

1 requirements of our customers and remains unchanged from previous
2 submissions.

3 Hydro has a capacity reserve target for planning purposes based on a loss of
4 load expectation (LOLE) index related to the Total Island Interconnected
5 System. Our reserve target suggests that Hydro would be unable to serve
6 customer load due to an insufficiency of generating capacity no more than
7 "one day in five years" or 0.2 days per year. In addition, Hydro has adopted
8 an energy capability criterion that the Island System shall have sufficient
9 generating capability to supply all of its needs under firm water conditions.
10 Table 1 shows the projected LOLE indices and the energy balances for the
11 next 10 years. We can see from this table that additional peaking capacity will
12 be required in 1993 and additional energy capability in 1996.

13 **TABLE 1**
14 **TOTAL ISLAND INTERCONNECTED SYSTEM**
15 **LOLE INDICES AND ENERGY BALANCES**

16 <u>YEAR</u>	17 <u>COINCIDENT</u> <u>PEAK DEMAND</u> (MW)	18 <u>INSTALLED</u> <u>CAPACITY</u> (MW)	19 <u>LOLE</u> <u>INDEX**</u> (DAYS/YR)	20 <u>ENERGY</u> <u>NEEDS</u> (gW.h)	21 <u>FIRM ENERGY</u> <u>CAPABILITY</u> (gW.h)	22 <u>ENERGY</u> <u>BALANCE</u> (gW.h)
23 1991	1480	1837	0.0547	7547	8332	785
24 1992	1536	1837	0.1597	7812	8332	520
25 1993	1591	1837	<u>0.4006</u>	8013	8332	319
26 1994	1627	1837	0.7060	8162	8332	170
27 1995	1666	1837	1.2569	8331	8332	1
28 1996	1688	1837	1.7540	8427	8332	<u>-95</u>
29 1997	1750	1837	3.9686	8611	8332	-279
30 1998	1785	1837	6.0804	8731	8332	-399
31 1999	1828	1837	9.5607	8907	8332	-575
32 2000	1868	1837	14.6096	9065	8332	-733

NOTE:** The capacity criteria is exceeded when the LOLE Index exceeds 0.2.