

By Fax

September 7, 2001

G. Cheryl Blundon
Board Secretary
Board of Commissioners of Public Utilities
Suite E210, Prince Charles Building
120 Torbay Road
P.O. Box 21040
St. John's, NF
A1A 5B2

Dear Ms. Blundon:

Re: Newfoundland & Labrador Hydro's 2001 General Rate Application

Please find enclosed the original plus seventeen (17) copies of Newfoundland and Labrador Hydro's responses to Newfoundland Power's Requests for Information for the following numbers:

NP-227 and NP-276.

Yours truly,

Newfoundland and Labrador Hydro

Maureen P. Greene, Q.C.
Vice-President & General Counsel
MPG/jc

cc: Gillian Butler, Q.C. and Peter Alteen
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Mr. Edward M. Hearn, Q.C.
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Mr. Dennis Peck
Director of Economic Development
Town of Happy Valley-Goose Bay
P.O. Box 40, Station B
Happy Valley-Goose Bay
Labrador, NF
A0P 1E0

1 Q. For the budget item identified below, provide the following information:

2

<i>Budget Item</i>	<i>Amount</i>	<i>Description</i>
B-26	\$496,000	Upgrade TL227 (69kV Berry Hill – Daniels Harbour)

3

4 (a) Further to the Table 4.1 of the Northern Peninsula Upgrading report
5 provided in PUB-18.0, provide the date, time, duration and cause of
6 each transient and sustained outage.

7

8 (b) What improvement in these statistics does Hydro expect subsequent
9 to completion of the project?

10

11 A. (a) The following tables provide line outage data for TL 227 for both
12 sustained and transient forced outages as recorded in both of Hydro's
13 equipment outage databases. The Transmission Equipment Forced
14 Outage (TEFO) database records forced outage information in a
15 manner consistent with the reporting standards of the Canadian
16 Electricity Association (CEA), which accommodates the requirements
17 of all reporting utilities in Canada. The System Performance and
18 Protection (SP&P) database is an internally developed and maintained
19 database. SP&P information is gathered in a manner so as to provide
20 details specific to Hydro's equipment, with particular emphasis upon
21 protection and control equipment performance. When comparing the
22 information obtained from the two databases, it is important to be
23 aware of the differences between the purpose and reporting
24 requirements associated with each.

25

26

1 Sustained outage data (Table 1) from the TEFO database is provided
 2 for the period 1992 - 1999 inclusive, while transient outage data is
 3 provided for the period 1996-1999 inclusive. Note that sustained
 4 outage data for 66/69 kV class equipment was not collected in a
 5 manner consistent with the reporting standards of the Canadian
 6 Electricity Association (CEA) until early in 1992. Likewise, momentary
 7 outage data for 66/69 kV class equipment was not collected until
 8 1997. Information from the SP&P database is provided for the period
 9 1990-1999. Note that information from the SP&P database (Table 2)
 10 was used as the basis for Table 4.1 of the Northern Peninsula
 11 Upgrading Report.

TABLE 1

TEFO Database Entries			
Date and Time	Duration (Minutes)	Cause	Sustained/Momentary
1992	5 h 36 m	Adverse Weather	S
1992	0 h 5 m	Adverse Weather	S
1992	0 h 3 m	Adverse Weather	S
1992	0 h 2 m	Adverse Weather	S
1992	34 h 56 m	Adverse Weather	S
9/24/93 12:50	0 h 38 m	Adverse Weather	S
11/29/93 13:15	5 h 5 m	Defective Equipment	S
7/27/94 16:37	0 h 43 m	Adverse Weather	S
8/18/94 7:30	3 h 17 m	Adverse Weather	S
9/25/94 9:16	1 h 28 m	Adverse Environment	S
11/7/94 10:20	6 h 45 m	Defective Equipment	S
2/6/95 2:25	8 h 52 m	Defective Equipment	S
3/9/95 19:14	118 h 0 m	Adverse Weather	S
12/10/95 19:47	3 h 50 m	Adverse Weather	S
2/10/96 5:38	2 h 35 m	Adverse Weather	S
3/22/96 21:21	0 h 49 m	Adverse Environment	S
8/10/96 0:58	3 h 1 m	Adverse Weather	S
8/30/96 2:10	0 h 7 m	Adverse Weather	S
12/22/96 9:34	0 h 2 m	Adverse Weather	S
12/22/96 9:40	5 h 26 m	Adverse Environment	S
12/22/96 21:22	0 h 2 m	Adverse Weather	S

TEFO Database Entries			
Date and Time	Duration (Minutes)	Cause	Sustained/Momentary
12/22/96 21:55	0 h 1 m	Adverse Weather	S
12/22/96 23:56	1 h 18 m	Adverse Weather	S
12/22/96 23:57	0 h 1 m	Adverse Weather	S
12/23/96 0:03	0 h 4 m	Adverse Weather	S
12/23/96 0:39	0 h 2 m	Adverse Weather	S
12/23/96 0:46	0 h 3 m	Adverse Weather	S
12/23/96 1:25	0 h 57 m	Adverse Weather	S
12/23/96 7:29	0 h 43 m	Adverse Weather	S
12/31/96 8:29	0 h 2 m	Adverse Weather	S
12/31/96 8:32	0 h 2 m	Adverse Weather	S
12/31/96 14:22	0 h 1 m	Adverse Weather	S
12/31/96 16:53	0 h 1 m	Adverse Weather	S
12/31/96 21:17	0 h 1 m	Adverse Weather	S
12/31/96 21:52	0 h 1 m	Adverse Weather	S
12/31/96 21:53	0 h 44 m	Adverse Weather	S
1/3/97 23:20	0 h 0 m	Adverse Environment	M
1/5/97 0:47	0 h 0 m	Adverse Environment	M
1/6/97 19:26	0 h 0 m	Adverse Environment	M
1/6/97 22:17	0 h 2 m	Adverse Environment	S
10/1/97 3:10	0 h 0 m	Adverse Weather	M
7/23/98 0:28	0 h 0 m	Adverse Weather	M
12/14/98 10:56	0 h 0 m	Adverse Weather	M
12/30/98 17:03	0 h 0 m	Adverse Weather	M
12/30/98 17:22	0 h 0 m	Adverse Weather	M
12/30/98 17:27	0 h 0 m	Adverse Weather	M
12/30/98 18:27	0 h 0 m	Adverse Weather	M
12/30/98 18:33	0 h 0 m	Adverse Weather	M
12/30/98 18:36	0 h 0 m	Adverse Weather	M
12/30/98 19:03	0 h 0 m	Adverse Weather	M
12/30/98 19:08	0 h 0 m	Adverse Weather	M
1/4/99 17:37	0 h 0 m	Adverse Weather	M
3/16/99 15:07	0 h 0 m	Unknown	M
7/23/99 18:42	0 h 0 m	Adverse Weather	M
10/17/99 5:43	0 h 0 m	Adverse Weather	M
10/17/99 5:51	0 h 0 m	Adverse Weather	M
10/17/99 5:52	0 h 0 m	Adverse Weather	M
10/17/99 5:54	0 h 0 m	Adverse Weather	M
10/17/99 5:59	0 h 0 m	Adverse Weather	M
10/17/99 6:00	0 h 0 m	Adverse Weather	M
10/17/99 6:02	0 h 0 m	Adverse Weather	M
10/17/99 6:05	0 h 0 m	Adverse Weather	M
10/17/99 6:06	0 h 0 m	Adverse Weather	M

TEFO Database Entries			
Date and Time	Duration (Minutes)	Cause	Sustained/Momentary
10/17/99 6:07	0 h 0 m	Adverse Weather	M
10/17/99 6:08	0 h 0 m	Adverse Weather	M
10/17/99 6:09	0 h 0 m	Adverse Weather	M
10/17/99 6:10	0 h 0 m	Adverse Weather	M
10/17/99 6:11	0 h 0 m	Adverse Weather	M
10/17/99 6:12	1 h 36 m	Adverse Weather	S
10/17/99 7:05	0 h 0 m	Adverse Weather	M
10/17/99 7:07	0 h 0 m	Adverse Weather	M
10/17/99 7:17	0 h 0 m	Adverse Weather	M
10/17/99 7:18	0 h 0 m	Adverse Weather	M
10/17/99 7:52	0 h 0 m	Adverse Weather	M
10/17/99 7:56	0 h 0 m	Adverse Weather	M
10/17/99 7:59	0 h 0 m	Adverse Weather	M
10/17/99 8:09	0 h 0 m	Adverse Weather	M
10/17/99 8:10	0 h 4 m	Adverse Weather	S
10/17/99 8:14	0 h 0 m	Adverse Weather	M
10/17/99 8:15	0 h 0 m	Adverse Weather	M
10/17/99 8:16	0 h 0 m	Adverse Weather	M
10/17/99 8:19	0 h 0 m	Adverse Weather	M
10/17/99 8:20	0 h 0 m	Adverse Weather	M
10/17/99 8:21	0 h 0 m	Adverse Weather	M
10/17/99 8:22	0 h 0 m	Adverse Weather	M
10/17/99 8:23	0 h 0 m	Adverse Weather	M
10/17/99 8:24	0 h 0 m	Adverse Weather	M
10/17/99 8:26	0 h 0 m	Adverse Weather	M
10/17/99 8:27	0 h 0 m	Adverse Weather	M
10/17/99 8:28	0 h 0 m	Adverse Weather	M
10/17/99 8:29	0 h 0 m	Adverse Weather	M
10/17/99 8:30	0 h 0 m	Adverse Weather	M
10/17/99 8:31	0 h 0 m	Adverse Weather	M
10/17/99 8:32	0 h 0 m	Adverse Weather	M
10/17/99 8:33	0 h 0 m	Adverse Weather	M
10/17/99 8:34	0 h 0 m	Adverse Weather	M
10/17/99 8:35	0 h 0 m	Adverse Weather	M
10/17/99 8:40	0 h 0 m	Adverse Weather	M
10/17/99 8:41	0 h 0 m	Adverse Weather	M
10/17/99 8:45	0 h 0 m	Adverse Weather	M
10/17/99 8:46	0 h 0 m	Adverse Weather	M
10/17/99 8:47	0 h 0 m	Adverse Weather	M
10/17/99 8:49	0 h 0 m	Adverse Weather	M
10/17/99 8:50	0 h 0 m	Adverse Weather	M
10/17/99 8:51	0 h 0 m	Adverse Weather	M

TEFO Database Entries			
Date and Time	Duration (Minutes)	Cause	Sustained/Momentary
10/17/99 8:52	7 h 5 m	Adverse Weather	S
10/17/99 9:09	0 h 0 m	Adverse Weather	M
10/24/99 2:54	0 h 0 m	Adverse Weather	M
6/22/00 9:17	1 h 33 m	Defective Equipment	S
7/18/00 15:44	0 h 0 m	Adverse Weather	M
9/27/00 14:02	0 h 34 m	Defective Equipment	S

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TABLE 2

SP&P Database Entries			
DATE	TIME	Cause	Reclosing
10-Jul-90	2100	Lightning	no
7-Sep-90	2355	Unknown	no
6-Dec-90	0438	Salt Contamination	no
5-Mar-91	1337	Defective Equipment	no
6-Aug-91	1303	Salt Contamination	no
20-Aug-91	2105	Salt Contamination	yes
20-Aug-91	2140	Salt Contamination	yes
20-Aug-91	2152	Salt Contamination	yes
20-Aug-91	2203	Salt Contamination	yes
20-Aug-91	2207	Salt Contamination	yes
20-Aug-91	2217	Salt Contamination	yes
20-Nov-91	0600	Unknown	yes
3-Dec-91	0900	Defective Equipment	No
15-Jan-92	1044	Defective Equipment	No
14-Apr-92	0502	High Winds	yes
14-Apr-92	0507	High Winds	yes
14-Apr-92	0511	High Winds	yes
14-Apr-92	0522	High Winds	yes
19-Aug-92	0035	Defective Equipment	No
19-Aug-92	0426	Defective Equipment	No
19-Aug-92	0430	Defective Equipment	yes
19-Aug-92	0436	Defective Equipment	yes
19-Aug-92	0436	Defective Equipment	No
19-Aug-92	0438	Defective Equipment	yes
19-Aug-92	0440	Defective Equipment	No
19-Aug-92	0440	Defective Equipment	No
19-Aug-92	0615	Defective Equipment	No
29-Jul-93	2131	Lightning	yes
24-Sep-93	1250	Salt Contamination	No

SP&P Database Entries			
DATE	TIME	Cause	Reclosing
22-Mar-96	1844	Salt Contamination	yes
22-Mar-96	1844	Salt Contamination	yes
22-Mar-96	1844	Salt Contamination	yes
22-Mar-96	1844	Salt Contamination	yes
22-Mar-96	1844	Salt Contamination	yes
10-Aug-96	0058	Lightning	No
30-Aug-96	0210	Unknown	No
9-Dec-96	1945	High Winds	yes
9-Dec-96	2041	High Winds	yes
9-Dec-96	2124	High Winds	yes
9-Dec-96	2124	High Winds	yes
9-Dec-96	2124	High Winds	yes
9-Dec-96	2124	High Winds	yes
9-Dec-96	2124	High Winds	yes
9-Dec-96	2124	High Winds	yes
9-Dec-96	2124	High Winds	yes
9-Dec-96	2124	High Winds	yes
20-Dec-96	2338	Salt Contamination	yes
21-Dec-96	0023	Salt Contamination	yes
22-Dec-96	0901	Salt Contamination	yes
22-Dec-96	0926	Salt Contamination	yes
22-Dec-96	0934	Salt Contamination	No
22-Dec-96	0940	Salt Contamination	No
22-Dec-96	2122	Salt Contamination	No
22-Dec-96	2155	Salt Contamination	No
22-Dec-96	2332	Salt Contamination	yes
22-Dec-96	2332	Salt Contamination	yes
22-Dec-96	2356	Salt Contamination	No
23-Dec-96	0003	Salt Contamination	No
23-Dec-96	0003	Salt Contamination	No
23-Dec-96	0003	Salt Contamination	No
23-Dec-96	0125	Salt Contamination	No
23-Dec-96	0518	Salt Contamination	No
23-Dec-96	0518	Salt Contamination	No
23-Dec-96	0518	Salt Contamination	No
23-Dec-96	0729	Salt Contamination	No
31-Dec-96	0829	Salt Contamination	yes
31-Dec-96	0829	Salt Contamination	No
31-Dec-96	0829	Salt Contamination	No
31-Dec-96	0829	Salt Contamination	yes
31-Dec-96	0829	Salt Contamination	yes
31-Dec-96	0829	Salt Contamination	yes
31-Dec-96	0829	Salt Contamination	yes

SP&P Database Entries			
DATE	TIME	Cause	Reclosing
31-Dec-96	0829	Salt Contamination	yes
31-Dec-96	0829	Salt Contamination	yes
31-Dec-96	0829	Salt Contamination	yes
31-Dec-96	0829	Salt Contamination	yes
31-Dec-96	0829	Salt Contamination	No
31-Dec-96	0829	Salt Contamination	yes
31-Dec-96	0829	Salt Contamination	yes
31-Dec-96	0829	Salt Contamination	No
31-Dec-96	0829	Salt Contamination	No
31-Dec-96	0829	Salt Contamination	yes
31-Dec-96	2055	Salt Contamination	yes
31-Dec-96	2055	Salt Contamination	yes
31-Dec-96	2055	Salt Contamination	yes
31-Dec-96	2117	Salt Contamination	No
31-Dec-96	2117	Salt Contamination	No
31-Dec-96	2117	Salt Contamination	No
3-Jan-97	2320	Salt Contamination	yes
4-Jan-97	1021	Salt Contamination	No
5-Jan-97	0047	Salt Contamination	yes
6-Jan-97	0413	Salt Contamination	No
6-Jan-97	1509	Salt Contamination	No
6-Jan-97	1720	Salt Contamination	No
6-Jan-97	1746	Salt Contamination	No
6-Jan-97	1748	Salt Contamination	No
6-Jan-97	1837	Salt Contamination	No
6-Jan-97	1926	Salt Contamination	No
6-Jan-97	2217	Salt Contamination	No
29-Jan-97	2001	Salt Contamination	No
29-Jan-97	2017	Defective Equipment	No
1-Oct-97	0310	Lightning	yes
23-Jul-98	0028	Lightning	yes
14-Dec-98	1056	Salt Contamination	yes
30-Dec-98	1703	High Winds	yes
30-Dec-98	1703	High Winds	yes
30-Dec-98	1703	High Winds	yes
30-Dec-98	1827	High Winds	yes
30-Dec-98	1827	High Winds	yes
30-Dec-98	1827	High Winds	yes
30-Dec-98	1903	High Winds	yes
30-Dec-98	1903	High Winds	yes
4-Jan-99	1737	High Winds	yes
16-Mar-99	1507	Unknown	yes

SP&P Database Entries			
DATE	TIME	Cause	Reclosing
17-Oct-99	0752	Salt Contamination	yes
17-Oct-99	0752	Salt Contamination	yes
17-Oct-99	0752	Salt Contamination	yes
17-Oct-99	0752	Salt Contamination	yes
24-Oct-99	0747	High Winds	No
24-Oct-99	0254	High Winds	yes

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Note: Events showing the same date and time indicates that a number of recloses took place, starting at the time indicated.

(b) Upgrading this line will reduce outages resulting from salt contamination.

1 Q. Provide the projected 2001 and 2002 plant activity by function, including
2 the beginning-of-year and end-of-year plant balances.

3

4 A. The following tables provide the projected 2001 and 2002 plant activity by
5 class of assets.

Newfoundland and Labrador Hydro
 Plant Activity-Fixed Assets
 2001-2002

	Balance 31-Dec-00	Additions	Retirements and Transfers	Balance 31-Dec-01	Additions	Retirements and Transfers	Balance 31-Dec-02
Hydraulic	716,958,874	1,821,600	(150,902)	718,629,572	4,862,900	(397,443)	723,095,029
Thermal	177,462,905	4,050,400	(182,822)	181,330,483	1,026,200	0	182,356,683
Gas Turbines	45,664,558	164,700	(35,859)	45,793,399	0	0	45,793,399
Diesel Generation	53,640,898	9,363,922	(144,748)	62,860,072	2,993,100	(336,742)	65,516,430
Transmission Lines	262,843,672	21,119,400	(1,387,145)	282,575,927	16,289,200	(1,198,809)	297,666,318
Sub-Station	161,797,475	2,165,207	(43,874)	163,918,808	614,101	(111,016)	164,421,893
Distribution	116,343,521	3,951,218	(350,169)	119,944,570	5,030,575	(1,255,534)	123,719,611
Meters	2,906,282	265,900	37,608	3,209,790	234,300	0	3,444,090
Telecontrol	31,783,196	12,360,100	(584,758)	43,558,538	9,869,900	(64,101)	53,364,337
General Plant	94,429,077	5,352,000	(1,317,660)	98,463,417	6,738,112	(2,021,146)	103,180,383
Feasibility Studies, Short Term	121,504	0	0	121,504	200,000	0	321,504
Feasibility Studies, Long Term	2,109,570	158,100	0	2,267,670	0	0	2,267,670
Computer Software	12,740,544	1,339,500	0	14,080,044	620,300	0	14,700,344
Total	1,678,802,076	62,112,047	(4,160,329)	1,736,753,794	48,478,688	(5,384,791)	1,779,847,691

Newfoundland and Labrador Hydro
 Plant Activity-Contributions
 2001-2002

	Balance 31-Dec-00	Additions	Retirements and Transfers	Balance 31-Dec-01	Additions	Retirements and Transfers	Balance 31-Dec-02
Hydraulic	20,507,840	0	(420)	20,507,420	0	0	20,507,420
Thermal	13,929	0	0	13,929	0	0	13,929
Gas Turbines	0	0	0	0	0	0	0
Diesel Generation	8,505,715	0	(114,660)	8,391,055	0	(216,906)	8,174,149
Transmission Lines	13,292,488	0	0	13,292,488	0	(488,856)	12,803,632
Sub-Station	15,349,441	0	37,317	15,386,758	0	0	15,386,758
Distribution	27,603,188	115,140	(142,527)	27,575,801	0	(944,694)	26,631,107
Meters	592,876	0	3,321	596,197	0	0	596,197
Telecontrol	1,530,986	0	0	1,530,986	0	0	1,530,986
General Plant	1,570,956	0	(6,628)	1,564,328	0	(3,657)	1,560,671
Feasibility Studies, Short Term	0	0	0	0	0	0	0
Feasibility Studies, Long Term	0	0	0	0	0	0	0
Computer Software	0	0	0	0	0	0	0
Total	88,967,419	115,140	(223,597)	88,858,962	0	(1,654,113)	87,204,849

Newfoundland and Labrador Hydro
Plant Activity-Accumulated Depreciation
2001-2002

	Balance 31-Dec-00	2001 Depreciation Expense	Retirements and Transfers	Balance 31-Dec-01	2002 Depreciation Expense	Retirements and Transfers	Balance 31-Dec-02
Hydraulic	26,980,526	2,865,093	(32,962)	29,812,657	3,185,149	(40,240)	32,957,566
Thermal	138,994,702	5,129,043	(156,485)	143,967,260	2,017,940	0	145,985,200
Gas Turbines	27,851,462	1,800,606	(35,500)	29,616,568	1,031,947	0	30,648,515
Diesel Generation	19,790,940	2,265,999	(20,156)	22,036,783	2,523,242	(80,577)	24,479,448
Transmission Lines	30,303,199	3,734,253	(475,696)	33,561,756	4,490,151	(281,186)	37,770,721
Sub-Stations	31,539,100	3,739,101	(26,580)	35,251,621	4,025,719	(45,186)	39,232,154
Distribution	26,961,781	2,976,510	(63,013)	29,875,278	3,106,513	(174,113)	32,807,678
Meters	756,884	80,472	0	837,356	91,780	0	929,136
Telecontrol	19,412,182	1,837,219	(527,283)	20,722,118	2,926,926	(64,066)	23,584,978
General Plant	50,163,588	5,955,209	(1,267,645)	54,851,152	5,868,678	(2,090,980)	58,628,850
Feasibility Studies, Short Term	0	0	0	0	20,000	0	20,000
Feasibility Studies, Long Term	1,836,152	123,271	0	1,959,423	104,364	0	2,063,787
Computer Software	5,977,686	2,230,728	0	8,208,414	2,397,885	0	10,606,299
Total	380,568,202	32,737,504	(2,605,320)	410,700,386	31,790,294	(2,776,348)	439,714,332