

1 Q. **Reference: Application, Schedule 3, Holyrood Thermal Generating Station Overview, page 12.**

2 What was the DAUFOP for Holyrood TGS in each of the past 5 years? Please show separately for  
3 each unit at Holyrood TGS.

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6 A. At present, Newfoundland and Labrador Hydro (“Hydro”) tracks performance data for the units  
7 at the Holyrood Thermal Generating Station (“Holyrood TGS”) using the Derated Adjusted  
8 Forced Outage Rate (“DAFOR”) metric. As stated in the 2022 Update to the Reliability and  
9 Resource Adequacy Study,<sup>1</sup> the units at the Holyrood TGS are to remain base loaded in the near  
10 term and will strategically move to standby operation if system conditions allow. When  
11 operation of Holyrood TGS becomes standby, DAUFOP<sup>2</sup> will be the preferred performance  
12 measure given the frequency of deratings historically experienced by these units, and Hydro will  
13 adjust targets accordingly.

14 The Holyrood TGS DAFOR performance data for the last five years for each unit is shown in Table  
15 1, Table 2, and Table 3. The annual performance target is set at 20%. For resource adequacy  
16 planning purposes, a forced outage rate of 20% is assumed with a sensitivity value of 34%.<sup>3,4</sup>

**Table 1: Holyrood Unit 1 DAFOR Performance**

Year	DAFOR (%)
2019	0.93
2020	3.97
2021	34.50
2022	9.27
2023	19.39

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<sup>1</sup> “Reliability and Resource Adequacy Study – 2022 Update,” Newfoundland and Labrador Hydro, October 3, 2022, vol. III, p. 25/6-10.  
<sup>2</sup> Derated Adjusted Utilization Forced Outage Probability (“DAUFOP”).  
<sup>3</sup> “2024 Resource Adequacy Plan – An Update to the Reliability and Resource Adequacy Study,” Newfoundland and Labrador Hydro, rev. August 26, 2024, (originally filed July 9, 2024), app. B, att. 1, p. 6.  
<sup>4</sup> Hydro’s Reliability Planning Models do not differentiate between DAFOR and DAUFOP but rather utilize the forced outage rate derived from these metrics.

**Table 2: Holyrood Unit 2 DAFOR Performance**

<b>Year</b>	<b>DAFOR (%)</b>
2019	10.24
2020	7.78
2021	26.19
2022	5.86
2023	46.06

**Table 3: Holyrood Unit 3 DAFOR Performance**

<b>Year</b>	<b>DAFOR (%)</b>
2019	0.67
2020	0.52
2021	42.12
2022	6.10
2023	27.48