1 Q. With reference to the chart at slide 28 of the Technical Conference presentation in 2 respect of this Application, please explain why the dotted line does not represent the horizon that defines when high cost generation sources are dispatched (i.e., 3 4 only Holyrood oil if above this line, and full dispatch of turbines if below this line). 5 6 7 Α. It should be noted that the targets indicated in slide 28 of the Technical Conference 8 presentation were for 2015. The minimum targets for 2016 are shown in Figure 1 9 of Hydro's response to NP-NLH-002. 10 As noted in Hydro's Application, "Newfoundland and Labrador Hydro (Hydro) has a 11 12 mandate to provide energy to meet customers' requirements. To provide that 13 energy, Hydro employs a planning methodology which balances hydraulic and 14 thermal production and is adjusted annually depending on the available hydrology. 15 Hydro has a strong focus on ensuring the economic dispatch of its generation and 16 specifically focuses on maximizing generation from hydraulic sources and 17 minimizing generation from thermal sources to manage cost to customers. 18 However, in periods of low precipitation, Hydro relies on its thermal generation fleet to meet shortfalls in hydraulic production." 19 20 21 Monthly minimum reservoir storage targets are calculated each year by System 22 Operations using the Vista DSS model to ensure that the system is operated to 23 maintain sufficient water in storage for continued generation through a repeat of 24 the historic dry period. The system wide monthly storage targets are developed 25 with consideration of historic inflow sequences, generating plant availability 26 (including Holyrood), and system load forecasts and are recalculated in the event of

demand and/or supply side changes which can result from modifications to load

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forecasts or the addition of new generating sources to the system. Total system storage is continually monitored against the established minimum targets. Thermal generation would be increased when aggregate storage approaches the minimum targets. Other factors, such as the distribution of storage among the reservoirs; weather forecasts and approximations of the water equivalent in snowpack; and availability of hydraulic and thermal units would also be considered in making the decisions related to thermal generation.

Hydro's scheduling procedures plan to use only the three Holyrood thermal units to produce energy for customers' requirements; the standby plants are normally reserved for providing additional short term capacity to support system reserves and for emergency purposes. In 2016, the use of the standby units for energy to support Hydro's reservoirs was required due to concerns of local storage levels in Long Pond (the headwaters of the Bay d'Espoir plant) and due to the ongoing unavailability and uncertainty of generation capacity at the Holyrood generating station.