

1 Q. Provide details of the calculation of monthly LOLH for the Island
2 Interconnected system for each month for 2000. Include in the details the
3 following:

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- 5 a) monthly capacity of hydraulic generation;
- 6 b) monthly peak loads on the system;
- 7 c) monthly available capacity for thermal;
- 8 d) forced outage rate assumptions on thermal; and
- 9 e) maintenance assumptions on thermal.

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12 A. a) See attached table.

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14 b) See attached table.

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16 c) See attached table.

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18 d) The forced outage rate assumptions on thermal plant are:

19 Holyrood units 1, 2, and 3: 10.11%

20 Gas turbines: 9.02%

21 Diesel units: 1.18%

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23 e) The maintenance assumptions on thermal plant are:

24 Holyrood units 1, 2, and 3: 8 weeks per year/unit

25 Gas turbines: 2 weeks per year/unit

26 Diesel units: 2 weeks per year/unit

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- 1 Hydro also assumes that thermal unit maintenance will be performed
- 2 in the period from April through November.

Island Interconnected System Monthly LOLH Calculation Details for 2000												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Monthly LOLH (hours)	0.07736	0.11671	0.01278	0.00011	0.00004	0.00008	0.00000	0.00000	0.00000	0.00010	0.00843	0.22016
(a) Hydraulic Capacity (MW)	1179	1179	1179	1179	1179	1179	1179	1179	1179	1179	1179	1179
(b) Peak Loads (MW)	1427	1426	1347	1222	1146	1101	909	895	961	1142	1326	1443
(c) Available Thermal Capacity (MW)	652	652	652	652	491	491	390	405	510	510	652	652