



November 03, 2009

Re: ***Changes to 2009 Loss Factors Due to Unexpected Additions of Loss Factor Customers***

This letter is the second loss factor update in 2009. The updated loss factors show changes due to new and unexpected generation connecting to the AIES. The original update for changed loss factors was posted on September 30, 2009.

Clover Bar 3, a new generator mentioned in the previous posting, has an STS contract effective from October 01, 2009. The AESO has calculated the loss factor for Clover Bar 3. The addition of Clover Bar 3 has changed several loss factors by more than 0.25%, the threshold outlined in the AESO Loss Factor Rule. The revised loss factors will be effective from October 01, 2009 to December 31, 2009 as per AESO Rule 9.2.2.b.

The Summerview wind generation in-service date was updated in September 2009 to November 1, 2009. The AESO has since learned the generator will not be connected until Q1 2010, and hence the changes will not be included in this update.

In Appendix 1, the loss factor changes due to the Clover Bar 3 addition are highlighted. The remaining loss factors remain unchanged.

Please call Robert Baker (403 539 2614) or email [lossfactor@aeso.ca](mailto:lossfactor@aeso.ca) with any questions you may have.

Yours truly,

*"Originally Signed by"*

Robert Baker, P.Eng.

cc: Ashikur Bhuiya, P.Eng.

## Appendix 1: Summary of Changes and Updated Loss Factors (2009) Due to Loss Factor Customer Additions (Clover Bar 3)



**2009 Alberta Loss Factors - 2009-11-02, Final, Revision 1**

| MP-ID*           | Facility Name                        | PSS/E Bus | Normalized and Compressed Loss Factor (%) | Loss Factor Asset | Difference % in Loss Factor to System Average |
|------------------|--------------------------------------|-----------|---|-------------------|---|
| 0000034911       | ALTAGAS PARKLAND                     | 4235      | -0.91                                     | Gen               | -5.33   |
| 0000016301       | Amoco Empress (163S)                 | 262       | 0.88                                      | DOS               | -3.67   |
| 0000079301       | ANG Cochrane (793S)                  | 191       | 3.66                                      | DOS               | -0.89   |
| NX01             | BALZAC                               | 290       | -0.40                                     | Gen               | -4.95   |
| BAR              | BARRIER                              | 216       | -1.46                                     | Gen               | -6.01   |
| BR3              | BATTLE RIVER #3                      | 1491      | 5.07                                      | Gen               | 0.52  |
| BR4              | BATTLE RIVER #4                      | 1491      | 5.07                                      | Gen               | 0.52  |
| BR5              | BATTLE RIVER #5                      | 1469      | 4.16                                      | Gen               | -0.39   |
| BCHIMP           | BCH - Import                         | 56765     | -0.83                                     | Imp               | -5.38   |
| BCRK             | BEAR CREEK G1                        | 10142     | -1.43                                     | Gen               | -5.98   |
| BCR2             | BEAR CREEK G2                        | 10142     | -1.43                                     | Gen               | -5.98   |
| BPW              | BEARSPAW                             | 183       | -1.37                                     | Gen               | -5.92   |
| BLYR             | BELLY RIVER IPP                      | 447       | 0.00                                      | Gen               | -4.55   |
| BIG              | BIGHORN                              | 103       | 2.49                                      | Gen               | -2.06   |
| BTR1             | BLUE TRAIL WIND FARM                 | 328       | 0.70                                      | Gen               | -3.85   |
| BRA              | BRAZEAU                              | 56153     | 2.07                                      | Gen               | -2.48   |
| GOC1             | BRIDGE CREEK                         | 19145     | 0.00                                      | Gen               | -4.55   |
| 0000045411       | BUCK LAKE                            | 80        | 2.32                                      | Gen               | -2.23   |
| CES1             | CALPINE CTG                          | 187       | -0.33                                     | Gen               | -4.88   |
| CES2             | CALPINE STG                          | 187       | -0.33                                     | Gen               | -4.88   |
| TC01             | CARSELAND                            | 5251      | -0.54                                     | Gen               | -5.09   |
| CNR5             | CNRL HORIZON                         | 1263      | 6.56                                      | Gen               | 2.01  |
| CAS              | CASCADE                              | 175       | -2.22                                     | Gen               | -6.77   |
| CR1              | CASTLE RIVER                         | 234       | 1.70                                      | Gen               | -2.85   |
| EC01             | CAVAILIER                            | 247       | -0.43                                     | Gen               | -4.98   |
| CHIN             | CHIN CHUTE                           | 406       | 0.00                                      | Gen               | -4.55   |
| CMH1             | CITY OF MEDICINE HAT                 | 680       | -0.32                                     | Gen               | -4.87   |
| ENC1             | CLOVER BAR PEAKER (STAGE 1 - LM6000) | 516       | 4.19                                      | Gen               | -0.36   |
| ENC2             | CLOVER BAR PEAKER (STAGE 2 - LM6000) | 516       | 4.19                                      | Gen               | -0.36   |
| ENC3             | CLOVER BAR PEAKER (STAGE 2 - LM6000) | 516       | 4.36                                      | Gen               | 0.64  |
| CRE1             | COWLEY EXPANSION 1                   | 264       | 3.83                                      | Gen               | -0.72   |
| CRE2             | COWLEY EXPANSION 2                   | 264       | 3.83                                      | Gen               | -0.72   |
| CRE3             | COWLEY NORTH                         | 264       | 3.83                                      | Gen               | -0.72   |
| PKNE             | COWLEY RIDGE WIND POWER PHASE1       | 264       | 3.83                                      | Gen               | -0.72   |
| CRWD             | COWLEY RIDGE WIND POWER PHASE2       | 264       | 3.83                                      | Gen               | -0.72   |
| Project692 1 SUP | Dapp Power Westlock Expansion        | 99921     | 4.66                                      | Gen               | 0.11  |
| DAI1             | DIASHOWA                             | 1088      | -2.03                                     | Gen               | -6.58   |
| DKSN             | DICKSON DAM 1                        | 4006      | 0.00                                      | Gen               | -4.55   |
| DOWGEN15M        | DOW GTG                              | 61        | 3.96                                      | Gen               | -0.59   |
| DV1              | DRAYTON VALLEY PL IPP                | 4332      | 0.00                                      | Gen               | -4.55   |
| DRW1             | DRYWOOD 1                            | 4226      | 1.27                                      | Gen               | -3.28   |
| Project730 1 SUP | ENMAX Crossfield Energy Centre       | 503       | 0.79                                      | Gen               | -3.76   |
| FNG1             | FORT NELSON                          | 1016      | 7.27                                      | Gen               | 2.99  |
| EC04             | FOSTER CREEK G1                      | 1301      | 7.04                                      | Gen               | 2.49  |
| 000001511        | FT MACLEOD                           | 4237      | 0.72                                      | Gen               | -3.83   |
| GN1              | GENESEE 1                            | 525       | 5.72                                      | Gen               | 1.17  |
| GN2              | GENESEE 2                            | 525       | 5.72                                      | Gen               | 1.17  |
| GN3              | GENESEE 3                            | 525       | 5.72                                      | Gen               | 1.17  |
| GHO              | GHOST                                | 180       | -1.53                                     | Gen               | -6.08   |
| 0000022911       | GLENWOOD                             | 4245      | 0.45                                      | Gen               | -4.10   |
| GPEC             | GRANDE PRAIRIE ECOPOWER CENTRE       | 1101      | -1.88                                     | Gen               | -6.43   |
| HSH              | HORSESHOE                            | 171       | -1.48                                     | Gen               | -6.03   |
| HRM              | HR MILNER                            | 1147      | 2.34                                      | Gen               | -2.21   |
| INT              | INTERLAKES                           | 376       | -1.06                                     | Gen               | -5.61   |

|                  |                                      |       |       |     |       |
|------------------|--------------------------------------|-------|-------|-----|-------|
| KAN              | KANANASKIS                           | 193   | -1.37 | Gen | -5.92 |
| KH1              | KEEPPHILLS #1                        | 420   | 5.72  | Gen | 1.17  |
| KH2              | KEEPPHILLS #2                        | 420   | 5.72  | Gen | 1.17  |
| KHW1             | KETTLES HILL WIND ENERGY PHASE 2     | 402   | 1.84  | Gen | -2.71 |
| IOR1             | MAHKESES, COLD LAKE                  | 56789 | 4.68  | Gen | 0.13  |
| MATLIMP          | MATLIMP                              | 451   | 0.68  | Imp | -3.87 |
| Project703 1 SUP | Maxim Power Deerland Peaking Station | 432   | 4.08  | Gen | -0.47 |
| AKE1             | McBRIDE                              | 901   | 1.39  | Gen | -3.16 |
| MKRC             | McKAY RIVER                          | 1274  | 6.59  | Gen | 2.04  |
| ProjectISD762SUP | Meg Energy                           | 405   | 6.06  | Gen | 1.51  |
| MKR1             | MUSKEG                               | 1236  | 6.75  | Gen | 2.20  |
| NX02             | NEXEN OPTI                           | 1241  | 6.85  | Gen | 2.30  |
| NPP1             | Northern Prairie Power Project       | 1120  | -4.79 | Gen | -9.34 |
| NPC1             | NORTHSTONE ELMWORTH                  | 19134 | -5.04 | Gen | -9.59 |
| NOVAGEN15M       | NOVA JOFFRE                          | 383   | 1.25  | Gen | -3.30 |
| OMRH             | OLDMAN                               | 230   | 2.09  | Gen | -2.46 |
| WEY1             | P&G WEYERHAUSER                      | 1141  | -3.01 | Gen | -7.56 |
| 0000039611       | PINCHER CREEK                        | 4224  | 1.82  | Gen | -2.73 |
| POC              | POCATERRA                            | 214   | -1.45 | Gen | -6.00 |
| PH1              | POPLAR HILL                          | 1118  | -4.81 | Gen | -9.36 |
| PR1              | PRIMROSE                             | 1302  | 5.46  | Gen | 0.91  |
| RB1              | RAINBOW 1                            | 1031  | 2.52  | Gen | -1.76 |
| RB2              | RAINBOW 2                            | 1032  | 2.73  | Gen | -1.82 |
| RB3              | RAINBOW 3                            | 1033  | 2.66  | Gen | -1.62 |
| RL1              | RAINBOW 4, RL1                       | 1035  | 2.98  | Gen | -1.29 |
| RB5              | RAINBOW 5                            | 1037  | 2.44  | Gen | -1.83 |
| RYMD             | RAYMOND RESERVOIR                    | 413   | 0.00  | Gen | -4.55 |
| TC02             | REDWATER                             | 50    | 4.15  | Gen | -0.40 |
| RG10             | ROSSDALE 10                          | 507   | 4.43  | Gen | -0.12 |
| RG8              | ROSSDALE 8                           | 507   | 4.43  | Gen | -0.12 |
| RG9              | ROSSDALE 9                           | 507   | 4.43  | Gen | -0.12 |
| RUN              | RUNDLE                               | 197   | -1.60 | Gen | -6.15 |
| SH1              | SHEERNESS #1                         | 1484  | 3.81  | Gen | -0.74 |
| SH2              | SHEERNESS #2                         | 1484  | 3.81  | Gen | -0.74 |
| SHCG             | SHELL CAROLINE 378S                  | 3370  | -0.72 | Gen | -5.27 |
| SCTG             | SHELL SCOTFORD                       | 43    | 4.35  | Gen | -0.20 |
| GWW1             | SODERGLEN                            | 358   | 1.72  | Gen | -2.83 |
| SPCIMP           | SPC - Import                         | 1473  | 1.35  | Imp | -3.20 |
| SPR              | SPRAY                                | 310   | -1.58 | Gen | -6.13 |
| 0000038511       | SPRING COULEE                        | 4246  | 0.36  | Gen | -4.19 |
| STMY             | ST MARY IPP                          | 3448  | 0.00  | Gen | -4.55 |
| 0000006711       | STIRLING                             | 4280  | 0.60  | Gen | -3.95 |
| ST1              | STURGEON 1                           | 1166  | -0.28 | Gen | -4.83 |
| ST2              | STURGEON 2                           | 1166  | -0.28 | Gen | -4.83 |
| IEW1             | SUMMERVIEW 1                         | 336   | 2.31  | Gen | -2.24 |
| SCR1             | SUNCOR                               | 1208  | 6.68  | Gen | 2.13  |
| SCR3             | SUNCOR HILLRIDGE WIND FARM           | 389   | -0.17 | Gen | -4.72 |
| SCR2             | SUNCOR MAGRATH                       | 251   | 0.54  | Gen | -4.01 |
| SD1              | SUNDANCE #1                          | 135   | 6.04  | Gen | 1.49  |
| SD2              | SUNDANCE #2                          | 135   | 6.04  | Gen | 1.49  |
| SD3              | SUNDANCE #3                          | 135   | 6.04  | Gen | 1.49  |
| SD4              | SUNDANCE #4                          | 135   | 6.04  | Gen | 1.49  |
| SD5              | SUNDANCE #5                          | 135   | 6.04  | Gen | 1.49  |
| SD6              | SUNDANCE #6                          | 135   | 6.04  | Gen | 1.49  |
| SCL1             | SYNCRUDE                             | 1205  | 6.71  | Gen | 2.16  |
| 341S025          | Syncrude Standby (848S)              | 1200  | -4.48 | DOS | -9.03 |
| TAB1             | TABER WIND                           | 343   | -0.71 | Gen | -5.26 |
| TAY1             | TAYLOR HYDRO                         | 670   | 1.68  | Gen | -2.87 |
| TAY2             | TAYLOR WIND PLANT                    | 670   | 1.68  | Gen | -2.87 |
| THS              | THREE SISTERS                        | 379   | -1.43 | Gen | -5.98 |
| VVW1             | VALLEYVIEW                           | 1171  | 0.80  | Gen | -3.75 |
| VVW2             | VALLEYVIEW # 2                       | 1172  | 0.77  | Gen | -3.78 |
| WB4              | WABAMUN #4                           | 133   | 5.73  | Gen | 1.18  |
| WTRN             | WATER IPP                            | 3449  | 0.00  | Gen | -4.55 |
| 0000040511       | WAUPISOO                             | 1417  | 2.44  | Gen | -2.11 |
| WST1             | WESGEN                               | 14    | 0.00  | Gen | -4.55 |
| EAGL             | WHITE COURT                          | 410   | 0.00  | Gen | -4.55 |

**Notes:**

\* MP-ID - point where loss factors assessed  
 For loss factors, "-" means credit, "+" means charge  
 Loss factors effective from October 01, 2009 to December 31 2009.  
 System Average Losses, %: 4.55  
 For more information, please visit [www.aeso.ca](http://www.aeso.ca)

Please note, further updates of loss factors at specific sites may occur following more system additions in 2009. Changes to loss factors are highlighted.