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

2	
_	

		Budge Item	t Amount	Description
		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, pr	ovide the date, time, duration and cause of
6			each transient and susta	ined outage.
7				
8		(b)	What improvement in the	ese statistics does Hydro expect subsequent
9			to completion of the proje	ect?
10				
11	A.	(a)	The following tables prov	ride line outage data for TL 227 for both
12			sustained and transient t	forced outages as recorded in both of Hydro's
13			equipment outage datab	ases. The Transmission Equipment Forced
14			Outage (TEFO) databas	e records forced outage information in a
15			manner consistent with t	he reporting standards of the Canadian
16			Electricity Association (C	EA), which accommodates the requirements
17			of all reporting utilities in	Canada. The System Performance and
18			Protection (SP&P) datab	ase is an internally developed and maintained
19			database. SP&P information	ation is gathered in a manner so as to provide
20			details specific to Hydro'	s equipment, with particular emphasis upon
21			protection and control ed	uipment performance. When comparing the
22			information obtained from	n the two databases, it is important to be
23			aware of the differences	between the purpose and reporting

requirements associated with each.

25

24

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

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		TEFO Database Entries	Page 3 o
		I EFO Database Entitles	
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

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	Т	EFO 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

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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			

1

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		

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DATE TIME Cause Reclosing 13-Oct-93 1840 Salt Contamination yes 29-Nov-94 1155 Other No 27-Jul-94 1637	SP&P Database Entries				
13-Oct-93 1840 Salt Contamination yes 29-Nov-94 1155 Other No No 25-Sep-94	DATE			Reclosing	
13-Oct-93 1840 Salt Contamination yes 29-Nov-93 1315 High Winds No 25-Sep-94 10916 Salt Contamination yes 7-Nov-94 1020<					
13-Oct-93 1840 Salt Contamination yes 29-Nov-94 1637 Lightning No 25-Sep-94 0916 Salt Contamination yes 7-Nov-94 1020 Defective Equipment No 10-Mar-95 2331 <td></td> <td></td> <td></td> <td></td>					
13-Oct-93 1840 Salt Contamination yes 13-Oct-93 1840 Salt Contamination No 22-Nur-94 1057 Lightning No 18-Aug-94 0810 Lightning No 25-Sep-94 0916 Salt Contamination yes 7-Nov-94 1020 Defective Equipment No 9-Mar-95 1914 <					
13-Oct-93 1840 Salt Contamination yes 29-Nov-93 1315 High Winds No 7-Jan-94 1155 Other No 27-Jul-94 1637 Lightning No 18-Aug-94 0810 Lightning No 18-Aug-94 0810 Lightning No 25-Sep-94 0916 Salt Contamination yes 7-Nov-94 1020 Defective Equipment No 6-Feb-95 0225 Defective Equipment No 10-Mar-95 1914 Defective Equipment No 10-Mar-95 2331 Defective Equipment No 10-Feb-96 0538 Ice Built-up					
13-Oct-93 1840 Salt Contamination yes 29-Nov-93 1315 High Winds No 7-Jan-94 1155 Other No 27-Jul-94 1637 Lightning No 27-Jul-94 1637 Lightning No 18-Aug-94 0810 Lightning No 25-Sep-94 0916 Salt Contamination yes 7-Nov-94 1020 Defective Equipment No 9-Mar-95 1914 Defective Equipment No 10-Mar-95 2331 High Winds yes 10-Mar-95 2331 Defective Equipment No 10-Feb-96 0538 Ice Built-up No 10-Feb-96 0538 Ice Built-up No 22-Mar-96 1844 Salt Contamination yes <td></td> <td></td> <td></td> <td></td>					
13-Oct-93 1840 Salt Contamination yes 13-Oct-93 1840 Salt Contamination yes 13-Oct-93 1840 Salt Contamination yes 29-Nov-93 1840 Salt Contamination yes 29-Nov-93 1315 High Winds No 7-Jan-94 1155 Other No 27-Jul-94 1637 Lightning No 27-Jul-94 1637 Lightning No 28-Sep-94 0810 Lightning No 25-Sep-94 0916 Salt Contamination No 25-Sep-94 0916 Salt Contamination yes 7-Nov-94 1020 Defective Equipment No 9-Mar-95 0225 Defective Equipment No 10-Mar-95 2331 High Winds yes 10-Mar-95 2331 Defective Equipment No 11-Mar-95 0028 Defective Equipment No 12-Mar-96 1844 Salt Contamination yes					
13-Oct-93 1840 Salt Contamination yes 13-Oct-93 1840 Salt Contamination yes 29-Nov-93 1840 Salt Contamination yes 29-Nov-93 1315 High Winds No 7-Jan-94 1155 Other No 27-Jul-94 1637 Lightning No 18-Aug-94 0810 Lightning No 25-Sep-94 0916 Salt Contamination yes 25-Sep-94 0916 Salt Contamination yes 7-Nov-94 1020 Defective Equipment No 6-Feb-95 0225 Defective Equipment No 10-Mar-95 2331 Defective Equipment No 10-Feb-96 0538 Ice Built-up No					
13-Oct-93 1840 Salt Contamination yes 13-Oct-93 1840 Salt Contamination yes 29-Nov-93 1315 High Winds No 7-Jan-94 1155 Other No 27-Jul-94 1637 Lightning No 18-Aug-94 0810 Lightning No 25-Sep-94 0916 Salt Contamination No 25-Sep-94 0916 Salt Contamination yes 7-Nov-94 1020 Defective Equipment No 6-Feb-95 0225 Defective Equipment No 9-Mar-95 1914 Defective Equipment No 10-Mar-95 2331 Defective Equipment No 10-Feb-96 0538 Ice Built-up No 10-Feb-96 0538 Ice Built-up No 22-Mar-96 1844 Salt Contamination yes 22-Mar-96 1844 Salt Contamination yes 22-Mar-96 1844 Salt Contamination					
13-Oct-93 1840 Salt Contamination yes 29-Nov-93 1315 High Winds No 7-Jan-94 1155 Other No 27-Jul-94 1637 Lightning No 18-Aug-94 0810 Lightning No 25-Sep-94 0916 Salt Contamination No 25-Sep-94 0916 Salt Contamination yes 7-Nov-94 1020 Defective Equipment No 6-Feb-95 0225 Defective Equipment No 9-Mar-95 1914 Defective Equipment No 10-Mar-95 2331 High Winds yes 10-Mar-95 2331 Defective Equipment No 11-Mar-95 0028 Defective Equipment No 10-Feb-96 0538 Ice Built-up No 22-Mar-96 1844 Salt Contamination yes 22-Mar-96 1844 Salt Contamination yes 22-Mar-96 1844 Salt Contamination y					
29-Nov-93 1315 High Winds No 7-Jan-94 1155 Other No 27-Jul-94 1637 Lightning No 18-Aug-94 0810 Lightning No 25-Sep-94 0916 Salt Contamination No 25-Sep-94 0916 Salt Contamination yes 7-Nov-94 1020 Defective Equipment No 6-Feb-95 0225 Defective Equipment No 9-Mar-95 1914 Defective Equipment No 10-Mar-95 2331 High Winds yes 10-Mar-95 2331 Defective Equipment No 11-Mar-95 0028 Defective Equipment No 10-Feb-96 0538 Ice Built-up No 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 y				· ·	
7-Jan-94 1155 Other No 27-Jul-94 1637 Lightning No 18-Aug-94 0810 Lightning No 25-Sep-94 0916 Salt Contamination No 25-Sep-94 0916 Salt Contamination yes 7-Nov-94 1020 Defective Equipment No 6-Feb-95 0225 Defective Equipment No 9-Mar-95 1914 Defective Equipment No 10-Mar-95 2331 High Winds yes 10-Mar-95 2331 Defective Equipment No 11-Mar-95 0028 Defective Equipment No 10-Feb-96 0538 Ice Built-up No 22-Mar-96 1844 Salt Contamination yes 22-Mar-96 1844 Salt Contamination				<u> </u>	
27-Jul-94 1637 Lightning No 18-Aug-94 0810 Lightning No 25-Sep-94 0916 Salt Contamination No 25-Sep-94 0916 Salt Contamination yes 7-Nov-94 1020 Defective Equipment No 6-Feb-95 0225 Defective Equipment No 9-Mar-95 1914 Defective Equipment No 10-Mar-95 2331 High Winds yes 10-Mar-95 2331 Defective Equipment No 11-Mar-95 0028 Defective Equipment No 10-Feb-96 0538 Ice Built-up No 22-Mar-96 1844 Salt Contamination yes 22-Mar-96 1844 Salt Contamin					
18-Aug-94 0810 Lightning No 25-Sep-94 0916 Salt Contamination No 25-Sep-94 0916 Salt Contamination yes 7-Nov-94 1020 Defective Equipment No 6-Feb-95 0225 Defective Equipment No 9-Mar-95 1914 Defective Equipment No 10-Mar-95 2331 High Winds yes 10-Mar-95 2331 Defective Equipment No 11-Mar-95 0028 Defective Equipment No 10-Feb-96 0538 Ice Built-up No 22-Mar-96 1844 Salt Contamination yes 22-Mar-96 1844 Sal					
25-Sep-94 0916 Salt Contamination No 25-Sep-94 0916 Salt Contamination yes 7-Nov-94 1020 Defective Equipment No 6-Feb-95 0225 Defective Equipment No 9-Mar-95 1914 Defective Equipment No 10-Mar-95 2331 High Winds yes 10-Mar-95 2331 Defective Equipment No 11-Mar-95 0028 Defective Equipment No 10-Feb-96 0538 Ice Built-up No 22-Mar-96 1844 Salt Contamination yes 22-Mar-96 1844					
25-Sep-94 0916 Salt Contamination yes 7-Nov-94 1020 Defective Equipment No 6-Feb-95 0225 Defective Equipment No 9-Mar-95 1914 Defective Equipment No 10-Mar-95 2331 High Winds yes 10-Mar-95 2331 Defective Equipment No 11-Mar-95 0028 Defective Equipment No 10-Feb-96 0538 Ice Built-up No 22-Mar-96 1844 Salt Contamination yes 22-Mar-96 1844			0 0		
7-Nov-94 1020 Defective Equipment No 6-Feb-95 0225 Defective Equipment No 9-Mar-95 1914 Defective Equipment No 10-Mar-95 2331 High Winds yes 10-Mar-95 2331 Defective Equipment No 11-Mar-95 0028 Defective Equipment No 10-Feb-96 0538 Ice Built-up No 22-Mar-96 1844 Salt Contamination yes					
6-Feb-95 0225 Defective Equipment No 9-Mar-95 1914 Defective Equipment No 10-Mar-95 2331 High Winds yes 10-Mar-95 2331 Defective Equipment No 11-Mar-95 0028 Defective Equipment No 10-Feb-96 0538 Ice Built-up No 22-Mar-96 1844 Salt Contamination yes				<u> </u>	
9-Mar-95 1914 Defective Equipment No 10-Mar-95 2331 High Winds yes 10-Mar-95 2331 Defective Equipment No 11-Mar-95 0028 Defective Equipment No 10-Feb-96 0538 Ice Built-up No 22-Mar-96 1844 Salt Contamination yes 22-Mar-96 1844					
10-Mar-95 2331 High Winds yes 10-Mar-95 2331 Defective Equipment No 11-Mar-95 0028 Defective Equipment No 10-Feb-96 0538 Ice Built-up No 22-Mar-96 1844 Salt Contamination yes 22-Mar-96 1844					
10-Mar-95 2331 Defective Equipment No 11-Mar-95 0028 Defective Equipment No 10-Feb-96 0538 Ice Built-up No 22-Mar-96 1844 Salt Contamination yes				No	
11-Mar-950028Defective EquipmentNo10-Feb-960538Ice Built-upNo22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes					
10-Feb-96 0538 Ice Built-up No 22-Mar-96 1844 Salt Contamination yes 22-Mar-96 184	10-Mar-95	2331	Defective Equipment	No	
22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes	11-Mar-95	0028	Defective Equipment	No	
22-Mar-96 1844 Salt Contamination yes 22-Mar-96	10-Feb-96	0538	Ice Built-up	No	
22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes	22-Mar-96	1844	Salt Contamination	yes	
22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes	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	
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	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	
22-Mar-96 1844 Salt Contamination yes	22-Mar-96	1844	Salt Contamination		
22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes	22-Mar-96		Salt Contamination	·	
22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes	22-Mar-96		Salt Contamination		
22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes	22-Mar-96		Salt Contamination	·	
22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes				·	
22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes					
22-Mar-961844Salt Contaminationyes22-Mar-961844Salt Contaminationyes					
22-Mar-96 1844 Salt Contamination yes					

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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		
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		

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		SP&P Database Entries	ray
DATE	TIME	Cause	Peclosing
31-Dec-96	0829	Salt Contamination	Reclosing
31-Dec-96	0829	Salt Contamination	yes
			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
10-IVIAI-33	1307	CHRIOWII	yes

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SP&P Database Entries				
DATE	TIME	Cause	Reclosing	
23-Jul-99	1842	Lightning	yes	
17-Oct-99	0543	High Winds	yes	
17-Oct-99	0543	High Winds	yes	
17-Oct-99	0543	High Winds	yes	
17-Oct-99	0543	High Winds	yes	
17-Oct-99	0543	High Winds	yes	
17-Oct-99	0543	High Winds	yes	
17-Oct-99	0543	High Winds	yes	
17-Oct-99	0543	High Winds	yes	
17-Oct-99	0543	High Winds	yes	
17-Oct-99	0543	High Winds	yes	
17-Oct-99	0705	High Winds	yes	
17-Oct-99	0717	High Winds	yes	
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	
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	
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	
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	
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	
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	
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	
17-Oct-99	0752	Salt Contamination	yes	

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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.

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