

**2023 Loss Factors Effective 1 Jun 2023 (2023-05-30)**

Document: Workbook Showing Calculations From Hourly Raw Loss Factors to Final Loss Factors for 2023, in Accordance With Subsection 3(2)(f) of Section 501.10 of ISO Rules, Transmission Loss Factors  
 Effective: June 1, 2023 – December 31, 2023  
 Version: Public — May 30, 2023

| Location (MPID) | Facility Name                                       | Area Name      | Number | PSS/E Bus    | Final Loss Factor |
|-----------------|---|----------------|--------|--------------|-------------------|
| 000001511       | FortisAlberta Reversing POD - Fort Macleod (15S)    | Fort Macleod   | 53     | 4237         | 4.06%             |
| 000006411       | FortisAlberta Reversing POD - East Crossfield (64S) | Airdrie        | 57     | —            | (4.15%)           |
| 000006511       | FortisAlberta Reversing POD - High River (65S)      | High River     | 46     | 4242         | (6.82%)           |
| 000006711       | FortisAlberta Reversing POD - Stirling (67S)        | Glenwood       | 55     | 4280         | (1.39%)           |
| 000006811       | FortisAlberta Reversing POD - Willesden Green (68S) | Drayton Valley | 30     | —            | (6.45%)           |
| 000010711       | FortisAlberta Reversing POD - Westfield (107S)      | Vauxhall       | 52     | 4277         | 12.00%            |
| 000012111       | FortisAlberta Reversing POD - Brooks (121S)         | Brooks         | 47     | 3256         | 7.33%             |
| 000013511       | FortisAlberta Reversing POD - Conrad (135S)         | Vauxhall       | 52     | —            | 12.00%            |
| 000013711       | FortisAlberta Reversing POD - Sedgewick (137S)      | Wainwright     | 32     | 4078         | 4.85%             |
| 000015111       | FortisAlberta Reversing POD - Strathmore (151S)     | Strathmore     | 45     | —            | 3.57%             |
| 000015811       | FortisAlberta Reversing POD - Vauxhall (158S)       | Vauxhall       | 52     | 553274       | 8.24%             |
| 000016301       | FortisAlberta DOS - Plains Midstream Canada (163S)  | Empress        | 48     | 262          | 0.32%             |
| 000019811       | FortisAlberta Reversing POD - Blackfalds (198S)     | Red Deer       | 35     | 3113         | 2.52%             |
| 000021311       | FortisAlberta Reversing POD - Hughenden (213S)      | Provost        | 37     | -            | 1.98%             |
| 000021411       | FortisAlberta Reversing POD - Innisfail (214S)      | Didsbury       | 39     | 557120       | 0.12%             |
| 000022911       | FortisAlberta Reversing POD - Glenwood (229S)       | Glenwood       | 55     | 4245         | 5.04%             |
| 000023511       | FortisAlberta Reversing POD - Entwistle (235S)      | Wabamun        | 40     | —            | (11.07%)          |
| 000025411       | FortisAlberta Reversing POD - Coaldale (254S)       | Lethbridge     | 54     | 4690         | 6.26%             |
| 000025511       | FortisAlberta Reversing POD - Vulcan (255S)         | Stavely        | 49     | 557120       | 9.31%             |
| 000025611       | FortisAlberta Reversing POD - Harmattan (256S)      | Didsbury       | 39     | 124          | (1.08%)           |
| 000025711       | FortisAlberta Reversing POD - Hull (257S)           | Vauxhall       | 52     | 2401, 552402 | 8.77%             |
| 000027511       | FortisAlberta Reversing POD - Jenner (275S)         | Empress        | 48     | —            | 5.18%             |
| 000027711       | FortisAlberta Reversing POD - Hayter (277S)         | Provost        | 37     | 220          | 2.15%             |
| 000029711       | FortisAlberta Reversing POD - Rimbey (297S)         | Red Deer       | 35     | —            | (4.05%)           |
| 000033111       | FortisAlberta Reversing POD - Ponoka (331S)         | Wetaskiwin     | 31     | 4090         | (12.00%)          |
| 000034911       | FortisAlberta Reversing POD - Stavely (349S)        | Stavely        | 49     | 4235         | 12.00%            |
| 000036811       | FortisAlberta Reversing POD - Burdett (368S)        | Vauxhall       | 52     | 2269         | 12.00%            |
| 000038511       | FortisAlberta Reversing POD - Spring Coulee (385S)  | Glenwood       | 55     | 4246         | 12.00%            |
| 000039611       | FortisAlberta Reversing POD - Pincher Creek (396S)  | Fort Macleod   | 53     | 4224         | 6.54%             |
| 000042111       | FortisAlberta Reversing POD - Hays (421S)           | Vauxhall       | 52     | 4401         | 7.17%             |
| 000042811       | FortisAlberta Reversing POD - Namaka (428S)         | Strathmore     | 45     | —            | 4.27%             |
| 000044711       | FortisAlberta Reversing POD - Enchant (447S)        | Vauxhall       | 52     | —            | 8.75%             |
| 000049211       | FortisAlberta Reversing POD - Monarch (492S)        | Lethbridge     | 54     | —            | 6.29%             |
| 000052611       | FortisAlberta Reversing POD - Buffalo Creek (526S)  | Wainwright     | 32     | 4079         | (1.25%)           |
| 000065911       | FortisAlberta Reversing POD - Pegasus (659S)        | Swan Hills     | 26     | 325          | (3.11%)           |
| 000079301       | FortisAlberta DOS - Cochrane EV Partnership (793S)  | Seebe          | 44     | 191          | 12.00%            |
| 000089511       | FortisAlberta Reversing POD - Suffield (895S)       | Medicine Hat   | 4      | 3270         | 5.85%             |
| 311S033N        | ATCO Electric Reversing POD - Elmsworth (731S)      | Grande Prairie | 20     | 19134        | (8.53%)           |
| 311S089N        | ATCO Electric Reversing POD - Mercer Hill (728S)    | Grande Prairie | 20     | 19109        | (10.32%)          |
| 312S008N        | ATCO Electric Reversing POD - Rycroft (730S)        | Grande Prairie | 20     | 19100        | (12.00%)          |
| 312S025N        | ATCO Electric Reversing POD - Mowat (2033S)         | Grande Prairie | 20     | 19116        | (12.00%)          |
| 321S009N        | ATCO Electric Reversing POD - Carmon (830S)         | Peace River    | 19     | 19083        | (4.06%)           |
| 321S033         | ATCO Electric DOS - Mercer Peace River (839S)       | Peace River    | 19     | 1088         | 2.52%             |
| 325S009N        | ATCO Electric Reversing POD - Hotchkiss (788S)      | Peace River    | 19     | 19050        | (8.47%)           |
| 332S040N        | ATCO Electric Reversing POD - Sarah Lake (743S)     | Swan Hills     | 26     | 18266        | (4.29%)           |
| 361S001N        | ATCO Michichi Creek 802S DER Solar (802S)           | Hanna          | 42     | 18448, 19448 | 8.83%             |
| 372S025N        | ATCO Electric Reversing POD - Lindbergh (969S)      | Cold Lake      | 28     | 1444         | (12.00%)          |
| AFG1TX          | APF Athabasca                                       | Athabasca      | 27     | 392          | (5.99%)           |
| AKE1            | McBride Lake Wind Facility                          | Fort Macleod   | 53     | 901          | 8.54%             |
| ANC1            | Alberta Newsprint                                   | Swan Hills     | 26     | 298          | (0.19%)           |
| ARD1            | Ardenville Wind Facility                            | Fort Macleod   | 53     | 739          | 6.74%             |
| BAR             | Barrier Hydro Facility                              | Seebe          | 44     | 216          | (1.39%)           |
| BCR2            | Bear Creek #2                                       | Grande Prairie | 20     | 1142         | (3.89%)           |
| BCRK            | Bear Creek #1                                       | Grande Prairie | 20     | 1142         | (4.99%)           |
| BIG             | Bighorn Hydro Facility                              | Abraham Lake   | 34     | 103          | 2.72%             |
| BPW             | Bearspaw Hydro Facility                             | Seebe          | 44     | 184          | (2.16%)           |
| BR4             | Battle River #4                                     | Alliance       | 36     | 1491         | 3.77%             |
| BR5             | Battle River #5                                     | Alliance       | 36     | 1469         | 2.88%             |
| BRA             | Brazeau Hydro Facility                              | Drayton Valley | 30     | 153          | (0.52%)           |
| BSR1            | Blackspring Ridge Wind Facility                     | Stavely        | 49     | 736          | 6.43%             |

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|            |   |                   |    |           |          |
|------------|---|-------------------|----|-----------|----------|
| BTR1       | Blue Trail Wind Facility                          | Fort Macleod      | 53 | 328       | 6.66%    |
| CAS        | Cascade Hydro Facility                            | Seebe             | 44 | 175       | (3.52%)  |
| CES1/CES2  | Calgary Energy Centre                             | Calgary           | 6  | 187       | 0.39%    |
| CHIN       | Chin Chute Hydro Facility                         | Lethbridge        | 54 | 406       | 5.04%    |
| CL01       | Cenovus Christina Lake Industrial System          | Fort McMurray     | 25 | 879       | 3.72%    |
| CLR1       | Claresholm Solar A Facility                       | Stavely           | 49 | 99004     | 10.04%   |
| CLR2       | Claresholm Solar B Facility                       | Stavely           | 49 | 99004     | 9.53%    |
| CMH1       | City of Medicine Hat                              | Medicine Hat      | 4  | 976       | 4.72%    |
| CNR5       | CNRL Horizon Industrial System                    | Fort McMurray     | 25 | 1263      | 7.12%    |
| CR1        | Castle River #1 Wind Facility                     | Fort Macleod      | 53 | 234       | 6.72%    |
| CRE3       | Cowley Ridge Wind Facility                        | Fort Macleod      | 53 | 264       | 8.64%    |
| CRR1       | Castle Rock Ridge Wind Facility                   | Fort Macleod      | 53 | 221       | 7.30%    |
| CRR2       | Castle Rock Ridge Phase 2 Wind Facility           | Fort Macleod      | 53 | 221       | 6.95%    |
| CRS1       | Crossfield Energy Centre #1                       | Airdrie           | 57 | 503       | 2.52%    |
| CRS2       | Crossfield Energy Centre #2                       | Airdrie           | 57 | 503       | 2.34%    |
| CRS3       | Crossfield Energy Centre #3                       | Airdrie           | 57 | 503       | 2.23%    |
| CYP1       | Cypress Wind Project Connection (1019S)           | Medicine Hat      | 4  | 549003    | 9.78%    |
| CYP2       | Cypress Wind Project Connection 2 (1019S)         | Medicine Hat      | 4  | 549003    | 9.69%    |
| DAI1       | Daishowa-Marubeni                                 | Peace River       | 19 | 1089      | (2.91%)  |
| DOWGEN15M  | Dow Hydrocarbon Industrial Complex                | Fort Saskatchewan | 33 | 61        | 2.03%    |
| DRW1       | Drywood #1  | Glenwood          | 55 | 4226      | (0.89%)  |
| EAGL       | Whitcourt Power                                   | Swan Hills        | 26 | 410       | (3.17%)  |
| EC01       | Cavalier  | Strathmore        | 45 | 340       | 0.78%    |
| EC04       | Foster Creek Industrial System                    | Cold Lake         | 28 | 1301      | 4.81%    |
| EGC1       | Shepard   | Calgary           | 6  | 772       | 1.58%    |
| ENC1       | Clover Bar #1                                     | Edmonton          | 60 | 516       | 1.27%    |
| ENC2       | Clover Bar #2                                     | Edmonton          | 60 | 516       | 1.11%    |
| ENC3       | Clover Bar #3                                     | Edmonton          | 60 | 516       | 1.18%    |
| EPS1       | Empress Industrial System, - Empress (394S)       | Empress           | 48 | 2266      | 2.52%    |
| FH1        | Fort Hills Industrial System                      | Fort McMurray     | 25 | 1612      | 4.81%    |
| FMG1       | Suncor Forty Mile Granlea WAGF (1024S)            | Medicine Hat      | 4  | 994       | 10.03%   |
| FNG1       | Fort Nelson                                       | Rainbow Lake      | 17 | 20000     | 8.85%    |
| GDP1       | TransAlta Garden Plain Wind (1045S)               | Hanna             | 42 | 542002    | 6.85%    |
| GHO        | Ghost Hydro Facility                              | Seebe             | 44 | 180       | (1.52%)  |
| GN1        | Genesee #1  | Lake Wabamun      | 40 | 525       | 1.83%    |
| GN2        | Genesee #2  | Lake Wabamun      | 40 | 525       | 2.33%    |
| GN3        | Genesee #3  | Lake Wabamun      | 40 | 525       | 1.68%    |
| GPEC       | Grande Prairie EcoPower                           | Grande Prairie    | 20 | 1101      | (0.48%)  |
| GRZ1       | Wild Run Grizzly Bear Wind (708S)                 | Lloydminster      | 13 | 1308      | 4.01%    |
| GWW1       | Soderglen Wind Facility                           | Fort Macleod      | 53 | 358       | 6.99%    |
| HAL1       | Halkirk Wind Facility                             | Hanna             | 42 | 1435      | 4.82%    |
| HHW1       | BER Hand Hills MPC Wind (572S)                    | Hanna             | 42 | 549045    | 8.04%    |
| HLD1       | Hilda Wind Facility                               | Empress           | 48 | 540004    | 6.54%    |
| HRM        | H. R. Milner                                      | Grande Cache      | 22 | 1147      | 3.16%    |
| HRT1       | Heartland Petrochemical Complex Industrial System | Fort Saskatchewan | 33 | —         | 1.29%    |
| HSH        | Horseshoe Hydro Facility                          | Seebe             | 44 | 171       | (2.08%)  |
| IEW1       | Summerview 1 Wind Facility                        | Fort Macleod      | 53 | 336       | 7.84%    |
| IEW2       | Summerview 2 Wind Facility                        | Fort Macleod      | 53 | 336       | 8.28%    |
| INT        | Interlakes Hydro Facility                         | Seebe             | 44 | 376       | 2.56%    |
| IOR1       | Cold Lake Industrial System                       | Cold Lake         | 28 | 1303      | 1.21%    |
| IOR3       | Kearl Oil Sands Industrial System                 | Fort McMurray     | 25 | 1610      | 5.04%    |
| IOR4       | Strathcona Refinery Industrial System             | Edmonton          | 60 | 3069,4066 | 1.37%    |
| JNR2       | Joss Jenner WAGF - Phase 2 (306S)                 | Medicine Hat      | 4  | —         | 9.45%    |
| JNR3       | Jenner Wind Phase 3 (306S)                        | Medicine Hat      | 4  | —         | 6.35%    |
| KAN        | Kananaskis Hydro Facility                         | Seebe             | 44 | 193       | (1.71%)  |
| KH2        | Keephills #2                                      | Lake Wabamun      | 40 | 420       | 2.08%    |
| KH3        | Keephills #3                                      | Lake Wabamun      | 40 | 510       | 2.02%    |
| KHW1       | Kettles Hill Wind Facility                        | Fort Macleod      | 53 | 402       | 7.37%    |
| LAN1       | Pattern Lanfine North Wind (601S)                 | Hanna             | 42 | —         | 5.41%    |
| MEG1       | MEG Christina Lake Industrial System              | Fort McMurray     | 25 | 405       | 2.76%    |
| MKR1       | Muskeg River Industrial System                    | Fort McMurray     | 25 | 1236      | 4.57%    |
| MKRC       | MacKay River Industrial System                    | Fort McMurray     | 25 | 1274      | 3.96%    |
| NEP1       | Ghost Pine Wind Facility                          | Hanna             | 42 | 603       | 4.75%    |
| NOVAGEN15M | Joffre Industrial System                          | Red Deer          | 35 | 383       | (0.14%)  |
| NPP1       | Northern Prairie Power Project                    | Grande Prairie    | 20 | 1118      | (11.02%) |
| NRG3       | NRGreen   | Swan Hills        | 26 | 1674      | (2.65%)  |

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|                |   |                   |    |       |         |
|----------------|---|-------------------|----|-------|---------|
| NX01           | Nexen Balzac                                      | Calgary           | 6  | 198   | 0.26%   |
| NX02           | Nexen Long Lake Industrial System                 | Fort McMurray     | 25 | 1241  | 4.29%   |
| OMRH           | Oldman River Hydro Facility                       | Fort Macleod      | 53 | 230   | 4.13%   |
| OWF1           | Oldman 2 Wind Facility                            | Fort Macleod      | 53 | 543   | 7.71%   |
| PH1            | Poplar Hill #1                                    | Grande Prairie    | 20 | 1118  | (7.64%) |
| PMB1           | West Pembina                                      | Drayton Valley    | 30 | 4215  | (9.03%) |
| POC            | Pocaterra Hydro Facility                          | Seebe             | 44 | 329   | 1.09%   |
| PR1            | Primrose Industrial System                        | Cold Lake         | 28 | 800   | 2.23%   |
| Proj_1533      | Joss MPC WAGF (306S)                              | Empress           | 48 | —     | 9.18%   |
| Proj_1567      | EDPR Sharp Hills Wind Farm (363S)                 | Hanna             | 42 | —     | 7.57%   |
| Proj_1704_2562 | Paintearth Wind Power (973S)                      | Hanna             | 42 | —     | 7.99%   |
| Proj_1719      | Stirling WAGF Project (967S)                      | Lethbridge        | 54 | —     | 10.61%  |
| Proj_1853      | Fortis Buffalo Atlee Cluster 1 WAGF (275S)        | Empress           | 48 | —     | 7.42%   |
| Proj_1892      | Fortis Buffalo Atlee Cluster 3 WAGF DER (275s)    | Empress           | 48 | —     | 6.04%   |
| Proj_2032      | Cascade Combined Cycle (1047S)                    | Hinton/Edson      | 29 | —     | 0.36%   |
| Proj_2059      | ATCO Three Hills 770S DER Solar 1 (770S)          | Hanna             | 42 | —     | 6.47%   |
| Proj_2195      | FortisAlberta Bassano 435S DER Solar (435S)       | Brooks            | 47 | —     | 12.00%  |
| Proj_2199      | FortisAlberta Buffalo Atlee Cluster 2 (275S)      | Empress           | 48 | —     | 8.64%   |
| Proj_2216      | FortisAlberta Chappice Lake 649S DER Solar (649S) | Medicine Hat      | 4  | —     | 7.23%   |
| Proj_2237      | RESC Forty Mile MPC Wind                          | Medicine Hat      | 4  | —     | 12.00%  |
| Proj_2249_2250 | FortisAlberta Reversing POD - Empress (394S)      | Empress           | 48 | —     | 6.35%   |
| Proj_2314_2315 | FortisAlberta Joffre 535S DER Solar (535S)        | Red Deer          | 35 | —     | 0.89%   |
| Proj_2334      | Saddlebrook Solar and Storage                     | High River        | 46 | —     | 3.22%   |
| Proj_2346      | ATCO Vilna 777S DER Solar (777S)                  | Vegreville        | 56 | —     | (3.60%) |
| Proj_2348      | BluEarth Wheatcrest MPC Solar                     | Vauxhall          | 52 | —     | 7.15%   |
| Proj_2361      | ATCO Youngstown 772S DER Solar                    | Hanna             | 42 | —     | 3.37%   |
| Proj_2412      | Fortis Buffalo Atlee Cluster 4 DER Wind           | Empress           | 48 | —     | 5.98%   |
| Proj_2424      | ATCO Oyen 767S DER Solar                          | Hanna             | 42 | —     | 9.21%   |
| Proj_2452      | ATCO Poplar Hill 790S DER Gas                     | Grande Prairie    | 20 | —     | 2.69%   |
| Proj_693       | Wild Rose 2 Wind Farm (547S)                      | Medicine Hat      | 4  | —     | 12.00%  |
| RB5            | Rainbow #5  | Rainbow Lake      | 17 | 83    | (2.57%) |
| RIV1           | Riverview Wind Facility                           | Fort Macleod      | 53 | 69221 | 7.21%   |
| RTL1           | Rattlesnake Ridge Wind Facility                   | Medicine Hat      | 4  | —     | 10.27%  |
| RUN            | Rundle Hydro Facility                             | Seebe             | 44 | 195   | (2.59%) |
| RYMD           | Raymond Reservoir Hydro Facility                  | Glenwood          | 55 | 413   | 6.77%   |
| S09N           | ENMAX Reversing POD - 9 Substation (SS-9)         | Calgary           | 6  | 4277  | (3.69%) |
| S15N           | ENMAX Reversing POD - 15 Substation (SS-15)*      | Calgary           | 6  | —     | 2.52%   |
| S20N           | ENMAX Reversing POD - 20 Substation (SS-20)*      | Calgary           | 6  | —     | 2.52%   |
| S24N           | ENMAX Reversing POD - 24 Substation (SS-24)       | Calgary           | 6  | —     | 0.18%   |
| SCL1           | Syncrude Industrial System                        | Fort McMurray     | 25 | 1200  | 5.87%   |
| SCR1           | Suncor Industrial System                          | Fort McMurray     | 25 | 1200  | 3.66%   |
| SCR2           | Magrath Wind Facility                             | Glenwood          | 55 | 251   | 6.71%   |
| SCR3           | Chin Chute Wind Facility                          | Lethbridge        | 54 | 389   | 7.85%   |
| SCR4           | Wintering Hills Wind Facility                     | Sheerness         | 43 | 759   | 10.42%  |
| SC TG          | Scotford Industrial System                        | Fort Saskatchewan | 33 | 43    | 1.60%   |
| SD6            | Sundance #6                                       | Lake Wabamun      | 40 | 135   | (0.10%) |
| SET1           | South Edmonton Terminal                           | Edmonton          | 60 | 3436  | 0.12%   |
| SH1            | Sheerness #1                                      | Sheerness         | 43 | 1481  | 4.50%   |
| SH2            | Sheerness #2                                      | Sheerness         | 43 | 1486  | 4.24%   |
| SHCG           | Shell Caroline                                    | Caroline          | 38 | 370   | (1.67%) |
| SLP1           | Slave Lake Pulp                                   | High Prairie      | 21 | 1230  | (4.06%) |
| SPR            | Spray Hydro Facility                              | Seebe             | 44 | 310   | (2.03%) |
| SUM1           | Summerview Energy Storage Facility                | Fort Macleod      | 53 | 336   | 2.52%   |
| TAB1           | Taber Wind Facility                               | Vauxhall          | 52 | 343   | 9.11%   |
| TAY1           | Taylor Hydro Facility                             | Glenwood          | 55 | 693   | 5.04%   |
| TC01           | Carseland Industrial System                       | Strathmore        | 45 | 5251  | 2.26%   |
| TC02           | Redwater Industrial System                        | Fort Saskatchewan | 33 | 50    | 0.97%   |
| THS            | Three Sisters Hydro Plant                         | Seebe             | 44 | 379   | 2.52%   |
| TVS1           | Travers Solar Facility                            | Stavely           | 49 | —     | 5.53%   |
| VVW1           | Valleyview #1                                     | Valleyview        | 23 | 1172  | (1.37%) |
| VVW2           | Valleyview #2                                     | Valleyview        | 23 | 1172  | (0.87%) |
| WEY1           | Weyerhaeuser                                      | Grande Prairie    | 20 | 1140  | 0.52%   |
| WHE1           | Wheatland WAGF Project (981S)                     | Sheerness         | 43 | —     | 10.36%  |
| WHT1           | Whitla Wind Facility                              | Medicine Hat      | 4  | 60990 | 9.87%   |
| WHT2           | Whitla Phase 2 Wind Facility                      | Medicine Hat      | 4  | 60990 | 9.31%   |
| WRW1           | Windrise Wind Facility                            | Fort Macleod      | 53 | —     | 5.85%   |

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|---------|--|------------------------|----|-------|---------|
| WST1    | Westlock Power Plant                   | Athabasca/Lac La Biche | 27 | 14    | (1.15%) |
| BCHEXP  | Alberta-BC Interite - Export           | WSCC                   | 15 | 1520  | 0.69%   |
| BCHIMP  | Alberta-BC Interite - Import           | WSCC                   | 15 | 1520  | 2.56%   |
| MTEXP   | Alberta-Montana Intertie - Export      | Glenwood               | 55 | 80000 | —       |
| 120SIMP | Alberta-Montana Intertie - Import      | Glenwood               | 55 | 80000 | 5.61%   |
| SPCEXP  | Alberta-Saskatchewan Intertie - Export | Empress                | 48 | 1473  | 2.29%   |
| SPCIMP  | Alberta-Saskatchewan Intertie - Import | Empress                | 48 | 1473  | 6.03%   |

(\*) When 2023 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.