1	Q.	Provide the same information as requested in questions 144-148 above for		
2		the gas turbine units at Stephenville and Hardwoods.		
3				
4	A.	<u>RE: IC-144</u>		
5				
6		At the time of the last rate referral both the Stephenville and Hardwoods gas		
7		turbines were assigned common.		
8				
9		<u>RE: IC-145</u>		
10				
11		Neither the Stephenville nor Hardwoods gas turbines were specifically		
12		assigned at the time of the 1992 Report.		
13				
14		<u>RE: IC-146</u>		
15				
16		In 1992, the Stephenville and Hardwoods gas turbines were classified 100%		
17		demand-related. The same treatment has been accorded gas turbine		
18		generation in the 2002 Forecast Cost of Service.		
19				
20		<u>RE: IC-147</u>		
21				
22		1. The table below shows when the generating plants in question		
23		became a part of the Island Interconnected System.		
			Available to Island Interconnected System	
			May, 1977	
		Hardwoods Gas Turbine	November, 1978	

IC-149(Rev) 2001 General Rate Application Page 2 of 4

1 2. Records back to 1977 and 1978 for the Stephenville and Hardwoods 2 Gas Turbines are not readily available, thus data since 1992 are used 3 to answer this question. The table shows the number of times during 1992 through 2000 when each of the plants were operated. To list 4 every incident of operation and the reason for operation is impractical 5 6 because of the limited detail available on the cause of operation. 7 However, operation of these units for testing and synchronous 8 condenser are excluded from the table.

Year	Stephenville Gas Turbine	Hardwoods Gas Turbine
1992	17	22
1993	12	17
1994	10	34
1995	11	15
1996	10	12
1997	1	8
1998	3	17
1999	1	19
2000	1	17

1

2

3

4

5

6

7

8 9 Over this period, Stephenville and Hardwoods gas turbines were used for meeting system generation peak requirements, during emergency situations and for transmission security. When operated for peak requirements all customer classes were served by both gas turbines. When operated for emergency supply and for transmission security the customers in the area of the system where the unit is located would have benefited. For the Stephenville gas turbine the customers benefiting would be Abitibi Consolidated, Newfoundland Power and

- Hydro Rural customers. For the Hardwoods gas turbine the
 customers benefiting would be North Atlantic Refining and
 Newfoundland Power.
 3. The table below provides the number of kWh generated by each unit,
 the amount of fuel consumed by that unit, the cost of the fuel
 consumed, operating and maintenance costs and capital costs for
- 8 each year from 1992 to 2000.

Stephenville Gas Turbine

	Energy Produced	Fuel Consumed	Fuel Cost	O&M Cost	Capital Cost
	(Gross kWh)	(gallons)			
1992	705,600	73,760	\$99,292	\$154,390	\$80,437
1993	1,015,200	88,359	\$110,442	\$169,659	\$9,321
1994	288,000	32,510	\$37,994	\$189,418	\$0
1995	338,400	27,156	\$31,321	\$157,763	\$0
1996	648,000	72,472	\$82,438	\$140,075	\$0
1997	36,000	3,292	\$3,715	\$262,885	\$0
1998	374,400	36,687	\$41,397	\$101,048	\$16,408
1999	201,600	24,446	\$27,608	\$206,053	\$979,631
2000	36,000	11,265	\$13,877	\$2,065,850	\$449,443

Hardwoods Gas Turbine

	Energy Produced (Gross kWh)	Fuel Consumed (gallons)	Fuel Cost	O&M Cost	Capital Cost
1992	2,030,400	130,836	\$127,384	\$183,106	\$0
1993	626,400	59,459	\$57,826	\$687,156	\$0
1994	2,822,400	274,783	\$257,736	\$347,429	\$0
1995	925,200	130,244	\$120,958	\$575,565	\$51,095
1996	972,000	71,207	\$66,130	\$163,619	\$319,196
1997	590,400	50,680	\$47,066	\$128,142	\$604,268
1998	557,200	59,100	\$54,886	\$338,782	\$111,031
1999	792,000	82,638	\$76,309	\$279,329	\$0
2000	223,200	33,739	\$34,573	\$359,940	\$0

Operating and maintenance costs include the gas turbine operator's
 salary for 1992 to 1997. For 2000, the O&M cost includes the gas
 turbine operator and other required labour expenses.

<u>RE: IC-148</u>

6 7

8

4

5

The annual revenue for Stephenville and Hardwoods was determined using the same methodology as IC-148. See table below.

Year	Stephenville	Hardwoods
1992	\$30,370	\$87,104
1993	\$43,146	\$26,622
1994	\$12,499	\$122,492
1995	\$14,484	\$39,599
1996	\$27,929	\$41,893
1997	\$1,588	\$26,037
1998	\$17,410	\$25,910
1999	\$9,435	\$37,066
2000	\$1,634	\$10,133