

2019 Loss Factors Effective 1 Jan 2019 (2019-07-16)

Document: Workbook Showing Calculations From Hourly Raw Loss Factors to Final Loss Factors for 2019, in Accordance With Subsection 3(2)(f) of Section 501.10 of ISO Rules, Transmission Loss Factors
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Location (MPID)	Facility Name	Area Name	Number	PSS/E Bus	Final Loss Factor
000001511	FortisAlberta Reversing POD - Fort Macleod (15S)	Fort Macleod	53	4237	1.60%
000006511	FortisAlberta Reversing POD - High River (65S)	High River	46	4242	12.00%
000006711	FortisAlberta Reversing POD - Stirling (67S)	Glenwood	55	4280	10.31%
000012111	FortisAlberta Reversing POD - Brooks (121S)	Brooks	47	3256	11.70%
000013711	FortisAlberta Reversing POD - Sedgewick (137S)	Wainwright	32	4078	2.25%
000016301	FortisAlberta DOS - Plains Midstream Canada (163S)	Empress	48	262	3.11%
000019811	FortisAlberta Reversing POD - Blackfalds (198S)	Red Deer	35	3113	2.25%
000022911	FortisAlberta Reversing POD - Glenwood (229S)	Glenwood	55	4245	12.00%
000025411	FortisAlberta Reversing POD - Coaldale (254S)	Lethbridge	54	4690	2.25%
000025611	FortisAlberta Reversing POD - Harmattan (256S)	Didsbury	39	124	0.66%
000027711	FortisAlberta Reversing POD - Hayter (277S)	Provost	37	220	1.62%
000034911	FortisAlberta Reversing POD - Stavely (349S)	Stavely	49	4235	2.61%
000038511	FortisAlberta Reversing POD - Spring Coulee (385S)	Glenwood	55	4246	(12.00%)
000039611	FortisAlberta Reversing POD - Pincher Creek (396S)	Fort Macleod	53	4224	7.10%
000045411	FortisAlberta Reversing POD - Buck Lake (454S)	Drayton Valley	30	4080	3.11%
000065911	FortisAlberta Reversing POD - Pegasus (659S)	Swan Hills	26	325	(1.94%)
000079301	FortisAlberta DOS - Cochrane EV Partnership (793S)	Seebe	44	191	8.43%
000089511	FortisAlberta Reversing POD - Suffield (895S)	Medicine Hat	4	3270	6.64%
311S033N	ATCO Electric Reversing POD - Elmsworth (731S)	Grande Prairie	20	19134	(12.00%)
321S009N	ATCO Electric Reversing POD - Carmon (830S)	Peace River	19	19083	(9.30%)
321S033	ATCO Electric DOS - Daishowa-Marubeni (839S)	Peace River	19	1088	12.00%
325S009N	ATCO Electric Reversing POD - Hotchkiss (788S)	Peace River	19	19050	(11.72%)
372S025N	ATCO Electric Reversing POD - Lindbergh (969S)	Cold Lake	28	1444	0.50%
AFG1TX	APF Athabasca	Athabasca	27	392	(3.34%)
AKE1	McBride Lake Wind Facility	Fort Macleod	53	901	5.67%
ANC1	Alberta Newsprint	Swan Hills	26	298	(2.30%)
ARD1	Ardenville Wind Facility	Fort Macleod	53	739	4.49%
BAR	Barrier Hydro Facility	Seebe	44	216	0.70%
BCR2	Bear Creek #2	Grande Prairie	20	1142	(12.00%)
BCRK	Bear Creek #1	Grande Prairie	20	1142	(12.00%)
BIG	Bighorn Hydro Facility	Abraham Lake	34	103	2.13%
BPW	Bearspaw Hydro Facility	Seebe	44	184	0.04%
BR3	Battle River #3	Alliance	36	1491	8.00%
BR4	Battle River #4	Alliance	36	1491	6.15%
BR5	Battle River #5	Alliance	36	1469	3.89%
BRA	Brazeau Hydro Facility	Drayton Valley	30	153	2.35%
BSR1	Blackspring Ridge Wind Facility	Stavely	49	736	3.90%
BTR1	Blue Trail Wind Facility	Fort Macleod	53	328	4.40%
CAS	Cascade Hydro Facility	Seebe	44	175	(1.08%)
CES1/CES2	Calgary Energy Centre	Calgary	6	187	1.15%
CHIN	Chin Chute Hydro Facility	Lethbridge	54	406	1.06%
CLO1	Cenovus Christina Lake Industrial System	Fort McMurray	25	879	3.85%
CMH1	City of Medicine Hat	Medicine Hat	4	976	3.61%
CNR5	CNRL Horizon Industrial System	Fort McMurray	25	1263	4.43%
CR1	Castle River #1 Wind Facility	Fort Macleod	53	234	4.67%
CRE3	Cowley Ridge Wind Facility	Fort Macleod	53	264	7.02%
CRR1	Castle Rock Wind Facility	Fort Macleod	53	221	4.68%
CRR2	Castle Rock Ridge Phase 2 Wind Facility	Fort Macleod	53	221	5.39%
CRS1	Crossfield Energy Centre #1	Airdrie	57	503	4.31%
CRS2	Crossfield Energy Centre #2	Airdrie	57	503	3.67%
CRS3	Crossfield Energy Centre #3	Airdrie	57	503	3.31%
DAI1	Daishowa-Marubeni	Peace River	19	1089	(11.98%)
DOWGEN15M	Dow Hydrocarbon Industrial Complex	Fort Saskatchewan	33	61	3.44%
DRW1	Drywood #1	Glenwood	55	4226	3.37%
EAGL	Whitcourt Power	Swan Hills	26	410	(4.66%)
EC01	Cavalier	Strathmore	45	340	0.80%

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EC04	Foster Creek Industrial System	Cold Lake	28	1301	5.11%
EGC1	Shepard	Calgary	6	772	1.68%
ENC1	Clover Bar #1	Edmonton	60	516	2.89%
ENC2	Clover Bar #2	Edmonton	60	516	2.90%
ENC3	Clover Bar #3	Edmonton	60	516	2.98%
FH1	Fort Hills Industrial System	Fort McMurray	25	1612	3.65%
FNG1	Fort Nelson	Rainbow Lake	17	20000	(12.00%)
GHO	Ghost Hydro Facility	Seebe	44	180	(0.49%)
GN1	Genesee #1	Lake Wabamun	40	525	3.55%
GN2	Genesee #2	Lake Wabamun	40	525	3.56%
GN3	Genesee #3	Lake Wabamun	40	525	3.40%
GPEC	Grande Prairie EcoPower	Grande Prairie	20	1101	(12.00%)
GWW1	Soderglen Wind Facility	Fort Macleod	53	358	4.69%
HAL1	Halkirk Wind Facility	Hanna	42	1435	5.20%
HRM	H. R. Milner	Grande Cache	22	1147	(11.83%)
HSH	Horseshoe Hydro Facility	Seebe	44	171	(0.23%)
IEW1	Summerview 1 Wind Facility	Fort Macleod	53	336	5.28%
IEW2	Summerview 2 Wind Facility	Fort Macleod	53	336	5.64%
INT	Interlakes Hydro Facility	Seebe	44	376	4.27%
IOR1	Cold Lake Industrial System	Cold Lake	28	1303	1.65%
IOR3	Kearl Oil Sands Industrial System	Fort McMurray	25	1610	3.11%
KAN	Kananaskis Hydro Facility	Seebe	44	193	(0.10%)
KH1	Keephills #1	Lake Wabamun	40	420	4.40%
KH2	Keephills #2	Lake Wabamun	40	420	4.49%
KH3	Keephills #3	Lake Wabamun	40	510	3.45%
KHW1	Kettles Hill Wind Facility	Fort Macleod	53	402	4.93%
MEG1	MEG Christina Lake Industrial System	Fort McMurray	25	405	3.40%
MKR1	Muskeg River Industrial System	Fort McMurray	25	1236	4.61%
MKRC	MacKay River Industrial System	Fort McMurray	25	1274	3.36%
NEP1	Ghost Pine Wind Facility	Hanna	42	603	4.63%
NOVAGEN15M	Joffre Industrial System	Red Deer	35	383	1.37%
NPP1	Northern Prairie Power Project	Grande Prairie	20	1118	(12.00%)
NRG3	NRGreen	Swan Hills	26	1674	(5.58%)
NX01	Nexen Inc. #1	Calgary	6	198	0.72%
NX02	Nexen Inc. #2	Fort McMurray	25	1241	3.93%
OMRH	Oldman River Hydro Facility	Fort Macleod	53	230	3.03%
OWF1	Oldman 2 Wind Facility	Fort Macleod	53	543	5.08%
PH1	Poplar Hill #1	Grande Prairie	20	1118	(12.00%)
POC	Pocaterra Hydro Facility	Seebe	44	329	1.98%
PR1	Primrose #1	Cold Lake	28	800	5.55%
Proj_0524	Riverview Wind Facility	Fort Macleod	53	69221	4.87%
Proj_1567	Sharp Hills Wind Facility	Hanna	42	60831	4.45%
Proj_1800-1	Whitla Wind Facility	Medicine Hat	4	990	3.88%
RB5	Rainbow #5	Rainbow Lake	17	83	(12.00%)
RUN	Rundle Hydro Facility	Seebe	44	195	(0.25%)
RYMD	Raymond Reservoir Hydro Facility	Glenwood	55	413	3.50%
SCL1	Syncrude Industrial System	Fort McMurray	25	1200	5.75%
SCR1	Suncor Industrial System	Fort McMurray	25	1200	2.76%
SCR2	Magrath Wind Facility	Glenwood	55	251	4.00%
SCR3	Chin Chute Wind Facility	Lethbridge	54	389	2.29%
SCR4	Wintering Hills Wind Facility	Sheernes	43	759	6.69%
SCTG	Scotford Industrial System	Fort Saskatchewan	33	43	3.26%
SD3	Sundance #3	Lake Wabamun	40	135	3.36%
SD4	Sundance #4	Lake Wabamun	40	135	0.21%
SD5	Sundance #5	Lake Wabamun	40	135	3.25%
SD6	Sundance #6	Lake Wabamun	40	135	0.39%

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SH1	Sheerness #1	Sheernes	43	1481	5.43%
SH2	Sheerness #2	Sheernes	43	1486	5.41%
SHCG	Shell Caroline	Caroline	38	370	12.00%
SLP1	Slave Lake Pulp	High Prairie	21	1230	(4.64%)
SPR	Spray Hydro Facility	Seebe	44	310	(0.90%)
TAB1	Taber Wind Facility	Vauxhall	52	343	0.33%
TAY1	Taylor Hydro Facility	Glenwood	55	693	2.92%
TC01	Carseland Industrial System	Strathmore	45	5251	1.43%
TC02	Redwater Industrial System	Fort Saskatchewan	33	50	2.95%
THS	Three Sisters Hydro Plant	Seebe	44	379	(4.13%)
VVW1	Valleyview #1	Valleyview	23	1172	(7.86%)
VVW2	Valleyview #2	Valleyview	23	1172	(6.01%)
WEY1	Weyerhaeuser	Grande Prairie	20	1140	(12.00%)
WST1	Westlock Power Plant	Athabasca/Lac La Biche	27	14	(0.88%)
BCHEXP	Alberta-BC Intertie - Export	WSCC	15	1520	2.21%
BCHIMP	Alberta-BC Intertie - Import	WSCC	15	1520	5.19%
MTEXP	Alberta-Montana Intertie - Export	Glenwood	55	80000	—
120SIMP	Alberta-Montana Intertie - Import	Glenwood	55	80000	5.14%
SPCEXP	Alberta-Saskatchewan Intertie - Export	Empress	48	1473	2.18%
SPCIMP	Alberta-Saskatchewan Intertie - Import	Empress	48	1473	4.76%