



August 27, 2018

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

Re: Alectra Utilities Corporation (Alectra) - 2019 Electricity Distribution Rate Application
AMPCO Interrogatories
Board File No. EB-2018-0016

Dear Ms. Walli:

Attached please find AMPCO's interrogatories in the above proceeding. AMPCO apologizes for the late filing and asks that the Board please accept its interrogatories.

Please do not hesitate to contact me if you have any questions or require further information.

Sincerely yours,

(ORIGINAL SIGNED BY)

Colin Anderson
President
Association of Major Power Consumers in Ontario

Copy to: Alectra Utilities Corporation

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PowerStream Rate Zone (PRZ) – Incremental Capital Module

PRZ-AMPCO-1

Re: Ex 2-3-10 P19

Preamble: The rapidway development phases that are currently under construction and impacting the PowerStream RZ include the “Y2 phase” (two project sections along Yonge totalling 6.5km), and the “H2 phase” (two project sections along Highway 7 and several other roadways totalling 8.5km).

a) Please complete the following table:

	2018 Underground km relocation	2018 Overhead km relocation	2019 Underground km relocation	2019 Overhead km relocation
Y2 Section 1				
Y2 Section 2				
H2 Section 1				
H2 Section 2				
Total km				

b) Please discuss if the above forecast km of relocation work for underground and overhead plant is consistent with previous forecasts and if not provide a variance analysis.

c) Please provide the unit cost estimates of underground compared to overhead plant relocation.

PRZ-AMPCO-2

Ref: Attachment #31, York Region Rapid Transit (YRRT) VIVA Bus Rapid Transit (BRT) Y2 and H2 Projects

Preamble: Since 2010, the PowerStream RZ has been relocating overhead and underground plant to accommodate road widening and shifting of the boulevard to support the YRRT build.

a) Please provide the forecast and actual Gross Costs, Contributed Capital and Net Costs for each year of the multiyear project.

b) Please provide the forecast and actual km for each year of the multiyear project separated into overhead and underground plant.

c) Please provide 2018 spending to date and the latest forecast of 2018 and 2019 in-service additions.

d) Please provide the date of the Business Case at Attachment #31.

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PRZ-AMPCO-3

Ref: Attachment #31, York Region Rapid Transit (YRRT) VIVA Bus Rapid Transit (BRT) Y2 and H2 Projects, P6

Preamble: The Business Case indicates the Y2.1 and Y2.2 project is being constructed under a Design – Build project structure. There are uncertainties in regards to the timelines, final road alignment, resource allocation as well as the technical challenges as the majority of work is underground. The Y2.1 and Y2.2 began in 2018 and will continue in 2019.

Please discuss any challenges to date in 2018 and the potential impact on cost and schedule in 2018 and 2019.

PRZ-AMPCO-4

Ref: Attachment #33, PRZ 2019 Capital Spending

Please provide an excel version of Attachment #33.

PRZ-AMPCO-5

Ref: Attachment #33, PRZ 2019 Capital Spending

Please explain the following 2019 Capital expenditure in the context of the overall YRRT project.

Road Authority YRRT Yonge St - H2 portion	3,210
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PRZ-AMPCO-6

Ref: Attachment #33, PRZ 2019 Capital Spending

Please provide actual spending on the following capital expenditures for the years 2013 to 2017: Storm Damage – Replacement of distribution equipment due to storm; Switchgears – Unscheduled Replacement; Unforeseen Projects Initiated by Alectra Utilities; and Unscheduled Replacement of Failed Equipment.

PRZ-AMPCO-7

Ref: Attachment #31, Barrie TS Upgrade Feeder and Wholesale Metering Relocation

- a) When was the need to renew and rebuild the Barrie TS first identified?
- b) Please provide the date of the Business Case at Attachment #31.
- c) Please provide the length and cost of each of the six feeders to be reconfigured.
- d) Please provide the length and cost to relocate the Midhurst 23M24 feeder.
- e) Please provide the cost to install feeder metering.

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PRZ-AMPCO-8

Ref: Ex 2-3-10 P20

Preamble: The length of the Bathurst road widening is approximately 6km in the City of Vaughan and Town of Richmond Hill. The 2019 scope of relocation of Alectra Utilities assets includes both the overhead and underground distribution system. The proposed solution is to relocate the overhead and underground assets.

- a) Please provide the forecast km of overhead plant to be relocated in 2019 and 2020 and the associated gross and net costs in 2019 and 2020.
- b) Please provide the forecast km of underground plant to be relocated in 2019 and 2020 and the associated gross and net costs in 2019 and 2020.
- c) Please confirm the Bathurst road widening project is not related to the YRRT project.

PRZ-AMPCO-9

Ref: Attachent#31, Bathurst Street Road Widening from Highway 7 to Teston Road, P1

Preamble: The Business Case indicates system access investments related to road work are estimated through scope derived from preliminary designs and historical spending from similar projects. It includes consideration of previous phases of multi-year road work projects, as well as continuous meetings and discussions with the road authority.

Please provide further details on the projects and cost analysis of previous phases of multi-year road work projects used to arrive at the budget for the Bathurst Road Widening project.

PRZ-AMPCO-10

Ref: Attachment #33, PRZ 2019 Capital Spending

Preamble: As shown below, PRZ's 2019 Capital Spending includes \$25.053 million of miscellaneous projects. Please discuss if any of this work could be deferred.

System Access

Miscellaneous Projects (under materiality threshold)	6,364
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System Renewal

Miscellaneous Projects (under materiality threshold)	8,711
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System Service

Miscellaneous Projects (under materiality threshold)	9,978
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Enersource Rate Zone (ERZ) – Incremental Capital Module

ERZ-AMPCO-11

Ref: Ex 1-1-1 P7

Preamble: Alectra indicates the 2016 Asset Condition Assessment (“ACA”) identified 34.3% of poles in this area as “Poor” and 28.3% as “Fair, based on parameters of physical condition and mechanical damage.

- a) Please provide the total number of wood poles and concrete poles in very poor condition in this area.

ERZ-AMPCO-12

Ref: Attachent#46, Rometown Area Overhead System Rebuild P3

Preamble: “The scope of the project is to renew the deteriorated overhead system to present day standard configuration and to increase the distribution system’s longevity. As per the 2016 Asset Condition Assessment (“ACA”) study, 34.3% (68 out of 198) poles in this area were flagged “Poor” and 28.3% (56 out of 198) poles “Fair”, based on the parameters of pole physical condition, mechanical damage, pole leaning and cracks. Based on these results from the ACA, a total of 78 poles should be replaced based on their condition.

If 68 poles are flagged in poor condition, please explain how Alectra determined 78 poles should be replaced based on their condition.

ERZ-AMPCO-13

Ref: Attachent#46, Rometown Area Overhead System Rebuild P4 Table 1

Please provide the number of outages by year by equipment type.

ERZ-AMPCO-14

Ref: Attachent#46, Rometown Area Overhead System Rebuild P6

- a) Please provide the quantity of assets to be replaced by asset type and the corresponding total costs by asset type.
- b) Please provide the tree trimming costs and advise if these costs are included in the cost estimate.

ERZ-AMPCO-15

Ref: Attachent#46, Rometown Area Overhead System Rebuild

Please discuss if Alectra examined the overhead system needs in all rate zones when determining its Rometown Overhead Rebuild ICM request for the ERZ.

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ERZ-AMPCO-16

Ref: Attachment#48, ERZ 2019 Capital Spending

Please provide an excel version of Attachment #48.

ERZ-AMPCO-17

Ref: Attachment #48, ERZ 2019 Capital Spending

Preamble: As shown below, ERZ's 2019 Capital Spending includes \$10.43 million of miscellaneous projects. Please discuss if any of this work could be deferred.

System Access

Miscellaneous Projects (under materiality threshold)	2,227
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System Renewal

Miscellaneous Projects (under materiality threshold)	2,881
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System Service

Miscellaneous Projects (under materiality threshold)	5,322
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ERZ-AMPCO-18

Ref: Attachment #48, ERZ 2019 Capital Spending

- a) Please list all of the capital projects/programs in 2019 that include pole replacements and provide the total number of poles to be replaced under each project/program.
- b) Please provide the total number of poles replaced across all projects/programs for each of the years 2013 to 2017 and provide the forecast for 2018.

ERZ-AMPCO-19

Ref: Attachment #48, ERZ 2019 Capital Spending

Please provide the amount of capital investment for overhead system rebuilds that are included in rates in the ERZ.

ERZ-AMPCO-20

Ref: ERZ-Staff-89 (c)

Preamble: In the above interrogatory, Board Staff asked Alectra to provide a breakdown of annual historical failure data (# of failures, # customer outage minutes) for each of the years 2010 to 2018 for

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the following asset groups: Overhead switches, insulators, wood poles, concrete poles, underground transformers, overhead transformers, padmount switchgears.

For each of the asset groups, please provide the number of customers impacted for each of the years 2010 to 2018.

ERZ-AMPCO-21

Ref: Attachment #46, Replacement of Leaking Transformers P4 Table 2

- a) Please provide the number of leaking transformers to be replaced in 2018 and 2019.

ERZ-AMPCO-22

Ref: Attachment #46, Replacement of Leaking Transformers P5 Figure 2

Preamble: Figure 2 illustrates the transformer replacement project capital expenditure relative to the transformer replacement program from 2012 to 2022.

- a) Please provide the numerical dollar amounts for the transformer replacement project capital expenditure compared to the transformer replacement program for each of the years 2012 to 2022.
- b) Please provide the number of transformers replaced under the transformer replacement project compared to the transformer replacement program for each of the years 2012 to 2022.

ERZ-AMPCO-23

Ref: Attachment #49, Appendix 3.4 P13

Preamble: The survey states “Earlier this decade, Enersource identified a backlog of almost 4,000 transformers that show signs of leaking. By the end of this year, over 3,000 of these transformers will have been replaced. However, that will still leave over 600 needing replacement.”

Under ERZ’s existing renewal plan, how long would it take to replace the remaining 600 transformers.