7, Att 1 A, Tab 6, Sch 7, Att 2 A, Tab 6, Sch 7, Att 3 A, Tab 6, Sch 8 A, Tab 6, Sch 8, Att 1 C1, Tab 2, Sch 2 C1, Tab 2, Sch 2, Att 1 C1, Tab 2, Sch 2, Att 2 C1, Tab 6, Sch 1 C1, Tab 6, Sch 1, Att 1 C1, Tab 6, Sch 2 D1, Tab 2, Sch 1 D1, Tab 2, Sch 2 D2, Tab 1, Sch 2, Att 1 D2, Tab 1, Sch 2 D2, Tab 1, Sch 3 D2, Tab 1, Sch 4 D2, Tab 2, Sch 1 D2, Tab 2, Sch 2 F1, Tab 1, Sch 1	**SEP** • I-01-001 • I-40-005 • I-40-006 • I-40-007 • I-40-008 • I-43-019 • I-44-020 • I-44-021 • I-57-022 **CME** • I-04-098 • I-37-062 • I-37-064 • I-44-036 • I-44-037 • I-44-038 • I-44-039 • I-44-040 • I-57-081 • I-57-082 • I-57-083 • I-57-084 • I-57-085 • I-57-086 **OEB Staff** • I-07-017 • I-08-019 • I-10-049	JT 1.8 JT 1.9 JT 1.13 JT 1.14 JT 1.15 JT 1.16 JT 1.17-3 JT 1.17-4 JT 1.17-5 JT 1.17-9 JT 1.17-10 JT 1.17-13 JT 1.21 **EB-2016-0160 Undertakings** • TCJ2.1

	#54, 55 **J: Deferral/Variance Accounts** #57, 58	F1, Tab 1, Sch 1, Att 1 F1, Tab 1, Sch 1, Att 2 F1, Tab 2, Sch 1 F1, Tab 2, Sch 1, Att 1 F1, Tab 3, Sch 1	• I-33-180 • I-37-182 • I-38-183 • I-40-209 • I-40-211 • I-40-212 • I-40-213 • I-40-214 • I-40-215 • I-40-216 • I-40-217 • I-44-218 • I-57-266 • I-57-267 • I-57-268 • I-57-269 • I-57-270 • I-57-271 • I-57-272 • I-57-273 • I-58-274 **CCC** • I-09-014 • I-34-032 • I-54-073 • I-54-074 • I-55-075 **VECC** • I-09-012 • I-33-031 • I-37-035 • I-37-036 • I-38-052 • I-41-056

		• I-54-127	
		• I-54-128	
		EP	
		• I-24-033	
		• I-25-049	
		• I-37-054	
		• I-44-063	
		• I-44-064	
		• I-57-070	
		• I-57-071	
		• I-57-072	
		BOMA	
		• I-32-153	
		• I-36-156	
		• I-36-157	
		• I-36-158	
		• I-38-154	
		• I-41-155	
		SEC	
		• I-34-068	
		AMPCO	
		• I-40-051	
Joel Jodoin	C1, Tab 1, Sch 1	**AMPCO**	JT 1.17-3
	C1, Tab 1, Sch 6	• I-03-053	JT 1.17-7
	C1, Tab 1, Sch 7		JT 1.17-8
	C1, Tab 1, Sch 10	**CCC**	JT 1.17-9
	C1, Tab 3, Sch 1	• I-03-004	JT 1.17-10
	C1, Tab 3, Sch 1, Att 1	• I-08-013	JT 1.17-11
	C1, Tab 4, Sch 1	• I-33-028	JT 1.17-12
(Black & Veatch)	C1, Tab 4, Sch 1, Att 1	• I-33-029	JT 1.17-13

		C2, Tab 1, Sch 1	• I-34-032	JT 1.17-14
		D1, Tab 1, Sch 1	• I-38-036	JT 1.17-15
		D1, Tab 1, Sch 3	• I-38-039	JT 1.17-16
	(Navigant)	D1, Tab 1, Sch 3, Att 1	• I-38-049	JT 1.17-17
		D1, Tab 3, Sch 1	• I-38-050	JT 1.17-18
	(Black & Veatch)	D1, Tab 3, Sch 1, Att 1	• I-40-060	JT 1.17-19
		D1, Tab 3, Sch 1, Att 2		JT 1.19
		D1, Tab 4, Sch 1	**CME**	JT 1.20
	(Black & Veatch)	D1, Tab 4, Sch 1, Att 1	• I-03-065	JT 2.7
		D2, Tab 1, Sch 1	• I-34-048	JT 3.13
		D2, Tab 1, Sch 5	• I-34-049	
		E1, Tab 1, Sch 1	• I-34-050	
		E1, Tab 1, Sch 2, Att 1	• I-34-051	
		E2, Tab 1, Sch 1	• I-34-052	
		E2, Tab 1, Sch 2	• I-34-053	
			• I-34-054	
			• I-34-055	
			• I-34-056	
			• I-34-057	
			• I-34-058	
			• I-34-059	
			• I-34-060	
			• I-34-061	
			• I-37-062	
			OEB Staff	
			• I-08-018	
			• I-29-163	
			• I-33-176	
			• I-33-177	
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			• I-33-179	
			• I-34-181	
			• I-38-184	
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• I-22-030
• I-33-053
• I-40-058

BOMA
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• I-32-028
• I-32-029
• I-37-026
• I-37-027

SEC
• I-33-067
• I-34-068
• I-38-069
• I-38-070
• I-43-086

VECC
• I-34-032
• I-34-033
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• I-38-037
• I-38-043
• I-38-046
• I-38-047
• I-38-050
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• I-40-055

	(Willis Towers Watson)	C1, Tab 2, Sch 1, Att 1	• I-01-002 • I-09-013	JT 1.11 JT 1.12
	(Willis Towers Watson)	C1, Tab 2, Sch 1, Att 2	• I-09-014	JT 2.1 JT 2.2
	(Willis Towers Watson)	November 28, 2017 Update	**SEC** • I-03-002 • I-03-005	JT 2.3 JT 2.4 JT 2.5
	(Hugensen)	C1, Tab 2, Sch 1, Att 3 C1, Tab 2, Sch 1, Att 4	• I-40-075 • I-40-076 • I-40-077 • I-40-078 • I-40-079 • I-40-080 • I-40-081 • I-40-082 • I-40-083 • I-40-084 • I-40-085 **OEB Staff** • I-21-073 • I-40-204 • I-40-205 • I-40-206 • I-40-207 • I-40-208 • I-40-210 **SEP** • I-26-002 • I-40-008 • I-40-009 • I-40-010 • I-40-011 • I-40-012	JT 2.6 JT 2.8 **EB-2016-0160 Undertakings** • TCJ2.1

- I-40-013
- I-40-014
- I-40-015
- I-40-016
- I-40-017

CCC
- I-38-051
- I-38-052
- I-38-053
- I-38-054
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- I-38-056
- I-38-057

VECC
- I-38-042
- I-38-048
- I-38-049

AMPCO
- I-40-047
- I-40-048

CME
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- I-40-031
- I-40-032
- I-40-033
- I-40-034
- I-41-035

EP
- I-40-055
- I-40-056
- I-41-061

- I-41-062

PWU
- I-40-026
- I-40-027
- I-40-028
- I-40-029
- I-40-030
- I-40-035
- I-40-036

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- I-06-061

SEP
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- I-08-012
- I-08-013
- I-08-014
- I-08-015
- I-08-016
- I-08-017
- I-08-018

CME
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EP
- I-11-020
- I-11-021

			• I-11-022 • I-11-026 **VECC** • I-12-020 • I-12-021
	Mercer	C1, Tab 2, Sch 1, Att 5 April 4, 2018 Study	**PWU** • I-40-031 • I-40-032 • I-40-033 • I-40-034

Hydro One Distribution Witness Panels

Areas of Responsibility and Scheduling

Panels	Issue Responsibility	Witness Responsibility	Application Exhibits	**Interrogatories**	**Technical Conference Undertakings**
Customer Engagement • Ferio Pugliese • Imran Merali • Derek Chum • Sandra Guiry • Brad Griffin	**A: General** #1, 2, 4, 5, 6 **B: Custom Application** #16 **C: Outcomes, Scorecard & Incentives** #17, 20, 22 **D: Distribution System Plan** #23 **F: Operations, Maintenance & Administration Costs** #38 **I: Cost Allocation & Rate Design** #49, 53	**Ferio Pugliese**		**CCC** • I-02-001 • I-38-034 • I-38-037 **OEB Staff** • I-02-001 • I-02-002 • I-02-003 • I-02-005 • I-02-007 • I-02-008 • I-02-009 • I-17-066 • I-23-076 **VECC** • I-02-001 • I-02-002 **BLC** • I-05-004 **BOMA** • I-16-069 • I-23-005 • I-23-006	

		OSEA • I-17-005 **EP** • I-22-029 **SEC** • I-29-062 • I-38-074
Imran Merali	A, Tab 4, Sch 1 A, Tab 5, Sch 3 A, Tab 5, Sch 3, Att 1 A, Tab 5, Sch 3, Att 2 B1, Tab 1, Sch 1, Sec 1.3 ISS: GP-30 ISS: GP-32 – ISS: GP-34	**OSEA** • I-01-001 • I-17-006 • I-17-007 • I-20-010 • I-23-016 **AMPCO** • I-02-002 • I-23-010 **BOMA** • I-16-068 • I-16-070 • I-16-074 • I-16-096 • I-16-097 • I-16-098 • I-16-099 • I-16-101 • I-16-103 • I-16-106 • I-16-109 • I-16-119

		• I-16-120 • I-16-121 • I-22-100 • I-22-108 • I-23-004
Derek Chum	A, Tab 4, Sch 2	**PWU** • I-04-007 **CCC** • I-17-019 • I-38-059 • I-49-065 • I-49-066 • I-53-067 **SEC** • I-23-034 • I-23-035 **ANWA** • I-06-001 • I-06-002 • I-06-003 • I-06-004 • I-06-005 • I-06-006 • I-06-007 **OSEA** • I-06-003 • I-06-004 **OEB Staff** • I-06-015

	• I-06-016 **BOMA** • I-16-094

Hydro One Distribution Witness Panels

Areas of Responsibility and Scheduling

Panels	Issue Responsibility	Witness Responsibility	Application Exhibits	**Interrogatories**	**Technical Conference Undertakings**
Expert Panel: Work Programs **Navigant/First Quartile** • Ben Grunfeld • Ken Buckstaff **ClearPath** • Steve Tankersley	**B: Custom Application** #10 **D: Distribution System Plan** #25	**Navigant**	B1, Tab 1, Sch 1, Sec 1.6, Att 1	**SEC** • I-10-025 • I-10-026 • I-10-027 **OEB Staff** • I-10-050 • I-10-051 • I-10-052 • I-10-053 • I-10-054 • I-10-055 • I-10-056 • I-10-057 • I-10-058 • I-10-059 • I-25-127 • I-25-133	
		Clear Path	C1, Tab 1, Sch 2, Att 1 Q, Tab 1, Sch 1, Att 1	**SEC** • I-10-028	

Hydro One Distribution Witness Panels

Areas of Responsibility and Scheduling

Panels	Issue Responsibility	Witness Responsibility	Application Exhibits	**Interrogatories**	**Technical Conference Undertakings**
Asset Management Planning & Work Execution • Darlene Bradley • Lyla Garzouzi • Brad Bowness • Bruno Jesus	**A: General** #1 **B: Custom Application** #7, 8, 10, 11, 14, 16 **C: Outcomes, Scorecard & Incentives** #17, 18, 19, 21, 22 **D: Distribution System Plan** #23, 24, 25, 26, 27, 28, 29, 30 **E: Rate Base & Cost of Capital** #33, 35, 36 **F: Operations, Maintenance & Administration Costs** #38, 39, 43	**Darlene Bradley**	B1, Tab 1, Sch 1, Sec 1.0 B1, Tab 1, Sch 1, Sec 1.1 B1, Tab 1, Sch 1, Sec 1.2 B1, Tab 1, Sch 1, Sec 1.3 B1, Tab 1, Sch 1, Sec 1.4 B1, Tab 1, Sch 1, Sec 1.6 B1, Tab 1, Sch 1, Sec 2.0 B1, Tab 1, Sch 1, Sec 2.1 B1, Tab 1, Sch 1, Sec 2.4 B1, Tab 1, Sch 1, Sec 3.0 B1, Tab 1, Sch 1, Sec 3.1 B1, Tab 1, Sch 1, Sec 3.2 B1, Tab 1, Sch 1, Sec 3.3 B1, Tab 1, Sch 1, Sec 3.4 B1, Tab 1, Sch 1, Sec 3.6 B1, Tab 1, Sch 1, Sec 3.7 B1, Tab 1, Sch 1, Sec 3.8 B1, Tab 1, Sch 2 C1, Tab 1, Sch 8	**BOMA** • I-01-040 • I-01-044 • I-01-048 • I-01-049 • I-01-052 • I-01-053 • I-03-037 • I-16-090 • I-16-095 • I-19-038 • I-19-075 • I-19-076 • I-19-077 • I-22-105 • I-23-078 • I-35-031 **CCC** • I-07-011 • I-24-023 • I-24-024 • I-24-025 • I-24-026 • I-38-038 **SEC**	

• I-03-003
• I-03-007
• I-03-008
• I-03-009
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• I-18-030
• I-18-031
• I-24-036
• I-24-038
• I-24-039
• I-24-042
• I-24-045
• I-25-048
• I-28-051
• I-29-052
• I-29-055
• I-29-056

AMPCO
• I-18-003
• I-19-012
• I-19-014
• I-24-006
• I-24-033
• I-29-027

EP
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• I-23-031
• I-24-032
• I-24-034
• I-25-042
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• I-25-044
• I-25-050

			• I-25-051 • I-40-057 **CME** • I-20-015 • I-24-013 • I-29-019 • I-29-024 **ESC** • I-24-003 **VECC** • I-18-017 • I-18-018 • I-24-021 • I-24-022 • I-29-026 • I-38-041 **OSEA** • I-17-008 • I-18-009 • I-27-019 • I-28-020 **PWU** • I-29-010 • I-29-015 • I-38-018 • I-38-019	
	(AESI)	B1, Tab 1, Sch 2		JT 2.11 JT 2.15 JT 2.16

DRAFT

	Lyla Garzouzi	B1, Tab 1, Sch 1, Sec 1.2 B1, Tab 1, Sch 1, Sec 1.6 B1, Tab 1, Sch 1, Sec 2.2 B1, Tab 1, Sch 1, Sec 2.3 B1, Tab 1, Sch 1, Sec 2.4 B1, Tab 1, Sch 1, Sec 3.3 B1, Tab 1, Sch 1, Sec 3.5 B1, Tab 1, Sch 1, Sec 3.7 B1, Tab 1, Sch 1, Sec 3.8 ISD: SA-01 - ISD: SA-05 ISD: SR-01 - ISD: SR-14 ISS: SS-01 - ISD: SS-07 ISS: GP-25 - ISD: GP-27 ISS: GP-35 B1, Tab 1, Sch 1, App 1 C1, Tab 1, Sch 2 C1, Tab 1, Sch 3 Q, Tab 1, Sch 1	**BOMA** • I-01-003 • I-01-041 • I-01-042 • I-01-043 • I-01-046 • I-01-050 • I-01-051 • I-01-148 • I-01-150 • I-01-151 • I-19-057 • I-19-058 • I-19-059 • I-22-127 • I-23-007 • I-23-008 • I-23-129 • I-23-130 • I-23-132 • I-23-133 • I-23-134 • I-23-135 • I-23-136 • I-23-137 • I-23-138 • I-23-139 • I-25-131 • I-25-140 • I-25-152 • I-28-010 • I-28-025 • I-29-125 • I-36-156 • I-38-054 • I-38-147	JT 3.1-2 JT 3.1-11 JT 3.1-12 JT 3.1-13 JT 3.1-14 JT 3.1-15 JT 3.1-16 JT 3.1-20 JT 3.1-22 JT 3.1-23 JT 3.1-24 JT 3.1-25 JT 3.3 JT 3.4 JT 3.5 JT 3.14 JT 3.15 JT 3.17

OEB Staff

- I-08-020
- I-10-061
- I-10-063
- I-23-083
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OSEA
- I-21-012
- I-21-013

EP
- I-22-023
- I-22-026
- I-25-039
- I-25-041
- I-27-052

AMPCO
- I-23-007
- I-24-023
- I-24-024
- I-24-025
- I-24-026
- I-25-032
- I-28-009
- I-29-030
- I-38-037
- I-38-038
- I-38-040
- I-38-041
- I-38-042
- I-38-043
- I-38-044

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• I-39-039

SEC
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• I-24-044
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• I-28-051
• I-29-052
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• I-29-054
• I-29-057
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• I-29-064
• I-38-071
• I-38-072

CME
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• I-29-018
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• I-29-021
• I-29-022
• I-29-023
• I-29-025
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• I-29-029

PWU
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• I-29-011
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	(CN Utility Consulting)	B1, Tab 1, Sch 1, Sec 1.6, Att 2 C1, Tab 1, Sch 2, Att 2	**OEB Staff** • I-10-060 • I-25-132 **AMPCO** • I-25-017
	Brad Bowness	B1, Tab 2, Sch 1 D1, Tab 1, Sch 2	**BOMA** • I-07-061

- I-09-060
- I-17-083
- I-17-084

EP
- I-19-022

OEB Staff
- I-21-023
- I-24-102
- I-24-118
- I-24-121
- I-29-165

AMPCO
- I-24-035
- I-33-052

SEC
- I-24-047
- I-29-065
- I-33-066

CCC
- I-33-030

VECC
- I-33-028
- I-33-029

BOMA
- I-01-045
- I-01-149
- I-16-092

JT 2.9
JT 2.10
JT 3.1-1
JT 3.1-3
JT 3.1-4
JT 3.1-5
JT 3.1-6
JT 3.1-7
JT 3.1-8
JT 3.1-9
JT 3.1-10

Bruno Jesus

• I-16-102	JT 3.1-17
• I-16-118	JT 3.1-18
• I-19-018	JT 3.1-19
• I-19-019	JT 3.1-21
• I-19-020	JT 3.2
• I-19-047	JT 3.6
• I-19-114	JT 3.7
• I-22-128	JT 3.8
• I-23-055	JT 3.9
• I-23-126	JT 3.10
• I-24-091	JT 3.11
• I-25-056	JT 3.12
• I-25-107	JT 3.13
• I-25-110	JT 3.16
• I-25-111	JT 3.22-2
• I-25-112	
• I-25-113	
• I-29-115	

EP
- I-02-001
- I-18-017
- I-18-019
- I-22-024
- I-25-036
- I-25-038

OEB Staff
- I-20-068
- I-20-069
- I-20-070
- I-20-071
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- I-24-088
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• I-24-100
• I-24-101
• I-29-168

VECC
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AMPCO
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• I-24-008
• I-24-013
• I-24-020
• I-24-021
• I-24-022
• I-24-034
• I-24-036
• I-29-028
• I-29-029
• I-29-031
• I-39-046

ANWA
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SEC
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• I-24-040

	• I-24-041 **CME** • I-29-014 **CCC** • I-33-031 **PWU** • I-38-020

Hydro One Distribution Witness Panels

Areas of Responsibility and Scheduling

Panels	Issue Responsibility	Witness Responsibility	Application Exhibits	**Interrogatories**	**Technical Conference Undertakings**
Shared Services • Rob Berardi • Imran Merali • Lincoln Frost-Hunt Tom Irvine	**B: Custom Application** #10, 11, 16 **C: Outcomes, Scorecard & Incentives** #18, 19, 21, 22 **D: Distribution System Plan** #23, 24, 25, 26, 27, 30 **F: Operations, Maintenance & Administration Costs**	**Rob Berardi**	B1, Tab 1, Sch 1, Sec 2.3 B1, Tab 1, Sch 1, Sec 3.7 B1, Tab 1, Sch 1, Sec 3.8 ISS: GP-01 - ISD: GP-02 C1, Tab 3, Sch 1, Att 2 C1, Tab 3, Sch 1, Att 3 C1, Tab 5, Sch 1 C1, Tab 5, Sch 1, Att 1 C1, Tab 5, Sch 1, Att 2 C1, Tab 5, Sch 1, Att 3 C1, Tab 7, Sch 4 D1, Tab 1, Sch 4	**OEB Staff** • I-21-074 • I-29-173 **CCC** • I-24-027 • I-38-058 • I-40-060 **EP** • I-25-037 • I-41-060 **SEC** • I-29-058 • I-29-059	
	#38, 39, 40, 41, 42, 43	**Imran Merali**	C1, Tab 1, Sch 5 E1, Tab 1, Sch 2	**EP** • I-04-004	JT 2.13 JT 2.14

G: Revenue Requirement
#45

H: Load & Revenue Forecast
#46

I: Cost Allocation & Rate Design
#51

• I-17-015	JT 2.17
• I-18-021	JT 2.18
• I-22-027	JT 2.19
• I-25-040	JT 2.20
• I-41-059	JT 2.21

BOMA
• I-02-073
• I-16-072
• I-16-117
• I-19-116
• I-39-011

OEB Staff
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• I-02-006
• I-06-014
• I-23-077
• I-23-080
• I-23-081
• I-23-082
• I-38-199
• I-38-200
• I-38-201
• I-38-202
• I-38-203

CCC
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• I-38-035
• I-38-048

SEC
• I-38-073

VECC

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		CME • I-45-068 • I-54-095
		COFH • I-46-005
Lincoln Frost-Hunt	B1, Tab 1, Sch 1, Sec 2.3 B1, Tab 1, Sch 1, Sec 3.7 B1, Tab 1, Sch 1, Sec 3.8 ISS: GP-03 - ISD: GP-17 ISS: GP-21 ISS: GP-23 - ISD: GP-24 ISS: GP-28 - ISD: GP-29 ISS: GP-31 ISS: GP-35 C1, Tab 1, Sch 9	**OEB Staff** • I-10-062 • I-21-072 • I-25-149 • I-25-151 • I-25-152 • I-25-153 • I-29-166 • I-29-173 **OSEA**

		• I-22-014 • I-22-015 **AMPCO** • I-25-018 **EP** • I-25-048 **BOMA** • I-28-024 **SEC** • I-29-060	
(Gartner)	B1, Tab 1, Sch 1, Sec 1.6, Att 3		
Tom Irvine	B1, Tab 1, Sch 1, Sec 3.7 B1, Tab 1, Sch 1, Sec 3.8 ISS: GP-18 - ISD: GP-20 ISS: GP-22 C1, Tab 1, Sch 4	**BOMA** • I-07-061 • I-09-060 • I-17-084 **EP** • I-19-022 **OEB Staff** • I-08-020 • I-21-023 • I-24-102 • I-24-118 • I-24-121 • I-29-165	JT 2.12

Hydro One Distribution Witness Panels

Areas of Responsibility and Scheduling

Panels	Issue Responsibility	Witness Responsibility	Application Exhibits	**Interrogatories**	**Technical Conference Undertakings**
Load Forecasting & Rate Design • Henry Andre • Bijan Alagheband • John Boldt	**A: General** #2, 3, 4, 5 **C: Outcomes, Scorecard & Incentives** #22 **D: Distribution System Plan** #23, 24 **F: Operations, Maintenance & Administration Costs** #42, 43 **G: Revenue Requirement**	**Henry Andre**	G1, Tab 1, Sch 1 G1, Tab 2, Sch 1 G1, Tab 3, Sch 1 G1, Tab 3, Sch 1, Att 1 G1, Tab 3, Sch 1, Att 2 G1, Tab 3, Sch 1, Att 3 G1, Tab 3, Sch 1, Att 4 H1, Tab 1, Sch 1 H1, Tab 1, Sch 1, Att 1 H1, Tab 1, Sch 1, Att 2 H1, Tab 1, Sch 2 H1, Tab 1, Sch 3 H1, Tab 1, Sch 4 H1, Tab 2, Sch 1 H1, Tab 2, Sch 2 H1, Tab 2, Sch 2, Att 1 H1, Tab 2, Sch 2, Att 2 H1, Tab 2, Sch 2, Att 3 H1, Tab 2, Sch 2, Att 4 H1, Tab 3, Sch 1	**BLC** • I-01-001 • I-04-002 • I-04-003 • I-04-004 • I-49-005 • I-49-006 • I-51-007 • I-57-008 **OSEA** • I-02-002 • I-24-017 **CCC** • I-03-006 • I-16-017 • I-49-063 • I-49-064 • I-49-065	JT 3.18-9 JT 3.18-10 JT 3.18-11 JT 3.18-12 JT 3.18-13 JT 3.18-14 JT 3.18-15 JT 3.18-16 JT 3.18-17 JT 3.18-18 JT 3.18-19 JT 3.19 (no questions) JT 3.20 JT 3.21 JT 3.22-1 JT 3.22-2 JT 3.23 JT 3.24 JT 3.26-3

	#44, 45 **H: Load & Revenue Forecast** #46, 47, 48 **I: Cost Allocation & Rate Design** #49, 50, 51, 52, 53, 54, 55, 56 **J: Deferral/Variance Accounts** #57	H1, Tab 3, Sch 2 H1, Tab 4, Sch 1 H1, Tab 4, Sch 1, Att 1 H1, Tab 4, Sch 1, Att 2 H1, Tab 4, Sch 1, Att 3 H1, Tab 4, Sch 1, Att 4 H1, Tab 4, Sch 1, Att 5 H1, Tab 5, Sch 1 Q, Tab 1, Sch 1 Q, Tab 1, Sch 1, Att 3 Q, Tab 1, Sch 1, Att 4 Q, Tab 1, Sch 1, Att 5 Q, Tab 1, Sch 1, Att 6 Q, Tab 1, Sch 1, Att 7	• I-53-068 • I-55-075 **PWU** • I-03-001 • I-04-002 • I-04-003 • I-04-004 • I-04-005 • I-04-006 **ABE** • I-04-001 • I-04-002 **BOMA** • I-04-017 • I-04-030 • I-07-088 • I-19-019 • I-22-035 • I-22-105 **CME** • I-04-096 • I-04-097 • I-45-66 • I-49-087 • I-51-090 • I-51-091 • I-51-092 • I-56-088 • I-56-089 **EP** • I-04-003	JT 3.26-4 JT 3.26-5

- I-51-065
- I-51-066
- I-51-067
- I-51-068
- I-51-069
- I-57-070

OEB Staff
- I-23-075
- I-23-077
- I-49-235
- I-49-236
- I-49-237
- I-49-238
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