1	Q.	Can Hydro provide more information as to how the various reserve requirements
2		are allocated according to time-responsiveness? Eg. 5-10 seconds, under 1-2
3		minutes, 5-15 minutes.
4		
5		
6	A.	Hydro has two generation reserve requirements that must be met: spinning
7		reserves ¹ and available reserves ² .
8		
9		From a real time perspective, Hydro has established a minimum spinning reserve
10		level equal to 70 MW. The Energy Control Centre maintains this level in order to
11		cover performance uncertainties in generating units, especially wind and other
12		variable generation, and unanticipated increases in demand.
13		
14		Hydro must also maintain sufficient available reserves to meet current and
15		forecasted demands under a contingency of the loss of the largest generating unit.
16		The available reserves includes Hydro's standby (non-spinning) generation that car
17		be synchronized to the power system within 10 minutes, which includes Hydro's
18		hydro-electric units that are available but not in operation and standby gas turbine
19		and diesel generation. In addition to Hydro's reserves, Hydro includes
20		Newfoundland Power's available generation, some of which may require one hour
21		to start.

 1 Spinning reserves are unloaded generation that is synchronized to the power system and is ready to serve additional demand.

² Available reserves are associated with generation that is in service (spinning) and generation that can be placed in service within one hour.