

1 **Q. Tab 1.1 2015 Facility Rehabilitation – Hydro Dam and Spillway Rehabilitation –**  
2 **Rocky Pond Turbine Shaft Rehabilitation**

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4 **When was Weir Canada’s investigation into the alignment issue with the turbine**  
5 **shaft at the Rocky Pond plant completed?**

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7 A. The investigation by Weir Canada was completed on November 14, 2009. Although  
8 certain measures recommended to correct the alignment issue were immediately  
9 undertaken, the misalignment continued to exceed normal tolerances. However, in  
10 consideration of the impending winter availability requirement, Newfoundland Power  
11 chose to return the unit to service.

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13 The unit has continued in service in the intervening period. However, accelerated wear  
14 of the turbine bearing, journal surface and runner seals have recently become evident.<sup>1</sup> In  
15 order to prevent further damage and avoid the possibility of a future extended plant  
16 outage, it is now necessary to remove the turbine shaft and have the alignment issue  
17 corrected.

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<sup>1</sup> The journal is the part of the shaft that is in contact with the bearing surface.