

June 27, 2013

Dear Loss Factor Stakeholders,

Re: Changes to 2013 Loss Factors Due to Updated Project Information by June 10, 2013

As a part of the annual loss factor calculation, the AESO determines loss factors for existing and new loss factor customers expected to be in-service in the next calendar year. Loss factor customers are those customers who receive credits or are assessed charges for losses. Loss factors are based, in part, on estimated in-service date (ISD) and supply transmission service (STS) for new projects. If changes to a project ISD and/or STS occur, the loss factor process must take these changes into account.

From March 1 to June 10, 2013, the AESO received ISD and/or STS changes for several generation and transmission projects. Please see Appendix 1 for details. These changes triggered the AESO to conduct a loss factor recalculation to determine the impact on 2013 loss factors. The loss factor recalculation shows that a number of loss factor customer's loss factors have changed above the ±0.25% threshold. Based on ISO Rules Section 501.10, these customers will be issued updated loss factors which will be effective July 01, 2013. Customers that have experienced a change of over ±0.25% in their loss factors are highlighted in Appendix 2. This document is a full replacement for Changes to 2013 Loss Factors Due to Updated Project Information posted on February 28, 2013.

The ISD and STS updates to generation projects also required adjustments to the Loss Factors Generic Stacking Order (GSO). Please refer to the <u>Updates to 2013 Loss Factors Generic Stacking Order (GSO)</u> <u>Due to Updated Project Information Received by June 10, 2013</u> document posted on June 27, 2013 to view all the updates to the GSO.

If you have any questions, please contact lossfactor@aeso.ca.

Yours truly,

Original signed by

Rob Senko

Director, Transmission Cost Monitoring

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Appendix 1: Summary of Changes Due to Loss Factor Customer Additions

Project and Subproject Number	Project Name	Season(s) of the Projects in the posting in February 2013	Season changes to 2013 Loss Factors due to Updated Project Information			
	Generation					
1131	ENMAX Battle River 757S - Unit none spring, sum		spring, summer, fall			
1362	TransAlta Spray 2 - GSU Replacement	none	fall			
1374	Keephills 3 Uprate	none	summer, fall			
1345	Fortis ANC (Alberta Newsprint Company) - Generation	none	fall			
	Sundance 1	none	fall			
739	NRGreen Windfall Power Generating Station	summer, fall	fall			
482	Montana Tie Line	summer, fall	fall			
	Tran	smission				
1264	Fortis Bruderheim 127S Substation Upgrade	spring, summer, fall	fall			
812-19	Hanna Region Transmission Development	spring, summer, fall	summer, fall			
787-13	Southern Alberta Transmission Reinforcement	fall	none			
629	Alberta Industrial Heartland Bulk Transmission Development	fall	none			
817-4	North Central Region Transmission Development	spring, summer, fall summer, fall				
786-9	Edmonton Region 240kV Line Upgrades	summer, fall	fall			

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Project and Subproject Number	Project Name	Season(s) of the Projects in the posting in February 2013	Season changes to 2013 Loss Factors due to Updated Project Information	
811-5	Central East Area Transmission Development	spring, summer, fall	fall	
811-6	Central East Area Transmission Development	spring, summer, fall	summer, fall	
811-1	Central East Area Transmission Development	none	fall	
811-10	Central East Area Transmission Development	none	fall	
811-11	Central East Area Transmission Development	none	fall	
811-12	Central East Area Transmission Development	none	fall	
811-13	Central East Area Transmission Development	none	fall	
811-20	Central East Area Transmission Development	none	fall	
812-3	Hanna Region Transmission Development	spring, summer, fall	summer, fall	
812-8	Hanna Region Transmission Development	spring, summer, fall	summer, fall	
812-14	Hanna Region Transmission Development	summer, fall	fall	
812-23	Hanna Region Transmission Development	summer, fall	fall	

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Appendix 2: Updated 2013 Loss Factors Effective July 01 2013

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	0.10	Gen	-3.74
NX01	BALZAC	290	0.37	Gen	-3.47
BAR	BARRIER	216	-0.26	Gen	-4.09
BR3	BATTLE RIVER #3	1491	5.62	Gen	1.79
BR4	BATTLE RIVER #4	1491	5.62	Gen	1.79
BR5	BATTLE RIVER #5	1469	5.12	Gen	1.28
BCRK	BEAR CREEK G1	10142	-2.53	Gen	-6.37
BCR2	BEAR CREEK G2	10142	-2.53	Gen	-6.37
BPW	BEARSPAW	184	-0.40	Gen	-4.23
BIG	BIGHORN	103	2.77	Gen	-1.07
BTR1	BLUE TRAIL WIND FARM	328	3.17	Gen	-0.66
BRA	BRAZEAU	56153	2.09	Gen	-1.74
GOC1	BRIDGE CREEK	19145	0.00	Gen	-3.83
0000045411	BUCK LAKE	4080	2.19	Gen	-1.64
TC01	CARSELAND	5251	0.60	Gen	-3.23
CAS	CASCADE	175	-0.82	Gen	-4.65
CR1	CASTLE RIVER	234	2.38	Gen	-1.45
CRR1	Enel Alberta Castle Rock Wind Farm	221	2.39	Gen	-1.45
EC01	CAVAILIER	247	1.27	Gen	-2.56
CHIN	CHIN CHUTE	406	0.00	Gen	-3.83
CMH1	CITY OF MEDICINE HAT	680	0.51	Gen	-3.33
ENC1	CLOVER BAR 1	516	3.50	Gen	-0.33
ENC2	CLOVER BAR 2	516	3.50	Gen	-0.33
ENC3	CLOVER BAR 3	516	3.50	Gen	-0.33
CNR5	CNRL HORIZON	1263	4.80	Gen	0.97
CRE1	COWLEY EXPANSION 1	264	3.77	Gen	-0.06
CRE2	COWLEY EXPANSION 2	264	3.77	Gen	-0.06
CRE3	COWLEY NORTH	264	3.77	Gen	-0.06
PKNE	COWLEY RIDGE WIND POWER PHASE1	264	3.77	Gen	-0.06
CRWD	COWLEY RIDGE WIND POWER PHASE2	264	3.77	Gen	-0.06
DAI1	DIASHOWA	1088	-0.95	Gen	-4.79
DOWGEN15M	DOW GTG	61	3.27	Gen	-0.57
DV1	DRAYTON VALLEY PL IPP	4332	0.00	Gen	-3.83
DRW1 CES1	DRYWOOD 1	4226	2.06	Gen	-1.77
	ENMAX CALGARY ENERGY CENTRE CTG	187	0.47	Gen	-3.36
CES2	ENMAX CALGARY ENERGY CENTRE STG	187	0.47	Gen	-3.36
CRS1 CRS2	ENMAX CROSSFIELD ENERGY CENTER	503	0.80 0.80	Gen	-3.03
CRS3	ENMAX CROSSFIELD ENERGY CENTER	503 503	0.80	Gen Gen	-3.03 -3.03
FNG1	ENMAX CROSSFIELD ENERGY CENTER FORT NELSON	20000	2.95	Gen	-3.03 -0.88
AFG1TX	FORT NELSON FORTISALBERTA AL-PAC PULP MILL	392	0.48	Gen	-3.35
EC04	FOSTER CREEK G1	1301	3.48	Gen	-0.35
0000001511	FT MACLEOD	4237	0.86	Gen	-0.35 -2.97
GN1	GENESEE 1	525	4.94	Gen	-2.97 1.11
GN2	GENESEE 2	525	4.94	Gen	1.11
GN3	GENESEE 2 GENESEE 3	525	4.94	Gen	1.11
GHO	GHOST	180	-0.47	Gen	-4.30
NEP1	GHOST PINE WIND FARM	603	3.87	Gen	0.04
0000022911	GLENWOOD	4245	1.45	Gen	-2.38
GPEC	GRANDE PRAIRIE ECOPOWER CENTRE	1101	-2.90	Gen	-6.73
HAL1	CAPITAL POWER HALKIRK WIND PROJECT	1435	4.96	Gen	1.13
0000025611	HARMATTAN GAS PLANT DG	4123	-0.63	Gen	-4.47
HSH	HORSESHOE	171	-0.29	Gen	-4.12
HRM	HR MILNER	1147	0.02	Gen	-3.81
INT	INTERLAKES	376	1.14	Gen	-2.69
KAN	KANANASKIS	193	-0.27	Gen	-4.10
KH1	KEEPHILLS #1	420	5.33	Gen	1.50
KH2	KEEPHILLS #2	420	5.33	Gen	1.50
KH3	KEEPHILLS #3	610	4.88	Gen	1.05
KHW1	KETTLES HILL WIND ENERGY PHASE 2	402	2.58	Gen	-1.26

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MP-ID*	Facility Name	PSS/E Bus	Normalized and Compressed Loss Factor (%)	Loss Factor Asset	Difference % in Loss Factor to System Average
AKE1	MCBRIDE	901	2.29	Gen	-1.55
MKRC	MCKAY RIVER	1274	4.65	Gen	0.82
MEG1	MEG ENERGY	405	3.59	Gen	-0.24
MATLIMP	MONTANA TIE LINE	451	1.79	Gen	-2.04
MKR1	MUSKEG	1236	4.62	Gen	0.78
NX02	NEXEN OPTI	1241	4.42	Gen	0.59
NPP1	NORTHERN PRAIRIE POWER PROJECT	1120	-4.81	Gen	-8.65
NPC1	NORTHSTONE ELMWORTH	1134	-5.01	Gen	-8.85
NOVAGEN15M	NOVA JOFFRE	383	1.48	Gen	-2.35
OMRH	OLDMAN	230	2.49	Gen	-1.34
WEY1	P&G WEYERHAUSER	1140	-2.60	Gen	-6.43
0000039611	PINCHER CREEK	4224	2.40	Gen	-1.44
POC	POCATERRA	214	0.60	Gen	-3.23
PH1	POPLAR HILL	1118	-4.89	Gen	-8.73
PR1	PRIMROSE	1302	2.35	Gen	-1.48
RB1	RAINBOW 1	1031	1.82	Gen	-2.01
RB2	RAINBOW 2	1032	1.89	Gen	-1.94
RB3	RAINBOW 3	1028	1.86	Gen	-1.97
RL1	RAINBOW 4	83	1.86	Gen	-1.97
RB5	RAINBOW 5	1037	1.96	Gen	-1.87
RYMD	RAYMOND RESERVOIR	413	0.00	Gen	-3.83
TC02	REDWATER	50	2.75	Gen	-1.08
RUN	RUNDLE	195	-0.52	Gen	-4.36
SH1	SHEERNESS #1	1484	4.60	Gen	0.76
SH2	SHEERNESS #2	1484	4.60	Gen	0.76
SHCG	SHELL CAROLINE	370	-0.16	Gen	-3.99
SCTG	SHELL SCOTFORD	43	2.63	Gen	-1.20
GWW1	SODERGLEN	358	3.09	Gen	-0.74
SPR	SPRAY	310	-0.46	Gen	-4.30
0000038511	SPRING COULEE	4246	1.14	Gen	-2.69
0000006711	STIRLING	4280	0.58	Gen	-3.25
ST1	STURGEON 1	1166	-0.50	Gen	-4.33
ST2	STURGEON 2	1166	-0.50	Gen	-4.33
IEW1	SUMMERVIEW 1	336	3.27	Gen	-0.57
IEW2	SUMMERVIEW 2	336	3.27	Gen	-0.57
SCR3	SUNCOR HILLRIDGE WIND FARM	389	1.36	Gen	-2.47
SCR2	SUNCOR MAGRATH	251	2.15	Gen	-1.68
SCR1	SUNCOR MILLENIUM	1208	4.92	Gen	1.08
SCR4	SUNCOR WINTERING HILLS WIND ENERGY PROJECT	759	4.60	Gen	0.77
SD1	SUNDANCE #1	135	4.02	Gen	0.19
SD3	SUNDANCE #3	135	4.02	Gen	0.19
SD4	SUNDANCE #4	135	4.02	Gen	0.19
SD5	SUNDANCE #5	135	4.02	Gen	0.19
SD6	SUNDANCE #6	135	4.02	Gen	0.19
SCL1	SYNCRUDE	1205	4.98	Gen	1.15
TAB1	TABER WIND	343	0.77	Gen	-3.07
TAY1	TAYLOR HYDRO	670	1.95	Gen	-1.88
THS	THREE SISTERS	379	-0.48	Gen	-4.31
ARD1	TRANSALTA ARDENVILLE WIND FARM	739	3.48	Gen	-0.36
VVW2	ATCO VALLEY VIEW 2	1172	-0.33	Gen	-4.16
VVW1	VALLEYVIEW	1172	-0.33	Gen	-4.16
WST1	WESGEN	21	0.00	Gen	-3.83
EAGL	WHITE COURT	410	0.00	Gen	-3.83
Project739_1_GEN	NRGreen Windfall Power Generating Station	1674	0.61	Gen	-3.22
BTF_NEWSPRNT_GEN	<u> </u>	298	1.05	Gen	-2.78
	Amoco Empress (163S)	262	-0.23	DOS	-4.07
0000016301					
0000016301 0000079301	ANG Cochrane (793S)	191	2.70	DOS	-1.14

NOTES:

* MP-ID - point where loss factors assessed
For loss factors, "-" means credit, "+" means charge
Loss factors effective from July 01, 2013 to December 31 2013.
System Average Losses, %:
3.83
For more information, please visit www.aeso.ca



Tie Loss Factors

Tie	Transaction Type	Loss Factor (%)	Average Loss Charge (%)	Settlement LF (%)
вс	Import	1.05	0.94	1.99
	Export	-	0.94	0.94
SK	Import	2.30	2.50	4.80
	Export	-	2.30	2.30

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