Page 1 of 1

1	Q.	B-45, Upgrade Circuit Breakers, Various Sites, 1,677,000
2		How has it been determined by Hydro that "for new high voltage circuit breakers
3		the only option available on the market today is SF6 circuit breakers"?
4		
5		
6	A.	Hydro has determined that "for new high voltage circuit breakers the only option
7		available on the market today is SF_6 circuit breakers" from its engineering and
8		procurement experience. Air Blast and Oil Circuit Breakers are no longer
9		manufactured and vacuum type breakers are only manufactured up to 36 kV. It
10		should also be noted that in northern climates SF_6 is mixed with either CF_4 or N_2 to
11		maintain the interrupting capability at very low temperatures.