



Canadian Nuclear  
Safety Commission

Commission canadienne  
de sûreté nucléaire

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Status Report on Power Reactors

Rapport d'étape sur les centrales  
nucléaires

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This document summarizes the status of  
the Power Reactor facilities as of  
February 25, 2020.

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Ce rapport résume le rapport d'étape sur  
les centrales nucléaires en date du  
25 février 2020.

Signed on / Signé le  
2020-02-26

Gerry 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 February 25, 2020**

**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 Shut Down.
Unit 5 is at Full Power.
Unit 6 is Shut down for Refurbishment.
Unit 7 is at Full Power.
Unit 8 is at Full Power.
<b>Licensing</b>
Power Reactor Operating Licence expires on August 31, 2028.
<b>Comments</b>
The Unit 4 planned outage began February 14. The unit is expected to return to service in early June.
Unit 6 MCR started in January 2020. Current critical path is defuel.
<b>Event Notifications and Updates</b>
On January 30, 2020, while preparing a post-maintenance test, a D <sub>2</sub> O spill occurred. The D <sub>2</sub> O spill occurred within a containment tent surrounding the work area, but a small amount made its way out of the tent onto the floor in the Zone 3 area. The local tritium concentration exceeded 1MPCa on Unit 2 and Unit 0 591' elevation. The spill involved less than twenty litres.
Bruce Power staff made a conservative decision to call for personnel assembly and accounting to assess the hazard. According to approved procedures, this is done by declaring a station emergency. The spill was contained within the immediate area and did not reach the environment. There was no unplanned dose to workers and no impact on members of the public.
<b>Actions from previous Commission meetings</b>
None.

**1.2 Darlington**

<b>Operational Status</b>
Unit 1 is at Full Power.
Unit 2 is Shut Down 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>
The current forecast date for the request to remove the second regulatory hold point (Guaranteed Shutdown State Removal) is April 4, 2020.
<b>Event Notifications and Updates</b>
None.
<b>Actions from previous Commission meetings</b>
None.

### 1.3 Pickering

<b>Operational Status</b>
Unit 1 is Shut Down.
Unit 2 is in a Safe Storage State.
Unit 3 is in a Safe Storage State.
Unit 4 is at Full Power.
Unit 5 is at Full Power.
Unit 6 is at Full Power.
Unit 7 is Shut Down.
Unit 8 is at Full Power.
<b>Licensing</b>
Power Reactor Operating License expires on August 31, 2028.
<b>Comments</b>
Unit 1 is shut down for a planned maintenance outage. Return to service is planned for May 2020.
Unit 7 is shut down for a planned unbudgeted outage to undertake repairs of a small leakage from the primary system. Return to service is planned for March 2020.
<b>Province of Ontario emergency alert issued in error</b>
On the morning of January 12, 2020, the Province of Ontario sent an emergency alert that referenced the Pickering Nuclear Generating Station. This alert was sent in error. There was no event or incident at the Pickering Nuclear Generating Station. Pickering Nuclear Generating Station continues to operate safely.
The Province of Ontario subsequently sent a retraction alert on the same morning that stated: <i>"There is NO active nuclear situation taking place at the Pickering Nuclear Generating Station. The previous alert was issued in error. There is no danger to the public or environment. No further action is required"</i> .
The Ontario Solicitor General announced commencement of a full investigation to determine how this error occurred.
An update will be provided to the Commission in April.

None.
<b>Actions from previous Commission meetings</b>
<p>Potassium Iodide (KI) Pill Working Group update:</p> <ul style="list-style-type: none"> <li>• Meeting Minutes from the Phase I workshop held on November 4-5, 2019 are available on the <a href="http://nuclearsafety.gc.ca/eng/resources/emergency-management-and-safety/potassium-iodide-pill-working-group.cfm">Working Group webpage</a>. (<a href="http://nuclearsafety.gc.ca/eng/resources/emergency-management-and-safety/potassium-iodide-pill-working-group.cfm">http://nuclearsafety.gc.ca/eng/resources/emergency-management-and-safety/potassium-iodide-pill-working-group.cfm</a>)</li> <li>• Updated project milestones are attached as Appendix A, and will be updated on the Working Group webpage.</li> <li>• The Phase I report was drafted and circulated to all Working Group members for review in January 2020.</li> <li>• The draft Phase I report is currently being revised to address comments from Working Group members. Following concurrence on the draft report by all Working Group members, it will be translated and posted on the CNSC webpage for a 45-day public review period (anticipated for April 2020).</li> <li>• The CNSC will be meeting with the Advisory Committee in March/April 2020 to begin planning the face-to-face workshop with Advisory Committee members on the draft Phase I report.</li> </ul>

**1.4 Point Lepreau**

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

**1.5 Other**

Nothing to Report

Following concurrence on the draft report by all Working Group members, it will be translated and posted on the CNSC webpage for a 45-day public review period (anticipated for April 2020)

**Appendix A. KI Pill Working Group Project Milestones**

## KI pill working group project milestones

The timeline below depicts the key milestones to be completed by the Working Group during Phase I and II and opportunities for the public to participate.

