

December 19, 2014

Dear Loss Factor Stakeholders,

Re: **2015 Recalculated Loss Factors**

Attached is an updated calculation of the 2015 Loss Factors originally posted on the AESO website on November 7, 2014.

http://www.aeso.ca/downloads/2015_Loss_Factor_Final_Posting.pdf

The updated 2015 Loss Factors calculation includes the addition of 2 small facilities with that were inadvertently missed in the original calculations. Please note that the loss factor of some facilities have changed by -0.01%.

The final loss factors values are shown in Appendix 1 and 2.

Yours truly,

John Kehler
Senior Technical Advisor

cc: Han Yu

Prepared For:

Alberta Electric System Operator

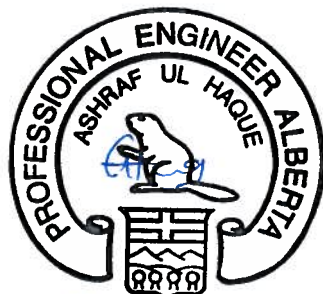
Updated 2015 Loss Factors

Prepared by:

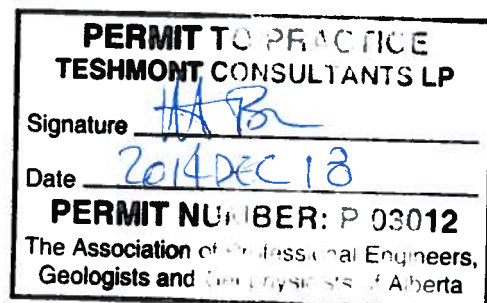
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2014 December 18



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Appendix 1 – Updated 2015 Final Loss Factors

MP-ID*	Facility Name	PSS/E Bus	Normalized and Compressed Loss Factor (%)	Loss Factor Asset	Difference % in Loss Factor to System Average
0000001511	FT MACLEOD	4237	1.32	Gen	-2.35
0000006711	STIRLING	4280	2.87	Gen	-0.80
0000022911	GLENWOOD	4245	1.42	Gen	-2.25
0000025611	HARMATTAN GAS PLANT DG	4124	1.65	Gen	-2.01
0000034911	ALTAGAS PARKLAND	4235	0.89	Gen	-2.77
0000038511	SPRING COULEE	4246	2.56	Gen	-1.11
0000039611	PINCHER CREEK	4224	3.18	Gen	-0.48
0000045411	BUCK LAKE	4080	2.48	Gen	-1.18
0000065911	FORTIS GENALTA CARSON CREEK GENERATOR	4325	1.47	Gen	-2.20
AFG1TX	FORTISALBERTA AL-PAC PULP MILL	2392	0.01	Gen	-3.66
AKE1	MCBRIDE	901	3.28	Gen	-0.39
ANC1	FORTIS ANC (ALBERTA NEWSPRINT COMPANY) -	298	2.75	Gen	-0.92
ARD1	TRANSALTA ARDENVILLE WIND FARM	739	4.14	Gen	0.48
BAR	BARRIER	216	2.59	Gen	-1.07
BCR2	BEAR CREEK G2	10142	-3.93	Gen	-7.60
BCRK	BEAR CREEK G1	10142	-3.93	Gen	-7.60
BIG	BIGHORN	103	4.34	Gen	0.67
BPW	BEARSPAW	183	0.80	Gen	-2.87
BR3	BATTLE RIVER #3	1491	5.01	Gen	1.34
BR4	BATTLE RIVER #4	1491	5.01	Gen	1.34
BR5	BATTLE RIVER #5	1469	4.71	Gen	1.04
BRA	BRAZEAU	56153	2.65	Gen	-1.02
BSR1	BLACKSPRING RIDGE I WIND PROJECT	736	3.64	Gen	-0.03
BTR1	BLUE TRAIL WIND FARM	328	3.88	Gen	0.21
CAS	CASCADE	175	-0.37	Gen	-4.04
CES1	ENMAX CALGARY ENERGY CENTRE CTG	187	1.39	Gen	-2.28
CES2	ENMAX CALGARY ENERGY CENTRE STG	187	1.39	Gen	-2.28
CHIN	CHIN CHUTE	406	3.48	Gen	-0.19
CMH1	CITY OF MEDICINE HAT	680	2.05	Gen	-1.62
CNR5	CNRL HORIZON	1263	2.07	Gen	-1.60
CR1	CASTLE RIVER	234	3.11	Gen	-0.55
CRE1	COWLEY EXPANSION 1	264	4.19	Gen	0.52
CRE2	COWLEY EXPANSION 2	264	4.19	Gen	0.52
CRE3	COWLEY NORTH	264	4.19	Gen	0.52
CRR1	ENEL ALBERTA CASTLE ROCK WIND FARM	221	3.30	Gen	-0.37
CRS1	ENMAX CROSSFIELD ENERGY CENTER	503	1.69	Gen	-1.97
CRS2	ENMAX CROSSFIELD ENERGY CENTER	503	1.69	Gen	-1.97
CRS3	ENMAX CROSSFIELD ENERGY CENTER	503	1.69	Gen	-1.97
CRWD	COWLEY RIDGE WIND POWER PHASE2	264	4.19	Gen	0.52
DAI1	DIASHOWA	1088	-1.84	Gen	-5.51
DOWGEN15M	DOW GTG	61	2.37	Gen	-1.29
DRW1	DRYWOOD 1	4226	1.63	Gen	-2.04
EAGL	WHITE COURT	410	3.15	Gen	-0.52
EC01	CAVAILIER	247	2.44	Gen	-1.23
EC04	FOSTER CREEK G1	1301	1.57	Gen	-2.10
EGC1	ENMAX SHEPARD ENERGY CENTRE	772	1.58	Gen	-2.09
ENC1	CLOVER BAR 1	516	3.05	Gen	-0.62
ENC2	CLOVER BAR 2	516	3.05	Gen	-0.62
ENC3	CLOVER BAR 3	516	3.05	Gen	-0.62
FNG1	FORT NELSON	20000	-2.10	Gen	-5.77
GHO	GHOST	180	1.04	Gen	-2.62
GN1	GENESEE 1	525	4.63	Gen	0.97
GN2	GENESEE 2	525	4.63	Gen	0.97
GN3	GENESEE 3	525	4.63	Gen	0.97

MP-ID*	Facility Name	PSS/E Bus	Normalized and Compressed Loss Factor (%)	Loss Factor Asset	Difference % in Loss Factor to System Average
GPEC	GRANDE PRAIRIE ECOPOWER CENTRE	1101	-4.27	Gen	-7.93
GWW1	SODERGLEN	358	3.81	Gen	0.14
HAL1	CAPITAL POWER HALKIRK WIND PROJECT	1435	4.71	Gen	1.04
HRM	HR MILNER	1147	-1.65	Gen	-5.32
HSH	HORSESHOE	171	0.98	Gen	-2.68
IEW1	SUMMERVIEW 1	336	3.52	Gen	-0.15
IEW2	SUMMERVIEW 2	336	3.52	Gen	-0.15
INT	INTERLAKES	376	2.31	Gen	-1.36
IOR1	MAHKESES COLD LAKE	56789	0.50	Gen	-3.16
KAN	KANANASKIS	193	0.74	Gen	-2.93
KH1	KEEPHILLS #1	420	4.77	Gen	1.10
KH2	KEEPHILLS #2	420	4.77	Gen	1.10
KH3	KEEPHILLS #3	610	4.62	Gen	0.95
KHW1	KETTLES HILL WIND ENERGY PHASE 2	402	3.33	Gen	-0.33
MATLIMP	MONTANA TIE LINE	451	2.53	Gen	-1.14
MEG1	MEG ENERGY	405	1.40	Gen	-2.27
MKR1	MUSKEG	1236	2.85	Gen	-0.82
MKRC	MCKAY RIVER	1274	2.99	Gen	-0.67
NEP1	GHOST PINE WIND FARM	603	3.94	Gen	0.27
NOVAGEN15M	NOVA JOFFRE	383	1.71	Gen	-1.95
NPC1	NORTHSTONE ELMWORTH	19134	-6.52	Gen	-10.19
NPP1	NORTHERN PRAIRIE POWER PROJECT	1120	-6.73	Gen	-10.39
NRG3	NRGREEN WINDFALL POWER GENERATING STATION	1674	1.98	Gen	-1.69
NX01	BALZAC	290	1.54	Gen	-2.12
NX02	NEXEN OPTI	1241	1.84	Gen	-1.82
OMRH	OLDMAN	230	3.35	Gen	-0.31
OWF1	ALBERTA WIND ENERGY OLD MAN RIVER WIND FARM	61543	3.92	Gen	0.25
PH1	POPLAR HILL	1118	-6.88	Gen	-10.55
PKNE	COWLEY RIDGE WIND POWER PHASE1	264	4.19	Gen	0.52
POC	POCATERRA	214	1.59	Gen	-2.08
PR1	PRIMROSE	1302	0.99	Gen	-2.67
Project1245_1_GN	CENOVUS SUNDAY CREEK BTF	23752	0.29	Gen	-3.38
Project1472_1_GN	FORTIS GENALTA BELLSHILL DG	4078	4.20	Gen	0.54
Project1523_1_GN	ATCO GENALTA CADOTTED GENERATOR INCREASE	19083	-1.24	Gen	-4.90
RB1	RAINBOW 1	1031	-2.84	Gen	-6.51
RB2	RAINBOW 2	1032	-2.84	Gen	-6.51
RB3	RAINBOW 3	1033	-2.59	Gen	-6.26
RB5	RAINBOW 5	1037	-2.65	Gen	-6.31
RL1	RAINBOW 4	1035	-2.26	Gen	-5.92
RUN	RUNDLE	195	1.41	Gen	-2.25
RYMD	RAYMOND RESERVOIR	413	5.11	Gen	1.44
SCL1	SYNCRUDE	1205	3.31	Gen	-0.35
SCR1	SUNCOR MILLENIUM	1208	3.28	Gen	-0.39
SCR2	SUNCOR MAGRATH	251	3.00	Gen	-0.66
SCR3	SUNCOR HILLRIDGE WIND FARM	389	2.01	Gen	-1.66
SCR4	SUNCOR WINTERING HILLS WIND ENERGY PROJECT	759	5.15	Gen	1.48
SCTG	SHELL SCOTFORD	43	2.25	Gen	-1.42
SD1	SUNDANCE #1	135	5.05	Gen	1.39
SD2	SUNDANCE #2	135	5.05	Gen	1.39
SD3	SUNDANCE #3	135	5.05	Gen	1.39
SD4	SUNDANCE #4	135	5.05	Gen	1.39
SD5	SUNDANCE #5	135	5.05	Gen	1.39
SD6	SUNDANCE #6	135	5.05	Gen	1.39
SH1	SHEERNESS #1	1484	4.53	Gen	0.87
SH2	SHEERNESS #2	1484	4.53	Gen	0.87
SHCG	SHELL CAROLINE	370	-0.11	Gen	-3.78
SPRY	SPRAY	310	1.25	Gen	-2.42

MP-ID*	Facility Name	PSS/E Bus	Normalized and Compressed Loss Factor (%)	Loss Factor Asset	Difference % in Loss Factor to System Average
ST1	STURGEON 1	1166	-0.55	Gen	-4.21
ST2	STURGEON 2	1166	-0.55	Gen	-4.21
TAB1	TABER WIND	343	0.78	Gen	-2.89
TAY1	TAYLOR HYDRO	670	4.05	Gen	0.39
TC01	CARSELAND	5251	1.78	Gen	-1.88
TC02	REDWATER	50	1.96	Gen	-1.71
THS	THREE SISTERS	379	1.13	Gen	-2.54
VVW1	VALLEYVIEW	1172	-0.50	Gen	-4.16
VVW2	ATCO VALLEY VIEW 2	1172	-0.50	Gen	-4.16
WEY1	P&G WEYERHAUSER	1140	-4.04	Gen	-7.71
WST1	WESGEN	14	0.00	Gen	-3.67
321S033	DAISHOWA-MARUBENI INTERNATIONAL LTD.	1087	2.61	DOS	-1.06
0000079301	ANG COCHRANE (793S)	191	1.42	DOS	-2.24

NOTES:

* MP-ID - point where loss factors assessed

For loss factors, "-" means credit, "+" means charge

Loss factors effective from January 01, 2015 to December 31, 2015.

System Average Losses, %: **3.67**

For more information, please visit www.aeso.ca

Appendix 2 – Updated 2015 Tie Loss Factors

Tie	Transaction Type	Loss Factor (%)	Average Loss Charge (%)	Settlement LF (%)
BC	Import	1.76	0.80	2.56
	Export	-	0.77	0.77
SK	Import	3.90	2.50	6.40
	Export	-	2.30	2.30