

1 **Q. TRANSMISSION**2  
3 **PUB 9.0 (RE: p. 29 & 30 of 73) Rebuild Transmission Lines (\$2,597,000)**4  
5 **PUB 9.3**6 **Please provide for each year from 2000 to 2004F inclusive SAIDI and SAIFI rates**  
7 **for transmission lines 11L, 43L and 124L, along with a comparison of the rates for**  
8 **the system as a whole excluding planned power outages loss of supply from NLH.**  
9 **Please include reasons for outages.**

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- 11 A. The table below provides SAIDI and SAIFI numbers for 43L, 124L and the overall
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- 12 system for the years 2000 to 2004 YTD. No customers are directly supplied by 11L and
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- 13 therefore no SAIDI or SAIFI numbers are provided.
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	SAIDI (hours per year)			SAIFI (customer outages per year)		
	43L	124L	System	43L	124L	System
2000	0.0166	0.0000	0.3975	1.00	0.00	0.55
2001	0.0000	0.0000	0.2898	0.00	0.00	0.85
2002	1.9449	1.2363	0.9065	4.00	2.89	0.84
2003	0.0000	1.5874	0.5327	0.00	1.85	0.49
2004 YTD	0.0000	0.5620	0.5715	0.00	3.18	0.41

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16 The overall system SAIDI and SAIFI numbers shown in the table are for Newfoundland  
17 Power's transmission system excluding planned outages and loss of supply from Hydro.  
18 Newfoundland Power does not forecast specific SAIDI and SAIFI numbers due to  
19 unplanned transmission outages, therefore actual 2004 year to date SAIDI and SAIFI  
20 numbers are provided.  
2122 The SAIDI and SAIFI numbers for 43L and 124L are based on interruptions to customers  
23 supplied by the connected substations and by outages on 43L and 124L. An outage on  
24 43L can interrupt service to customers supplied by the Old Perlican and New Chelsea  
25 substations. Similarly, an outage to 124L can interrupt service to customers supplied by  
26 the Terra Nova, Port Blandford and Glovertown substations.  
2728 Transmission line 11L is a radial line that extends from the Tors Cove substation to the  
29 Mobile substation and connects the Tors Cove Generation station to the transmission  
30 grid. No customers are supplied directly from the Tors Cove substation. The Tors Cove  
31 generating plant, along with other generating plants on the Southern Shore, are important  
32 in providing electricity under normal operating conditions and backup during loss of  
33 supply from the main grid to the surrounding communities, and on occasion to parts of  
34 St. John's in emergency situations. Since there are no customers directly supplied by  
35 11L no SAIDI or SAIFI numbers are provided.

- 1 A listing of each unscheduled outage on 11L, 43L and 124L and the reason for the outage
- 2 is provided in Attachment A.

**Newfoundland Power**  
**Unscheduled Transmission Line Outages - 2000 - 2004 YTD**  
**11L Tors Cove Plant to Mobile Substation**

<b>Transmission Line Code</b>	<b>Begin Date Time</b>	<b>End Date Time</b>	<b>Trouble Cause Description</b>	<b>Comments</b>
011	10/4/2000 3:30	10/4/2000 3:33	LIGHTNING	LINE CLOSED IN AT SCC
011	4/10/2001 18:56	4/10/2001 19:14	UNEXPLAINED	BACK-HOE UNDER LINE
011	2/20/2004 2:31	2/20/2004 15:24	WIND	

**Newfoundland Power**  
**Unscheduled Transmission Line Outages - 2000 - 2004 YTD**  
**43L Hearts Content Substation to New Chelsea Substation**

<b>Transmission Line Code</b>	<b>Begin Date Time</b>	<b>End Date Time</b>	<b>Trouble Cause Description</b>	<b>Comments</b>
043	12/1/2000 16:19	12/1/2000 16:20	SNOW	CONDUCTOR SLAPPING
043	1/29/2002 5:06	1/29/2002 5:12	SALT SPRAY	SALT CONTAMINATION
043	1/29/2002 5:32	1/29/2002 6:06	SALT SPRAY	SALT SPRAY
043	1/29/2002 6:12	1/29/2002 6:20	SALT SPRAY	SALT SPRAY
043	1/29/2002 6:39	1/29/2002 6:42	SALT SPRAY	SALT SPRAY
043	1/29/2002 15:25	1/29/2002 15:27	SALT SPRAY	TRIP DUE TO WASHING DOWN INSULATORS AT NCH
043	1/29/2002 16:15	1/29/2002 16:16	SALT SPRAY	LINE TRIPPED WHILE CREW WERE WASHING DOWN INSULATORS
043	1/29/2002 16:31	1/29/2002 16:32	SALT SPRAY	LINE TRIPPED WHILE CREW WERE WASHING DOWN INSULATORS

**Newfoundland Power**  
**Unscheduled Transmission Line Outages - 2000 - 2004 YTD**  
**124L Clarenville Substation to Gambo Substation**

<b>Transmission Line Code</b>	<b>Begin Date Time</b>	<b>End Date Time</b>	<b>Trouble Cause Description</b>	<b>Comments</b>
124	6/14/2002 16:23	6/14/2002 16:25	LIGHTNING	LINE TRIPPED BETWEEN GAM AND CLV
124	8/16/2002 16:33	8/16/2002 18:42	LIGHTNING	LIGHTNING
124	8/17/2002 21:13	8/17/2002 22:27	LIGHTNING	LIGHTNING
124	12/9/2003 4:29	12/9/2003 12:40	SLEET	ISOLATED SECTION OF 124L
124	12/9/2003 9:09	12/9/2003 9:16	SLEET	124L SECTIONALIZED
124	2/1/2004 23:33	2/1/2004 23:38	OTHER	SEVER WEATHER POSSIBLE LINE SLAPPING
124	8/24/2004 16:21	8/24/2004 18:26	LIGHTNING	TROUBLE BETWEEN GLV AND TNS ON 124L
124	8/24/2004 20:00	8/24/2004 20:05	LIGHTNING	SECTIONALIZE 124L
124	8/24/2004 20:16	8/24/2004 20:19	LIGHTNING	SECTIONALIZE 124L