

1 Q. Reference: *Unit 3 Turbine Major Overhaul Bay d'Espoir Generating Station, March*  
2 *3, 2017, Page 4, Lines 6-8.*

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4 *Hydro's asset management strategy for hydraulic turbines consists of three distinct*  
5 *points of intervention:*

6 ...

7 2. *A unit overhaul, on a six year frequency, which consists of a partial dismantle*  
8 *of the unit (generator rotor is removed) to perform a more intrusive condition based*  
9 *inspection and, if required, rehabilitation;..."*

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11 Please provide details regarding the last time Unit 3 was overhauled. The details  
12 should include (i) when the last overhaul occurred, (ii) what, if anything, the  
13 intrusive condition based inspection revealed, and (iii) what, if any, rehabilitation  
14 work was completed.

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17 A. The 6-year frequency overhaul was completed in 2014. The turbine assessment  
18 included a number of routine inspections and maintenance tasks, one of which was  
19 to obtain primary seal clearance readings that revealed evidence of ovaling, but  
20 overall clearances indicated that the unit was safe to return to service. No turbine  
21 rehabilitation was determined to be necessary through the course of the overhaul.

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23 The 2014 major overhaul aligned with separate project work to refurbish the  
24 generator. The generator refurbishment work included replacement of the stator  
25 windings, refurbishment of the rotor poles, replacement of partial discharge  
26 condition monitoring equipment, and the installation of air gap analysis equipment.