

1 Q. **Project B-25, Replace Emergency Diesel Generator (Bay d'Espoir):**

2 On how many occasions since 1967 has Bay d'Espoir experienced a black start (black  
3 plant) condition? What were the causes of each black start (black plant) condition  
4 experienced?

5

6

7 A. Since 1974, three black start conditions have occurred. Each was caused by a  
8 different problem, namely: 1) a system fault; 2) a system design issue; and 3) a  
9 failed inverter. Records are not available that identify the exact number of black  
10 start conditions that occurred between 1967 and 1974.

11

12 The existing 200 kW backup emergency diesel generating unit installed at Bay  
13 d'Espoir is unable to adequately supply the generation output required to meet  
14 essential station service load during a black start. The proposed 500 kW emergency  
15 diesel generator will provide sufficient increased capacity to support that load if it is  
16 incurred during adverse winter conditions. The highest essential station service load  
17 under a black start condition would be experienced in the winter as compared to a  
18 summer time event.