



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

This document summarized the status of the
Power Reactor Facilities as of July 21, 2026.

Ce rapport résume le rapport d'étape sur les
centrales nucléaires en date du 21 juillet 2026.

Signed on / Signé le
July 31, 2026 | 31 juillet 2026

Bulkan, Anupama

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Date: 2026.07.31 14:05:42 -04'00'

Anupama Bulkan
Acting Director General, Directorate of Power Reactor Regulation
Directrice générale intérimaire, Direction de la réglementation des
centrales nucléaires

Canada

1. Power Reactors Status as of July 21, 2026

1.1 Bruce A and B

Operational Status
Unit 1 is at Full Power
Unit 2 is at Full Power
Unit 3 is at Full Power
Unit 4 is Shut Down for Major Component Replacement (MCR)
Unit 5 is at Full Power
Unit 6 is at Full Power
Unit 7 is at Full Power
Unit 8 is at Full Power
Licensing
Power Reactor Operating Licence expires on September 30, 2028.
In June 2026, Bruce Power submitted their Notice of Intent to renew the PROL. The application is expected to be submitted in Q1 2027.
Comments
The Unit 3 MCR project started in March 2023 and is now complete. - The final regulatory hold point for Bruce A Unit 3 was removed on June 2nd, following CNSC staff verification that the relevant pre-requisites had been met. This allowed Unit 3 to return to full power operation; regulatory oversight now continues under the CNSC's normal compliance verification program. The Unit 4 MCR project started in February 2025 and remains on schedule. - Inspections of the calandria have been completed. - Installation of calandria tubes are in progress. - Steam generator replacement has begun with the first steam generators having been removed. The Unit 5 MCR project is scheduled to begin in November 2026.
Event Notifications and Updates
None
Actions from previous Commission meetings
None

1.2 Darlington

Operational Status
Unit 1 is at Full Power
Unit 2 is at Full Power
Unit 3 is shut down for a Planned Maintenance Outage
Unit 4 is at Full Power
Licensing
Power Reactor Operating Licence 13.01/2045 came into effect on December 19, 2025, following an amendment to allow installation of Target Delivery System (TDS) on additional units. TDS is currently being installed on Unit 3.
Comments
None
Event Notifications and Updates
None
Actions from previous Commission meetings
None

1.3 Pickering

Operational Status
Unit 1 is shut down and transitioning to Safe Storage
Unit 2 is in a Safe Storage State
Unit 3 is in a Safe Storage State
Unit 4 is shut down and transitioning to Safe Storage
Unit 5 is at Full Power
Unit 6 is at Full Power
Unit 7 is at Full Power
Unit 8 is at Full Power
Licensing
Power Reactor Operating Licence expires on August 31, 2028. OPG is authorized to operate Units 5-8 until December 31, 2026, up to a maximum of 305,000 equivalent full power hours.
On June 23, 2026, the CNSC held Part 1 of a 2-part public hearing to consider an application from OPG to refurbish Units 5-8 and renew the licences for the Pickering NGS and Pickering Waste Management Facility for a 10-year period. Part 2 will take place in Ajax, Ontario during the week of October 5, 2026.
Comments

None
Event Notifications and Updates
None
Actions from previous Commission meetings
None

1.4 Point Lepreau

Operational Status
The Unit is shut down for a Planned Maintenance Outage.
Licensing
Power Reactor Operating Licence expires on June 30, 2032.
Comments
The unit was shut down on April 10, 2026, for a planned maintenance outage and is expected to return to service on August 15, 2026.
Event Notifications and Updates
None
Actions from previous Commission meetings
On September 12, 2024, the Commission requested NB Power to provide an update on the root cause of the generator fault, including the history of the generator rewind and lessons learned. NB Power will provide this update at the Commission meeting on September 2, 2026.

1.5 Darlington New Nuclear Project – Licence to Construct

Construction Status – DNNP-1
Major construction work in progress: - Concrete placement for the Reactor Building (RB) basemat structure has commenced. Centre Puck, Ring C/D, Outer Shaft Wall (OSW) and Ring A/B have all been completed. Concrete pour for Steel Composite Containment Vessel (SCCV) is planned for August 2026. (Figure 1). - Tunnel Boring Machine (TBM) assembly has started on site. The stub tunnel for Circulating Cooling Water (CCW) shaft has been completed (this is where the TBM will launch) (Figure 2). - Civil construction is on-going for the power block buildings - Turbine Building, Control Building, Service Building, Radioactive Waste Building.
Licensing
DNNP Power Reactor Construction Licence expires on March 31, 2035.

Status of OPG's progress toward each regulatory hold point (RHP): • RHP-1: Installation of the RB foundation - removed on March 30, 2026. • RHP-2: Installation of the Reactor Pressure Vessel (RPV) (OPG current target date is Calendar Q3 2027). • RHP-3: Fuel-Out Commissioning (OPG current target date is Calendar Q1 2028).
Comments
None
Event Notifications and Updates
12(2) Update: Worker Injuries at the Darlington New Nuclear Project On July 25, 2025, CNSC staff issued a request to Ontario Power Generation (OPG) Inc., pursuant to subsection 12(2) of the <i>General Nuclear Safety and Control Regulations</i> (GNSCR). A trend of worker injuries became apparent at the Darlington New Nuclear Project (DNNP) over the course of four months. Worker injuries took place on April 9, 2025, July 15, 2025, and July 24, 2025. The frequency and severity of injuries sustained by contract workers employed by OPG were of serious concern to the CNSC. The purpose of the 12(2) request was to ensure that OPG was implementing an effective response to prevent further injuries. On October 29, 2025, OPG provided a response to CNSC staff including an executive summary prepared by its vendor, Aecon, which outlined the findings from their event investigation, identified common causes, and summarized independent safety assessments. As communicated to the Commission as part of CMD 25-M38, CNSC staff were satisfied with the immediate corrective actions OPG and Aecon had taken and acknowledged ongoing progress toward the implementation of long-term corrective actions. On June 30, 2026, OPG submitted the effectiveness review summary assessing adequacy of corrective actions against common causes. Following the submission of this report, CNSC staff conclude that all outstanding commitments related to the 12(2) request have been completed by OPG. This submission will inform inspection activities planned for August 2026. To date, CNSC staff are satisfied that the corrective actions taken by OPG have addressed the common causes related to the events in 2025, are in compliance with regulatory requirements and construction licence (PRCL-32.01), and that adequate measures remain in place to ensure the protection and safety of workers at the DNNP site.
Actions from previous Commission meetings
None

1.6 Construction activities at the DNNP Site



Figure 1: Concrete placement of Centre Puck, Ring C/D



Figure 2: CCW Shaft (Source OPG August 2026)