



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 summarizes the status of
the Power Reactor facilities as of
May 31, 2021.

Ce rapport résume le rapport d'étape sur
les centrales nucléaires en date du
31 mai 2021.

Signed on / Signé le
2021-06-02

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Directeur général, Direction de la réglementation des centrales nucléaires

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1. Power Reactors Status as of May 31, 2021

1.1 Bruce A and B

Operational Status
Unit 1 is at Full Power.
Unit 2 is at Full Power.
Unit 3 is in a planned maintenance outage
Unit 4 is at Full Power.
Unit 5 is at Full Power.
Unit 6 is Shut Down for Major Component Replacement (MCR).
Unit 7 is at Full Power.
Unit 8 is at Full Power.
Licensing
Power Reactor Operating Licence expires on September 30, 2028.
Comments
Unit 6 Major Component Replacement (MCR) started in January 2020. Pressure tube removal has been completed. Bruce Power is transitioning to removal of the calandria tubes. The project execution is on schedule.
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 Refurbishment.
Unit 4 is at Full Power.
Licensing
Power Reactor Operating Licence expires on November 30, 2025.
Comments
Unit 3 refurbishment started in September 2020. Critical path is pressure tube removal. Work on pressure tube removal began on May 27, 2021. Overall, the project is ahead of schedule.
Event Notifications and Updates
On May 26, 2021, a hydro pole fire occurred in an OPG Darlington parking lot outside of the protected area. Darlington Emergency Response Team (ERT), Clarington Fire Services and Hydro One responded to the

event. The fire was extinguished using fire suppressant foam and water. Power was lost to multiple buildings outside the protected area, however the station operation was unaffected. No injuries were reported and cleanup of the fire suppressant foam is in progress. OPG is assessing the quantity of fire suppressant foam released to the environment. The cause of the fire is being investigated.

Actions from previous Commission meetings

None.

1.3 Pickering

Operational Status

Unit 1 is at Full Power.

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 at Full Power.

Unit 8 is in a planned maintenance outage.

Licensing

Power Reactor Operating Licence expires on August 31, 2028. OPG requires Commission approval to operate PNGS beyond December 31, 2024.

Comments

Unit 8 is in a planned maintenance outage that commenced January 11, 2021.

Event Notifications and Updates

None.

Actions from previous Commission meetings

Potassium Iodide (KI) Pill Working Group Update:

- On April 6th the draft Phase I Report was posted on the CNSC consultation platform (<https://www.letstalknuclearsafety.ca/kipillworkinggroupdraftreport>) for a 90-day public review period.
- The public review period was also advertised through the CNSC subscription list and CNSC social media accounts on the following platforms:
 - Facebook – <https://www.facebook.com/CanadianNuclearSafetyCommission>
 - Twitter – https://twitter.com/CNSC_CCSN
 - LinkedIn – <https://ca.linkedin.com/company/cnsc-ccsn>
 - YouTube – <http://www.youtube.com/cnsc-ccsn>
- Background information on the Working Group can be found on the Working Group webpage: <https://nuclearsafety.gc.ca/eng/resources/emergency-management-and-safety/potassium-iodide-pill-working-group.cfm>

- Following the public review period, the Working Group will disposition all comments received and revise the draft Phase I report, as appropriate. The report will be presented to the Commission in a Public Meeting anticipated for fall 2021.

1.4 Point Lepreau

Operational Status
The unit is 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

Power Reactor Regulatory Program (PRRP) COVID-19 Activities

Compliance

CNSC staff continue their oversight of NPP operations, by carrying out inspections, having access to the licensees Virtual Private Network (VPN), attending meetings remotely and conducting regular surveillance activities. Inspections are being conducted on sites, as well with remote support from subject matter experts. To date CNSC staff have not identified any non-compliances caused by the pandemic and are satisfied with the measures taken by the licensees.

Licensing

DPRR continues to ensure all licensing activities are completed in accordance with requirements, in support of continued safe operation of all Canadian NPPs.

International Collaboration

Under the auspices of the Nuclear Energy Agency, a virtual conference was held on 24-25 February 2021 where nuclear regulatory bodies from ten countries presented on their regulatory body's experience inspecting nuclear facilities, vendor sites, and human and organizational factors during the pandemic. A summary record, issued May 19, documents the outcomes and themes of the presentations. Based on staff assessment, there are no gaps in CNSC's practices, and no further actions are required.

Licensee COVID-19 Activities

Business Continuity Plan Status

All licensees have active business continuity plans (BCP). Licensees have protocols in place for responding to positive test results for their workers and report to CNSC regularly. CNSC staff are monitoring and evaluating licensees' COVID-19 responses and are satisfied with the current provisions.

Bruce Power

Bruce County is currently subject to the Ontario Province-wide Stay at Home Order, effective April 8, 2021. The Stay at Home Order is in place until June 2, 2021 as the province continues to deal with the impacts of COVID-19.

To date one hundred twenty five (125) Bruce Power workers (employee and contract) have tested positive for COVID-19. One hundred nineteen (119) of these cases are considered recovered with six (6) remaining active. There has been no evidence of workplace transmission of COVID-19 and there has been no impact on minimum shift complement or the safe operation of the units from positive COVID-19 cases.

Ontario Power Generation

Durham Region is currently subject to the Ontario Province-wide Stay at Home Order, effective April 8, 2021. The Stay at Home Order is in place until June 2, 2021 as the province continues to deal with the impacts of COVID-19.

To date one hundred five (105) OPG Darlington workers (employee and contract) have tested positive for COVID-19. Ninety three (93) of these cases are considered recovered with twelve (12) remaining active. The outbreak of COVID-19 at the Darlington Nuclear Generating Station declared by Durham Region Health Department on March 8, 2021 was declared over on May 6, 2021.

On May 24, 2021 the Durham Regional Health Department declared a COVID-19 outbreak isolated to a single building located outside of Darlington's protected area, as a result of three (3) confirmed cases on the same maintenance crew. There has been no impact on minimum shift complement or the safe operation of the units resulting from positive COVID-19 cases.

To date one hundred five (105) OPG Pickering workers (employee and contract) have tested positive for COVID-19. One hundred four (104) of these cases are considered recovered with one (1) remaining active. Durham Region Public Health Department declared the April 16, 2021 COVID-19 outbreak at the Pickering Nuclear Generating Station over on April 27, 2021.

On May 6, 2021, Durham Region Health Department declared a COVID-19 workplace outbreak within the Pickering Learning Center (PLC). Four (4) employees from a class of seven (7) tested positive for COVID-19 and three (3) employees tested negative. No other COVID-19 cases have been identified within PLC since the outbreak declaration. Durham Region Public Health Department declared the May 6, 2021 COVID-19 outbreak over on May 15, 2021. There has been no impact on minimum shift complement or the safe operation of the units resulting from positive COVID-19 cases.

Point Lepreau

There have been no new COVID-19 cases identified at site since the last update. To date, there have been two (2) positive cases at Point Lepreau NGS. There has been no impact on minimum shift complement on the safe operation of the units resulting from positive COVID-19 cases.

The PLNGS COVID Response Team (CRT) continue to manage the COVID-19 response at site. The Northwestern region of New Brunswick is at the red alert level, while parts of Zone 4 (Edmunston and Haut-Madawaska) have gone into lockdown. The rest of New Brunswick remains at the yellow alert level.

Reporting of COVID-19 Cases to CNSC

On December 10, 2020 the Directorate of Power Reactor Regulation issued clarifications to promote consistent reporting of COVID-19 cases:

1. Formal event reports, in accordance with REGDOC-3.1.1, *Reporting Requirements for Nuclear Power Plants* are to be submitted for situations:
 - where a person who had entered the protected area was later found to be COVID-19 positive, leading to isolation measures being imposed in case the virus had been transmitted to others

- any impact, attributed to COVID-19, on the Minimum Shift Complement (MSC) positions outlined in the respective Licence Condition Handbooks
2. For all other COVID-19 related events, not having operational or safety impacts, courtesy informal notification will continue to be made to the Regulatory Program Directors.

The following represent cases reported to the CNSC under the clarified reporting requirements of REGDOC-3.1.1. These cases occurred after December 10, 2020:

Bruce Power

Bruce Power has reported four (4) cases. There has been no evidence of workplace transmission of COVID-19 and no impact on minimum shift complement or the safe operation of the units resulting from positive COVID-19 cases. CNSC staff are satisfied with the response and protective measures taken by Bruce Power.

Ontario Power Generation

OPG Darlington has reported thirteen (13) cases. There has been no impact on minimum shift complement or the safe operation of the units resulting from positive COVID-19 cases. CNSC staff are satisfied with the response and protective measures taken by OPG Darlington.

OPG Pickering has reported thirteen (13) cases. There has been no impact on minimum shift complement or the safe operation of the units resulting from positive COVID-19 cases. CNSC staff are satisfied with the response and protective measures taken by OPG Pickering.

New Brunswick Power

There have been zero reportable cases.