1 Q	2017	General Rate	Application	 Operations
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- 2 Page 3.23, lines 10-12 Provide the detailed calculation of the reserve at criteria for
- 3 the test years 2018 and 2019.

4 5

6 A. Please refer to Tables 1 to 3 for the determination of Reserve at Criteria for the

7 2018 and 2019 Test Years based on Expected Installed Capacity in 2018/19:

Table 1 Gross Continuous Unit Rating (GCUR) (MW)

Combined System Available GCUR (2018/19):	2011 MW
Hydraulic	33.6
Non-Utility Generators	
Hydraulic	63
Exploits	
Hydraulic	99.1 ¹
СВРР	
As per generation test January 2017	122.5
Newfoundland Power	
Diesel	24.7
Combustion Turbine	223.5
Holyrood	490
Total Hydraulic	954.4
Newfoundland and Labrador Hydro	

¹ 60 hz only.

Table 2 Existing Curtailable and Capacity Assistance Agreements²(MW)

Agreement	Capacity Available
СВРР	80 ³
Vale	6
Praxair	5
NP Curtailable Demand	9.9
Total:	101

Table 3 Capacity and Demand for the 2018/19 Expected Installed Capacity

Installed Capacity:	2011	MW
Curtailable and Capacity Assistance:1	101	MW
Total Capacity Available on Peak: 2112		MW

Maximum demand that can be supplied on peak:	1872	MW
Less Reserve Requirement:	- 240	MW
Total Capacity Available on Peak:	2112	MW

1 Using the information provided above, the Reserve at Criteria is calculated as follows:

Reserve at Criteria =
$$\frac{\text{Total capacity available on peak - Maximum demand that can be supplied on peak}}{\text{Maximum demand that can be supplied on peak}}$$
$$= \frac{2112 - 1872}{1872} = 12.8225\%$$

- 2 Finally, applying this reserve at criteria to Newfoundland Power's combined maximum
- 3 winter demand hydraulic and thermal capacity of 133,191 kW, as supplied to Hydro by
- 4 Newfoundland Power's System Planning department, yields the results provided in Table 3-

on October 13, 2017 Hydro filed an application with the Board to combine the two existing Corner Brook

² Vale's diesel generation is embedded in Hydro's GCUR.

Pulp and Paper agreements into one single Revised Capacity Assistance Agreement that will provide up to 90 MW of capacity assistance to Hydro under consistent terms and conditions.

- 1 13 of Revision 2 to Hydro's 2017 General Rate Application submission. This table has been
- 2 reproduced for convenience.

Table 3-13 Newfoundland Power Generation Credit (kW)

Newfoundland Power Generation Credit	118,054
Reserve at Criteria	1.128225
Total	133,191
Thermal Capacity	39,000
Hydraulic Capacity	94,191