

1 Q. When was the 230 kV bus at the Oxen Pond Terminal Station installed? Has there  
2 ever been an instance when a planned outage of the 230 kV bus has resulted in a  
3 loss of load due to a "transmission system element failure" during the maintenance  
4 period? If so, please provide details of such instance, including the date, loss of  
5 load experienced and "transmission system element failure" leading to such loss of  
6 load.

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9 A. The installation of the 230 kV bus at Oxen Pond Terminal Station occurred with the  
10 addition of the first 230/66 kV transformer in 1967.

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12 There has been no instance in the recent past in which a planned outage to the  
13 Oxen Pond 230 kV bus resulted in loss of load due to a "transmission system  
14 element failure". However, there has been at least one recent example elsewhere  
15 on the Hydro system. During the summer of 2011 one half of the Come By Chance  
16 Terminal Station was removed from service to complete work on a section of the  
17 connected 230 kV bus. The 230 kV bus tie circuit breaker at Come By Chance was  
18 opened. The oil refinery was being supplied by a single 230/13.8 kV transformer as  
19 the parallel unit on the opposite side of the 230 kV bus tie circuit breaker was  
20 removed from service. During the outage a contractor setting wood poles for a  
21 distribution line re-route struck the energized buried 13.8 kV power cable  
22 connecting the 230/13.8 kV transformer and the oil refinery. As a result, the supply  
23 to the refinery was interrupted with subsequent load loss.

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25 While such events may be considered rare, Hydro is of the opinion that adding the  
26 230 kV bus tie circuit breaker at Oxen Pond Terminal Station improves the overall  
27 maintainability of the station and reduces the risk of an unintentional load loss due

- 1 to the loss of one of Newfoundland Power's underlying 66 kV transmission lines
- 2 during the maintenance period. One must keep in mind that at present an outage
- 3 to the Oxen Pond 230 kV bus at any time other than under light load conditions in
- 4 the July – August time frame will result in loss of load.