

1 Q. **Reference: RRAS, 2022 Update, Vol. I, page ( pdf)**

2 Citation:

3 There are two commitments for firm exports—a commitment for firm capacity  
4 (Nova Scotia Block) and a commitment for firm energy (Supplemental Energy).  
5 Delivery of the Nova Scotia Block commenced in August 2021, with the first  
6 physical delivery occurring on August 17, 2021.<sup>66</sup> Delivery of Supplemental  
7 Energy<sup>67</sup> commenced in November 2021, with the first physical delivery  
8 occurring on November 1, 2021. As per the Energy and Capacity Agreement, in  
9 instances where the LIL is fully unavailable, Hydro is not obligated to deliver the  
10 Nova Scotia Block or Supplemental Energy. In instances where the LIL is partially  
11 available, the Nova Scotia Block and Supplemental Energy are delivered on a pro  
12 rata basis.

13 **a)** Please confirm that deliveries under the Nova Scotia Block and Supplemental Energy have in  
14 fact been reduced on a pro rata basis, based on LIL availability.

15 **b)** Please explain if this pro rata calculation is made on a monthly basis, on an hourly basis, or  
16 on some other basis.

17 **c)** During the periods when the LIL is partially unavailable, has energy had to be obtained from  
18 any other source to support deliveries under the Nova Scotia Block and Supplemental  
19 Energy? If so, please detail these sources.

20 **d)** Please provide a table showing LIL availability and deliveries of Nova Scotia Block and  
21 Supplemental Energy, on a monthly basis since January 2021.

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24 **A. a)** In instances where the Labrador-Island Link (“LIL”) is partially available (i.e., monopole  
25 mode), the loss of the pole would result in under frequency load shedding to Island  
26 customers if deliveries to Newfoundland and Labrador Hydro (“Hydro”) were to exceed  
27 30 or 40 MW, depending on system conditions. On this basis, operating restrictions are in  
28 place to restrict Hydro energy deliveries when the LIL is in service in monopole mode to  
29 ensure reliable service for customers. The ratio of the energy deliveries to Nova Scotia and  
30 to Hydro is reflective of this operating restriction. Nova Scotia is capable of accepting  
31 significantly higher power transfers during monopole operation of the LIL without subjecting

1 customers to adverse risk. This is because the power system in Nova Scotia is synchronously  
2 tied to the North American Grid and the interruption of power flows from Newfoundland  
3 and Labrador would not result in customer impact.

4 **b)** *Pro rata* calculation occurs on an hourly basis.

5 **c)** During periods when the LIL is partially available, energy is not obtained from other sources  
6 to support the Nova Scotia Block and Supplemental Energy deliveries. Both commitments  
7 can only be met with energy from the Muskrat Falls Hydroelectric Generating Facility. If the  
8 full contractual commitment cannot be met, it must be delivered at a later date once the LIL  
9 is fully available.

10 **d)** Table 1 provides LIL, Nova Scotia Block, and Supplemental Energy deliveries on a monthly  
11 basis since January 2021.

**Table 1: Monthly LIL Deliveries, Nova Scotia Block, and Supplemental Energy Deliveries<sup>1</sup>**

Date	LIL Deliveries		Nova Scotia Block (GWh Generated)	Supplemental Energy (GWh Generated)
	Bipole Operation (GWh)	Monopole Operation (GWh)		
January 2021	0.0	90.9	0.0	0.0
February 2021	25.9	11.8	0.0	0.0
March 2021	48.7	0.0	0.0	0.0
April 2021	101.4	1.0	0.0	0.0
May 2021	10.9	25.3	0.0	0.0
June 2021	0.0	6.4	0.0	0.0
July 2021	0.0	8.5	0.0	0.0
August 2021	17.4	11.4	6.4	0.0
September 2021	106.7	0.0	20.0	0.0
October 2021	0.0	0.0	0.0	0.0
November 2021	89.6	0.0	23.6	14.8
December 2021	79.1	0.0	32.8	17.7
January 2022	161.7	3.5	66.6	35.5
February 2022	99.8	38.3	74.7	37.7
March 2022	0.0	31.0	23.3	11.1
April 2022	94.2	21.5	70.8	36.6
May 2022	30.4	89.3	72.8	39.5
June 2022	29.3	34.8	38.7	12.7
July 2022	34.9	69.6	79.5	0.0
August 2022	47.9	21.6	37.4	0.0
September 2022	62.6	3.8	44.8	0.0
October 2022	148.0	6.1	96.9	0.0
November 2022	64.5	87.4	92.0	47.6
December 2022	54.8	83.6	54.2	35.4

<sup>1</sup> LIL deliveries include purchases as a result of testing activity as well as deliveries that are then exported over the Maritime Link.