

Balancing Authority ACE Limit Proof-of-Concept Field Trial Project 2010-14

WECC Update Discussion

October, 2011

Revised: November 30, 2011

CERTS-EPG

Balancing Authority Reliability-based Control Standard Drafting Team
(BARCSDT)

From December 2010, NERC 1-minute ACE and Frequency Data are used
to generate the report

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Western Interconnection Field Trial Participation

Western Interconnection Balancing Authority Participants	2011 Frequency Bias	Region	Reliability Coordinator	Start Date
Alberta Electric System Operator (AESO)	-125	NWPP	WECC	March 1, 2010
Arizona Public Service Company (AZPS)	-72.6	AZNMSNV	WECC	March 1, 2010
Bonneville Power Administration (BPAT)	-156.1	NWPP	WECC	March 1, 2010
British Columbia Transmission Corporation (BCTC)	-122	NWPP	WECC	April 1, 2010
California Independent System Operator (CISO)	-486.5	CAMX	WECC	March 1, 2010
El Paso Electric Company (EPE)	-19	AZNMSNV	WECC	March 1, 2010
NaturEner Power Watch, LLC (GWA)	-2.1	NWPP	WECC	March 1, 2010
Idaho Power Company (IPCO)	-44	NWPP	WECC	March 1, 2010
Los Angeles Department of Water and Power (LDWP)	-67	CAMX	WECC	March 1, 2010
Nevada Power Company (NEVP)	-60.75	AZNMSNV	WECC	March 1, 2010
PacifiCorp-East (PACE)	-79.4	NWPP	WECC	March 1, 2010
PacifiCorp-West (PACW)	-42	NWPP	WECC	March 1, 2010
Portland General Electric (PGE)	-50	NWPP	WECC	April 1, 2010
Public Service Company of Colorado (PSCO)	-110	RMPA	WECC	March 1, 2010
Public Service Company of New Mexico	-27.3	NWPP	WECC	June 1, 2011
PUD No. 1 of Chelan County (CHPD)	-12	NWPP	WECC	March 1, 2010
PUD No. 1 of Douglas County (DOPD)	-7	NWPP	WECC	April 1, 2010
PUD No. 2 of Grant County (GCPD)	-25	NWPP	WECC	March 1, 2010
Seattle Department of Lighting (SCL)	-40	NWPP	WECC	March 1, 2010
Sacramento Municipal Utility District (SMUD)	-44.99	NWPP	WECC	March 1, 2010
Salt River Project (SRP)	-64.1	AZNMSNV	WECC	May 1, 2010
Sierra Pacific Power Company (SPPC)	-19.44	NWPP	WECC	March 1, 2010
Tucson Electric Power Company (TEPC)	-30.1	AZNMSNV	WECC	March 1, 2010
Turlock Irrigation District (TIDC)	-6.5	NWPP	WECC	March 1, 2010
Western Area Power Administration - Colorado Missouri (WACM)	-54	RMPA	WECC	March 1, 2010
Western Area Power Administration - Lower Colorado (WALC)	-51.6	AZNMSNV	WECC	March 1, 2010

Clock-Minute Frequency Below 59.932 Hz FTL_{Low} or Above 60.068 Hz FTL_{High}

date_time	freq	schedfreq	FTLLowDur	FTLHighDur
10/17/2011 5:34	59.9276	60	1	0

Balancing Authority ACE Limit Proof-of-Concept Field Trial

The Balancing Authority ACE Limit (BAAL) shall not be exceeded for more than 30 consecutive clock-minutes*

BA_Number	Performance Since CERTS-EPG Starting Creating the Report		Current Month Statistics	
	BAALLow	BAALHigh	BAALLow	BAALHigh
	Max_MinCTLow	Max_MinCTLow	Max_MinCTLow	Max_MinCTLow
W-01	22	20	2	17
W-02	24	31	24	13
W-03	15	10	13	10
W-04	26	28	17	16
W-05	16	18	4	4
W-06	33	24	16	12
W-07	14	7	14	5
W-08	18	17	5	4
W-09	7	3	4	0
W-10	18	27	14	19
W-11	6	7	4	1
W-12	26	48	14	16
W-13	5	12	5	4
W-14				
W-15	20	42	8	8
W-16	19	36	9	10
W-17	24	30	12	13
W-18	21	24	21	15
W-19	8	14	2	3
W-20	26	37	22	23
W-21	12	16	3	16
W-22	19	18	4	8
W-23				
W-24	12	11	7	11
W-25	47	34	27	24
W-26	23	22	23	22

*BAAL being exceeded for more than 30 consecutive clock-minutes would be a violation under the draft BAAL Standard.

MinCtLow = Count of consecutive clock-minutes BAALLow was exceeded

MinCtHigh = Count of consecutive clock-minutes BAALHigh was exceeded

Statistics of BAAL being exceeded > 25 consecutive clock-minutes :

date_time	freq	schedfreq	BAALLowDur	BAALHighDur
10/7/2011 4:38	59.9704	60	25	0
10/7/2011 4:39	59.9727	60	26	0
10/7/2011 17:26	59.994	60	25	0
10/7/2011 17:27	59.9715	60	26	0
10/7/2011 17:28	59.9763	60	27	0
10/7/2011 18:30	59.9696	60	25	0
10/7/2011 18:31	59.9717	60	26	0
10/21/2011 10:17	59.9931	60	25	0
10/23/2011 8:37	59.9607	60	25	0
10/23/2011 8:38	59.9595	60	26	0
10/23/2011 8:39	59.9635	60	27	0
10/23/2011 16:46	59.9694	60	25	0