



Alberta Electric System Operator

2019 Independent System Operator Tariff Update

December 18, 2018

Alberta Utilities Commission

Decision 24036-D01-2018

Alberta Electric System Operator

2019 Independent System Operator Tariff Update

Proceeding 24036

December 18, 2018

Published by the:

Alberta Utilities Commission

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1 Decision

1. The Alberta Utilities Commission approves the Alberta Electric System Operator's (AESO) application for its 2019 update to the Independent System Operator (ISO) tariff for the reasons discussed in this decision.

2 Introduction and process

2. On November 6, 2018, the AESO, pursuant to sections 30 and 119 of the *Electric Utilities Act*, filed an application with the Commission requesting approval of its 2019 update to the ISO tariff.¹

3. The AESO's application requested approval of changes to the levels, that is, the dollar-based and percentage of pool price amounts, of Rate DTS (demand transmission service), Rate FTS (Fort Nelson demand transmission service), Rate DOS (demand opportunity service), Rate XOS (export opportunity service), Rate XOM (export opportunity merchant service), Rate PSC (primary service credit), Rate STS (supply transmission service), Rider J and Section 8 of the ISO tariff. The application did not include changes to the structure of the rates or to the provisions of the terms and conditions (other than maximum investment levels (MILs)) currently approved in the AESO's 2018 ISO tariff.² The AESO stated that its 2019 ISO tariff update application reflected an overall increase of 3.2 per cent over the 2018 rates currently in effect.³

4. The AESO requested that the application be approved effective January 1, 2019, but if the timing of its application did not permit the granting of final approval prior to January 1, 2019, it requested that the Commission approve its application on an interim refundable basis effective as of that date.

5. The AESO requested that the updated rates, riders and investment levels proposed in its application apply on a go-forward basis only, commencing from the effective date approved by the Commission. Consistent with the Commission's statements in Decision 2014-242,⁴ the AESO submitted that currently-approved deferral account rider and reconciliation mechanisms should continue to be used to address any variances between costs and revenues occurring prior to the approval of the applied-for rates. The AESO indicated that it is not seeking any retroactive adjustments to the rates proposed in this application.⁵

¹ Exhibits 24036-X0002 to 24036-X0007.

² The 2018 ISO tariff refers to the 2018 rates approved in the AESO's 2018 ISO tariff update, not the current ISO general tariff application (Proceeding 22942) currently in front of the Commission.

³ Exhibit 24036-X0001, Letter AESO 2019 ISO Tariff Update 2018-11-06.

⁴ Decision 2014-242: Alberta Electric System Operator, 2014 ISO Tariff Application and 2013 ISO Tariff Update, August 21, 2014, paragraph 617.

⁵ Exhibit 24036-X0002.01, AESO 2019 ISO tariff update application, paragraph 12.

6. The Commission issued a notice of application on November 11, 2018, requesting interested parties to submit a statement of intent to participate (SIP) by November 21, 2018.⁶

7. The AESO filed an amendment to its application on November 14, 2018. The AESO stated that the original application omitted forecast payments to Alberta PowerLine L.P. for the Fort McMurray West 500-kilovolt transmission project. As a result of the updated information, the AESO explained that its amended application reflects an increase of 5.7 per cent versus the 3.2 per cent increase submitted in its original application filing, as discussed in paragraph 3 above.⁷

8. In response to the notice of application, SIP submissions were received from AltaLink Management Ltd. and ATCO Electric Ltd. Neither party requested additional process to test the application. Therefore, in the absence of any opposition to the application, the Commission on November 30, 2018, issued a letter that determined the application will be handled by way of a notice-only process.⁸

9. For the purposes of this application, the Commission considers the proceeding record to have closed on November 21, 2018, the deadline SIPs were to be submitted.

10. In reaching the determinations set out within this decision, the Commission has considered all relevant materials comprising the record of this proceeding. References in this decision to specific parts of the record are intended to assist the reader in understanding the Commission's reasoning relating to a particular matter and should not be taken as an indication that the Commission did not consider all relevant portions of the record with respect to this matter.

3 Background

11. In Decision 2010-606,⁹ the Commission approved the AESO's proposed methodology to complete annual tariff update filings between its major tariff applications.

12. The AESO's last approved major tariff application was filed on July 17, 2013, for which the AESO sought approval from the Commission for its 2014 ISO tariff. Following a compliance filing process, the Commission approved the current form of the 2014 ISO tariff, effective July 1, 2015, in Decision 3473-D01-2015 (Errata).¹⁰

13. The Commission approved the current form of the AESO's 2018 ISO tariff, effective January 1, 2018, on a final basis in Decision 23065-D01-2017.¹¹ The AESO's 2018 ISO tariff approved in that decision reflected costs and billing determinants for the 2018 calendar year.

⁶ Exhibit 24036-X0010, Notice of application.

⁷ Exhibit 24036-X0012, Letter regarding revised application 2018-11-14.

⁸ Exhibit 24036-X0014, AUC letter - Notice-only process.

⁹ Decision 2010-606: Alberta Electric System Operator, 2010 ISO Tariff, Proceeding 530, Application 1605961-1, December 22, 2010.

¹⁰ Decision 3473-D01-2015 (Errata): Alberta Electric System Operator, 2014 ISO Tariff Compliance Filing Pursuant to Decision 2014-242, Module 1, Proceeding 3473, Application 1610935-1, June 17, 2015.

¹¹ Decision 23065-D01-2017: Alberta Electric System Operator 2018 Independent System Operator Tariff Update Proceeding 23065, November 28, 2017.

14. The AESO filed this annual tariff update application to reflect costs and billing determinants for the 2019 calendar year. The AESO has applied for updated 2018 bulk system, regional system and point of delivery cost functionalization and 2018 classification as part of its 2018 comprehensive ISO tariff application, filed on September 14, 2017, and currently being considered by the Commission in Proceeding 22942.¹² The AESO stated that a supplementary 2019 ISO tariff update application may be required, depending on the Commission's decision in Proceeding 22942.¹³

4 Application details

15. The tariff update application consists of formulaic updates to:

- (i) the AESO's annual revenue requirement, based on the AESO's updated forecast costs for 2019;
- (ii) rate, rider and maximum investment level amounts using the rate calculation methodology already approved by the Commission in Decision 3473-D01-2015; and
- (iii) the investment amounts first approved in Decision 3473-D01-2015, updated in Decision 21302-D01-2016,¹⁴ then updated in Decision 22093-D02-2017,¹⁵ and then updated in Decision 23065-D01-2017, in accordance with the escalation factor described below.

16. The AESO explained that the updates proposed in the application would limit potential misallocations that might occur if the AESO continued to rely on Rider C, Deferral Account Adjustment Rider, to allocate revenue and cost imbalances to market participants.¹⁶

4.1 AESO's annual revenue requirement

17. The AESO's revenue requirement consists of costs related to wires, ancillary services, transmission line losses, and the AESO's own administration (which includes other industry costs and general and administrative costs). A comparison of the AESO's 2019 cost forecast to the updated forecast costs for 2018, forecast costs for 2018, and the updated forecast costs for 2017 and 2016, is reproduced in the following table.

¹² Proceeding 22942: AESO 2018 ISO Tariff Application.

¹³ Exhibit 24036-X0002.01, AESO 2019 ISO tariff update application, paragraph 7.

¹⁴ Decision 21302-D01-2016: Alberta Electric System Operator 2016 ISO Tariff Update, Proceeding 21302, March 31, 2016.

¹⁵ Decision 22093-D02-2017: Alberta Electric System Operator 2017 ISO Tariff Update, Proceeding 22093, April 4, 2017.

¹⁶ Exhibit 24036-X0002.01, AESO 2019 ISO tariff update application, paragraph 6.

Table 1. Comparison of 2019 forecast to 2018 updated forecast, 2018 forecast, 2017 updated forecast and 2016 recorded costs by revenue requirement components

Cost Component	2019	2018	2018	2017	2016
	Forecast	Updated Forecast	Forecast	Updated Forecast	Recorded
	(\$ million)				
Wires	1,834.6	1,713.3	1,720.3	1,734.0	1,724.4
Ancillary services	313.8	179.2	179.2	118.9	93.2
Losses	126.1	96.8	96.8	74.1	41.3
Administrative	97.6	100.8	100.8	98.7	100.4
Revenue Requirement	2,372.1	2,090.2	2,097.1	2,025.6	1,959.3

Source: Exhibit 24036-X0002.01, Table 2-1, PDF page 7.

18. The 2019 forecast costs represent an increase of \$275.0 million (or 13.1 per cent) over the 2018 forecast costs. The increase is the result of the following:¹⁷

- Increase in wires costs of \$114.3 million (6.6 per cent);
- Increase in ancillary services costs of \$134.6 million (or 75.1 per cent); and
- Increase in losses costs of \$29.3 million (or 30.3 per cent).

19. The AESO determined the 2019 wires costs for transmission facility owners (TFOs) using the following method, which was described in Section 2.2.1 of the AESO's 2014 ISO tariff application and 2013 ISO tariff update,¹⁸ approved in Decision 2010-606,¹⁹ referred to in Decision 2014-242 and updated in Decision 22093-D02-2017:²⁰

- (a) If a transmission facility owner has received final Commission approval for its applicable tariff, the AESO includes the approved cost for that transmission facility owner tariff.
- (b) If a transmission facility owner has applied for its tariff, the Commission has issued an initial decision on the application, and the transmission facility owner has submitted a refiling in compliance with the decision, the AESO includes the transmission facility owner tariff costs included in the refiling.
- (c) If a transmission facility owner has applied for its tariff but the Commission has not yet issued an initial decision on the application or an initial decision has been issued but the transmission facility owner has not yet submitted its compliance refiling, the AESO includes the most recent of the following: (i) the transmission facility owner tariff costs last approved by the Commission on a final basis for the transmission facility owner plus 72% of any increase or decrease included in the transmission facility owner's tariff application above or below the prior approved costs, and (ii)

¹⁷ Exhibit 24036-X0002.01, AESO 2019 ISO tariff update application, paragraph 15.

¹⁸ Exhibit 0026.00.AESO-2718, Alberta Electric System Operator 2014 ISO Tariff Application and 2013 ISO Tariff Update, paragraphs 53-57.

¹⁹ Decision 2010-606: Alberta Electric System Operator, 2010 ISO Tariff, Proceeding 530, Application 1605961-1, December 22, 2010.

²⁰ Exhibit 24036-X0002.01, AESO 2019 ISO tariff update application, paragraph 29.

the transmission facility owner tariff costs last applied-for by the transmission facility owner in a compliance refiling plus 72% of any increase or decrease included in the transmission facility owner's tariff application above or below the prior approved costs.

- (d) If a transmission facility owner has not yet applied for its tariff, the AESO includes the most recent of the following: (i) the transmission facility owner tariff costs last approved by the Commission on either a final or interim basis, and (ii) the transmission facility owner tariff costs last applied-for by the transmission facility owner in a compliance refiling.

20. The AESO's summary of wires costs has been reproduced below:

Table 2. AESO 2019 forecast wires costs

Description	2019 Forecast	2018 Updated Forecast	2018 Forecast
	(\$ million)		
Wires-related costs			
AltaLink	875.6	887.8	892.1
ATCO Electric	692.3	619.7	625.4
Isolated Generation	(4.1)	(3.1)	(3.1)
Subtotal ATCO Costs	688.1	616.6	622.3
ENMAX Power Corporation	81.2	81.2	80.1
EPCOR Distribution & Transmission	106.2	100.0	99.3
City of Lethbridge	7.1	7.1	7.1
TransAlta Utilities Corporation	6.7	6.1	4.9
City of Red Deer	4.9	4.3	4.3
FortisAlberta (Farm Transmission)	4.7	4.7	4.7
Alberta PowerLine	55.4	-	-
Subtotal TFO Wires-Related Costs	1,830.0	1,728.6 [1,707.8]	1,723.9 [1,714.8]
Invitation to Bid on Credits (IBOC)	2.1	1.9	1.9
Location Based Credit Standing Offer (LBC SO)	2.5	3.5	3.5
Subtotal IBOC/LBC SO Costs	4.6	5.4	5.4
TOTAL WIRES COSTS	1,834.6	1,713.3	1,720.3

Source: Exhibit 24036-X0002.01, Table 2-2, PDF page 12.

21. The AESO's 2019 forecast of costs for ancillary services is \$313.8 million, which represents roughly 13 per cent of the AESO's transmission revenue requirement. Ancillary services, as defined in subsection 1(1)(b) of the *Electric Utilities Act*, are services required to ensure that the interconnected electric system is operated in a manner that provides a satisfactory level of service with acceptable levels of voltage and frequency. The largest component of

ancillary services costs is operating reserves, which represent the real power capability above system demand required to provide for regulation, forced outages and unplanned outages.²¹

22. The AESO has forecast the cost of transmission line losses to be \$126.1 million in 2019, which represents approximately five per cent of the AESO's transmission revenue requirement. Losses are the energy lost on the transmission system when power is transmitted from suppliers to loads. Losses are the residual of the metered generation plus scheduled imports less metered loads and less scheduled exports.²²

23. The 2019 forecast cost for AESO administration is \$97.6 million, which represents approximately four per cent of the AESO's transmission revenue requirement. The AESO Board approves the AESO's administrative costs in their entirety and allocates administrative costs among the three functions of the AESO; namely, transmission, energy market, and load settlement. Administrative costs are defined in paragraph 1(1)(g) of the *Transmission Regulation* as follows:²³

1(1)(g) "ISO's own administrative costs" means

- (i) the transmission-related costs and expenses of the ISO respecting the administration, operation and management of the ISO,
- (ii) the transmission-related costs and expenses of the ISO respecting reliability standards and reliability management systems, and
- (iii) the transmission-related costs and expenses required to be paid, or otherwise appropriately paid, by the ISO, except for the following: (A) costs for the provision of ancillary services; (B) costs of transmission line losses; (C) amounts payable under TFO transmission tariffs;

4.2 Rate calculations and billing determinants

Rate calculations

24. The AESO used the rate calculation methodology approved by the Commission in Decision 3473-D01-2015 in connection with the AESO's 2014 ISO tariff application. Specifically, the AESO used the 2014 rate calculations included as Appendix B of the AESO 2014 ISO tariff compliance filing as the template for the 2019 rate calculations, updated to reflect the transmission constraint rebalancing charge approved in Decision 20623-D01-2015.²⁴ The 2019 rate calculations are included as Appendix B²⁵ to this application, in tables B-1 through B-16.

²¹ Exhibit 24036-X0002.01, AESO 2019 ISO tariff update application, paragraph 46.

²² Exhibit 24036-X0002.01, AESO 2019 ISO tariff update application, paragraph 48.

²³ Exhibit 24036-X0002.01, AESO 2019 ISO tariff update application, paragraphs 50-52.

²⁴ Decision 20623-D01-2015: Alberta Electric System Operator Application for AESO 2015 Transmission Constraint Rebalancing Charge and Approval to Amend the ISO Tariff Pursuant to Decisions 2013-135 and 3528-D01-2015, Proceeding 20623, November 5, 2015.

²⁵ Exhibit 24036-X0004.01, AESO 2019 ISO Tariff Update - Appendix B - Rate Calculations.

25. The AESO explained that the 2019 rate calculations included in Appendix B to this application use the following inputs:

- the 2019 forecast revenue requirement discussed in section 2 of this application;
- the functionalization of wires costs approved for 2016 in Decision 2013-421; and
- the 2018 forecast billing determinants prepared by the AESO.

Billing determinants

26. The rate calculations for the 2019 rates update are based on the AESO's forecast of billing determinants for 2019. Billing determinants are calculated using historical and year-to-date ratios between DTS Energy and each individual billing determinant.²⁶

Table 3. 2019 and 2018 forecast billing determinants

Rate DTS Billing Determinant	Units	2019 Forecast	2018 Forecast	Increase (Decrease)	
				Amount	%
Coincident Metered Demand	MW-months	100,531.6	97,697.5	4,221.2	2.9
Billing Capacity					
• Total Billing Capacity	MW-months	161,544.6	156,984.4	4,558.2	2.9
• First (7.5×SF) MW	MW-months	36,579.6	36,498.4	42.7	0.2
• Next (9.5×SF) MW	MW-months	34,660.6	34,526.1	808.2	0.4
• Next (23×SF) MW	MW-months	43,602.7	43,063.7	950.7	1.3
• All Remaining MW	MW-months	46,701.7	42,896.3	2,033.3	8.9
Highest Metered Demand	MW-months	127,416.5	122,370.3	5,246.6	4.1
Metered Energy (All Hours)	GWh	62,524.0	61,303.0	2,235.0	2.0
DTS Market Participants	customer-months	5,289.0	5,309.0	(28.9)	(0.4)
Pool Price	\$/MWh	\$57.5	\$42.6	\$1.59	35.1 [3.51]
Average increase/(decrease) weighted by revenue					2.5

Source: Exhibit 24036-X0002.01, Table 3-3, PDF page 21.

27. Billing determinants changed from the 2018 forecast from which currently-approved rates were based. As a result, the AESO's 2019 updated rates represent an overall increase of 5.7 per cent from the 2018 rates currently in place, including an increase of 6.7 per cent to Rate DTS, Demand Transmission Service, and a decrease of 9.7 per cent to Rate STS, Supply Transmission Service.²⁷

4.3 2019 maximum investment levels

28. The tariff update includes updating investment amounts approved in the most recent tariff application reflecting an escalation factor based on a composite of specified recent inflation indices. The AESO updated the composite inflation index used for developing the point of delivery cost function to 2019, using additional Statistics Canada cost index values and the most

²⁶ Exhibit 24036-X0002.01, AESO 2019 ISO tariff update application, paragraphs 67-69.

²⁷ Exhibit 24036-X0002.01, AESO 2019 ISO tariff update application, paragraphs 73-74.

recent Conference Board of Canada forecast of the Alberta consumer price index. The composite inflation index values used to update the escalation factor in the application, have been reproduced in the following table:

Table 4. Composite inflation index values and escalation factor calculation

	Year	Basis	Present Value Factor
2014 Tariff Application	2014	Forecast	1.5727
2015 Tariff Update	2015	Forecast	1.5834
2016 Tariff Update	2106	Forecast	1.6201
2017 Tariff Update	2017	Forecast	1.6579
2018 Tariff Update	2018	Forecast	1.6579
2019 Tariff Update	2019	Forecast	1.6518
2019 Escalation Factor (over 2014)	1.6518 ₂₀₁₉ / 1.5727 ₂₀₁₄ =		1.0503

Source: Exhibit 24036-X0002.01, Table 4-1, PDF page 25.

29. The AESO applied the resulting 1.0503 escalation factor to the 2014 Rate DTS maximum investment levels to determine the 2019 Rate DTS maximum investment levels, which resulted in an increase to the 2019 maximum investment levels, as shown in the table below:

Table 5. Calculation of 2019 maximum investment levels

Tier	Rate DTS Investment	PSC Factor	Rate PSC Investment
2014 Maximum Investment Levels			
Substation fraction (for new points of delivery only)	\$76,050/year	21%	\$15,970/year
First (7.5 × substation fraction) MW of contract capacity	\$30,800/MW/year	21%	\$6,470/MW/year
Next (9.5 × substation fraction) MW of contract capacity	\$19,300/MW/year	21%	\$4,050/MW/year
Next (23 × substation fraction) MW of contract capacity	\$13,450/MW/year	21%	\$2,820/MW/year
All remaining MW of contract capacity	\$8,700/MW/year	0%	\$0/MW/year
2019 Escalation Factor (over 2014)	1.0503		
2019 Maximum Investment Levels			
Substation fraction (for new points of delivery only)	\$79,900/year	21%	\$16,780/year
First (7.5 × substation fraction) MW of contract capacity	\$32,350/MW/year	21%	\$6,790/MW/year
Next (9.5 × substation fraction) MW of contract capacity	\$20,250/MW/year	21%	\$4,250/MW/year
Next (23 × substation fraction) MW of contract capacity	\$14,150/MW/year	21%	\$2,970/MW/year
All remaining MW of contract capacity	\$9,150/MW/year	0%	\$0/MW/year

Source: Exhibit 24036-X0002.01, Table 4-2, PDF page 26.

30. The AESO submitted that its proposed tariff updates in the application are just and reasonable, and comply with the update methodology approved by the Commission for the AESO's tariff. The AESO requested that the Commission approve its tariff update application, including (i) the updated amounts included as Appendix B to this application; and (ii) the proposed 2019 ISO tariff Rate DTS, Rate FTS, Rate DOS, Rate XOS, Rate XOM, Rate PSC, Rate STS, Rider J and Section 8 included as Appendix D to this application, effective January 1, 2019.

5 Commission findings

31. The Commission, in Decision 2010-606, approved an approach that included filing comprehensive tariff applications every three years and, in conjunction with this, filing annual tariff updates. The Commission stated that it considered an annual revenue requirement and rate update may benefit customers by limiting potential misallocations that might occur if the AESO were to rely on Rider C (deferral account reconciliation rider) exclusively to allocate periodic revenue and cost imbalances to its customers.²⁸

32. The scope of the annual tariff updates includes the following three components:²⁹

- an annual revenue requirement update using the approach to the wires cost forecast as described in section 2.2 of the Application, plus forecasts for ancillary services costs, losses costs and administration costs approved by the AESO Board for the forecast year;
- revised rate levels for each AESO rate calculated from the forecast revenue requirement and forecast billing determinants using rate calculations and rate design approved in the most recent comprehensive tariff application; and
- annual updates to investment amounts approved in the most recent comprehensive tariff reflecting an escalation factor based on the most recent Conference Board of Canada Alberta consumer price index (CPI).

33. The Commission finds that the AESO has properly included the 2019 wires costs for transmission facility owners using the approach described in the AESO's 2014 ISO tariff application and 2013 ISO tariff update,³⁰ approved in Decision 2010-606, referred to in Decision 2014-24221 and updated in Decision 22093-D02-2017.

34. The Commission recognizes that the AESO's 2019 forecast for ancillary services, losses and administrative costs included in this application have yet to be approved by the AESO Board as final. The AESO proposed to notify the Commission in December 2018 about any differences from costs proposed in the application to those approved by the AESO Board.³¹ Given the date of the close of record and the AESO's request to have a decision by December 28, 2018,

²⁸ Decision 2010-606, paragraph 547.

²⁹ Decision 2010-606, paragraph 537.

³⁰ Exhibit 0026.00.AESO-2718, Alberta Electric System Operator 2014 ISO Tariff Application and 2013 ISO Tariff Update, dated July 19, 2013, at paragraphs 53-57.

³¹ Exhibit 24036-X0002.01, AESO 2019 ISO tariff update application, paragraph 26.

differences between the forecast amounts included in this application and the AESO Board approved costs or the AESO's actual costs will have to be settled through Rider C.

35. The Commission finds that the AESO's 2019 forecast billing determinants used in the tariff update application are reasonable when compared against billing determinants for the two prior years, recorded billing determinants for January to August 2018, and expectations for 2019.³²

36. In accordance with the methodology approved in Decision 2010-606, the AESO's 2019 ISO tariff update used the rate calculation methodology approved by the Commission in Decision 3473-D01-2015 (Errata) in conjunction with the AESO's 2014 ISO tariff application. Specifically, the AESO used the 2014 rate calculations provided in Appendix B of the AESO 2014 ISO tariff compliance filing as the template for the 2018 rate calculations.

37. The AESO's 2019 ISO tariff update results in an overall increase in rates of 5.7 per cent from the 2018 rates currently in place, including an increase of 6.7 per cent to Rate DTS and a decrease of 9.7 per cent to Rate STS.

38. The Commission also finds that MIL amounts calculated based on an escalation factor of 1.0503 applied to a composite of specified recent inflation indices is consistent with the rate calculation methodology already approved by the Commission in Decision 3473-D01-2015 (Errata); the investment amounts first approved in Decision 3473-D01-2015 (Errata), and updated in Decision 21302-D01-2016 and Decision 22093-D02-2017.

39. For these reasons, the AESO's 2019 ISO tariff update application, including the amounts set out in its Appendix B to the application and the proposed 2019 ISO tariff Rate DTS, Rate FTS, Rate DOS, Rate XOS, Rate XOM, Rate PSC, Rate STS, Rider J and Section 8 of the ISO tariff in Appendix D,³³ is approved.

6 Order

40. It is hereby ordered that:

- (1) The Alberta Electric System Operator's 2019 ISO tariff update application is approved, effective January 1, 2019.

Dated on December 18, 2018.

Alberta Utilities Commission

(original signed by)

Henry van Egteren
Commission Member

³² Exhibit 24036-X0002.01, AESO 2019 ISO tariff update application, paragraph 71 and Table 3-4.

³³ Exhibit 24036-X0006.01, AESO 2019 ISO Tariff Update - Appendix D - 2019 ISO Tariff Rates, Rider J.

Appendix 1 – Proceeding participants

Name of organization (abbreviation) Company name of counsel or representative
Alberta Electric System Operator (AESO)
AltaLink Management Ltd. (AltaLink)
ATCO Electric Ltd.

Alberta Utilities Commission Commission panel H. van Egteren, Commission Member Commission staff C. Wall (Commission counsel) S. Sajnovics (Commission counsel) C. Strasser
