



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
September 9, 2020.

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

Signed on / Signé le
2020-09-10

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 September 9, 2019

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 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 Shutdown.
Licensing
Power Reactor Operating Licence expires on August 31, 2028.
Comments
Unit 6 Major Component Replacement (MCR) started in January 2020. Bulkhead installation was completed on August 21; Bruce Power is currently performing the bulkhead commissioning test.
Unit 8 shutdown on September 4, 2020 for a planned outage.
Event Notifications and Updates
A medical incident occurred at a parking lot at the Bruce site (near the B06 building). A contract employee was working in a back-hoe when they signaled for assistance. Bruce Power's Emergency and Protective Services (EPS) responded to the emergency and the person was transported to the Kincardine hospital, where unfortunately, the person was not able to be revived. The cause is unknown at this time and is suspected to be non-work related. Investigation by the Ontario Provincial Police and Ministry of Labour (MOL) is on-going. CNSC staff contacted the MOL and it was determined that our assistance is not required at this time; MOL will contact the CNSC if a follow-up inspection is required.
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 on September 3 rd . Core defuel is in progress.
Event Notifications and Updates
None.
Actions from previous Commission meetings

None.

1.3 Pickering

Operational Status
Unit 1 is Shutdown.
Unit 2 is in a Safe Storage State.
Unit 3 is in a Safe Storage State.
Unit 4 is Shutdown.
Unit 5 is at Full Power.
Unit 6 is Shutdown.
Unit 7 is at Full Power.
Unit 8 is at Full Power.
Licensing
Power Reactor Operating Licence expires on August 31, 2028.
Comments
<p>Unit 1 experienced a transient due to the heat transport system heavy water leakage from a fueling machine filter pressure gauge. Reactor setback was initiated, followed by a manual reactor trip. The source of the leak was located and isolated. The heavy water leak was contained within the Reactor Building, no heavy water is expected to have been released into environment. Testing of ground water wells will be performed to confirm. Date for return to Full Power remains to be determined.</p> <p>Unit 4 shutdown August 11, 2020 for a planned outage.</p> <p>Unit 6 shutdown September 3, 2020 for a planned outage.</p>
Event Notifications and Updates
None.
Actions from previous Commission meetings
<p>Potassium Iodide (KI) Pill Working Group update:</p> <ul style="list-style-type: none"> • Due to the COVID-19 pandemic, and knowing the majority of Working Group members (Public Health Unit representatives and municipal emergency management coordinators) are supporting Ontario's pandemic response, the CNSC postponed seeking their concurrence on the draft Phase I report, which delayed the public review period. • The draft Phase I report was revised to address comments received from Working Group members in February 2020. The revised report was distributed to all members in advance of the September 2, 2020 meeting to resume Working Group activities. • The KI Pill Working Group held a meeting on September 2, 2020 to discuss the next steps and path forward on seeking concurrence on the draft Phase I report before moving to the public review phase. Taking into consideration member's involvement in the COVID response, members' agreed to a 60-day final review period for additional comments and concurrence on the draft Phase I report. • The Working Group is planning to hold a meeting during the 60-day review period to discuss any major comments and ensure the timeline for concurrence is reasonable given changing priorities in light of the COVID response. • Following concurrence on the draft Phase I report by all Working Group members, it will be translated and posted on the Working Group webpage for a 45-day public review period.

<https://www.nuclearsafety.gc.ca/eng/resources/emergency-management-and-safety/potassium-iodide-pill-working-group.cfm>

1.4 Point Lepreau

Operational Status
The unit is Shut Down.
Licensing
Power Reactor Operating Licence expires on June 30, 2022.
Comments
PLNGS shutdown September 4, 2020 for planned outage.
Event Notifications and Updates
None.
Actions from previous Commission meetings
None.

1.5 Other

Ontario Power Generation (OPG) organizational changes (effective September 8, 2020)

On August 24, 2020, OPG informed CNSC of organizational changes that are effective September 8, 2020. These changes are summarized in Appendix A. CNSC staff will be engaging with OPG to discuss the changes and any potential safety implications. CNSC staff will be assessing the organizational changes and ensure that all Licensing requirements are met. Should CNSC staff determine any potential for negative safety impact, CNSC staff will update the Commission in future Status Reports on Power Reactors.

Power Reactor Regulatory Program (PRRP) COVID-19 Activities

Compliance

CNSC staff continue their oversight mostly remotely, by having access to the licensees Virtual Private Network (VPN), attending meetings and increasing their surveillance activities. As noted above, in May 2020, staff returned to some on-site activities, such as field inspections, that primarily focused on verifying the licensees Business Continuity Plan (BCP) measures and their pandemic plan implementation. These verification activities concentrated on the licensee's processes to limit visitors and staff entering the operating island, their physical distancing measures, increased cleaning and sanitization protocols and the use of thermography cameras to check for signs of fever of staff entering the protected area which included CNSC staff.

To date CNSC staff have not identified any non compliances to these programs / plans and that licensee performance has been effective in controlling the spread of COVID-19 at the NPP's.

Licensing

Since the CNSC has transitioned to working from home on March 16, 2020, DPRR has expanded its ability to undertake and complete other licensing activities that were not considered critical at the outset of the COVID-19 pandemic. DPRR continues to ensure all licensing activities are completed in support of continued safe operation of all Canadian NPPs.

International Collaboration

CNSC management continues to collaborate internationally with other regulators including the Office for Nuclear Regulation (United Kingdom) and the United States Nuclear Regulatory Commission, and organizations such as the International Nuclear Regulators Association. CNSC staff also actively participate and manage regulatory OPEX through establishment of multi-national working groups such as the Nuclear Energy Agency's Working Group on Inspection Practices (WGIP).

Licensee COVID-19 Activities**Business Continuity Plan Status**

All licensees have active business continuity plans (BCP) in effect. Details are in the table below.

Bruce Power	The three persons who tested positive are now considered recovered.
OPG	<p>A worker in the Darlington protected area the week of August 30, has tested positive for COVID-19. Preliminary information indicates the worker was not wearing a mask or physically distancing (2 meters) as required by OPG procedures.</p> <p>Following this discovery, OPG has stated that protocols for responding to positive COVID testing were followed, including cleaning the work area and isolating individuals who had been in close contact. A total of 4 individuals were working in close contact (not maintaining 2 m physical distance) without wearing masks.</p> <p>CNSC staff are following up.</p>
NB Power	<p>The Station was taken offline on Friday, September 4, 2020, to begin a planned maintenance outage for a period of six to seven weeks. The timing of planned maintenance Outage 2020, originally scheduled to begin April 10, was adjusted in response to the circumstances created by the COVID-19 pandemic.</p> <p>The plant is preparing for about 600 contractors and tradespeople on site. Most of these workers are employed by companies throughout the Atlantic provinces, bringing special skills required for the maintenance outage.</p> <p>The team leading the outage routinely works with its partners to create a plan that ensures the maintenance outage is completed safely and to the highest standards.</p> <p>The COVID Response Team has been stood up to support any and all COVID concerns during the outage. The Team consists of 3 Health Nurses, 2 Safety Officers and a Fire Chief. The main goal of this team is to assist station staff in understanding</p>

	<p>and applying COVID expectations.</p> <ul style="list-style-type: none"> • This year, they have created an extra layer of safety to account for COVID-19 precautions to ensure workers practise physical distancing and good hygiene. • COVID-19 awareness sessions were incorporated with the onboarding training for the outage. • Other measures include mandatory face coverings, extensive signage supporting physical distancing, one-way walk paths, enhanced disinfecting and communication measures. <p>Point Lepreau also screens all staff at the plant daily, including temperature checks.</p> <ul style="list-style-type: none"> • Additional screening installation were put in place. • Additional lunch rooms were put in place to support physical distancing <p>PLNGS and NB Power work closely with provincial officials, including WorkSafeNB, the Emergency Measures Organization and Public Health to protect the safety of workers and the community.</p> <ul style="list-style-type: none"> • An isolation process for workers travelling from outside Atlantic Canada was established. <p>Contractor coming to site are asked to limit the number of occupants per car to two people with the passenger sitting in the back on the opposing side. Both occupants wearing face masks while in the vehicle.</p>
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<p>Hydro Quebec</p>	<p>Aux installations de Gentilly-2, en date du 1^{er} septembre, aucun cas positif à la COVID-19 n'a été déclaré. Depuis le 1er juin, la totalité des effectifs de maintenance est retournée afin de poursuivre les activités de déclassement aux installations de Gentilly-2 et ce, toujours en conformité avec les consignes et directives du gouvernement du Québec. Seules les ressources essentielles aux opérations normales et aux activités de déclassement sont de retour sur le site. Les ressources qui ont la capacité d'effectuer du télétravail continueront de le faire, et ce, minimalement jusqu'au 31 décembre 2020. Ces dispositions seront réévaluées par Hydro-Québec en fonction de l'évolution de la pandémie de COVID-19.</p> <p>Les mesures d'hygiène implantées (lavage de mains obligatoires à certains endroits, la désinfection des moniteurs globaux, des corridors avec circulation à sens unique et la distanciation de 2 mètres) demeurent en place et continuent d'être appliquées. Lorsque la distanciation de 2 mètres ne peut être respectée, une protection pour le visage est obligatoire (masque de procédure avec visière ou lunettes)</p>
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APPENDIX A

OPG Announced organizational changes (effective September 8, 2020):

Sean Granville will move into the role of Chief Operations Officer and Chief Nuclear Officer to lead OPG's new Enterprise Operations organization. This team will focus on the safe and reliable operations of the Renewable Generation (RG) and Nuclear stations. This organization will be led by the following individuals:

- Nicolle Butcher, SVP, RG & Power Marketing
- Jon Franke, SVP, Pickering
- Steve Gregoris, SVP, Darlington
- Jane Travers, VP, Integrated Fleet Management
- Mark Knutson, SVP, Enterprise Engineering and Chief Nuclear Engineer

The newly formed RG and Power Marketing Division will include two regions – the Western Region, which will include South Central, Campbellford, Lennox and Northwest, and the Eastern Region which will include Northeast and Ottawa St. Lawrence as well as RG training. In addition, the commercial functions will be centralized under a new Energy Markets organization and include Trading, Commercial Contracts, Commercial Operations and Business Integration. The organization will include the following departments:

- John Hefford, VP, Regional Operations (Western Region)
- Nick Pender, VP, Energy Markets
- Bruce Robertson, VP, Regional Operations (Eastern Region)
- Tony Bennett, Director, Dam Safety

Jon Franke will join the Pickering Nuclear Generating Station as SVP.

Steve Gregoris will continue as SVP at Darlington Nuclear Generating Station with the addition of Scott Burns, VP, Emergency Services and Training, as a direct report.

Mark Knutson will lead the new Enterprise Engineering team. The newly formed Enterprise Engineering Division will include the following departments:

- Emily Tarle, VP, Station Engineering
- Don Gagnon, VP, Central Engineering
- Gregg McCabe, VP, Design & Project Engineering
- Leslie McWilliams, VP, Inspection & Reactor Innovation

APPENDIX A (continued)

Jane Travers will lead the Integrated Fleet Management team. This organization will consolidate support functions that partner with OPG stations on nuclear regulatory affairs, operations and maintenance, and nuclear oversight.

The newly formed Integrated Fleet Management Division will include the following departments:

- Jack Vecchiarelli, VP, Nuclear Regulatory Affairs & Stakeholder Relations
- Zar Khansaheb, VP, Generation Strategy and Innovation
- Paul Seguin, Director, Nuclear Oversight

Dominique Minière will move into the role of Chief Strategy Officer and lead new Enterprise Strategy organization. This organization will focus on corporate strategy to grow the business for future sustainability and will be led by the following individuals:

- Robby Sohi, SVP, Corporate Business Development & Strategy
- Carla Carmichael, VP, Decommissioning Strategy
- Robin Manley, VP, New Nuclear Development
- Lise Morton, VP, Nuclear Waste Management
- John Sawler, VP Corporate Business Development (to focus on Pickering repurposing options)
- Jason Van Wart, VP, Business & Services (Laurentis Energy Partners)

Robby Sohi will transition from his role in Supply Chain to lead the Corporate Business Development and Strategy team. He will also continue his role as President and CEO of Global First Power.

Karen Fritz will be Chief Supply Officer.

Jessica Polak will be Senior Director, Projects, leading the Turbine Generator Project in Refurbishment.

Mike Martelli will move into the role of Chief Projects Officer to lead the new Enterprise Projects organization. This organization will take an enterprise view of projects in order to leverage project expertise across all areas of the business. This organization will be led by the following individuals:

- Subo Sinnathamby, SVP, Nuclear Refurbishment
- John Blazanin, VP, Enterprise Project Management Office
- Chris Cunningham, VP, Nuclear Projects
- Paul Burroughs, Director, RG Projects
- Zeina Elhami, VP, Project Assurance & Commercial Management

APPENDIX A (continued)

Dietmar Reiner will report to Ken Hartwick and support Mike as SVP, Refurbishment Transition. Dietmar Reiner will continue to support Ken Hartwick, the Refurbishment Project and other major initiatives.

The Enterprise Leadership Team (ELT) will be expanded to include four new members: Steve Gregoris, Mel Hogg, Subo Sinnathamby, and Robby Sohi. An ELT Strategy Advisory team will also be formed to focus on strategic alignment across the company to help prepare for the future. This team will be chaired by Dominique Minière and include Nicolle Butcher, Heather Ferguson, Chris Ginther, Robby Sohi, and Ken Hartwick.

Ian Jacobsen, Indigenous Relations Director, will now report to Heather Ferguson, Senior Vice President, Corporate Affairs.