



CMD 18-M63  
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Status Report on Power Reactors

Rapport d'étape sur les centrales nucléaires

Commission Meeting  
December 13, 2018

Réunion de la Commission Le  
13 décembre 2018

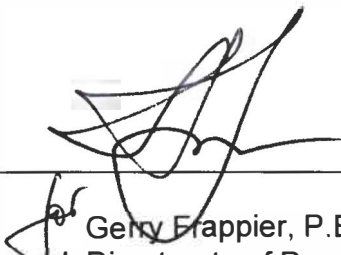
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This document summarizes the status of the  
Power Reactor facilities as of December 3rd,  
2018.

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Ce rapport résume le rapport d'étape sur les  
centrales nucléaires en date du 3 décembre  
2018.

Signed on / Signé le  
2018-12-04



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Gery Frappier, P.Eng.  
Director General, Directorate of Power Reactor Regulation  
Directeur général, Direction de la réglementation des centrales nucléaires

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**1. Power Reactors Status as of December 3<sup>rd</sup>, 2018**

**1.1 Bruce A and B**

<b>Operational Status</b>
Unit 1 is at Full Power
Unit 2 is at Full Power
Unit 3 is at Full Power
Unit 4 is at 85% of Full Power
Unit 5 is at Full Power
Unit 6 is at Full Power
Unit 7 is at Full Power
Unit 8 is in Over Poisoned Guaranteed Shutdown State
<b>Licensing</b>
Power Reactor Operating Licence expires on August 31, 2028.
<b>Comments</b>
Unit 4 has been de-rated to 85% due to high vibrations and noise on one of the turbine governor valves when fully open. With the unit de-rated, the governor valve closes slightly and the vibrations disappear. There is no impact on the safety of workers, the public or the environment as a result of this situation. Bruce Power is addressing this issue to be able to return the unit to full power.
Unit 8 began a planned maintenance outage on August 31, 2018, and is planned to return to Full Power by the middle of December.
<b>Event Notifications and Updates</b>
None.
<b>Actions from previous Commission meetings</b>
None.

**1.2 Darlington**

<b>Operational Status</b>
Unit 1 is at Full Power
Unit 2 is Shutdown for Refurbishment
Unit 3 is at Full Power
Unit 4 is at Full Power
<b>Licensing</b>
Power Reactor Operating Licence expires on November 30, 2025.
<b>Comments</b>
Unit 2 Calandria tube installation is now complete. Fuel channel replacement is the current focus.
<b>Event Notifications and Updates</b>
On November 20, 2018, Unit 3 experienced a forced outage caused by a momentary power interruption to one of its Class II buses which is a source of electrical power to some of the critical reactor systems. Prior to the event, control maintenance staff were investigating a switch on an inverter found in an unexpected state. An erroneous control maintenance staff action resulted in the trip of the inverter and de-energization of the distribution bus. Main Control Room staff responded to this event as per operating procedures and placed the unit into a safe state. The Unit returned to service on November 23, 2018.
A root cause investigation is being performed by OPG and results of the investigation will be reported to

<p>the CNSC in the detailed event report.</p> <p>On November 29th, OPG informed CNSC staff that two Personal Air Samplers (PAS) worn by contractors working on Darlington Unit 2 feeder replacement were found to contain low levels of radioactive particulates, including alpha emitters. OPG immediately initiated an investigation, including dose assessments. In total, OPG identified six instances between November 18 and November 27 for which PAS showed a positive reading for alpha emitters. OPG’s review of routine airborne area monitoring for the period indicates no other signs of elevated radioactive airborne particulates. The potentially affected workers were wearing particulate respirators at the time and the projected doses are expected to be well below the regulatory limits. All work in the Unit 2 feeder cabinets is currently being conducted in plastic suits. OPG submitted a preliminary event report for this situation on December 4th. Results of OPG’s investigation and dose assessments will be submitted to the CNSC in the detailed event report. CNSC staff is closely involved in the follow up activities and will update the Commission on this event.</p>
<p><b>Actions from previous Commission meetings</b></p> <p>During the Public Meeting of the Commission held on November 8, 2018, Ms. Velshi, President of the Canadian Nuclear Safety Commission (CNSC), provided directions to Ontario Power Generation (OPG) and CNSC staff regarding an e-mail she received on October 30, 2018. The e-mail raised concerns related to the February 2018 alpha contamination event that occurred in the Darlington Retube Waste Processing Building, documented in Commission Member Document (CMD) 18-M14. CNSC staff requested that OPG provide the information and clarifications sought in the e-mail by no later than December 21, 2018. CNSC staff will review OPG’s response and update the Commission on their assessment. This request is being tracked under Action Item 14051.</p>

**1.3 Pickering**

<p><b>Operational Status</b></p> <p>Unit 1 is at Full Power</p> <p>Unit 2 is in a Safe Storage State</p> <p>Unit 3 is in a Safe Storage State</p> <p>Unit 4 is at Full Power</p> <p>Unit 5 is at Full Power</p> <p>Unit 6 is at 97% of Full Power</p> <p>Unit 7 is at 98% of Full Power</p> <p>Unit 8 is in startup mode from Outage (P1881)</p>
<p><b>Licensing</b></p> <p>Power Reactor Operating License expires on August 31, 2028.</p>
<p><b>Comments</b></p> <p>Units 6 and 7 are derated due to fuelling machine unavailability. There is no impact on the safety of workers, the public or the environment as a result of the fuelling machine unavailability.</p> <p>Unit 8 is currently in startup mode from Outage (P1881).</p>
<p><b>Event Notifications and Updates</b></p> <p>None.</p>
<p><b>Actions from previous Commission meetings</b></p> <p>None.</p>

**1.4 Point Lepreau**

Operational Status
Unit is 99.8% of at Full Power
Licensing
Power Reactor Operating Licence expires on June 30, 2022.
Comments
None.
Event Notifications and Updates
None.
Actions from previous Commission meetings
None.

**1.5 Other**