

1 Throughout successive budgets Newfoundland Power has been granted approval for  
2 amounts to replace pin type and suspension insulators which have been tested defective or  
3 prone to failure due to manufacturing defects.  
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5 **Q. What statistics can be provided to show that reliability has been improved following**  
6 **this replacement program?**  
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8 A. As noted in the Company's response to Request for Information CA-107 (a), the  
9 Company initially focused on insulator replacements on its transmission system, followed  
10 by the replacement of defective substation insulators. The Company addressed defective  
11 insulators on distribution trunk feeders over a 4-year period from 1997-2000.  
12

13 Table 1 below provides Company SAIFI and SAIDI statistics for unscheduled  
14 distribution outages caused primarily by insulator failure both prior to (1992 – 1997) and  
15 since (2001) completion of the Distribution Insulator Replacement program. These  
16 statistics illustrate the reduction in outages of this nature following completion of the  
17 replacement program.  
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<b>Table 1</b> <b>SAIFI and SAIDI</b> <b>Outages Related to Insulator Failure</b>		
<b>Period</b>	<b>SAIFI</b> <b>Interruptions / Year</b>	<b>SAIDI</b> <b>Hours / Year</b>
1992 – 1997 (avg.)	0.38	0.58
2001	0.22	0.39

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21  
22 Similar SAIFI and SAIDI statistics are not maintained with respect to substations and  
23 transmission, nor are they applicable on that basis.