



Alberta Electric System Operator

3000, 240 4 Avenue SW  
Calgary, AB • T2P 4H4

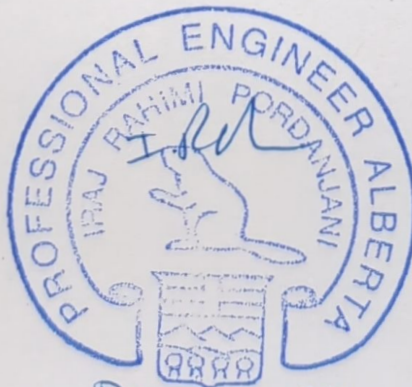
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# 2025 Loss Factors

Role	Name, Title	Date	Signature
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Dec 13, 2024  
ID: 151688

<b>PERMIT TO PRACTICE INDEPENDENT SYSTEM OPERATOR</b>	
RM SIGNATURE:	<u><i>I. Rahimi</i></u>
RM APEGA ID #:	<u>151688</u>
DATE:	<u>Dec 13, 2024</u>
<b>PERMIT NUMBER: P008200</b> The Association of Professional Engineers and Geoscientists of Alberta (APEGA)	



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### 2025 Loss Factors Revision History

<b>Revision</b>	<b>Description of Revision</b>	<b>Date</b>
R0	Initial Release	December 16, 2024

**2025 Loss Factors Effective 1 Jan 2025 (2024-12-16)**

Document: Workbook Showing Calculations From Hourly Raw Loss Factors to Final Loss Factors for 2025, in Accordance With Subsection 3(2)(f) of Section 501.10 of ISO Rules, Transmission Loss Factors

Location (MPID)	Facility Name	Area Name	Number	PSS/E Bus	Final Loss Factor
0000001511	FortisAlberta Reversing POD - Fort Macleod (15S)	Fort Macleod	53	4237	5.46%
0000004813	FortisAlberta Reversing POD - Pocaterra (48S)	Seebe	44	—	1.27%
0000005511	FortisAlberta Reversing POD - Olds (55S)	Didsbury	39	3121	(3.56%)
0000005811	FortisAlberta Reversing POD - Edson (58S)	Hinton/Edson	29	—	3.60%
0000006411	FortisAlberta Reversing POD - East Crossfield (64S)	Airdrie	57	4312	(1.38%)
0000006511	FortisAlberta Reversing POD - High River (65S)	High River	46	4242	2.13%
0000006711	FortisAlberta Reversing POD - Stirling (67S)	Glenwood	55	4280	9.12%
0000006811	FortisAlberta Reversing POD - Willesden Green (68S)	Drayton Valley	30	3150	(2.60%)
0000008311	FortisAlberta Reversing POD - Taber (83S)	Vauxhall	52	—	6.54%
0000010711	FortisAlberta Reversing POD - Westfield (107S)	Vauxhall	52	4277	12.00%
0000012111	FortisAlberta Reversing POD - Brooks (121S)	Brooks	47	3256	8.30%
0000013111	FortisAlberta Reversing POD - Moon Lake (131S)*	Drayton Valley	30	4028	4.42%
0000013511	FortisAlberta Reversing POD - Conrad (135S)	Vauxhall	52	3291 / 4291	12.00%
0000013711	FortisAlberta Reversing POD - Sedgewick (137S)	Wainwright	32	4078	3.12%
0000015111	FortisAlberta Reversing POD - Strathmore (151S)	Strathmore	45	3259 / 4259	4.13%
0000015811	FortisAlberta Reversing POD - Vauxhall (158S)	Vauxhall	52	553274	12.00%
0000016301	FortisAlberta DOS - Plains Midstream Canada (163S)	Empress	48	262	(6.35%)
0000019811	FortisAlberta Reversing POD - Blackfalds (198S)	Red Deer	35	3113	(0.83%)
0000021211	FortisAlberta Reversing POD - NE Lacombe (212S)	Red Deer	35	—	(3.71%)
0000021311	FortisAlberta Reversing POD - Hughenden (213S)	Provost	37	3075	3.85%
0000021411	FortisAlberta Reversing POD - Innisfail (214S)	Didsbury	39	557120	0.94%
0000022911	FortisAlberta Reversing POD - Glenwood (229S)	Glenwood	55	4245	5.44%
0000023511	FortisAlberta Reversing POD - Entwistle (235S)	Wabamun	40	4025	(4.60%)
0000025411	FortisAlberta Reversing POD - Coaldale (254S)	Lethbridge	54	4690	7.18%
0000025511	FortisAlberta Reversing POD - Vulcan (255S)	Stavely	49	557120	12.00%
0000025611	FortisAlberta Reversing POD - Harmattan (256S)	Didsbury	39	124	0.29%
0000025711	FortisAlberta Reversing POD - Hull (257S)	Vauxhall	52	2401, 552402	12.00%
0000027511	FortisAlberta Reversing POD - Jenner (275S)	Empress	48	4986	9.27%
0000027711	FortisAlberta Reversing POD - Hayter (277S)	Provost	37	220	6.79%
0000028511	FortisAlberta Reversing POD - East Camrose (285S)	Wetaskiwin	31	—	(2.96%)
0000029711	FortisAlberta Reversing POD - Rimbey (297S)	Red Deer	35	4098	(0.63%)
0000033111	FortisAlberta Reversing POD - Ponoka (331S)	Wetaskiwin	31	4090	(0.98%)
0000033911	FortisAlberta Reversing POD - Duchess (339S)	Brooks	47	—	2.47%
0000034911	FortisAlberta Reversing POD - Stavely (349S)	Stavely	49	4235	12.00%
0000036811	FortisAlberta Reversing POD - Burdett (368S)	Vauxhall	52	2269	12.00%
0000038511	FortisAlberta Reversing POD - Spring Coulee (385S)	Glenwood	55	4246	9.75%
0000039411	FortisAlberta Reversing POD - Empress (394S)	Empress	48	4266 / 4366	10.27%
0000039611	FortisAlberta Reversing POD - Pincher Creek (396S)	Fort Macleod	53	4224	5.20%
0000042111	FortisAlberta Reversing POD - Hays (421S)	Vauxhall	52	4401	10.95%
0000042811	FortisAlberta Reversing POD - Namaka (428S)	Strathmore	45	3340	5.01%
0000043411	FortisAlberta Reversing POD - Stony Plain (434S)*	Wabamun	40	3360 / 4360	4.42%
0000044711	FortisAlberta Reversing POD - Enchant (447S)	Vauxhall	52	3286 / 4286	12.00%
0000049211	FortisAlberta Reversing POD - Monarch (492S)	Lethbridge	54	4400	9.36%
0000049811	FortisAlberta Reversing POD - Tilley (498S)	Brooks	47	3113	8.42%
0000052311	FortisAlberta Reversing POD - Bullshead (523S)	Medicine Hat	4	—	9.46%
0000052611	FortisAlberta Reversing POD - Buffalo Creek (526S)	Wainwright	32	4079	(3.02%)
0000053511	FortisAlberta Reversing POD - Joffre (535S)	Red Deer	35	2383 / 2886	0.98%
0000054511	FortisAlberta Reversing POD - Provost (545S)	Provost	37	—	7.55%
0000057411	FortisAlberta Reversing POD - Nilrem (574S)	Wainwright	32	19428	3.77%
0000058011	FortisAlberta Reversing POD - Sylvan Lake (580S)	Red Deer	35	4780	(3.06%)
0000060211	FortisAlberta Reversing POD - Cold Creek (602S)	Hinton/Edson	29	—	2.07%
0000064911	FortisAlberta Reversing POD - Chappice Lake (649S)	Medicine Hat	4	4290	11.88%
0000065911	FortisAlberta Reversing POD - Pegasus (659S)	Swan Hills	26	325	(2.23%)
0000079301	FortisAlberta DOS - Cochrane EV Partnership (793S)	Seebe	44	191	7.49%
0000089511	FortisAlberta Reversing POD - Suffield (895S)	Medicine Hat	4	3270	7.24%
311S033N	ATCO Electric Reversing POD - Elmsworth (731S)	Grande Prairie	20	19134	(12.00%)
311S057N	ATCO Electric Reversing POD - Wapiti (823S)	Grande Prairie	20	19135	(5.15%)
311S065N	ATCO Electric Reversing POD - Goodfare (815S)	Grande Prairie	20	19119	(8.62%)
311S081N	ATCO Electric Reversing POD - Poplar Hill (790S)	Grande Prairie	20	18118	(12.00%)
311S089N	ATCO Electric Reversing POD - Mercer Hill (728S)	Grande Prairie	20	19109	(8.28%)

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Location (MPID)	Facility Name	Area Name	Number	PSS/E Bus	Final Loss Factor
312S008N	ATCO Electric Reversing POD - Rycroft (730S)	Grande Prairie	20	19100	(9.17%)
312S017N	ATCO Electric Reversing POD - Ksituan (754S)	Grande Prairie	20	—	(12.00%)
312S025N	ATCO Electric Reversing POD - Mowat (2033S)	Grande Prairie	20	19116	(12.00%)
316S001N	ATCO Electric Reversing POD - Sheridan (2085S)	Hinton/Edson	29	—	4.42%
321S009N	ATCO Electric Reversing POD - Carmon (830S)	Peace River	19	19083	(4.67%)
321S033	ATCO Electric DOS - Mercer Peace River (839S)	Peace River	19	1088	(7.89%)
325S009N	ATCO Electric Reversing POD - Hotchkiss (788S)	Peace River	19	19050	(7.78%)
332S040N	ATCO Electric Reversing POD - Sarah Lake (743S)	Swan Hills	26	18266	(3.26%)
332S064N	ATCO Electric Reversing POD - Swan River (735S)	Swan Hills	26	—	(7.07%)
332S081N	ATCO Electric Reversing POD - Fieldgate (824S)	Swan Hills	26	—	(6.73%)
351S001N	ATCO Electric Reversing POD - Hill (751S)	Lloydminster	13	—	(4.93%)
351S033N	ATCO Electric Reversing POD - Briker (880S)	Lloydminster	13	—	(3.24%)
352S001N	ATCO Electric Reversing POD - Irish Creek (706S)	Lloydminster	13	—	(6.99%)
352S017N	ATCO Electric Reversing POD - Vermilion (710S)	Lloydminster	13	19383	4.42%
353S009N	ATCO Electric Reversing POD - Watt Lake (956S)	Vegreville	56	—	(6.90%)
361S001N	ATCO Michichi Creek 802S DER Solar (802S)	Hanna	42	18448, 19448	9.72%
363S009N	ATCO Three Hills 770S DER Solar 1 (770S)	Hanna	42	19433	7.65%
364S001N	ATCO Electric Reversing POD - Anderson (801S)	Sheerness	43	—	9.59%
364S009N	ATCO Electric Reversing POD - Bullpound (803S)	Sheerness	43	—	10.34%
364S033N	ATCO Electric Reversing POD - Youngstown (772S)	Hanna	42	19476	4.39%
365S001N	ATCO Electric Reversing POD - Oyen (767S)	Hanna	42	—	11.03%
372S025N	ATCO Electric Reversing POD - Lindbergh (969S)	Cold Lake	28	1444	(3.44%)
374S009N	ATCO Electric Reversing POD - Vilna (777S)	Vegreville	56	19357	(5.95%)
AFG1TX	APF Athabasca	Athabasca	27	392	(7.07%)
AKE1	McBride Lake Wind Facility	Fort Macleod	53	901	11.50%
ANC1	Alberta Newsprint	Swan Hills	26	298	1.15%
ARD1	Ardenville Wind Facility	Fort Macleod	53	739	7.50%
BAR	Barrier Hydro Facility	Seebe	44	216	(0.26%)
BCR2	Bear Creek #2	Grande Prairie	20	1142	(8.42%)
BCRK	Bear Creek #1	Grande Prairie	20	1142	(9.57%)
BIG	Bighorn Hydro Facility	Abraham Lake	34	103	0.95%
BKZ1	Solar Krafte Brooks*	Brooks	47	434	4.42%
BPW	Bears paw Hydro Facility	Seebe	44	184	(0.62%)
BPW1	Buffalo Plains Wind Facility	Brooks	47	549041	6.69%
BR4	Battle River #4	Alliance	36	1491	5.71%
BR5	Battle River #5	Alliance	36	1469	5.57%
BRA	Brazeau Hydro Facility	Drayton Valley	30	153	2.65%
BSR1	Blackspring Ridge Wind Facility	Stavely	49	736	7.60%
BTR1	Blue Trail Wind Facility	Fort Macleod	53	328	7.28%
CAS	Cascade Hydro Facility	Seebe	44	175	(2.88%)
CAS1	Cascade Combined Cycle 1 (1047S)	Hinton/Edson	29	557014	4.48%
CAS2	Cascade Combined Cycle 2 (1047S)	Hinton/Edson	29	558014	4.48%
CES1/CES2	Calgary Energy Centre	Calgary	6	187	1.15%
CHIN	Chin Chute Hydro Facility	Lethbridge	54	406	8.34%
CLO1	Cenovus Christina Lake Industrial System	Fort McMurray	25	879	1.69%
CLR1	Claresholm Solar A Facility	Stavely	49	99004	12.00%
CLR2	Claresholm Solar B Facility	Stavely	49	99004	12.00%
CMH1	City of Medicine Hat	Medicine Hat	4	976	7.39%
CNR5	CNRL Horizon Industrial System	Fort McMurray	25	1263	2.94%
CR1	Castle River #1 Wind Facility	Fort Macleod	53	234	6.97%
CRE3	Cowley Ridge Wind Facility	Fort Macleod	53	264	8.91%
CRR1	Castle Rock Ridge Wind Facility	Fort Macleod	53	221	7.65%
CRR2	Castle Rock Ridge Phase 2 Wind Facility	Fort Macleod	53	221	7.61%
CRS1	Crossfield Energy Centre #1	Airdrie	57	503	3.28%
CRS2	Crossfield Energy Centre #2	Airdrie	57	503	3.66%
CRS3	Crossfield Energy Centre #3	Airdrie	57	503	3.62%
CYP1	Cypress Wind Project Connection (1019S)	Medicine Hat	4	549003	12.00%
CYP2	Cypress Wind Project Connection 2 (1019S)	Medicine Hat	4	549003	12.00%
DAI1	Daishowa-Marubeni	Peace River	19	1089	(4.76%)
DOWGEN15M	Dow Hydrocarbon Industrial Complex	Fort Saskatchewan	33	61	2.18%

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Location (MPID)	Facility Name	Area Name	Number	PSS/E Bus	Final Loss Factor
DRW1	Drywood #1	Glenwood	55	4226	3.05%
EAGL	Whitcourt Power	Swan Hills	26	410	(1.56%)
EC01	Cavalier	Strathmore	45	340	1.82%
EC04	Foster Creek Industrial System	Cold Lake	28	1301	(0.81%)
EGC1	Shepard	Calgary	6	772	1.94%
ENC1	Clover Bar #1	Edmonton	60	516	2.08%
ENC2	Clover Bar #2	Edmonton	60	516	1.86%
ENC3	Clover Bar #3	Edmonton	60	516	2.12%
EPS1	Empress Industrial System, - Empress (3945)	Empress	48	2266	10.15%
FH1	Fort Hills Industrial System	Fort McMurray	25	1612	1.67%
FMG1	Suncor Forty Mile Granlea WAGF (1024S)	Medicine Hat	4	994	12.00%
FNG1	Fort Nelson	Rainbow Lake	17	20000	5.76%
FRM1	RESC Forty Mile MPC Wind (516S)	Medicine Hat	4	608	12.00%
GARNEAUREV	FortisAlberta Reversing POD - Garneau	Edmonton	60	—	0.93%
GDP1	TransAlta Garden Plain Wind (1045S)	Hanna	42	542002	9.38%
GHO	Ghost Hydro Facility	Seebe	44	180	(0.88%)
GN3	Genesee #3	Lake Wabamun	40	525	2.03%
GNR1	Genesee Repower 1	Lake Wabamun	40	525	2.46%
GNR2	Genesee Repower 2	Lake Wabamun	40	525	2.45%
GPEC	Grande Prairie EcoPower	Grande Prairie	20	1101	(6.01%)
GRZ1	Wild Run Grizzly Bear Wind (708S)	Lloydminster	13	1308	5.67%
GWW1	Soderglen Wind Facility	Fort Macleod	53	358	7.78%
HAL1	Halkirk Wind Facility	Hanna	42	1435	8.65%
HHW1	BER Hand Hills MPC Wind (572S)	Hanna	42	549045	11.40%
HLD1	Hilda Wind Facility	Empress	48	540004	10.12%
HRM	H. R. Milner	Grande Cache	22	1147	(6.68%)
HRT1	Heartland Petrochemical Complex Industrial System	Fort Saskatchewan	33	968	1.70%
HSH	Horseshoe Hydro Facility	Seebe	44	171	(1.68%)
IEW1	Summerview 1 Wind Facility	Fort Macleod	53	336	8.16%
IEW2	Summerview 2 Wind Facility	Fort Macleod	53	336	8.59%
IOR1	Cold Lake Industrial System	Cold Lake	28	1303	(1.06%)
IOR3	Kearl Oil Sands Industrial System	Fort McMurray	25	1610	4.42%
IOR4	Strathcona Refinery Industrial System	Edmonton	60	30694066	4.42%
JNR1	Jenner 1 Wind Facility	Empress	48	68798	9.93%
JNR2	Jenner 2 Wind Facility	Empress	48	69798	10.10%
JNR3	Jenner 3 Wind Facility	Empress	48	68799	10.08%
KAN	Kananaskis Hydro Facility	Seebe	44	193	(0.84%)
KH2	Keephills #2	Lake Wabamun	40	420	2.62%
KH3	Keephills #3	Lake Wabamun	40	510	2.59%
KHW1	Kettles Hill Wind Facility	Fort Macleod	53	402	7.79%
LAN1	Pattern Lanfine North Wind (601S)	Hanna	42	996	9.51%
LETH181SN	Lethbridge Reversing POD - Chinook (181S)	Lethbridge	54	—	4.42%
MEG1	MEG Christina Lake Industrial System	Fort McMurray	25	405	0.31%
MKR1	Muskeg River Industrial System	Fort McMurray	25	1236	1.35%
MKRC	Mackay River Industrial System	Fort McMurray	25	1274	1.18%
NEP1	Ghost Pine Wind Facility	Hanna	42	603	8.57%
NOVAGEN15M	Joffre Industrial System	Red Deer	35	383	0.84%
NPP1	Northern Prairie Power Project	Grande Prairie	20	1118	(12.00%)
NRG3	NRGreen	Swan Hills	26	1674	(0.46%)
NX01	Nexen Balzac	Calgary	6	198	0.77%
NX02	Nexen Long Lake Industrial System	Fort McMurray	25	1241	0.80%
OMRH	Oldman River Hydro Facility	Fort Macleod	53	230	5.38%
OWF1	Oldman 2 Wind Facility	Fort Macleod	53	543	8.02%
PAW1	Paintearth Wind Facility 1 (973S)	Hanna	42	1418	8.47%
PH1	Poplar Hill #1	Grande Prairie	20	1118	(12.00%)
PMB1	West Pembina	Drayton Valley	30	4215	4.42%
POC	Pocaterra Hydro Facility	Seebe	44	329	1.99%
PR1	Primrose Industrial System	Cold Lake	28	800	(0.50%)
Proj_1984	FortisAlberta Gleichen DG Solar (179S)	Strathmore/Blackie	45	—	4.25%
Proj_2137_2465	Enerfin Winnifred MPC Wind Facility	Medicine Hat	4	—	12.00%

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Proj_2259	FortisAlberta Metiskow 648S DER Solar (648S)	Provost	37	—	5.82%
Proj_2347	Forty Mile Granlea Solar Phase 2 (1024S)	Medicine Hat	4	—	12.00%
Proj_2418	Greencells Estuary Solar	Empress	48	—	9.69%
Proj_2421	RESC Big Sky Solar	Empress	48	—	9.68%
Proj_2441	Capital Power Halkirk 2 Wind Facility	Alliance / Battle River	36	—	8.07%
Proj_2593	RESC Forty Mile Wind Phase 2 (516S)	Medicine Hat	4	—	12.00%
Proj_693	Wild Rose 2 Wind Farm (274S)	Medicine Hat	4	—	12.00%
RB5	Rainbow #5	Rainbow Lake	17	83	(5.05%)
RIV1	Riverview Wind Facility	Fort Macleod	53	69221	7.53%
RPT1	Jurassic Solar Facility*	Empress	48	—	4.42%
RPT2	Jurassic Energy Storage Facility*	Empress	48	—	4.42%
RTL1	Rattlesnake Ridge Wind Facility	Medicine Hat	4	875	12.00%
RUN	Rundle Hydro Facility	Seebe	44	195	(1.68%)
RYMD	Raymond Reservoir Hydro Facility	Glenwood	55	413	9.65%
S09N	ENMAX Reversing POD - 9 Substation (SS-9)	Calgary	6	4277	4.42%
S15N	ENMAX Reversing POD - 15 Substation (SS-15)*	Calgary	6	—	4.42%
S20N	ENMAX Reversing POD - 20 Substation (SS-20)*	Calgary	6	—	4.42%
S24N	ENMAX Reversing POD - 24 Substation (SS-24)	Calgary	6	3590 / 4590	0.80%
S34N	ENMAX Reversing POD - 34 Substation (SS-34)	Calgary	6	—	4.42%
SCL1	Syncrude Industrial System	Fort McMurray	25	1200	2.08%
SCR1A/SCR1B	Suncor Industrial System	Fort McMurray	25	1200	1.19%
SCR2	Magrath Wind Facility	Glenwood	55	251	8.78%
SCR3	Chin Chute Wind Facility	Lethbridge	54	389	10.64%
SCR4	Wintering Hills Wind Facility	Sheernes	43	759	12.00%
SCTG	Scotford Industrial System	Fort Saskatchewan	33	43	2.61%
SD6	Sundance #6	Lake Wabamun	40	135	1.68%
SDL1	Saddlebrook Solar Facility	High River	46	557240	4.01%
SDL2	Saddlebrook Solar and Storage	High River	46	—	4.01%
SET1	South Edmonton Terminal	Edmonton	60	3436	0.80%
SH1	Sheerness #1	Sheernes	43	1481	6.84%
SH2	Sheerness #2	Sheernes	43	1486	6.40%
SHCG	Shell Caroline	Caroline	38	370	1.45%
SHH1	Sharp Hills Wind Facility	Hanna	42	831	8.08%
SLP1	Slave Lake Pulp	High Prairie	21	1230	(2.69%)
SLR1	Sollair Solar Facility	Airdrie	57	549071	2.02%
SPR	Spray Hydro Facility	Seebe	44	310	(1.49%)
SUM1	Summerview Energy Storage Facility	Fort Macleod	53	336	4.42%
SWP1	Stirling Wind Facility (967S)	Lethbridge	54	1630	11.29%
TAB1	Taber Wind Facility	Vauxhall	52	343	12.00%
TAY1	Taylor Hydro Facility	Glenwood	55	693	6.89%
TC01	Carseland Industrial System	Strathmore	45	5251	3.22%
TC02	Redwater Industrial System	Fort Saskatchewan	33	50	0.98%
TVS1	Travers Solar Facility	Stavely	49	549026	7.17%
VVW1	Valleyview #1	Valleyview	23	1172	(2.57%)
VVW2	Valleyview #2	Valleyview	23	1172	(2.03%)
WCR1	BluEarth Wheatcrest MPC Solar	Vauxhall	52	549039	11.84%
WEY1	Weyerhaeuser	Grande Prairie	20	1140	(5.14%)
WHE1	Wheatland WAGF Project (981S)	Sheerness	43	1632	12.00%
WHT1	Whitla Wind Facility	Medicine Hat	4	60990	12.00%
WHT2	Whitla Phase 2 Wind Facility	Medicine Hat	4	60990	12.00%
WRW1	Windrise Wind Facility	Fort Macleod	53	654	6.22%
WST1	Westlock Power Plant	Athabasca/Lac La Biche	27	14	(0.63%)
BCHXP	Alberta-BC Interite - Export	WSCC	15	1520	1.46%
BCHIMP	Alberta-BC Interite - Import	WSCC	15	1520	3.91%
MTEXP	Alberta-Montana Intertie - Export	Glenwood	55	80000	—
120SIMP	Alberta-Montana Intertie - Import	Glenwood	55	80000	6.29%
SPCEXP	Alberta-Saskatchewan Intertie - Export	Empress	48	1473	2.49%
SPCIMP	Alberta-Saskatchewan Intertie - Import	Empress	48	1473	9.33%

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Location (MPID)	Facility Name	Area Name	Number	PSS/E Bus	Final Loss Factor
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(\*) When 2025 loss factors were being determined, this location did not satisfy the project inclusion criteria in subsection 7 of section 501.10 of the ISO rules. The average annual loss factor for the transmission system has therefore been used for this location with subsequent annual shifting and compression, in accordance with subsections 9(2), 9(3), and 11 of section 501.10 of the ISO rules.