

1 **Re: B-195, Replace Power Line Carrier, \$466,300**

2 Q. Please provide an example, including the effect on reliability statistics that
3 could occur, of the consequences of a failure of the Power Line Carrier on
4 TL-212.

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7 A. If a failure of the Power Line Carrier (PLC) on TL-212 were to occur, the
8 immediate effect would be that the provincial Energy Control Center (ECC)
9 would be required to dispatch an operator to Paradise River generating
10 station for the duration of the PLC outage. Because of the age of this unit,
11 failure of certain components could result in the entire system needing
12 replacement, with lead times that could be in the range of months before
13 service is restored. The plant would have to be manned 24 hours per day
14 during that entire time. Failure of the teleprotection unit to send a trip signal
15 to Paradise River because of failure of the PLC could result in the generating
16 unit supplying power to a faulted line for an indefinite period, thereby posing
17 a safety risk to the general public. It is unlikely that the failure of this PLC
18 would affect reliability statistics, owing to the small size of the plant.