

2007 Alberta Loss Factors Compared to 2009 Possible Treatment. 2007-06-18, DRAFT

MP-ID*	Facility Name	Normalized and Compressed Loss Factor, A (%)	New T-REG	Diff in LF (%)
			Normalized and Compressed Loss Factor, B (%)	New T-Reg (B) - 2007 Original LF (A)
NX01	BALZAC	0.77	0.98	0.22
BAR	BARRIER	0.20	0.31	0.11
BR3	BATTLE RIVER #3	6.54	6.94	0.40
BR4	BATTLE RIVER #4	6.54	6.94	0.40
BR5	BATTLE RIVER #5	5.68	6.10	0.42
BCRK	BEAR CREEK G1	-3.96	-4.47	-0.51
BCR2	BEAR CREEK G2	-3.96	-4.47	-0.51
BPW	BEARSPAW	0.21	0.37	0.16
BIG	BIGHORN	3.00	3.02	0.03
BRA	BRAZEAU	3.82	3.85	0.04
0000045411	BUCK LAKE	4.32		
CES1	CALPINE CTG	0.87	1.10	0.22
CES2	CALPINE STG	0.87	1.10	0.22
TC01	CARSELAND	0.99	1.24	0.25
CAS	CASCADE	-0.43	-0.29	0.14
CR1	CASTLE RIVER	2.98	3.36	0.38
EC01	CAVAILIER	0.83	1.09	0.26
CMH1	CITY OF MEDICINE HAT	-0.19	-0.64	0.83
CRE1	COWLEY EXPANSION 1	4.84	5.21	0.38
CRE2	COWLEY EXPANSION 2	4.84	5.21	0.38
CRE3	COWLEY NORTH	4.84	5.21	0.38
PKNE	COWLEY RIDGE WIND POWER PHASE1	4.84	5.21	0.38
CRWD	COWLEY RIDGE WIND POWER PHASE2	4.84	5.21	0.38
DA1	DIASHOWA	-2.53	-4.00	-0.47
DOWGEN1HR	DOW GTG	3.66	3.49	-0.17
DRW1	DRYWOOD 1	2.25	2.50	0.25
FNG1	FORT NELSON	0.46	-0.34	-0.79
EC04	FOSTER CREEK G1	7.13	6.93	-0.20
GN1	GENESEE 1	6.86	6.80	-0.06
GN2	GENESEE 2	6.86	6.80	-0.06
GN3	GENESEE 3	6.86	6.80	-0.06
GHO	GHOST	0.18	0.25	0.06
0000022911	GLENWOOD	2.47	2.89	0.41
GPEC	GRANDE PRAIRIE ECOPOWER CENTRE	-4.30	-4.83	-0.52
HSR	HORSESHOE	0.17	0.29	0.12
HRM	HR MILNER	-0.83	-1.34	-0.51
INT	INTERLAKES	0.49	0.71	0.22
KAN	KANANASKIS	0.24	0.35	0.11
KH1	KEEPPHILLS #1	6.73	6.68	-0.05
KH2	KEEPPHILLS #2	6.73	6.68	-0.05
KHW1	KETTLES HILL WIND ENERGY PHASE 2	3.02	3.39	0.37
IOR1	MAHKESES, COLD LAKE	7.29	7.10	-0.19
AKE1	McBRIDE	2.50	2.85	0.35
MKRC	McKAY RIVER	4.59	4.33	-0.26
MKR1	MUSKEG	4.77	4.49	-0.27
Project 432_1	NEXEN OPTI	5.16	4.90	-0.26
NPC1*	NORTHSTONE ELMWORTH	-5.20	-8.12	-2.92
NOVAGEN15M	NOVA JOFFRE	2.50	2.57	0.07
OMRH	OLDMAN	3.48	3.82	0.33
WEY1	P&G WEYERHAUSER	-4.36	-4.85	-0.49
0000039611	PINCHER CREEK	3.26	3.66	0.40
0000035311	PLAMONDON	1.88	1.67	-0.20
POC	POCATERRA	0.02	0.22	0.20
PH1*	POPLAR HILL	-5.20	-8.54	-3.35
PR1	PRIMROSE	5.60	5.41	-0.19
RB1	RAINBOW 1	-2.35	-2.85	-0.50
RB2	RAINBOW 2	-1.73	-2.53	-0.80
RB3	RAINBOW 3	-2.32	-2.83	-0.50
RL1	RAINBOW 4, RL1	-1.45	-2.25	-0.80
RB5	RAINBOW 5	-1.73	-2.50	-0.78
TC02	REDWATER	3.98	3.82	-0.16
RG10	ROSSDALE 10	4.62	4.53	-0.10
RG8	ROSSDALE 8	4.62	4.53	-0.10
RG9	ROSSDALE 9	4.62	4.53	-0.10
RUN	RUNDLE	0.16	0.26	0.10
SH1	SHEERNESS #1	4.91	5.68	0.77
SH2	SHEERNESS #2	4.91	5.68	0.77
SCTG	SHELL SCOTFORD	3.89	3.71	-0.18
GWWW1	SODERGLEN	2.67	3.02	0.35
SPR	SPRAY	0.18	0.27	0.10
0000038511	SPRING COULEE	2.57	3.07	0.50
0000006711	STIRLING	1.73	2.15	0.41
ST1	STURGEON 1	-0.93	-1.31	-0.38
ST2	STURGEON 2	-0.93	-1.31	-0.38
IEW1	SUMMERVIEW 1	3.63	4.01	0.37
SCR1	SUNCOR	4.52	4.25	-0.27
SCR3	SUNCOR HILLRIDGE WIND FARM	0.85	1.33	0.48
SCR2	SUNCOR MAGRATH	1.72	2.15	0.42
SD1	SUNDANCE #1	6.30	6.18	-0.12
SD2	SUNDANCE #2	6.30	6.18	-0.12
SD3	SUNDANCE #3	6.30	6.18	-0.12
SD4	SUNDANCE #4	6.30	6.18	-0.12
SD5	SUNDANCE #5	6.30	6.18	-0.12
SD6	SUNDANCE #6	6.30	6.18	-0.12
SCL1	SYNCRUDE	4.98	4.68	-0.28
TAB1	TABER WIND	0.52	1.04	0.53
TAY1	TAYLOR HYDRO	2.65	3.07	0.42
TAY2	TAYLOR WIND PLANT	2.65	3.07	0.42
THS	THREE SISTERS	0.80	0.87	0.06
VVW1	VALLEYVIEW	-0.43	-0.81	-0.38
WB4	WABAMUN #4	5.99	5.86	-0.13
BCH - Export	BCH - Export	3.19		

BCH - Import	BCH - Import	0.78	1.34	0.56
SPC - Export	SPC - Export	4.13		
SPC - Import	SPC - Import	1.44	2.76	1.31
MATL - Export	MATL - Export	2.10		
MATL - Import	MATL - Import	1.02	1.97	0.94
0000016301	Amoco Empress (163S)	2.22	-2.68	-4.89
DOWLOD15M	DOW Ft Saskatchewan ISD	-2.74	-3.84	-1.11
0000079301	ANG Cochrane (793S)	5.52	0.01	-5.51
341S025	Syncrude Standby (848S)	-3.40	-4.17	-0.77
BC Import at Langdon	Estimate based on new T-Reg		0.97	

Notes:

- The loss factor recalculation for 2007, above, are an estimate based on an assessment of the 2007 Transmission Regulation. Further refinements will occur.
- To ensure an accurate assessment of inter-tie modeling is included, more information is being gathered on existing tie lines. Tie flows are included in the cases
- Normalized and compressed loss factors are from "2007 Alberta Loss Factors. 2006-11-23, Final, Revision 1" and are used for comparison to a possible 2009 loss factor treatment on 2007 loss factor base base cases.
- Average losses 5.3% (export not paying for losses through the loss factor), shift factor is 1.37%
- The new T-REG LFs (B) are derived from 2007 modified cases. Weighing is applied on both sets of results
- The 2007 cases are modified by scaling the AIES load to incorporate the net tie flow (Import in 10 out of 12 cases).
- the base cases includes losses in the BC tie path.
- Annual loss forecast used in the LF calculation includes losses in the BC tie path.
- AIES loads are scaled up in the base cases to incorporate the specified import amount.

General Observation -

- The import from BC and load increase in the generation deficient areas cause the LF to increase e.g. Calgary, Southern Alberta.
- Load increase in generation surplus area causes the LF to decrease e.g. Wab, FMM area.
- Changes in Tie and DOS LF arise mainly from the change of LF calculation methodology and base case load changes mentioned above.
- * - represents units that used to have compression applied to the loss factor (clipped and normalized) in the 2007 original calculation. These units are not clipped in the new T-Reg calculation.

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