- 1 Q. Re: RRAS, 2019 Update, Vol. III, page 21 (137 pdf)
- 2 Citation 1 :
- 3 6.0 Load Forecasts

The purpose of load forecasting is to project electric power demand and energy requirements 4 through future periods. This is a key input to the resource planning process, which ensures 5 6 sufficient resources are available consistent with applied reliability standards. For the 7 Newfoundland and Labrador Interconnected System, the load forecast is segmented by the 8 Island Interconnected System and Labrador Interconnected System, as well as by utility load 9 (i.e., domestic and general service loads of Newfoundland Power and Hydro) and industrial load, 10 i.e., larger direct customers of Hydro such as CBPP, North Atlantic Refining Ltd, Vale, and Iron Ore Company of Canada("IOC"). The load forecast process entails translating a long-term 11 economic and energy price forecast for the province into corresponding electric demand and 12 13 energy requirements for the electric power systems.

14The resource planning process considers a range of potential forecast scenarios, rather than a15single forecast. This allows for evaluation of the sensitivity of results to differing economic16conditions. For this planning exercise, a range of forecasts were developed independently for17the Island and Labrador. The combination of those forecasts with evaluation of both the P5018and the P90 conditions for the Island Interconnected System as discrete scenarios resulted in19the evaluation of 12 discrete scenarios. visualization of the scenarios considered is presented in20Figure 1.



Figure 1: Modelled Scenarios

- 1 Citation 2 (page 27, pdf 143):
- 2 6.3 Considered Potential Labrador Load Scenarios

The Labrador Interconnected System load includes the power and energy requirements of the
 iron ore industry in western Labrador and Hydro's rural customers. The communities include
 Happy Valley-Goose Bay (including North West River, Sheshatshiu, and Mud Lake), Wabush,
 Labrador City, and Churchill Falls town site customers.

Table 6 presents the base forecast with a sensitivity case for the total Labrador Interconnected
System over the study period. The base forecast reflects Hydro's Rural Load Forecast Spring
2019, which includes existing data centre requirements as well as the loads associated with
Wabush mine reactivation by Tacora Resources. A sensitivity case was developed to include
additional load requirements for the Department of National Defence ("DND") at 5 Wing Goose
Bay.

- a) Please explain why the five load scenarios initially studied for Labrador in the 2018 RRAS
  were first reduced to 3 scenarios in that study, and were then to 2 scenarios in the 2019
  Update.
- b) Please confirm that the LIS scenarios included in the 2019 Update include only the base case
  (including existing data centre requirements and Tacora) and one sensitivity case (DND
  additional load).
- c) Please confirm that no scenarios were reviewed in the 2019 Update which include any
  additional cryptocurrency (data centre) loads.
- d) Please confirm (or correct) LIG's understanding that Hydro has received some 300 MW of
   service requests for new cryptocurrency mining customers, which are on hold pending
   resolution of the current proceeding regarding a Network Addition Policy.
- e) Please indicate where in the 2019 RRAS Update a least-cost plan is found, corresponding to
  a load scenario in which Hydro needs to provide service to 300 MW of additional

		cryptocurrency customers, in addition to other additional DND and mining loads in
		Labrador. If such a plan is not found in the 2019 Update, please provide it.
Α.	a)	In the 2018 Reliability and Resource Adequacy Study, five independent load scenarios were
		initially prepared. As any combination of those cases could occur, the analysis was
		rationalized to focus on three potential load growth scenarios which would encompass the
		load growth potential presented in each of the five independent load scenarios for
		Labrador; the base case, a high industrial growth case, and a case where all recapture is
		consumed in Labrador within the study period.
		Please refer to Newfoundland and Labrador Hydro's ("Hydro") response to LAB-NLH-011, part b) for the rationale behind having two scenarios for Labrador in the 2019 update.
	b)	Hydro confirms that the Labrador Island System scenarios included in the 2019 Update
		include only the base case (includes existing data centre requirements and Tacora) and one
		sensitivity case (Department of National Defence additional load).
	c)	Hydro confirms no scenarios were reviewed in the 2019 undate that includes additional
	C)	spunto currency loads
	d)	Please refer to Hydro's response to LAB-NLH-008, part a).
	e)	Please refer to Hydro's response to LAB-NLH-011.
	Α.	A. a) b) c) d) e)