Hydro One Networks Inc.

7th Floor, South Tower 483 Bay Street Toronto, Ontario M5G 2P5 www.HydroOne.com

Tel: (416) 345-5680 Cell: (416) 568-5534

Frank.Dandrea@HydroOne.com

Frank D'Andrea

Vice President, Regulatory Affairs & Chief Risk Officer



BY COURIER

October 22, 2019

Ms. Kirsten Walli **Board Secretary** Ontario Energy Board Suite 2700, 2300 Yonge Street P.O. Box 2319 Toronto, ON M4P 1E4

Dear Ms. Walli,

EB-2019-0082 - Hydro One Network's 2020-2022 Transmission Rates Application -**Undertaking J-1.01**

During Hydro One's Oral Hearing Presentation on Monday, October 21, 2019, the company provided updates to its rates revenue requirement and bill impacts for the 2020 Test Year, relative to the blue-page evidence filed on June 19, 2019.

The company committed to summarizing and updating relevant tables from its blue-page evidence which are being provided as part of undertaking J-1.01.

This filing has been submitted electronically using the Board's Regulatory Electronic Submission System and two (2) hard copies will be sent via courier.

Sincerely,

ORIGINAL SIGNED BY KATHLEEN BURKE ON BEHALF OF FRANK D'ANDREA

Frank D'Andrea

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UNDERTAKING J1.1 1 2 **Reference:** 3 4 5 **Undertaking:** 6 To provide an update to page 11 of the SEC compendium. 7 8 **Response:** 9 As indicated during Hydro One's Oral Hearing Presentation on Monday October 21, 10 2019, the following undertaking response provides the updated revenue requirement table 11 and other relevant tables from evidence, including: 12 13 1. Revenue Requirement 14 2. Summary of Revenue Requirement Components 15 3. Custom Cap Index (RCI) by Component 16 4. Revenue Requirement by Year 17 5. Summary of Transmission OM&A Expenditures 18 6. Bridge Year and Planning Year Capital Expenditure Summary 19 7. In-Service Capital Additions 2014 – 2022 20 8. Average Bill Impacts on Transmission and Distribution-connected Customers 21 9. Typical General Service Energy less than 50 kW (GSe < 50 kW) Customer Bill 22 **Impacts** 23 10. Typical General Service Energy less than 50 kW (GSe < 50 kW) Customer Bill 24

Impacts

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Table 1: Revenue Requirement (\$ Millions) Revised from Exhibit E, Tab 1, Schedule 1 – Table 1

Components	20181	2019 ²	2020 Blue Page	2020 Accelerated CCA ⁴	2020 Actual Debt Issuances ⁵	2020 Updated Pension Valuation ⁶	2020 OPEB ISA Assumptions ⁷	2020 Oral Hearing Update
OM&A	394.3		375.8			(1.7)		374.1
Depreciation and Amortization	468.6		474.6			(0.1)	0.0	474.5
Income Taxes	57.2		48.3	(23.6)	0.1	1.3	0.1	26.3
Return on Capital	703.6		775.0		(8.3)	(0.2)	0.6	767.1
Total Revenue Requirement	1,623.8	1,644.4	1,673.8	(23.6)	(8.2)	(0.7)	0.7	1,642.0
Deduct External Revenues and Other ³	(54.7)	(54.5)	(52.6)					(52.6)
Rates Revenue Requirement	1,569.1	1,589.9	1,621.2					1,589.4
Regulatory Deferral and Variance Accounts Disposition / Foregone Revenue	(58.4)	(37.6)	6.8					6.8
Rates Revenue Requirement (with Deferral and Variance Accounts)	1,510.7	1,552.3	1,628.0					1,596.2

³ Note 1: Represents OEB approved 2018 revenue requirement from Hydro One Transmission's 2017 to 2018 rate application in EB-2016-0160

⁴ Note 2: Represents OEB approved 2019 revenue requirement in EB-2018-0130

Note 3: External Revenue and Other includes External Revenue, MSP Revenue, Export Tx Service Revenue and Low Voltage Switch Gear Credit

⁶ Note 4: As quantified in I-1-OEB-208

Note 5: I-04-LPMA-019 reflected a lower cost of debt for 2020 of 4.45% based on 2019 actual issuances relative to 4.57% presented in the blue-page update

Note 6: Updated JT-2.31 Attachment 1 (October 17, 2019) provided the updated pension valuation as of December 31, 2018

Note 7: As quantified in I-01-OEB-206 the revenue requirement impact related to OPEB ISA assumptions

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3.58%

4.11%

Table 2: Summary of Revenue Requirement Components (\$ Million)

Revised from Exhibit A, Tab 4, Schedule 1 – Table 2

Line Reference 2020 2021 2022 1 Rate Base C-1-1 12,407.0 13.951.7 13,130.2 2 Return on Debt E1-1-1 322.5 342.1 363.5 Return on Equity E1-1-1 471.6 501.2 444.6 4 F-6-1 528.9 Depreciation 474.5 503.4 F-7-2 27.2 5 Income Taxes 26.3 40.4 Capital Related Revenue Requirement 6 1,434.0 1,267.9 1,344.4 7 Less Productivity Factor (0.0%) 8 Total Capital Related Revenue Requirement 1,267.9 1,344.4 1,434.0 OM&A F-1-1 379.4 384.7 374.1 **Total Revenue Requirement** 1,723.7 10 1,642.0 1,818.7 Increase in Capital Related Revenue Requirement 76.5 89.6 Increase in Capital Related Revenue Requirement as a percentage of Previous Year Total Revenue Requirement 12 4.66% 5.20% Less Capital Related Revenue Requirement in I-X 13 1.08% 1.09%

Capital Factor

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Table 3: Custom Cap Index (RCI) by Component (%)
Revised from Exhibit A, Tab 4, Schedule 1 – Table 3

Custom Revenue Cap Index by Component	2021	2022
Inflation Factor (I)	1.40	1.40
Productivity Factor (X)	0.00	0.00
Capital Factor (C)	3.58	4.11
Custom Revenue Cap Index Total	4.98	5.51

Table 4: Revenue Requirement by Year

Revised from Exhibit A, Tab 4, Schedule 1 – Table 4

Year	Formula	Revenue Requirement
2020	Cost of Service	\$1,642.0 million
2021	2020 Revenue Requirement x 1.0498	\$1,723.7 million
2022	2021 Revenue Requirement x 1.0551	\$1,818.7 million

^{*} Calculations assume that Inflation Factor remains at 1.4% through term.

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Table 5: Summary of Transmission OM&A Expenditures (\$ Millions) Revised from Exhibit F, Schedule 1, Tab 1 – Table 1

		-	, ,	Histo	orical				Bridge	Test
	201	15	201	16	20	17	201	18	2019	2020
	Actual	Plan	Actual	Plan	Actual	Plan	Actual	Plan	Forecast	Forecast
Category Level										
Sustainment	233.6	238.7	215.1	241.1	218.1	241.2	229.4	238.5	200.6	214.2
Development	6.1	12.9	4.6	13.4	5.1	4.8	5.2	5.0	6.0	6.9
Operations	59.0	58.5	62.5	59.1	61.1	61.3	53.4	62.1	46.1	48.9
Customer Care	5.1	5.5	4.5	5.5	8.5	4.0	11.0	3.9	7.3	7.5
Common Corporate Costs and Other Costs	73.9	70.2	60.1	71.3	41.5	49.9	54.9	47.5	29.4	30.3
Property Taxes & Rights Payments	63.9	66.3	61.3	67.0	50.7	63.6	65.3	64.3	67.2	68.1
			Adjus	tments						
EB-2014-0140 Settlement Reduction		-20.0		-20.0						
EB-2016-0160 Decision Reduction						-15.0		-15.0		
Removal of B2M Expense		-0.9		-0.7		-0.8		-2.1		
Pension Adjustment						-11.4		-9.9		
Directive ¹									-0.1	-0.1
			Envelop	pe Level						
Total Transmission OM&A	441.6	431.2	408.1	436.8	385.0	397.7	419.2	394.3	356.5	375.8
Pension Adjustment Dec 31, 2018 Valuation										-1.7
Updated Total Transmission OM&A	441.6	431.2	408.1	436.8	385.0	397.7	419.2	394.3	356.5	374.1

^{2 1:} Directive refers to the Government Directive as detailed and defined in Exhibit F, Tab 4, Schedule 1.

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Table 6: Bridge Year and Planning Year Capital Expenditure Summary (\$ Millions)

Revised from Exhibit A, Tab 3, Schedule 1 – Table 7

	H	Iistorical		Bridge			Forecast		
		2018		2019	2020	2021	2022	2023	2024
OEB Category	OEB Approved	Actual		F/Cast	Test	Test	Test	Plan	Plan
	\$M	\$M	%	\$M	\$M	\$M	\$M	\$M	\$M
System Access	24.3	33.7	39%	45.1	24.8	11.3	11.7	12.7	4.1
System Renewal	780.4	776.2	-1%	773.3	865.2	1,103.1	1,172.8	1,177.4	1,193.8
System Service	75.6	73.9	-2%	103.8	204.1	148.2	151.8	174.3	204.2
General Plant	119.7	83.6	-30%	116.3	115.4	94.4	94.7	83.6	58.9
Progressive Productivity	0.0	0.0	0%	0.0	-17.0	-39.0	-61.0	-78.0	-91.0
Directive ¹				-0.3	-0.3	-0.3	-0.4	-0.4	-0.4
Total	1,000.0	967.3		1,038.2	1,192.2	1,317.7	1,369.6	1,369.6	1,369.6
Pension Adjustment Dec 31, 2018 Valuation				-3.2	-4.2	-5.2	-5.4	-5.4	-5.4
Updated Total				1,035.0	1,188.0	1,312.5	1,364.2	1,364.2	1,364.2

^{1:} Directive refers to the Government Directive as detailed and defined in Exhibit F, Tab 4, Schedule 1.

Table 7: In-Service Capital Additions 2014 – 2022 (\$ Millions) Revised from Exhibit C, Tab 2, Schedule 1 – Table 1

									Hi	storical											
		2014			2015				2010	6			2017			2018		Bridge		Test	
	Actual	Plan	Variance	Actual	Plan	Variance	Actual	New Plan	Plan	Variance (New Plan)	Variance (Plan)	Actual	Plan	Variance	Actual	Plan	Variance	2019	2020	2021	2022
System Access	34.1	50.4	-32%	8.9	13.9	-36%	10.1	17.7	3.0	-43%	237%	51.2	1.8	2,744%	12.1	68.2	-82%	30.4	59.2	5.3	14.1
System Renewal	649.6	575.8	13%	559.8	563.3	-1%	635.7	595.4	472.0	7%	35%	657.8	717.0	-8%	852.3	761.4	12%	770.5	762.0	998.7	1,138.7
System Service	144.8	129.9	11%	18.7	120.7	-85%	174.2	192.4	116.6	-9%	49%	85.7	70.4	22%	218.0	244.8	-11%	54.5	155.1	175.2	137.7
General Plant	86.0	107.2	-20%	111.7	123.4	-9%	90.2	106.3	81.7	-15%	10%	77.5	78.5	-1%	77.9	104.0	-25%	95.6	76.9	155.1	59.5
Progressive Productivity Placeholder																			(15.8)	(36.3)	(56.7)
Total	914.5	863.3	6%	699.1	821.3	-15%	910.2	911.7	673.3	-0.2%	35%	872.2	867.7	1%	1,160.4	1,178.4	-2%	951.0	1,037.4	1,298.0	1,293.3
Directive ²															·			-0.3	-0.3	-0.3	-0.4
Total																		950.7	1,037.1	1,297.7	1,293.0
Pension Adjustment Dec 31, 2018 Valuation																		-3.2	-4.2	-5.2	-5.4
Updated Total																		947.5	1,032.9	1,292.5	1,287.6

^{1:} New Plan represents the 2016 Bridge Year forecast from 2017-2018 Transmission Rate Application (EB-2016-0160)
2: Directive refers to the Government Directive as detailed and defined in Exhibit F, Tab 4, Schedule 1.

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Table 8: Average Bill Impacts on Transmission and Distribution-connected Customers Revised from Exhibit I2, Tab 5, Schedule 1 – Table 2

		20)20	20	021	2022		
	2019 ¹	Blue Page	Oral Hearing Update	Blue Page	Oral Hearing Update	Blue Page	Oral Hearing Update	
Rates Revenue Requirement (\$M)	\$1,552.3	\$1,628.0	\$1,596.2	\$1,719.4	\$1,677.4	\$1,808.4	\$1,773.2	
% Increase in Rates RR over	4.9%	2.8%	5.6%	5.1%	5.2%	5.7%		
% Impact of load forecast ch	nange	3.8%	3.8%	0.6%	0.6%	0.7%	0.7%	
Net Impact on Average Transmission Rates		8.7%	6.6%	6.2%	5.7%	5.9%	6.4%	
Transmission as a % of Tx customer's Total Bill	-connected	7.4%	7.4%	7.4%	7.4%	7.4%	7.4%	
Estimated Average Bill im	pact	0.6%	0.5%	0.5%	0.4%	0.4%	0.5%	
Transmission as a % of Dx-connected customer's Total Bill		6.2%	6.2%	6.2%	6.2%	6.2%	6.2%	
Estimated Average Bill im	pact	0.5%	0.4%	0.4%	0.4%	0.4%	0.4%	

^{1 2019} rates revenue requirement as per the OEB's Decision and Order for Hydro One's 2019 Transmission Revenue Requirement application (EB-2018-0130), issued on 25th

4 April, 2019.

Table 9: Typical Medium Density (R1) Residential Customer Bill Impacts Revised from Exhibit I2, Tab 5, Schedule 1 – Table 3

			Typical R1 Res	sidential Custom	er	
	Blue Page	Oral Hearing Update	Blue Page	Oral Hearing Update	Blue Page	Oral Hearing Update
	400 kWh	400 kWh	750 kWh	750 kWh	1,800 kWh	1,800 kWh
Total Bill as of May 1, 2018 ¹	\$83.40	\$83.40	\$121.75	\$121.75	\$236.81	\$236.81
RTSR included in 2017 R1 Customer's Bill (based on 2016 UTR)	\$4.78	\$4.78	\$8.96	\$8.96	\$21.50	\$21.50
Estimated 2019 Monthly RTSR ²	\$5.10	\$5.10	\$9.56	\$9.56	\$22.95	\$22.95
2019 increase in Monthly Bill	\$0.13	\$0.13	\$0.24	\$0.24	\$0.58	\$0.58
2019 increase as a % of total bill	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%
Estimated 2020 Monthly RTSR ³	\$5.52	\$5.42	\$10.35	\$10.16	\$24.83	\$24.39
2020 increase in Monthly Bill	\$0.42	\$0.32	\$0.79	\$0.60	\$1.89	\$1.44
2020 increase as a % of total bill	0.5%	0.4%	0.6%	0.5%	0.8%	0.6%
Estimated 2021 Monthly RTSR ³	\$5.84	\$5.71	\$10.96	\$10.71	\$26.29	\$25.70
2021 increase in Monthly Bill	\$0.32	\$0.29	\$0.61	\$0.55	\$1.46	\$1.31
2021 increase as a % of total bill	0.4%	0.3%	0.5%	0.4%	0.6%	0.5%
Estimated 2022 Monthly RTSR ³	\$6.17	\$6.06	\$11.56	\$11.36	\$27.76	\$27.26
2022 increase in Monthly Bill	\$0.32	\$0.35	\$0.61	\$0.65	\$1.46	\$1.56
2022 increase as a % of total bill	0.4%	0.4%	0.5%	0.5%	0.6%	0.6%

¹Total bill including HST, based on time-of-use commodity prices effective May 1, 2018 and 2017 distribution rates approved per Distribution Rate Order EB-2016-0081 (includes impacts of all components of the Fair Hydro Plan).

²2019 Monthly RTSR is an estimated value that incorporates the impacts of changes in UTR in 2017 and 2018 and Hydro One's 2019 rates revenue requirement as shown in Table 8 above.

³The impact on RTSR is assumed to be the net impact on average transmission rates, as per Table 8 above, adjusted for Hydro One's revenue disbursement allocator per 2019 Interim UTR Order (EB-2018-0326).

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Table 10: Typical General Service Energy less than 50 kW (GSe < 50 kW) Customer Bill Impacts Revised from Exhibit I2, Tab 5, Schedule 1 – Table 4

			GSe Custor	ner Monthly Bill		
	Blue Page	Oral Hearing Update	Blue Page	Oral Hearing Update	Blue Page	Oral Hearing Update
	1,000 kWh	1,000 kWh	2,000 kWh	2,000 kWh	15,000 kWh	15,000 kWh
Total Bill as of May 1, 2018 ¹	\$198.93	\$198.93	\$367.73	\$367.73	\$2,562.20	\$2,562.20
RTSR included in 2017 GSe Customer's Bill (based on 2016 UTR)	\$10.63	\$10.63	\$21.26	\$21.26	\$159.47	\$159.47
Estimated 2019 Monthly RTSR ²	\$11.35	\$11.35	\$22.69	\$22.69	\$170.21	\$170.21
2019 increase in Monthly Bill	\$0.29	\$0.29	\$0.58	\$0.58	\$4.33	\$4.32
2019 increase as a % of total bill	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%
Estimated 2020 Monthly RTSR ³	\$12.28	\$12.06	\$24.56	\$24.12	\$184.20	\$180.90
2020 increase in Monthly Bill	\$0.93	\$0.71	\$1.86	\$1.43	\$13.99	\$10.69
2020 increase as a % of total bill	0.5%	0.4%	0.5%	0.4%	0.5%	0.4%
Estimated 2021 Monthly RTSR ³	\$13.00	\$12.71	\$26.00	\$25.42	\$195.04	\$190.63
2021 increase in Monthly Bill	\$0.72	\$0.65	\$1.44	\$1.30	\$10.84	\$9.74
2021 increase as a % of total bill	0.4%	0.3%	0.4%	0.4%	0.4%	0.4%
Estimated 2022 Monthly RTSR ³	\$13.73	\$13.48	\$27.45	\$26.96	\$205.88	\$202.21
2022 increase in Monthly Bill	\$0.72	\$0.77	\$1.45	\$1.54	\$10.85	\$11.58
2022 increase as a % of total bill	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%

¹Total bill including HST, based on time-of-use commodity prices effective May 1, 2018 and 2017 distribution rates approved per Distribution Rate Order EB-2016-0081 (includes impacts of all components of the Fair Hydro Plan).

²2019 Monthly RTSR is an estimated value that incorporates the impacts of changes in UTR in 2017 and 2018 and Hydro One's 2019 rates revenue requirement as shown in Table 8 above.

³The impact on RTSR is assumed to be the net impact on average transmission rates, as per Table 8 above, adjusted for Hydro One's revenue disbursement allocator per 2019 Interim UTR Order (EB-2018-0326).