

1 Q. **Re Replace and Purchase of Stator Windings, page B- 4**

2 Detail the operating conditions applicable to Unit No. 2 as mentioned in Section 3.6
3 of the Report at Volume II, Tab 2), and indicate in respect of each such condition
4 how and to what extent life of the windings is affected by each condition.

5

6

7 A. The operating conditions which affect the life of the windings are the number of
8 starts and stops over the generator's life, the electrical loading on the generator,
9 the operating temperature of the windings, and the preventive maintenance
10 program, specifically cleaning of the windings.

11

12 The amount of generation required on the Island Interconnected System varies
13 throughout the year. As such, the generators are run at less than full loading for
14 the majority of the year, and the number of starts and stops is kept to a minimum.
15 Additionally, the stator windings at the Bay d'Espoir Hydroelectric Generating
16 Station are cleaned routinely as part of the preventive maintenance program. Due
17 to these factors, the service life of the stator windings of Units 1 through 4 will be at
18 the high end of the 40 to 50 year service life estimated by the manufacturer.