



September 30, 2009

To: **Loss Factor Stakeholder Team**

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

As 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 loss factors.) Loss factors are based, in part, on the estimated in-service date (ISD) of new assets. Changes to project ISD's occur as interconnection of projects proceeds. The loss factor process takes these changes into account.

Mid-way through 2009, AESO has received several modified ISD's for new loss factor customers. These ISD's were advanced into the year 2009 with virtually no forward warning. The addition of these customers (all generation sources) requires the AESO to calculate loss factors to adhere to ISO Rules and also to facilitate financial settlement. The addition of these generating sources may also affect existing loss factor customers adjacent to the additions.

As a result of these additions, several loss factor customers adjacent to the four additions may be assessed different loss factors as the changes will have resulted in loss factors exceeding the 0.25% threshold stated in Rule 9.2.2.b.

Two of the additions had modeling information for their new project readily available and were calculated in time to be included in the 2009 Q4 Calibration Factor (CF) determination, published at the end of September 2009. The additions to be included are the Blue Trail and Waupisoo projects.

For the two other additions (Summerview and Clover Bar 3), the AESO is waiting for technical data. The data will be used in models to complete the loss calculations. Due to delays in AESO receiving the technical data, these units will not be included in the Q4 CF determination. A notification of loss factor changes will be made when the calculations are complete. Please see

Appendix 1 for details. Further, once the loss factors for Summerview and Clover Bar 3 are complete, there may be further changes to specific loss factors at adjacent sites. In Appendix 2, the loss factor changes due to the Blue Trail and Waupisoo additions are highlighted in the list. The remaining loss factors remain unchanged. Once the changes due to Clover Bar 3 and Summerview are completed, the 2009 Loss Factor document will be formally updated and reissued.

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"*

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

<b>Project</b>	<b>ISO Project Number</b>	<b>Proposed ISD</b>	<b>Final Data Received?</b>	<b>Calculate New Loss Factor for Project?</b>	<b>Calculate LF for adjacent Customers</b>	<b>Included in 2009 Q4 Calibration Factor</b>
Waupisoo	-	2009-09-01	Yes	Yes	Yes	Yes
Blue Trail	376	2009-09-01	Yes	Yes	Yes	Yes
Summerview	393	2009-11-01	No	Yes, if ISD is in 2009	Yes if ISD is in 2009	No
Clover Bar 3	593	2009-11-10	No	Yes, if ISD is in 2009	Yes if ISD is in 2009	No

ISD – In-service Date

LF – Loss Factor

## Appendix 2: Summary of Changes and Updated Loss Factors (2009) Due to Loss Factor Customer Additions (Blue Trail and Waupisoo)

**2009 Alberta Loss Factors - 2009-09-22, 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
ECO1	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
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	7.54	Gen	2.99
EC04	FOSTER CREEK G1	1301	7.04	Gen	2.49
0000001511	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
HSR	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	KEEPHILLS #1	420	5.72	Gen	1.17
KH2	KEEPHILLS #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	2.79	Gen	-1.76
RB2	RAINBOW 2	1032	2.73	Gen	-1.82
RB3	RAINBOW 3	1033	2.93	Gen	-1.62
RL1	RAINBOW 4, RL1	1035	3.26	Gen	-1.29
RB5	RAINBOW 5	1037	2.72	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
GW1	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
000006711	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 September 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.