

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

Hydro Quebec Update Discussion
July 29, 2011

DISCUSSION STARTING AT 2:00 PM EDT

Bob Klueber – Midwest ISO

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

Frequency Data Summary

Month	June-11
Time above 60.1 Hz from 3 second data (minutes)	34.7
Median time in seconds for frequency excursions above 60.10 Hz	6
Time above 60.1 Hz from 1 minute data (minutes)	2
# of events with at least one 1 minute average frequency above 60.1 Hz	2
# of instances above 60.1 Hz for more than 30 minutes	0
Consecutive minutes above 60.1 Hz for high event #1 (at 2011-06-05 08:01:00)	1
Consecutive minutes above 60.1 Hz for high event #2 (at 2011-06-28 05:11:00)	1
Time below 59.9 Hz from 3 second data (minutes)	21.4
Median time in seconds for frequency excursions below 59.90 Hz	6
Time below 59.9 Hz from 1 minute data (minutes)	10
# of events with at least one 1 minute average frequency below 59.9 Hz	8
# of instances below 59.9 Hz for more than 30 minutes	0
Consecutive minutes below 59.9 Hz for low event #1 (at 2011-06-06 03:29:00)	1
Consecutive minutes below 59.9 Hz for low event #2 (at 2011-06-07 15:37:00)	1
Consecutive minutes below 59.9 Hz for low event #3 (at 2011-06-10 01:31:00)	1
Consecutive minutes below 59.9 Hz for low event #4 (at 2011-06-11 12:03:00)	1
Consecutive minutes below 59.9 Hz for low event #5 (at 2011-06-15 19:58:00)	1
Consecutive minutes below 59.9 Hz for low event #6 (at 2011-06-20 14:03:00)	1
Consecutive minutes below 59.9 Hz for low event #7 (at 2011-06-27 09:47:00)	1
Consecutive minutes below 59.9 Hz for low event #8 (at 2011-06-28 23:08:00)	3

- Low frequency events 1 through 7 all resulted from unit trips, or generation rejection.

06/28/2011 ending 23:08 EDT
3 minute duration below 59.9 Hz

Sous-fréquence - 23:08:00 le 28 juin 2011

(Perte de : N/A MW)

Tension et fréquence à Boucherville

