Page 1 of 1

Q.	Reference: Prudence Review - Hydro's Response to Liberty's Report - Circuit Breaker
	Performance in Cold Weather - page 13, lines 16-18
	Please supply the manufacturers' specifications for the operating temperature for
	Breaker B1L03 and comment on the use of this breaker in other Canadian
	jurisdictions, particularly those that experience colder weather than in
	Newfoundland.
A.	Breaker B1L03 was a 1966 Brown Boveri, Type DCVF Air Blast Circuit Breaker
	(ABCB). The Brown Boveri Manual A11521 (Instructions for Erection and Operation,
	Types DCF & DCVF) indicates the breaker is rated for a temperature range of -40 °C
	to 50 0 C. However, several utilities across Canada report low temperatures pose
	challenges for air blast circuit breaker (ABCB) operation, as was experienced in
	January 2014. Two Canadian utilities have placed restrictions on ABCB operation
	(unless for protection reasons or absolutely necessary) when temperatures are low.
	One utility uses -10 0 C and another uses -20 0 C as a guide. See also Hydro's
	response to PR-V-NLH-003.