

1 **PUB 10.0**  
2 **(RE: p. 31 & 32 of 82) Rebuild Transmission Lines (\$4,129,000)**

3  
4 **PUB 10.1**

5  
6 **Q. In the previous plan to relocate the Gas Turbine from Salt Pond to Wesleyville,**  
7 **what role was played by the age of line 301L and the age of the system transformer**  
8 **at Salt Pond?**

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10 A. A copy of the analysis of the impact of the relocation of the Gas Turbine from Salt Pond  
11 to Wesleyville on the reliability of supply to the Burin Peninsula was filed in response to  
12 Request for Information PUB 5.4 during the 2002 Capital Budget process.

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14 Transmission line 301L extends from Salt Pond Substation to Greenhill Substation as part  
15 of a 66 kV looped transmission system that encompasses the lower part of the Burin  
16 Peninsula. The looped system effectively provides redundancy of supply to that area  
17 from the 66 kV infeed at the Salt Pond Substation. Because the analysis of the gas  
18 turbine relocation focused on the bulk supply of electrical energy to the Burin Peninsula,  
19 the condition of 301L was not relevant to the analysis. However, since the looped  
20 configuration enables supply to be maintained on the 66 kV system in the event of the  
21 failure of an element of the system, it is important that 301L be maintained in good  
22 condition.

23  
24 The age of the 138/66 kV system transformer at Salt Pond was not considered in the  
25 analysis of the impact of relocating the gas turbine from Salt Pond to Wesleyville. The  
26 loss of a large power transformer is an unusual event. Newfoundland Power had not  
27 experienced any difficulties with the system transformer at Salt Pond, and the likelihood  
28 of such an occurrence was considered to be minimal.