

FFT Summary

Canadian Hydro Developers Self-Report – December 7, 2016

Entity	NBCRN	EUBVTN	Standard	Req	Compliance Issue	Risk Assessment	Mitigation Action
Canadian Hydro Developers, Inc. (CHD)	NBCR002	2016005	IRO-001-1.1	R8	On December 7, 2016, CHD submitted a Self-Report through the NBEUB Compliance Monitoring and Reporting System stating that, as a Generator Operator (GOP), CHD had a compliance issue related to IRO-001-1.1 R8. IRO-001-1.1 R8 requires GOPs to comply with Reliability Coordinator (RC) directives unless such actions would violate safety, equipment, or regulatory or statutory requirements. CHD reported that it was unable to follow a verbal directive from the RC (NB Power) to reduce generation at its Kent Hills Facility by 40MW due to a problem with the SCADA communication system between CHD's Wind Control Center (WCC) and the Kent Hills site. The duration of the compliance issue was from October 11, 2016 at 3:12 AM MDT, when the RC issued its directive, to 3:35 AM MDT (23 minutes), when CHD's WCC Operator, having	Although CHD was not fully compliant with the standard due to its temporary inability to comply with a generation reduction directive from its RC, CHD immediately informed NB Power of the SCADA communication failure and its inability to comply with the directive, the non-compliance was of short duration (approximately 23 minutes). NB Power was informed as soon as the issue was resolved, but no longer required the site to reduce generation. This issue therefore is deemed to have posed a minimal risk to the reliability of the bulk power system. No harm is known to have occurred.	To mitigate the compliance issue: 1) on November 16, 2016, CHD personnel reviewed the SCADA communication issue with an outside vendor, who recommended CHD upgrade the existing firewall operating system. 2) on November 16, 2016, CHD installed and tested a new piece of software for the internet network firewall. 4) on November 23, 2016, CHD issued an official memo that documented the description of the non-compliance event, the findings of a Root Cause Analysis, and the undertaking of detective/preventative actions, including updating upgrade procedures to add additional software testing and implementing procedures for monthly remote communication systems checks, to minimize the possibility of a recurrence of the compliance issue. 3) on November 24, 2016, a final verification was

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					restored SCADA communications with the Kent Hills site, notified the RC that it was ready to comply with the directive. By that time, the RC no longer required the site to reduce generation. The cause of the compliance issue was a malfunction in the SCADA communication system between CHD's WCC and the Kent Hills site.		provided by CHD's WCC operators that all SCADA communication issues with the Kent Hills facilities had been resolved.