

October 21, 2009

Loss Factor Stakeholder Team

Re: <u>Draft Loss Factors for 2010</u>

The AESO has completed its preliminary calculation of 2010 loss factors and the draft results are attached. The analysis includes the application of the 2010 Generic Stacking Order (GSO) results published earlier this summer to the 2010 loss factor Base Cases published on October 14 2009 on the AESO web site. The draft loss factors are determined by applying our methodology to this information. The AESO is hosting a meeting on the 2010 draft loss factors on October 27, 2009 from 9:30-11:30 at the Metropolitan Center. The AESO will be posting the final 2010 loss factors on or before November 06, 2009.

In order to provide perspective on the draft values, the AESO offers the following:

Load treatment:

- As in previous years, in the 2010 loss factor calculation, only transmission loads were *unassigned*¹. Consistent with our methodology, these loads were not included in the loss factor calculation. Therefore the loss factors are based on generation less the behind the fence load levels at all relevant Generation Buses while maintaining the appropriate GSO level at the MPID bus.
- The load used in the base cases is consistent with the latest AESO long term load forecast (fc2009).

Overall results:

- The Rainbow area has less credit or more charges than in the 2009 Loss Factors. These results are primarily due to the addition of a 240 kV line between Brintnell-Wesley Creek In addition the flow out of Rainbow area has increased. The Rainbow area loss factors are historically sensitive to load and generation changes. A small deviation in the Rainbow Area net flow can result in a swing in the loss factors on the generators. The loss factor sensitivity in the area is consistent with previous years' findings.
- The South area receives less credit/ more charges compared to 2009. Higher generation and new generation projects have resulted in these changes to loss factors in 2010.
- The Lake Wabamun area loss factors are lower relative to the 2009 loss factors. The changes are primarily due to lower generation and higher load in the area.
- Sheerness and Battle River generation are higher and area loads are lower in most of the 2010 base cases and resulting in higher loss factors.
- The Fort McMurray area loss factors are lower [in general] in 2010 due to the new 240 kV Brintnell-Wesley Creek line even with higher generation dispatches occurring in the

- area. The higher dispatches have resulted in higher net flow out of the area in the cases but the additional transmission path to Edmonton helps to lower the losses.
- The AESO has included more rigorous voltage thresholds in the base case development than in previous years. Please refer to the loss factor web site for details.

Inter-Tie Losses

- Import loss factors in 2010 reflect the implementation of the 2007 Transmission Regulation.
- The settlement tie line losses are shown in Table 1

Table 1 - Tie Line Losses

Tie	Transaction Type	Loss Factor (%)	Average Loss Charge (%)	Settlement LF (%)
ВС	Import	0.19	0.90	1.09
ВС	Export	=	0.95	0.95
SK	Import	1.78	2.50	4.28
	Export	=	2.30	2.30
MATL	Import	1.26	-	1.26
	Export	=	1	=

Shift Factor:

• The preliminary shift factor for 2010 has been determined at 1.05%. The 2009 shift factor was 0.82%, representing a difference of 0.23%.

Weighting Factor:

• The AESO has applied unequal weighting factor to the raw loss factors based on historical load levels. Table 2 shows the seasonal weighting factors.

Table 2 – Seasonal Weighting Factors

	Winter		Spring		Summer		Fall	
	Duraion (Hr)	Weight						
High	150	6.9%	50	2.3%	100	4.5%	75	3.4%
Medium	1075	49.8%	1350	61.2%	1225	55.5%	1275	58.4%
Low	935	43.3%	807	36.6%	883	40.0%	835	38.2%

Generally, the 2010 loss factors reflect changes in the AIES as would be expected through normal generation, load and transmission changes and large generator maintenance schedules.

Please provide any comments on the draft 2010 loss factors in writing to lossfactor@aeso.ca by October 30, 2009.

Yours truly,

Robert Baker, P.Eng. Operations Forecasting, AESO

cc: Jeff Nish Doyle Sullivan Ashikur Bhuyia



2010 Alberta Loss Factors - 2009-10-22, Draft

MP-ID* Facility Name		2010 Alberta Loss Factors		Normalized and		Difference % in Loss	
Section Sect	MD ID+	Facility Name	DOO/E D		Loss Factor	Factor to System	
D0000018301 ALTAGAS PARKAND 4225 0.11 Gen	MP-ID*	Facility Name	PSS/E Bus	•	Asset		
0000016301 Amoco Empress (185S)					1.0001	Average	
						-4.31	
MACAGE SAPE						-3.90	
BARTER SAPRIER 216 -1.17 Gen						-0.98 -4.36	
BR1						-4.36 -5.59	
BR1						0.71	
BR5						0.71	
BEAR CREEK G1						-0.07	
BCAP2 BEAR CREEK G2						-6.32	
BLYR BIG BIGHORN BIG BIGHORN 103 2.00 Gen BITRI BLUE TRALE WIND FARM 228 1.81 Gen BIGHORN 3.20 Gen BITRI BLUE TRALE WIND FARM 328 1.81 Gen BRA BRAZEAU 56153 1.94 Gen GOCI BRIDGE CREEK 19145 0.00 Gen 1.000045411 BLOCE LAKE 80 2.86 Gen 1.000045411 BLOCE LAKE 80 2.86 Gen 1.001 CARSELAND 5.25 Gen 1.000045411 BLOCE LAKE 80 2.86 Gen 1.001 CARSELAND 5.25 Gen 1.001 CAVAILLER						-6.32	
BIGHORN	3PW	BEARSPAW	183	-0.74	Gen	-5.16	
BIRL BLUE TRAIL WIND FARM 328 1.81 Gen	BLYR	BELLY RIVER IPP	447	0.00	Gen	-4.42	
BRA						-2.42	
GOCT						-2.61	
D000049411 BUCK LAKE						-2.48	
TOOI						-4.42	
CAS CASCADE CASCADE CASTLE RIVER CASTLE						-1.56	
CASTLE RIVER						-4.39	
CAVAILLER						-6.30	
CHIN						-1.91 -4.60	
CMMH						-4.60 -4.42	
ENC1						-4.06	
ENC2						-0.26	
ENC3						-0.26	
CREE			516	4.16	Gen	-0.26	
CRE2	CNR5	CNRL HORIZON	1263	6.61	Gen	2.19	
CRES COWLEY NORTH 264 4.49 Gen Gen COWLEY RIDGE WIND POWER PHASE! 264 4.49 Gen CRWD COWLEY RIDGE WIND POWER PHASE! 264 4.49 Gen CRWD COWLEY RIDGE WIND POWER PHASE! 264 4.49 Gen CRWD COWLEY RIDGE WIND POWER PHASE! 264 4.49 Gen CRWD		COWLEY EXPANSION 1			Gen	0.07	
PKNE COWLEY RIDGE WIND POWER PHASE1 264 4.49 Gen						0.07	
CRWID COWLEY RIDGE WIND POWER PHASE2 264 4.49 Gen						0.07	
Project692_1_SUP						0.07	
DAISHOWA						0.07	
DKSN						-0.14 -4.80	
DOWGEN15M DOW GTG G1 4.01 Gen DRYTON VALLEY PL IPP 4332 0.00 Gen DRYTON VALLEY PL IPP 4332 0.00 Gen DRYTON VALLEY PL IPP 4332 0.00 Gen DRYWOOD 1 4226 1.74 Gen Gen GES EMMAX CALGARY ENERGY CENTRE CTG 187 0.13 Gen Gen GES GEN MAX CALGARY ENERGY CENTRE STG 187 0.13 Gen Gen GES GEN MAX CALGARY ENERGY CENTRE STG 187 0.13 Gen Gen GEN GES GEN						-4.60 -4.42	
DY1						-0.41	
DRW1						-4.42	
CES1 ENMAX CALGARY ENERGY CENTRE CTG 187 0.13 Gen CES2 ENMAX CALGARY ENERGY CENTRE STG 187 0.13 Gen FNG1 FORT NELSON 1016 9.85 Gen EC04 FOSTER CREEK G1 1301 6.33 Gen G000001511 FT MACLEOD 4237 0.94 Gen GN1 GENESEE 1 525 5.33 Gen GN2 GENESEE 2 525 5.33 Gen GN3 GENESEE 3 525 5.33 Gen GHO GHOST 180 -1.13 Gen GHO GHOST 180 -1.13 Gen GPEC GRANDE PRAIRIE ECOPOWER CENTRE 1101 -2.10 Gen GPEC GRANDE PRAIRIE ECOPOWER CENTRE 1101 -2.10 Gen HSH HORSESHOE 171 -1.09 Gen HSH HORSESHOE 171 -1.09 Gen NT INTERLAKES 376 -0.30 <td></td> <td></td> <td></td> <td></td> <td></td> <td>-2.68</td>						-2.68	
CES2 EMMAX CALGARY ENERGY CENTRE STG 187 0.13 Gen FNG1 FORT NELSON 1016 9.85 Gen EC04 FOSTER CREEK G1 1301 6.33 Gen 0000001511 FT MACLEOD 4237 0.94 Gen GN1 GENESEE 1 525 5.33 Gen GN2 GENESEE 2 525 5.33 Gen GN3 GENESEE 3 525 5.33 Gen GHO GHOST 180 -1.13 Gen 0000022911 GLENWOOD 4245 1.38 Gen 0000022911 GLENWOOD 4245 1.38 Gen GPEC GRANDE PRAIRIE ECOPOWER CENTRE 1101 -2.10 Gen FORJECT23 1 SUP GREENGATE HALKIRK WIND PROJECT 1435 5.64 Gen HSH HORSESHOE 171 -1.09 Gen INT INTERLAKES 376 -0.30 Gen INT INTERLAKES 376 -0.						-4.29	
FOSTER CREEK G1						-4.29	
O00001511	NG1	FORT NELSON	1016	9.85	Gen	5.43	
GN1 GENESEE 1 525 5.33 Gen GN2 GENESEE 2 525 5.33 Gen GN3 GENESEE 2 525 5.33 Gen GN3 GENESEE 3 525 5.33 Gen GN3 GENESEE 3 525 5.33 Gen GN4 GENESEE 3 GEN	EC04	FOSTER CREEK G1	1301	6.33	Gen	1.91	
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HSH						-6.52 1.22	
HRM						-5.51	
INT						-2.93	
KAN KANANASKIS 193 -1.02 Gen KH1 KEEPHILLS #1 420 5.36 Gen KH2 KEEPHILLS #2 420 5.36 Gen Project 500 1 KEEPHILLS #3 610 4.10 Gen KHW1 KETTLES HILL WIND ENERGY PHASE 2 402 2.57 Gen IOR1 MAHKESES COLD LAKE 56789 6.63 Gen AKE1 McBRIDE 901 1.91 Gen MKRC McKAY RIVER 1274 6.07 Gen MEG1 MEG ENERGY 405 5.33 Gen MKR1 MUSKEG 1236 6.44 Gen NX02 NEXEN OPTI 1241 5.62 Gen NPP1 NORTHERN PRAIRIE POWER PROJECT 1120 -4.37 Gen NPC1 NORTHSTONE ELMWORTH 19134 -4.39 Gen NOVAGEN15M NOVA JOFFRE 383 1.41 Gen Project519 1 SUP OLD MAN RIVER WIND FARM 543						-4.72	
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0000039611 PINCHER CREEK 4224 2.48 Gen -						-2.02	
						-1.94	
POC POCATERRA 214 -0.77 Gen -	200	POCATERRA	214	-0.77		-5.19	

MP-ID*	Facility Name	PSS/E Bus	Normalized and Compressed Loss Factor (%)	Loss Factor Asset	Difference % in Loss Factor to System Average
PH1	POPLAR HILL	1118	-4.77	Gen	-9.19
PR1	PRIMROSE	1302	5.18	Gen	0.76
RB1	RAINBOW 1	1031	5.36	Gen	0.94
RB2	RAINBOW 2	1032	5.39	Gen	0.97
RB3	RAINBOW 3	1033	5.50	Gen	1.08
RL1	RAINBOW 4	1035	5.76	Gen	1.34
RB5	RAINBOW 5	1037	5.32	Gen	0.90
RYMD	RAYMOND RESERVOIR	413	0.00	Gen	-4.42
TC02	REDWATER	50	3.95	Gen	-0.47
RUN	RUNDLE	56197	-1.31	Gen	-5.73
SH1	SHEERNESS #1	1484	4.03	Gen	-0.39
SH2	SHEERNESS #2	1484	4.03	Gen	-0.39
SHCG	SHELL CAROLINE	3370	-0.71	Gen	-5.13
SCTG	SHELL SCOTFORD	43	3.75	Gen	-0.67
GWW1	SODERGLEN	358	2.30	Gen	-2.12
SPR	SPRAY	310	-1.37	Gen	-5.79
0000038511	SPRING COULEE	4246	0.91	Gen	-3.51
STMY	ST MARY IPP	3448	0.00	Gen	-4.42
0000006711	STIRLING	4280	-0.06	Gen	-4.48
ST1	STURGEON 1	1166	0.17	Gen	-4.25
ST2	STURGEON 2	1166	0.17	Gen	-4.25
IEW1	SUMMERVIEW 1	336	3.34	Gen	-1.08
Project 393 2	SUMMERVIEW 2	336	3.34	Gen	-1.08
CRS1	SUMMIT CROSSFIELD ENERGY CENTRE	503	1.02	Gen	-3.40
CRS2	SUMMIT CROSSFIELD ENERGY CENTRE	503	1.02	Gen	-3.40
CRS3	SUMMIT CROSSFIELD ENERGY CENTRE	503	1.02	Gen	-3.40
SCR3	SUNCOR HILLRIDGE WIND FARM	389	0.33	Gen	-4.09
SCR2	SUNCOR MAGRATH	251	1.06	Gen	-3.36
SCR1	SUNCOR MILLENIUM	1208	6.21	Gen	1.79
SD1	SUNDANCE #1	135	5.79	Gen	1.37
SD2	SUNDANCE #2	135	5.79	Gen	1.37
SD3	SUNDANCE #3	135	5.79	Gen	1.37
SD4	SUNDANCE #4	135	5.79	Gen	1.37
SD5	SUNDANCE #5	135	5.79	Gen	1.37
SD6	SUNDANCE #6	135	5.79	Gen	1.37
SCL1	SYNCRUDE	1205	6.03	Gen	1.61
341S025	Syncrude Standby (848S)	1200	-3.80	DOS	-8.22
			-3.60 -0.10		
TAB1	TABER WIND	343		Gen	-4.52
TAY1 TAY2	TAYLOR HYDRO	670 670	1.68 1.68	Gen	-2.74 -2.74
THS	TAYLOR WIND PLANT	670 379	1.68 -1.21	Gen	
	THREE SISTERS			Gen	-5.63
VVW2	VALLEY VIEW 2	1172	0.65	Gen	-3.77
VVW1	VALLEYVIEW	1171	0.68	Gen	-3.74
WB4	WABAMUN #4	133	5.03	Gen	0.61
WTRN	WATER IPP	3449	0.00	Gen	-4.42
0000040511	WAUPISOO	2417	2.46	Gen	-1.96
WST1	WESGEN	14	0.00	Gen	-4.42
EAGL	WHITE COURT	410	0.00	Gen	-4.42

Notes:

* MP-ID - point where loss factors assessed
For loss factors, "-" means credit, "+" means charge
Loss factors effective from January 01, 2010 to December 31 2010.
System Average Losses, %: 4.42
For more information, please visit www.aeso.ca