

1 **Q. SUBSTATIONS**

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3 **REBUILD SUBSTATIONS (POOLED), p. 10 of 81, \$710,000**

4
5 **PUB 4.0**

6 **Please provide a breakdown of the 967,414 customer minutes of unscheduled**
7 **outages experienced to the date of the Application in 2005 and caused by gap type**
8 **lightning arrestors.**

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11 A. To date in 2005 there have been 2 major substation outages caused by gap type lightning
12 arresstor failures. Table 1 below provides a breakdown of the associated 967,414
13 customer minutes of unscheduled outages referred to in the Application.
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Table 1				
2005 Customer Outage Minutes due to Gap Type Lightning Arrestor Failures				
Area Affected	Date	Customers Affected	Duration (minutes)	Total Customer Minutes
Port au Port Peninsula	31-Mar	2,627	109	286,343
		1,759	106	186,454
		868	61	52,948
Port au Port Peninsula, Stephenville	30-May	1,146	88	100,848
		570	77	43,890
		1,058	74	78,292
		441	73	32,193
		2,626	71	186,446
Total				967,414

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16 These 2 outages represent 42% of the total 2005 YTD customer outage minutes related to
17 equipment failures in substations.