

1 Q. With reference to the Project **C-67, Replace Battery Banks and Chargers 2013**, with  
2 reference to Table 1: 2013 Battery and Charger Replacements (Volume II, Tab 27),  
3 provide the following information with respect to each location:

4 (a) Whether the batteries to be replaced at that location are flooded-cell or VRLA;

5 (b) The proposed capital expenditure for each location;

6 (c) The number of batteries at each location which have been tested and found to  
7 have a capacity of 80% or less of its rated capacity, per IEEE Standard 450 and  
8 1188.

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11 A. (a) The following Table 1: IC-NLH-34 Battery Type details the type of battery to be  
12 replaced at each location.

Table 1: IC-NLH-34 Battery Type		
#	Location	Battery Type
1	Bay d'Espoir Plant/Power House 2	Flooded
2	Hawke's Bay Diesel Plant	Flooded
3	Peter's Barren Terminal Station	Flooded
4	Berry Hill Terminal Station	Flooded
5	Nain Diesel Plant (2 Banks)	VRLA
6	Cartwright Diesel Plant	VRLA
7	Nain Diesel Plant	VRLA
8	L'Anse au Loup Border	VRLA

13 (b) The following Table 2: IC-NLH-34 Location Cost Breakdown details the proposed  
14 capital expenditure for each location.

Table 2: IC-NLH-34 Location Cost Breakdown		
#	Location	Loaded Costs
1	Bay d'Espoir Plant/Power House 2	73.8
2	Hawke's Bay Diesel Plant	82.6
3	Peter's Barren Terminal Station	73.5
4	Berry Hill Terminal Station	64.5
5	Nain Diesel Plant (2 Banks)	27.1
6	Cartwright Diesel Plant	10.9
7	Nain Diesel Plant	10.9
8	L'Anse au Loup Border	15.7
9	Bottom Waters Terminal Station	48.5
10	Springdale Terminal Station	48.0
11	Peter's Barren Terminal Station	44.1
12	Wabush Substation	48.0
13	Happy Valley Terminal Station	48.1
14	Indian River Terminal Station	48.1
15	Berry Hill Terminal Station	51.9
16	Bay d'Espoir Plant/Power House 2	86.3
Totals :		782.0

- 15 (c) None of the batteries in this proposal have been tested to determine if they
- 16 have a capacity of 80 percent or less of their rated capacity. The justification for
- 17 replacement is based on exceeding the rated service life of the batteries and not
- 18 waiting for them to degrade below an acceptable performance level.