

1 Q. Identify the gas and diesel plants in Labrador Interconnected System, and for each
2 of them, indicate when they are dispatched and what the output (MWh) is.

3
4

5 A. As noted in Schedule 3 of Exhibit 3 – Provincial Electrical Systems filed in Volume II
6 of Hydro’s 2013 General Rate Application, there are three gas and diesel plants on
7 the Labrador Interconnected System:

8

9 (1) Happy Valley Gas Turbine 27.0 MW

10 This unit typically runs in synchronous condensing mode, providing transmission
11 voltage support. It can also be dispatched for planned or unplanned outages on the
12 transmission system supplying Happy Valley-Goose Bay and to provide system
13 support during peak demand periods, if required.

14

15 (2) Happy Valley (Goose Bay) North Plant (Diesel) 5.0 MW

16 This unit can be dispatched for planned or unplanned outages on the transmission
17 system supplying Happy Valley-Goose Bay and to provide system support during
18 peak demand periods, if required.

19

20 (3) Mud Lake Diesel Unit 0.1 MW

21 This unit is located in Mud Lake as a backup to the underwater cable feeding Mud
22 Lake. It can be dispatched in case of planned or unplanned outages to the line
23 feeding Mud Lake.

Labrador Interconnected Gas Turbine and Diesel Production Data

	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>
	(kWh)	(kWh)	(kWh)	(kWh)	(kWh)	(kWh)
HV North Plant Diesel (gross)	252	16,962	6,912	29,280	2,640	21,568
HV Gas Turbine (Gross)	258,539	451,386	1,098,566	612,000	432,000	1,584,000

1

2

Production data for the Mud Lake diesel unit is unavailable but it typically is only

3

run to check its operating condition.