| 1 | Q. | In the System Operating Instructions (Appendix A of exhibit JRH-3), | | | |
|----|----|---|--|--|--|
| 2 | | step five states that all standby generators should be started "in order of | | | |
| 3 | | increasing average energy production cost with due consideration for unit | | | |
| 4 | | start-up time". Please provide a listing of all standby generators showing: | | | |
| 5 | | (a) the location | | | |
| 6 | | (b) the net capacity available | | | |
| 7 | | (c) the average energy production cost | | | |
| 8 | | (d) the normal dispatch sequence, and | | | |
| 9 | | (e) the normal unit start up times (by season if there is a seasonal | | | |
| 10 | | variation) | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | Α. | Please refer to the attached table. There are no seasonal variances in the | | | |
| 14 | | start up times. The normal dispatch sequence is illustrative and can vary | | | |
| 15 | | particularly depending on the rate of load increase and the amount of | | | |
| 16 | | generation required. | | | |
| | | | | | |

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| Location | Capacity (MW) | Average Energy Production Cost (\$/kWh) | Normal Dispatch Sequence | Start-up Time |
|--------------------------------|------------------|---|--------------------------------|---------------|
| Hardwoods Gas Turbine | 54 | \$0.0755 | 1 | 8 minutes |
| Hawkes Bay Diesel Plant | 5 | \$0.1135 | 4 | 3 minutes |
| Holyrood Gas Turbine | 10 | \$0.1163 | 3 | 15 minutes |
| St. Anthony Diesel Plant | 8 | \$0.1141 | 4 | 3 minutes |
| Stephenville Gas Turbine | 54 | \$0.0910 | 2 | 8 minutes |
| Roddickton Mobile Diesel Plant | 1.7 | \$0.0889 | 6 | 30 minutes |

Newfoundland and Labrador Hydro Standby Generation

Newfoundland Power Standby Generation

| Location | Capacity (MW) | Average Energy Production Cost (\$/kWh) | Normal Dispatch Sequence | Start-up Time |
|-------------------------|------------------|---|--------------------------------|---------------|
| Greenhill Gas Turbine | 25 | \$0.1219 | 5 | 12 minutes |
| Mobile Gas Turbine | 7 | \$0.1219 | 6 | 60 minutes |
| Wesleyville Gas Turbine | 15 | \$0.1219 | 5 | 12 minutes |
| Various Diesel Units | 6.9 | \$0.1064 | 6 | 45 to 60 min. |

Note 1: Production costs for illustrative purposes - January 2003 Costs Note 2: Roddickton, Stephenville and Hardwoods costs low due to infrequent fuel purchases