



Date: 2025-11-27

**Written Submission from
CNSC Staff**

**Mémoire du
personnel de la CCSN**

In the matter of

À l'égard d'

Ontario Power Generation Inc.

Application to amend its licences to reflect
a change in address

Ontario Power Generation Inc.

Demande visant à changer une adresse
dans ses permis

Hearing in writing

Audience par écrit

February 2026

Février 2026



Canadian Nuclear
Safety Commission

Commission canadienne
de sûreté nucléaire

MEMORANDUM NOTE DE SERVICE

To Registry
c.c: R. Jammal

From A. Viktorov, K. Campbell, S. Eaton

Security Classification – Classification de sécurité Unclassified	
Our File – Notre référence File No.: 2.01, 2.05	
Your File – Votre référence e-Doc 7602041	
Date November 27, 2025	Tel. No. – Nº de tél. n/a

Subject Ontario Power Generation - Administrative Licence amendment request to
Objet reflect OPG's New headquarters address

1.0 Background

Ontario Power Generation (OPG) is a Canadian corporation, whose head office is located in Toronto, Ontario. OPG is the owner and operator of the Pickering Nuclear Generating Station, Darlington Nuclear Generating Station, Western Waste Management Facility, Pickering Waste Management Facility and Darlington Waste Management Facility. OPG is also the owner of the Darlington New Nuclear Project Site.

The Darlington New Nuclear Project (DNNP) site is in the Municipality of Clarington, Ontario. The DNNP site is located within the larger Darlington Nuclear site, on the north shore of Lake Ontario, and adjacent to the existing Darlington Nuclear Generating Station. The site preparation licence is PRSL 18.00/2031, and construction licence is PRCL 32.00/2035.

The Pickering Nuclear Generating Station is located on the north shore of Lake Ontario in Pickering, Ontario, 32 kilometres northeast of Toronto and 21 kilometres southwest of Oshawa. The Pickering site lies within the lands and waters of the Michi Saagiig Anishinaabeg, the Gunshot Treaty (1877-88), the Williams Treaties (1923), and the Williams Treaties Settlement Agreement (2018). The current licence is PROL 48.03/2028.

The Darlington Nuclear Generating Station is located on the north shore of Lake Ontario in Clarington, Ontario, 5 kilometres outside the town of Bowmanville and 10 kilometres southeast

of Oshawa. The Darlington site lies within the lands and waters of the Michi Saagiig Anishinaabeg, the Gunshot Treaty (1877-88), the Williams Treaties (1923), and the Williams Treaties Settlement Agreement (2018). The current licence is PROL 13.0/2045.

The Western Waste Management Facility (WWMF) is in Tiverton, Ontario. The WWMF lies within the Traditional Territory of the Saugeen Ojibway Nation (SON), and the harvesting areas of the Georgian Bay Métis Nation of Ontario (MNO) and the Historic Saugeen Métis (HSM) peoples. The current licence is WFOL-W4-314.00/2027.

The Pickering Waste Management Facility (PWMF) is in Pickering, Ontario. The PWMF is located within the lands and waters of the Michi Saagiig Anishinaabeg, the Gunshot Treaty (1877-88), the Williams Treaties (1923), and the Williams Treaties Settlement Agreement (2018). The current licence is WFOL-W4-350.01/2028.

The Darlington Waste Management Facility (DWMF) is in Clarington, Ontario. The DWMF is located within the lands and waters of the Michi Saagiig Anishinaabeg, the Gunshot Treaty (1877-88), the Williams Treaties (1923), and the Williams Treaties Settlement Agreement (2018). The current licence is WFOL-W4-355.00/2033.

On October 28, 2025, OPG requested an administrative amendment to update the licensee address of OPG licences to reflect OPG's new headquarters, 1908 Colonel Sam Drive, Oshawa, Ontario L1H 8P7 [1]. This request is in accordance with Section 6 of the *General Nuclear Safety and Control Regulations*.

2.0 CNSC staff review and recommendation to the Commission

CNSC staff have reviewed OPG's licence amendment request to reflect OPG's new headquarter address and have determined that this request is administrative in nature. The proposed change does not impact the licensing basis or the Safety and Control Areas (SCA). There are no environment, health and safety, security, indigenous consultation or financial guarantees implications associated with this licence amendment request.

The Designated Officer licences referenced in Tables 4-8 of OPG's request [1] are not included as part of this memorandum as they have been previously issued by a CNSC Designated Officer. These licences are currently in the process of being amended by a CNSC Designated Officer.

Therefore, CNSC staff recommend that the Commission amend the licences identified in Appendix A of this memo to reflect OPG's new headquarters address. The proposed draft licences are attached in this memo.

3.0 Reference:

1. OPG letter, S. Irvine to C. Salmon, "OPG - Request for Administrative Amendment to Update OPG Licences to Reflect the New Headquarters Address", October 28, 2025, CD# N-CORR-00531-24724 P, e-Doc [7592873](#).

Attachments:

1. Proposed Draft Darlington New Nuclear Project Site, PRSL 18.01/2031
2. Proposed Draft Darlington New Nuclear Project Site, PRCL 32.01/2035
3. Proposed Draft Pickering Nuclear Generating Station, PROL 48.04/2028
4. Proposed Draft Darlington Nuclear Generating Station, PROL 13.01/2045
5. Proposed Draft Western Waste Management Facility, WFOL-W4-314.01/2027
6. Proposed Draft Pickering Waste Management Facility, WFOL-W4-350.02/2028
7. Proposed Draft Darlington Waste Management Facility, WFOL-W4-355.01/2033

Appendix A

Power Reactor Construction Licence				
Current Licence	Description	Current Address	Proposed New Address	Proposed New Licence
PRSL 18.00/2031	Darlington New Nuclear Project Site	Ontario Power Generation Inc. 700 University Avenue Toronto, Ontario M5G 1X6	Ontario Power Generation Inc. 1908 Colonel Sam Drive, Oshawa, Ontario L1H 8P7, Canada	PRCL 18.01/2031 Word e-Doc: 7609942 PDF e-Doc: 7609947
PRCL 32.00/2035	Darlington New Nuclear Project Site	Ontario Power Generation Incorporated 700 University Avenue Toronto, Ontario M5G 1X6	Ontario Power Generation Incorporated 1908 Colonel Sam Drive, Oshawa, Ontario L1H 8P7, Canada	PRCL 32.01/2035 Word e-Doc: 7604103 PDF e-Doc: 7604135
Power Reactor Operating Licences				
Current Licence	Description	Current Address	Proposed New Address	Proposed New Licence
PROL 48.03/2028	Pickering Nuclear Generating Station	Ontario Power Generation Inc. 700 University Avenue Toronto, Ontario M5G 1X6	Ontario Power Generation Inc. 1908 Colonel Sam Drive, Oshawa, Ontario L1H 8P7, Canada	PROL 48.04/2028 Word e-Doc: 7604151 PDF e-Doc: 7604178
PROL 13.0/2045	Darlington Nuclear Generating Station	Ontario Power Generation Inc. 700 University Avenue Toronto, Ontario M5G 1X6	Ontario Power Generation Inc. 1908 Colonel Sam Drive, Oshawa, Ontario L1H 8P7, Canada	PROL 13.01/2045 Word e-Doc: 7604188 PDF e-Doc: 7604194

Waste Facility Operating Licences				
Current Licence	Description	Current Address	Proposed New Address	Proposed New Licence
WFOL-W4-314.00/2027	Western Waste Management Facility	Ontario Power Generation Inc. 700 University Avenue Toronto, Ontario M5G 1X6	Ontario Power Generation Inc. 1908 Colonel Sam Drive, Oshawa, Ontario L1H 8P7, Canada	WFOL-W4-314.01/2027 Word e-Doc: 7604207 PDF e-Doc: 7604208
WFOL-W4-350.01/2028	Pickering Waste Management Facility	Ontario Power Generation Inc. 700 University Avenue Toronto, Ontario M5G 1X6	Ontario Power Generation Inc. 1908 Colonel Sam Drive, Oshawa, Ontario L1H 8P7, Canada	WFOL-W4-350.02/2028 Word e-Doc: 7604213 PDF e-Doc: 7604214
WFOL-W4-355.00/2033	Darlington Waste Management Facility	Ontario Power Generation Inc. 700 University Avenue Toronto, Ontario M5G 1X6	Ontario Power Generation Inc. 1908 Colonel Sam Drive, Oshawa, Ontario L1H 8P7, Canada	WFOL-W4-355.01/2033 Word e-Doc: 7604220 PDF e-Doc: 7604221

Attachment 1 - Proposed Draft Darlington New Nuclear Project Site, PRSL 18.01/2031



Canadian Nuclear
Safety Commission

Commission canadienne
de sûreté nucléaire

PDF Ref.: e-Doc 7609947

Word Ref.: e-Doc 7609942

File: 2.01

NUCLEAR POWER REACTOR SITE PREPARATION LICENCE OPG NEW NUCLEAR AT DARLINGTON GENERATING STATION

I) LICENCE NUMBER: **PRSL 18.01/2031**

II) LICENSEE: Pursuant to section 24 of the *Nuclear Safety and Control Act* this licence is issued to:

Ontario Power Generation Inc. [Amend
1908 Colonel Sam Drive, 2025-xx]
Oshawa, Ontario L1H 8P7, Canada

III) LICENCE PERIOD: This licence is valid from October 12, 2021 to October 11, 2031, unless suspended, amended, revoked or replaced.

IV) LICENSED ACTIVITIES:
This licence authorizes the licensee to:

(i) Prepare the Darlington Nuclear site, further described in OPG New Nuclear at Darlington Survey Drawings, NK054-DRAW-01210-00007 and NK054-DRAW-01210-00008, for the future construction and operation of a new nuclear generating station (hereinafter “the nuclear facility”) located in the Township of Darlington, in the Municipality of Clarington, in the Regional Municipality of Durham, in the Province of Ontario. Site preparation activities include:

a) construction of site access control measures;

b) clearing and grubbing of vegetation;

c) excavation and grading of the site to a finished elevation of approximately +78 masl (metres above sea level);

d) installation of services and utilities (domestic water, fire water, sewage, electrical, communications, natural gas) to service the future nuclear facility;

e) construction of administrative and support buildings inside the future protected area;

f) construction of environmental monitoring and mitigation systems; and,

g) construction of flood protection and erosion control measures.

(ii) Possess and use prescribed information that is required for, associated with, or arise from the activities described in (i).

V) EXPLANATORY NOTES:

- (i) Nothing in this licence shall be construed to authorize non-compliance with any other applicable legal obligation or restriction.
- (ii) Unless otherwise provided for in this licence, words and expressions used in this licence have the same meaning as in the *Nuclear Safety and Control Act* and associated Regulations.
- (iii) The “**OPG DARLINGTON NEW NUCLEAR PROJECT (DNNP) POWER REACTOR SITE LICENCE** (PRSL) Licence Conditions Handbook (LCH)” provides compliance verification criteria including the Canadian standards and regulatory documents used to verify compliance with the conditions in the licence. The LCH also provides information regarding delegation of authority, applicable versions of documents and non-mandatory recommendations and guidance on how to achieve compliance.

VI) CONDITIONS:

G. General

- G.1 The licensee shall conduct the activities described in Part IV of this licence in accordance with the licensing basis, defined as:
 - (i) the regulatory requirements set out in the applicable laws and regulations;
 - (ii) the conditions and safety and control measures described in the facility's or activity's licence and the documents directly referenced in that licence; and,
 - (iii) the safety and control measures described in the licence application and the documents needed to support that licence application.unless otherwise approved in writing by the Canadian Nuclear Safety Commission (CNSC, hereinafter “the Commission”).
- G.2 The licensee shall give written notification of changes to the facility or its operation, including deviation from design, operating conditions, policies, programs and methods referred to in the licensing basis.
- G.3 The licensee shall control the use and occupation of any land within the exclusion zone.
- G.4 The licensee shall provide, at the nuclear facility and at no expense to the Commission, suitable office space for employees of the Commission who customarily carry out their functions on the premises of that nuclear facility (onsite Commission staff).
- G.5 The licensee shall maintain a financial guarantee for decommissioning that is acceptable to the Commission.
- G.6 The licensee shall implement and maintain a public information and disclosure program.

1. Management System

1.1 The licensee shall implement and maintain a management system.

2. Human Performance Management

2.1 Not applicable.

3. Operating Performance

3.1 The licensee shall implement and maintain an operations program.

3.2 The licensee shall implement a program for reporting to the Commission, or person authorized by the Commission.

4. Safety Analysis

4.1 The licensee shall implement and maintain a safety analysis program.

5. Physical Design

5.1 The licensee shall implement and maintain a design program.

6. Fitness for Service

6.1 Not applicable.

7. Radiation Protection

7.1 The licensee shall implement and maintain a radiation protection program.

8. Conventional Health and Safety

8.1 The licensee shall implement and maintain a conventional health and safety program.

9. Environmental Protection

9.1 The licensee shall implement and maintain an environmental protection program.

10. Emergency and Management and Fire Protection

10.1 The licensee shall implement and maintain an emergency preparedness program.

10.2 The licensee shall implement and maintain a fire protection program.

11. Waste Management

11.1 The licensee shall implement and maintain a waste management program.

11.2 The licensee shall implement and maintain a decommissioning plan.

12. Security

12.1 The licensee shall implement and maintain a security program.

13. Safeguards and Non-Proliferation

13.1 The licensee shall implement and maintain a safeguard program.

14. Packaging and Transport

14.1 Not applicable.

15. Site Specific

15.1 The licensee shall implement the mitigation measures proposed and commitments made during the Darlington Joint Review Panel process, including the applicable recommendations of the Darlington Joint Review Panel Report, in accordance with the Government of Canada response.

15.2 The licensee shall implement and maintain an environmental assessment follow-up program.

15.3 The licensee shall have the documents required for site preparation accepted by the Commission, or a person authorized by the Commission, prior to the commencement of the licensed activities described in Part IV (i) of this licence.

SIGNED at OTTAWA, Date

Pierre Tremblay
President
Canadian Nuclear Safety Commission

Attachment 2 - Proposed Draft Darlington New Nuclear Project Site, PRCL 32.01/2035



Canadian Nuclear Safety Commission Commission canadienne de sûreté nucléaire

Nuclear Power Reactor Construction Licence

Permis de construire de réacteur nucléaire

PRCL 32.01/2035

I) LICENCE NUMBER: **PRCL 32.01/2035**

II) LICENSEE: Pursuant to subsection 24(4) of the *Nuclear Safety and Control Act*, this licence is issued to:

**Ontario Power Generation (OPG), Incorporated
1908 Colonel Sam Drive,
Oshawa, Ontario L1H 8P7, Canada**

[Amend
2025-xx]

III) LICENCE PERIOD: This licence is valid from: **April 4, 2025 to March 31, 2035** unless otherwise suspended, amended, revoked, or replaced.

IV) LICENSED ACTIVITIES: This licence authorizes the licensee to:

- i) Prepare the site for Class IA nuclear facilities at the Darlington New Nuclear site, comprising the following activities:
 - a. Construction of site access control measures.
 - b. Clearing and grubbing of vegetation.
 - c. Excavation and grading of the site to the finished design elevation.
 - d. Installation of services and utilities (domestic water, fire water, sewage, electrical, communications, natural gas) to service the future nuclear facility.
 - e. Construction of administrative and support buildings inside the future protected area.
 - f. Construction of environmental monitoring and mitigation systems; and
 - g. Construction of flood protection and erosion control measures.
- ii) Construct a Class IA nuclear facility and supporting infrastructure at the Darlington New Nuclear site, comprising the following activities:
 - a. Construction of a single BWRX-300 Powerblock, consisting of the Reactor Building, the Turbine Building, the Control Building, the Radwaste Building, and associated structures.
 - b. Construction of supporting infrastructure, including condenser cooling water system structures.



- c. Conduct of commissioning testing of systems and structures prior to the loading of nuclear fuel.
- ii) Possess and use prescribed information that is required for, associated with, or arises from the activities described in (i) or (ii) above.

V) EXPLANATORY NOTES:

- i) Nothing in this licence shall be construed to authorize non-compliance with any other applicable legal obligation or restriction.
- ii) Unless otherwise provided for in this licence, words and expressions used in this licence have the same meaning as in the *Nuclear Safety and Control Act* and associated Regulations.
- iii) The “OPG DARLINGTON NEW NUCLEAR PROJECT (DNNP) POWER REACTOR CONSTRUCTION LICENCE (PRCL) Licence Conditions Handbook (LCH)” provides compliance verification criteria including the Canadian standards and regulatory documents used to verify compliance with the conditions in the licence. The LCH also provides information regarding delegation of authority, applicable versions of documents, and non-mandatory recommendations and guidance on how to achieve compliance.

VI) CONDITIONS:

G. GENERAL

G.1 The licensee shall conduct the activities described in Part IV of this licence in accordance with the licensing basis, defined as:

- i) The regulatory requirements set out in the applicable laws and regulations;
- ii) The conditions and safety and control measures described in the facility’s or activity’s licence and the documents directly referenced in that licence; and
- iii) The safety and control measures described in the licence application and the documents needed to support that licence application.

Unless otherwise approved in writing by the Canadian Nuclear Safety Commission (CNSC, hereinafter “the Commission”).

G.2 The licensee shall give written notification of changes to the facility or its operation, including the deviation from design, operating conditions, policies, programs, and methods referred to in the licensing basis.

G.3 The licensee shall control the use and occupation of any land within the exclusion zone.



Canadian Nuclear
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de sûreté nucléaire

Nuclear Power Reactor Construction
Licence

Permis de construire de réacteur
nucléaire

PRCL 32.01/2035

G.4 The licensee shall provide, at the nuclear facility and at no expense to the Commission, suitable office space for employees of the Commission who customarily carry out their functions on the premises of that nuclear facility (onsite Commission staff).

G.5 The licensee shall maintain a financial guarantee for decommissioning that is acceptable to the Commission.

G.6 The licensee shall implement and maintain a public information and disclosure program.

1. Management System

1.1. The licensee shall implement and maintain a management system.

2. Human Performance Management

2.1. The licensee shall implement and maintain a human performance program.

2.2. The licensee shall implement and maintain a training program.

3. Operating Performance

3.1. The licensee shall implement and maintain an operations program.

3.2. The licensee shall notify and report in accordance with the periods and requirements of CNSC Regulatory Document REGDOC-3.1.1 – REPORTING REQUIREMENTS FOR NUCLEAR POWER PLANTS.

3.3. The licensee shall implement a construction and commissioning program.

4. Safety Analysis

4.1. The licensee shall implement and maintain a safety analysis program.

5. Physical Design

5.1. The licensee shall implement and maintain a design program.

5.2. The licensee shall implement and maintain a pressure boundary program and have in place a formal agreement with an Authorized Inspection Agency.

5.3. The licensee shall implement and maintain an equipment and structure qualification program.

6. Fitness for Service

6.1. Not applicable.

7. Radiation Protection

7.1. The licensee shall implement and maintain a radiation protection program.

8. Conventional Health and Safety

8.1. The licensee shall implement and maintain a conventional health and safety program.



9. Environmental Protection

9.1. The licensee shall implement and maintain an environmental protection program.

10. Emergency Management and Fire Protection

10.1. The licensee shall implement and maintain an emergency preparedness program.
10.2. The licensee shall implement and maintain a fire protection program.

11. Waste Management

11.1. The licensee shall implement and maintain a waste management program.
11.2. The licensee shall implement and maintain a decommissioning plan.

12. Security

12.1. The licensee shall implement and maintain a security program.

13. Safeguards and Non-Proliferation

13.1. The licensee shall implement and maintain a safeguards program.

14. Packaging and Transport

14.1. Not applicable.

15. Site Specific

15.1. The licensee shall implement the mitigation measures proposed and commitments made during the Darlington Joint Review Panel process, including the applicable recommendations of the Darlington Joint Review Panel Report, in accordance with the Government of Canada response.
15.2. The licensee shall implement and maintain an environmental assessment follow-up program.
15.3. The licensee shall obtain the approval of the Commission, or consent of a person authorized by the Commission, prior to the removal of established regulatory hold points.
15.4. The licensee shall conduct Indigenous engagement activities, specific to the DNNP, throughout the period of this licence.



Canadian Nuclear
Safety Commission Commission canadienne
de sûreté nucléaire

Nuclear Power Reactor Construction
Licence

Permis de construire de réacteur
nucléaire

PRCL 32.01/2035

SIGNED at Ottawa on

X

President, Canadian Nuclear Safety Commissi...

Attachment 3 – Proposed Draft Pickering Nuclear Generating Station, PROL 48.04/2028



Canadian Nuclear
Safety Commission

Commission canadienne
de sûreté nucléaire

PDF Ref.: e-Doc 7604178
Word Ref.: e-Doc 7604151
File / Dossier: 2.01

NUCLEAR POWER REACTOR OPERATING LICENCE

PICKERING NUCLEAR GENERATING STATION

I) LICENCE NUMBER: **PROL 48.04/2028**

II) LICENSEE: Pursuant to section 24 of the *Nuclear Safety and Control Act* this licence is issued to:

III) **Ontario Power Generation Inc.** [Amended
1908 Colonel Sam Drive, 2025-xx]
Oshawa, Ontario
L1H 8P7, Canada

IV) LICENCE PERIOD: This licence is valid from September 1, 2018 to August 31, 2028, unless suspended, amended, revoked or replaced.

V) LICENSED ACTIVITIES:

This licence authorizes the licensee to:

- (i) operate the Pickering Nuclear Generating Station (hereinafter “the nuclear facility”) at a site located in the City of Pickering, in the Regional Municipality of Durham, in the Province of Ontario;
- (ii) possess, transfer, use, package, manage and store the nuclear substances that are required for, associated with, or arise from the activities described in (i);
- (iii) import and export the nuclear substances, except controlled nuclear substances, that are required for, associated with, or arise from the activities described in (i);
- (iv) possess, transfer, produce, package, manage, and store produce Cobalt-60;
- (v) possess, transfer, manage and store heavy water from other nuclear facilities;
- (vi) transport Category II nuclear material by road vehicle from the nuclear facility spent fuel bay to the onsite waste storage facility;
- (vii) possess, transfer, export, package, manage and store nuclear substances, except controlled nuclear substances, from the Western Waste Management Facility;
- (viii) possess and use prescribed equipment and prescribed information that are required for, associated with, or arise from the activities described in (i); and
- (ix) possess, use, manage and store enriched uranium as required for fission chambers for the Pickering Nuclear Generating Station units 1 and 4 Shutdown System Enhancement, including spares.

VI) EXPLANATORY NOTES:

- (i) Nothing in this licence shall be construed to authorize non-compliance with any other applicable legal obligation or restriction.
- (ii) Unless otherwise provided for in this licence, words and expressions used in this licence have the same meaning as in the *Nuclear Safety and Control Act* and associated Regulations.
- (iii) The Pickering NGS Licence Conditions Handbook (LCH) provides compliance verification criteria used to verify compliance with the conditions in the licence. The LCH also provides information regarding delegation of authority, applicable versions of documents and non-mandatory guidance on how to achieve compliance.

VI) CONDITIONS:**G. General**

- G.1 The licensee shall conduct the activities described in Part IV of this licence in accordance with the licensing basis, defined as:
 - (i) the regulatory requirements set out in the applicable laws and regulations;
 - (ii) the conditions and safety and control measures described in the facility's or activity's licence and the documents directly referenced in that licence;
 - (iii) the safety and control measures described in the licence application and the documents needed to support that licence application;unless otherwise approved in writing by the Canadian Nuclear Safety Commission (CNSC, hereinafter "the Commission").
- G.2 The licensee shall give written notification of changes to the facility or its operation, including deviation from design, operating conditions, policies, programs and methods referred to in the licensing basis.
- G.3 The licensee shall control the use and occupation of any land within the exclusion zone.
- G.4 The licensee shall provide, at the nuclear facility and at no expense to the Commission, suitable office space for employees of the Commission who customarily carry out their functions on the premises of that nuclear facility (onsite Commission staff).
- G.5 The licensee shall maintain a financial guarantee for decommissioning that is acceptable to the Commission.
- G.6 The licensee shall implement and maintain a public information and disclosure program.

1. Management System

- 1.1 The licensee shall implement and maintain a management system.

2. Human Performance Management

- 2.1 The licensee shall implement and maintain a human performance program.
- 2.2 The licensee shall implement and maintain the minimum shift complement and control room staffing for the nuclear facility.
- 2.3 The licensee shall implement and maintain training programs.

2.4 The licensee shall implement and maintain certification programs in accordance with CNSC regulatory document REGDOC-2.2.3, *Personnel Certification, Volume III: Certification of Reactor Facility Workers, Version 2*. Workers who began an applicable initial training program in accordance with the requirements outlined in REGDOC-2.2.3, Personnel Certification, Volume III: Certification of Persons Working at Nuclear Power Plants, before January 31, 2025, may continue to be certified under requirements of this version until January 31, 2030. [Amended 2025-02]

Persons appointed to the following positions require certification:

- (i) Responsible Health Physicist;
- (ii) Shift Manager;
- (iii) Control Room Shift Supervisor; and
- (iv) Authorized Nuclear Operator.

3. Operating Performance

3.1 The licensee shall implement and maintain an operations program, which includes a set of operating limits.

3.2 The licensee shall not restart a reactor after a serious process failure without the prior written approval of the Commission, or prior written consent of a person authorized by the Commission.

3.3 The licensee shall notify and report in accordance with CNSC regulatory document REGDOC-3.1.1, *Reporting Requirements for Nuclear Power Plants*.

4. Safety Analysis

4.1 The licensee shall implement and maintain a safety analysis program.

5. Physical Design

5.1 The licensee shall implement and maintain a design program.

5.2 The licensee shall implement and maintain a pressure boundary program and have in place a formal agreement with an Authorized Inspection Agency.

5.3 The licensee shall implement and maintain an equipment and structure qualification program.

6. Fitness for Service

6.1 The licensee shall implement and maintain a fitness for service program.

6.2 The licensee shall implement and maintain an enhanced fitness for service program for fuel channels in extended operation. [Amended 2024-10]

7. Radiation Protection

7.1 The licensee shall implement and maintain a radiation protection program, which includes a set of action levels. When the licensee becomes aware that an action level has been reached, the licensee shall notify the Commission within seven days.

8. Conventional Health and Safety

8.1 The licensee shall implement and maintain a conventional health and safety program.

9. Environmental Protection

9.1 The licensee shall implement and maintain an environmental protection program, which includes a set of action levels. When the licensee becomes aware that an action level has been reached, the licensee shall notify the Commission within seven days.

10. Emergency Management and Fire Protection

10.1 The licensee shall implement and maintain an emergency preparedness program.
10.2 The licensee shall implement and maintain a fire protection program.

11. Waste Management

11.1 The licensee shall implement and maintain a waste management program.
11.2 The licensee shall maintain a decommissioning plan.

12. Security

12.1 The licensee shall implement and maintain a security program.

13. Safeguards and Non-Proliferation

13.1 The licensee shall implement and maintain a safeguards program.

14. Packaging and Transport

14.1 The licensee shall implement and maintain a packaging and transport program.

15. Nuclear Facility-Specific

15.1 The licensee shall implement the Integrated Implementation Plan.
15.2 The licensee shall maintain Units 2 and 3 in the safe storage phase.
15.3 (Removed) [Amended
2024-10]
15.4 The licensee shall implement and maintain plans for the end of commercial operations of all Pickering units.
15.5 The licensee shall implement and maintain a Cobalt-60 program for activities described under Part IV) of this licence.
15.6 The licensee shall limit the import and export of nuclear substances to those occurring as contaminants in laundry, packaging, shielding or equipment.

SIGNED at OTTAWA _____

Pierre Tremblay
President
CANADIAN NUCLEAR SAFETY COMMISSION

Attachment 4 - Proposed Draft Darlington Nuclear Generating Station, PROL 13.01/2045



Canadian Nuclear
Safety Commission

Commission canadienne
de sûreté nucléaire

Word Ref.: e-Doc 7604188

PDF Ref.: e-Doc 7604194

File / Dossier: 2.01

NUCLEAR POWER REACTOR OPERATING LICENCE

DARLINGTON NUCLEAR GENERATING STATION

I) LICENCE NUMBER: **PROL 13.01/2045**

II) LICENSEE: Pursuant to section 24 of the *Nuclear Safety and Control Act* this licence is issued to:

Ontario Power Generation Inc [Amended
1908 Colonel Sam Drive, 2025-xx]
Oshawa, Ontario
L1H 8P7, Canada

III) LICENCE PERIOD: This licence is valid from December 1, 2025 to November 30, 2045, unless suspended, amended, revoked or replaced.

IV) LICENSED ACTIVITIES:

This licence authorizes the licensee to:

- (i) operate the Darlington Nuclear Generating Station, including equipment for the production of radionuclides identified in (vi) and the Darlington Tritium Removal Facility housed within the Heavy Water Management Building (hereinafter “the nuclear facility”), at a site located in the Municipality of Clarington, in the Regional Municipality of Durham, in the Province of Ontario;
- (ii) possess, transfer, use, package, manage and store the nuclear substances that are required for, associated with, or arise from the activities described in (i);
- (iii) import and export nuclear substances, except controlled nuclear substances, that are required for, associated with, or arise from the activities described in (i);
- (iv) possess and use prescribed equipment and prescribed information that are required for, associated with, or arise from the activities described in (i);
- (v) possess, transfer, process, package, manage and store the nuclear substances associated with the operation of the Darlington Tritium Removal Facility;
- (vi) produce, possess, transfer, use, package, manage and store nuclear substances that are required for, associated with, or arise from the activities associated with operations of the Darlington Nuclear Generating station and activities described in (i) associated with production of:
 - (1) Co-60; and
 - (2) Y-90, Mo-99 and Lu-177including the associated decay radionuclides.

V) EXPLANATORY NOTES:

- (i) Nothing in this licence shall be construed to authorize non-compliance with any other applicable legal obligation or restriction.
- (ii) Unless otherwise provided for in this licence, words and expressions used in this licence have the same meaning as in the *Nuclear Safety and Control Act* and associated Regulations.
- (iii) The Darlington NGS Licence Conditions Handbook (LCH) provides compliance verification criteria including the Canadian standards and regulatory documents used to verify compliance with the conditions in the licence. The LCH also provides information regarding delegation of authority, applicable versions of documents and non-mandatory recommendations and guidance on how to achieve compliance.

VI) CONDITIONS:**G. General**

- G.1 The licensee shall conduct the activities described in Part IV of this licence in accordance with the licensing basis, defined as:
 - (i) the regulatory requirements set out in the applicable laws and regulations
 - (ii) the conditions and safety and control measures described in the facility's or activity's licence and the documents directly referenced in that licence
 - (iii) the safety and control measures described in the licence application and the documents needed to support that licence application;unless otherwise approved in writing by the Canadian Nuclear Safety Commission (CNSC, hereinafter "the Commission").
- G.2 The licensee shall give notification of changes to the facility's safety and control measures that impact the licensing basis.
- G.3 The licensee shall control the use and occupation of any land within the exclusion zone.
- G.4 The licensee shall provide, at the nuclear facility and at no expense to the Commission, suitable office space for employees of the Commission who customarily carry out their functions on the premises of that nuclear facility (onsite Commission staff).
- G.5 The licensee shall maintain a financial guarantee for decommissioning that is acceptable to the Commission.
- G.6 The licensee shall implement and maintain a public information and disclosure program.
- G.7 The licensee shall implement and maintain an Indigenous engagement program.

- 1. **Management System**
 - 1.1 The licensee shall implement and maintain a management system.
- 2. **Human Performance Management**
 - 2.1 The licensee shall implement and maintain a human performance program.
 - 2.2 The licensee shall implement and maintain the minimum shift complement and control room staffing.
 - 2.3 The licensee shall implement and maintain training programs for workers.
 - 2.4 The licensee shall implement and maintain certification programs in accordance with CNSC

regulatory document [REGDOC-2.2.3, Personnel Certification, Volume III: Certification of Reactor Facility Workers, Version 2](#).

Workers who began an applicable initial training program in accordance with the requirements outlined in [REGDOC-2.2.3, Personnel Certification, Volume III: Certification of Persons Working at Nuclear Power Plants](#), before January 31, 2025, may continue to be certified under requirements of this version until January 31, 2030.

Persons appointed to the following positions require certification:

- (i) Responsible Health Physicist;
- (ii) Shift Manager;
- (iii) Control Room Shift Supervisor;
- (iv) Authorized Nuclear Operator; and
- (v) Unit 0 Control Room Operator.

3. Operating Performance

- 3.1 The licensee shall implement and maintain an operations program, which includes a set of operating limits.
- 3.2 The licensee shall not restart a reactor after a serious process failure without the prior written approval of the Commission, or prior written consent of a person authorized by the Commission.
- 3.3 The licensee shall notify and report in accordance with CNSC regulatory document [REGDOC-3.1.1 Reporting Requirements: Nuclear Power Plants](#).
- 3.4 The licensee shall conduct and submit, results of a periodic safety review at least every 10 years.

4. Safety Analysis

- 4.1 The licensee shall implement and maintain a safety analysis program.

5. Physical Design

- 5.1 The licensee shall implement and maintain a design program.
- 5.2 The licensee shall implement and maintain a pressure boundary program and have in place a formal agreement with an Authorized Inspection Agency.
- 5.3 The licensee shall implement and maintain an equipment and structure qualification program.

6. Fitness for Service

- 6.1 The licensee shall implement and maintain a fitness for service program.

7. Radiation Protection

- 7.1 The licensee shall implement and maintain a radiation protection program, which includes a set of action levels. When the licensee becomes aware that an action level has been reached, the licensee shall notify the Commission within seven days.

8. Conventional Health and Safety

- 8.1 The licensee shall implement and maintain a conventional health and safety program.

9. Environmental Protection

9.1 The licensee shall implement and maintain an environmental protection program, which includes a set of action levels. When the licensee becomes aware that an action level has been reached, the licensee shall notify the Commission within seven days.

10. Emergency Management and Fire Protection

10.1 The licensee shall implement and maintain an emergency preparedness program.

10.2 The licensee shall implement and maintain a fire protection program.

11. Waste Management

11.1 The licensee shall implement and maintain a waste management program.

11.2 The licensee shall implement and maintain a decommissioning plan.

12. Security

12.1 The licensee shall implement and maintain a security program.

13. Safeguards and Non-Proliferation

13.1 The licensee shall implement and maintain a safeguards program.

14. Packaging and Transport

14.1 The licensee shall implement and maintain a packaging and transport of nuclear substances program.

15. Nuclear Facility-Specific

15.1 The licensee shall implement and maintain an operations program for the Tritium Removal Facility, which includes a set of operating limits.

15.2 The licensee shall implement a return to service plan for refurbishment.

15.3 The licensee shall implement the Integrated Implementation Plan.

15.4 The licensee shall obtain the approval of the Commission, or consent of a person authorized by the Commission, prior to the removal of established regulatory hold points.

15.5 The licensee shall limit the activities of import and export of nuclear substances to those occurring as contaminants in laundry, packaging, shielding or equipment.

15.6 The licensee shall implement and maintain an operations program for the use of the Target Delivery System to produce the radionuclides described in section IV (vi) (2).

15.7 The licensee shall implement and maintain a Co-60 operations program for the activities described in part IV of the licence.

Pierre F. Tremblay, President

Date

On behalf of the Canadian Nuclear Safety Commission

Attachment 5 - Proposed Draft Western Waste Management Facility, WFOL-W4-314.01/2027



Canadian Nuclear Safety Commission Commission canadienne de sûreté nucléaire

Word Ref.: e-Doc 7604207
PDF Ref.: e-Doc 7604208

File/Dossier: 2.05

WASTE FACILITY OPERATING LICENCE WESTERN WASTE MANAGEMENT FACILITY

I) LICENCE NUMBER: **WFOL-W4-314.01/2027**

II) LICENSEE: Pursuant to section 24 of the *Nuclear Safety and Control Act* this licence is issued to:

Ontario Power Generation Inc. [Amended
1908 Colonel Sam Drive, 2025-xx]
Oshawa, Ontario
L1H 8P7, Canada

III) LICENCE PERIOD: This licence is valid from **June 1, 2017** to **May 31, 2027** unless suspended, amended, revoked, replaced, or transferred.

IV) LICENSED ACTIVITIES:

This licence authorizes the licensee to:

- (i) operate the Western Waste Management Facility (hereinafter “the facility”), which includes the Western Low and Intermediate Level Waste Storage Facility and the Western Used Fuel Dry Storage Facility, located at the Bruce nuclear site, Municipality of Kincardine, Province of Ontario;
- (ii) possess, transfer, use, process, package, manage, import, export, and store nuclear substances, except Category I, II and III nuclear material that are required for, associated with or arise from the activities described in (i);
- (iii) possess, transfer, package, manage, and store Category II nuclear material that is required for, associated with or arise from the activities described in (i) that are part of the Western Used Fuel Dry Storage Facility;
- (iv) transport Category II nuclear materials that are associated with the activities described in (i) on the site of the Bruce Nuclear Power Development;
- (v) carry out the site preparation, construction, or construction modifications at the facility associated with the authorized additional structures, when on completion will result in a total of no more than those listed in Table 1 of Appendix A; and

(vi) possess and use prescribed equipment and prescribed information that are required for, associated with or arise from the activities described in (i), (ii), (iii), (iv) and (v).

V) EXPLANATORY NOTES:

(i) Unless otherwise provided for in this licence, words and expressions used in this licence have the same meaning as in the *Nuclear Safety and Control Act* and associated Regulations.

(ii) The Western Waste Management Facility licence conditions handbook (LCH) provides compliance verification criteria used to meet the conditions of this licence. The LCH also provides information on delegation of authority and document version control.

VI) CONDITIONS:

G GENERAL

G.1 Licensing Basis for Licensed Activities

The licensee shall conduct the activities described in Part IV of this licence in accordance with the licensing basis, defined as:

- (i) the regulatory requirements set out in the applicable laws and regulations;
- (ii) the conditions and safety and control measures described in the facility's or activity's licence and the documents directly referenced in that licence;
- (iii) the safety and control measures described in the licence application and the documents needed to support that licence application;

Unless otherwise approved in writing by the Canadian Nuclear Safety Commission (hereinafter "the Commission").

G.2 Notification of Changes

The licensee shall give written notification of changes to the facility or its operation, including deviation from design, operating conditions, policies, programs and methods referred to in the licensing basis.

G.3 Financial Guarantee

The licensee shall maintain a financial guarantee for decommissioning that is acceptable to the Commission.

G.4 Public Information and Disclosure

The licensee shall implement and maintain a public information and disclosure program.

1 MANAGEMENT SYSTEM

1.1 Management System

The licensee shall implement and maintain a management system.

1.2 Management of Contractors

The licensee shall ensure that every contractor working at the facility complies with this licence.

2 HUMAN PERFORMANCE MANAGEMENT

2.1 Human Performance Program

The licensee shall implement and maintain a human performance program.

2.2 Training Program

The licensee shall implement and maintain a training program.

3 OPERATING PERFORMANCE

3.1 Operations Program

The licensee shall implement and maintain an operating program, which includes a set of operating limits.

3.2 Reporting Requirements

The licensee shall implement and maintain a program for reporting to the Commission or a person authorized by the Commission.

4 SAFETY ANALYSIS

4.1 Safety Analysis Program

The licensee shall implement and maintain a safety analysis program.

5 PHYSICAL DESIGN

5.1 Design Program

The licensee shall implement and maintain a design program.

5.2 Pressure Boundary

The licensee shall implement and maintain a pressure boundary program and have in place a formal agreement with an Authorized Inspection Agency.

6 FITNESS FOR SERVICE

6.1 Fitness for Service Program

The licensee shall implement and maintain a fitness for service program.

7 RADIATION PROTECTION

7.1 Radiation Protection

The licensee shall implement and maintain a radiation protection program, which includes a set of action levels. When the licensee becomes aware that an action level has been reached, the licensee shall notify the Commission within seven days.

8 CONVENTIONAL HEALTH AND SAFETY

8.1 Conventional Health and Safety Program

The licensee shall implement and maintain a conventional health and safety program.

9 ENVIRONMENTAL PROTECTION

9.1 Environmental Protection

The licensee shall implement and maintain an environmental protection program, which includes a set of action levels. When the licensee becomes aware that an action level has been reached, the licensee shall notify the Commission within seven days.

10 EMERGENCY MANAGEMENT AND FIRE PROTECTION

10.1 Emergency Preparedness Program

The licensee shall implement and maintain an emergency preparedness program.

10.2 Fire Protection Program

The licensee shall implement and maintain a fire protection program.

11 WASTE MANAGEMENT

11.1 Waste Management Program

The licensee shall implement and maintain a waste management program.

11.2 Decommissioning Plan

The licensee shall maintain a decommissioning plan.

12 SECURITY

12.1 Security Program

The licensee shall implement and maintain a security program.

12.2 Construction

The licensee shall not carry out the activities referred to in paragraph (iii) of Part IV of this licence that relate to completed construction activities in paragraph (v) of Part IV of this licence until the submission of the proposed security arrangements and measures for the new building, or any potential modifications to the protected area that may be associated with this new building, that is acceptable to the Commission or a person authorized by the Commission.

13 SAFEGUARDS AND NON-PROLIFERATION

13.1 Safeguards Program

The licensee shall implement and maintain a safeguards program.

14 PACKAGING AND TRANSPORT

14.1 Packaging and Transport Program

The licensee shall implement and maintain a packaging and transport program.

15 FACILITY-SPECIFIC

15.1 Construction Plans

The licensee shall submit an environmental management plan, a construction verification plan and the project design requirements prior to the commencement of construction activities described in paragraph (v) of Part IV of this licence.

15.2 Commissioning Report

The licensee shall not carry out the activities referred to in paragraphs (ii) and (iii) of Part IV of this licence that relate to completed construction activities in paragraph (v) of Part IV of this licence until the submission of a commissioning report that is acceptable to the Commission for the structures listed in Table 2 of Appendix A, or a person authorized by the Commission for the structures listed in Table 3 of Appendix A.

15.3 Import and Export of Nuclear Substances

The licensee shall limit the activities of import and export of nuclear substances only to those found in Appendix B of this licence, occurring as contaminants in laundry, packaging, shielding or equipment.

SIGNED at OTTAWA

Pierre F. Tremblay, President
On behalf of the Canadian Nuclear Safety Commission

APPENDIX A

Table 1 – Structures authorized under paragraph (v) of Section IV

Structures	Total structures authorized under paragraph (v) of Section IV
Used Fuel Storage Buildings	4
Storage buildings for low- and intermediate- level waste	11
In-ground containers (IC-18)	270
In-ground containers for heat exchangers (IC-HX)	30
Large Object Processing Building	1
Waste Sorting Building	1

Table 2 – Structures that require acceptance of commissioning reports by the Commission under licence condition 15.2

Structures	Total
Used Fuel Storage Buildings	2
Storage buildings for low- and intermediate- level waste	5
In-ground containers (IC-18)	108
In-ground containers for heat exchangers (IC-HX)	30
Large Object Processing Building	1

Table 3 – Structures that require acceptance of commissioning reports by a person authorized by the Commission under licence condition 15.2

Structures	Total
Used Fuel Storage Buildings	2
Storage buildings for low- and intermediate- level waste	6
In-ground containers (IC-18)	162
Waste Sorting Building	1

APPENDIX B: Nuclear Substances and Quantity Limits for Import and Export

Nuclear Substance	Maximum Total Quantity
Americium 241	10 MBq
Antimony 122	10 GBq
Antimony 124	50 GBq
Antimony 125	20 GBq
Carbon 14	10 GBq
Cerium 141	1 GBq
Cerium 144	1 GBq
Cesium 134	1 GBq
Cesium 137	5 GBq
Chromium 51	50 GBq
Cobalt 57	10 MBq
Cobalt 58	100 MBq
Cobalt 60	50 GBq
Curium 242	1 MBq
Curium 244	100 kBq
Deuterium	350 mg
Europium 154	50 MBq
Europium 155	50 MBq
Gadolinium 153	100 MBq
Gadolinium 159	500 MBq
Hafnium 181	10 MBq
Hydrogen 3	10 GBq
Iodine 129	200 kBq
Iodine 131	2 MBq
Iodine 133	2 MBq
Iron 55	10 GBq
Iron 59	50 GBq
Lanthanum 140	1 MBq
Manganese 54	5 GBq
Manganese 56	5 GBq

Nuclear Substance	Maximum Total Quantity
Molybdenum 99	1 MBq
Neptunium 237	1 kBq
Neptunium 239	500 kBq
Nickel 59	200 MBq
Nickel 63	500 MBq
Niobium 94	10 MBq
Niobium 95	5 GBq
Plutonium 238	1 MBq
Plutonium 239	50 MBq
Plutonium 240	1 MBq
Plutonium 241	58 MBq
Promethium 147	50 MBq
Ruthenium 103	1 GBq
Ruthenium 106	1 GBq
Scandium 46	50 MBq
Silver 108m	100 kBq
Silver 110m	10 MBq
Strontium 89	5 MBq
Strontium 90	10 MBq
Tantalum 182	50 kBq
Tin 113	50 MBq
Tungsten 187	1 MBq
Uranium 234	1 kBq
Uranium 235	1 kBq
Uranium 238	10 kBq
Zinc 65	5 MBq
Zirconium 93	100 GBq
Zirconium 95	100 GBq

Attachment 6 - Proposed Draft Pickering Waste Management Facility, WFOL-W4-350.02/2028



Canadian Nuclear Safety Commission Commission canadienne de sûreté nucléaire

PDF Ref.: e-Doc 7604214
Word Ref.: e-Doc 7604213
File/Dossier: 2.05

WASTE FACILITY OPERATING LICENCE

PICKERING WASTE MANAGEMENT FACILITY

I) LICENCE NUMBER: **WFOL-W4-350.02/2028**

II) LICENSEE: Pursuant to section 24 of the *Nuclear Safety and Control Act* this licence is issued to:

Ontario Power Generation Inc. [Amended
1908 Colonel Sam Drive, 2025-xx]
Oshawa, Ontario
L1H 8P7, Canada

III) LICENCE PERIOD: This licence is valid from **July 24, 2025** to **August 31, 2028** unless suspended, amended, revoked, replaced, or transferred.

IV) LICENSED ACTIVITIES:

This licence authorizes the licensee to:

- (i) operate the Pickering Waste Management Facility (“the facility”) located at the Pickering Nuclear Generating Station, City of Pickering, Regional Municipality of Durham, Province of Ontario;
- (ii) possess, transfer, use, process, package, manage, and store nuclear substances that are required for, associated with or arise from the activities described in (i);
- (iii) transport Category II nuclear materials that are associated with the activities described in (i) on the site of the Pickering Nuclear Generating Station;
- (iv) carry out the site preparation, construction, or construction modifications at the facility associated with the authorized low & intermediate-level waste storage building, and authorized additional used fuel processing and storage buildings, when completion will result in a total of no more than 1 low & intermediate-level waste storage building, 1 dry storage container processing building, and 6 used fuel dry storage buildings; and,
- (v) possess and use prescribed equipment and prescribed information that are required for, associated with or arise from the activities described in (i), (ii), (iii), and (iv).

V) EXPLANATORY NOTES:

- (i) Unless otherwise provided for in this licence, words and expressions used in this licence have the same meaning as in the *Nuclear Safety and Control Act* and associated Regulations.
- (ii) The Pickering Waste Management Facility licence conditions handbook (LCH) provides compliance verification criteria used to meet the conditions of this licence. The LCH also provides information on delegation of authority and document version control.

VI) CONDITIONS:

G GENERAL

G.1 Licensing Basis for Licensed Activities

The licensee shall conduct the activities described in Part IV of this licence in accordance with the licensing basis, defined as:

- (i) the regulatory requirements set out in the applicable laws and regulations;
- (ii) the conditions and safety and control measures described in the facility's or activity's licence and the documents directly referenced in that licence;
- (iii) the safety and control measures described in the licence application and the documents needed to support that licence application;

unless otherwise approved in writing by the Canadian Nuclear Safety Commission (hereinafter "the Commission").

G.2 Notification of Changes

The licensee shall give written notification of changes to the facility or its operation, including deviation from design, operating conditions, policies, programs and methods referred to in the licensing basis.

G.3 Financial Guarantee

The licensee shall maintain a financial guarantee for decommissioning that is acceptable to the Commission.

G.4 Public Information and Disclosure

The licensee shall implement and maintain a public information and disclosure program.

1 MANAGEMENT SYSTEM

1.1 Management System

The licensee shall implement and maintain a management system.

1.2 Management of Contractors

The licensee shall ensure that every contractor working at the facility complies with this licence.

2 HUMAN PERFORMANCE MANAGEMENT

2.1 Human Performance Program

The licensee shall implement and maintain a human performance program.

2.2 Training Program

The licensee shall implement and maintain a training program.

3 OPERATING PERFORMANCE

3.1 Operations Program

The licensee shall implement and maintain an operating program, which includes a set of operating limits.

3.2 Reporting Requirements

The licensee shall implement and maintain a program for reporting to the Commission or a person authorized by the Commission.

4 SAFETY ANALYSIS

4.1 Safety Analysis Program

The licensee shall implement and maintain a safety analysis program.

5 PHYSICAL DESIGN

5.1 Design Program

The licensee shall implement and maintain a design program.

5.2 Pressure Boundary

The licensee shall implement and maintain a pressure boundary program and have in place a formal agreement with an Authorized Inspection Agency.

6 FITNESS FOR SERVICE

6.1 Fitness for Service Program

The licensee shall implement and maintain a fitness for service program.

7 RADIATION PROTECTION

7.1 Radiation Protection

The licensee shall implement and maintain a radiation protection program, which includes a set of action levels. When the licensee becomes aware that an action level has been reached, the licensee shall notify the Commission within seven days.

8 CONVENTIONAL HEALTH AND SAFETY

8.1 Conventional Health and Safety Program

The licensee shall implement and maintain a conventional health and safety program.

9 ENVIRONMENTAL PROTECTION

9.1 Environmental Protection

The licensee shall implement and maintain an environmental protection program, which includes a set of action levels. When the licensee becomes aware that an action level has been reached, the licensee shall notify the Commission within seven days.

9.2 Environmental Assessment Follow-up Program

The licensee shall implement an environment assessment follow-up program.

10 EMERGENCY MANAGEMENT AND FIRE PROTECTION

10.1 Emergency Preparedness Program

The licensee shall implement and maintain an emergency preparedness program.

10.2 Fire Protection Program

The licensee shall implement and maintain a fire protection program.

11 WASTE MANAGEMENT

11.1 Waste Management Program

The licensee shall implement and maintain a waste management program.

11.2 Decommissioning Plan

The licensee shall maintain a decommissioning plan.

12 SECURITY

12.1 Security Program

The licensee shall implement and maintain a security program.

12.2 Construction

The licensee shall not carry out the activities referred to in paragraph (ii) of Part IV of this licence that relate to completed construction activities in paragraph (iv) of Part IV of this licence until the submission of the proposed security arrangements and measures for the new building, or any potential modifications to the protected area that may be associated with this new building, that is acceptable to the Commission or a person authorized by the Commission.

13 SAFEGUARDS AND NON-PROLIFERATION

13.1 Safeguards Program

The licensee shall implement and maintain a safeguards program.

14 PACKAGING AND TRANSPORT

14.1 Packaging and Transport Program

The licensee shall implement and maintain a packaging and transport program.

15 FACILITY-SPECIFIC

15.1 Construction Plans

The licensee shall not carry out the activities referred to in paragraph (iv) of Part IV of this licence without the submission of an environmental management plan, a construction verification plan, and the project design requirements, and without prior written acceptance from the Commission or a person authorized by the Commission.

15.2 Commissioning Report

The licensee shall not carry out the activities referred to in paragraph (ii) of Part IV of this licence that relate to completed construction activities in paragraph (iv) of Part IV of this licence until the submission of a commissioning report that is acceptable to the Commission or a person authorized by the Commission.

SIGNED at OTTAWA,

Pierre F. Tremblay, President
On behalf of the Canadian Nuclear Safety Commission

Attachment 7 - Proposed Draft Darlington Waste Management Facility, WFOL-W4-355.01/2033



Canadian Nuclear Safety Commission Commission canadienne de sûreté nucléaire

PDF Ref.: e-Doc 7604221
Word Ref.: e-Doc 7604220
File / Dossier: 37-2-5-0 / 2.05

WASTE FACILITY OPERATING LICENCE

ONTARIO POWER GENERATION INC. DARLINGTON WASTE MANAGEMENT FACILITY

I) LICENCE NUMBER: WFOL-W4-355.01/2033

II) LICENSEE: Pursuant to section 24 of the *Nuclear Safety and Control Act* this licence is issued to:

Ontario Power Generation Inc. [Amended
1908 Colonel Sam Drive, 2025-xx]
Oshawa, Ontario
L1H 8P7, Canada

III) LICENCE PERIOD: This licence is valid from **May 1, 2023** to **April 30, 2033**, unless suspended, amended, revoked, replaced, or transferred.

IV) LICENSED ACTIVITIES:

This licence authorizes the licensee to:

- (i) operate a waste management facility (herein referred to as “the facility”) located at the Darlington Nuclear Generating Station in Township of Darlington, Municipality of Clarington, Regional Municipality of Durham, Province of Ontario;
- (ii) possess, transfer, use, process, package, manage, and store nuclear substances that are required for, associated with or arise from the activities described in (i);
- (iii) transport Category II nuclear materials that are associated with the activities described in (i) on the site of the Darlington Nuclear Generating Station;
- (iv) carry out the site preparation, construction, or construction modifications at the facility associated with the authorized additional storage structures, when on completion will result in a total of no more than 2 used fuel dry storage buildings and 2 used fuel dry storage structures, and no more than 1 intermediate level radioactive waste storage building; and,
- (v) possess and use prescribed equipment and prescribed information that are required for, associated with or arise from the activities described in (i), (ii), (iii), and (iv).

V) EXPLANATORY NOTES:

- (i) Unless otherwise provided for in this licence, words and expressions used in this licence have the same meaning as in the *Nuclear Safety and Control Act* and associated Regulations.
- (ii) Darlington Waste Management Facility licence conditions handbook (LCH) provides compliance verification criteria used to meet the conditions of this licence. The LCH also provides information on delegation of authority and document version control.

VI) CONDITIONS:

G GENERAL

G.1 Licensing Basis for Licensed Activities

The licensee shall conduct the activities described in Part IV of this licence in accordance with the licensing basis, defined as:

- (i) the regulatory requirements set out in the applicable laws and regulations;
- (ii) the conditions and safety and control measures described in the facility's or activity's licence and the documents directly referenced in that licence;
- (iii) the safety and control measures described in the licence application and the documents needed to support that licence application;

Unless otherwise approved in writing by the Canadian Nuclear Safety Commission (hereinafter "the Commission").

G.2 Notification of Changes

The licensee shall give written notification of changes to the facility or its operation, including deviation from design, operating conditions, policies, programs and methods referred to in the licensing basis.

G.3 Financial Guarantee

The licensee shall maintain a financial guarantee for decommissioning that is acceptable to the Commission.

G.4 Public Information and Disclosure

The licensee shall implement and maintain a public information and disclosure program.

1 MANAGEMENT SYSTEM

1.1 Management System

The licensee shall implement and maintain a management system.

1.2 Management of Contractors

The licensee shall ensure that every contractor working at the facility complies with this licence.

2 HUMAN PERFORMANCE MANAGEMENT

2.1 Human Performance Program

The licensee shall implement and maintain a human performance program.

2.2 Training Program

The licensee shall implement and maintain a training program.

3 OPERATING PERFORMANCE

3.1 Operations Program

The licensee shall implement and maintain an operating program, which includes a set of operating limits.

3.2 Reporting Requirements

The licensee shall implement and maintain a program for reporting to the Commission or a person authorized by the Commission.

4 SAFETY ANALYSIS

4.1 Safety Analysis Program

The licensee shall implement and maintain a safety analysis program.

5 PHYSICAL DESIGN

5.1 Design Program

The licensee shall implement and maintain a design program.

5.2 Pressure Boundary

The licensee shall implement and maintain a pressure boundary program and have in place a formal agreement with an Authorized Inspection Agency.

6 FITNESS FOR SERVICE

6.1 Fitness for Service Program

The licensee shall implement and maintain a fitness for service program.

7 RADIATION PROTECTION

7.1 Radiation Protection

The licensee shall implement and maintain a radiation protection program, which includes a set of action levels. When the licensee becomes aware that an action level has been reached, the licensee shall notify the Commission within seven days.

8 CONVENTIONAL HEALTH AND SAFETY

8.1 Conventional Health and Safety Program

The licensee shall implement and maintain a conventional health and safety program.

9 ENVIRONMENTAL PROTECTION

9.1 Environmental Protection

The licensee shall implement and maintain an environmental protection program, which includes a set of action levels. When the licensee becomes aware that an action level has been reached, the licensee shall notify the Commission within seven days.

10 EMERGENCY MANAGEMENT AND FIRE PROTECTION

10.1 Emergency Preparedness Program

The licensee shall implement and maintain an emergency preparedness program.

10.2 Fire Protection Program

The licensee shall implement and maintain a fire protection program.

11 WASTE MANAGEMENT

11.1 Waste Management Program

The licensee shall implement and maintain a waste management program.

11.2 Decommissioning Plan

The licensee shall maintain a preliminary decommissioning plan.

12 SECURITY

12.1 Security Program

The licensee shall implement and maintain a security program.

12.2 Construction

The licensee shall not carry out the activities referred to in paragraph (ii) of Part IV of this licence that relates to completed construction activities in paragraph (iv) of Part IV of this licence until the submission of the proposed security arrangements and measures for the new structure, or any potential modifications to the protected area that may be associated with this new structure, that is acceptable to the Commission or a person authorized by the Commission.

13 SAFEGUARDS AND NON-PROLIFERATION

13.1 Safeguards Program

The licensee shall implement and maintain a safeguards program.

14 PACKAGING AND TRANSPORT

14.1 Packaging and Transport Program

The licensee shall implement and maintain a packaging and transport program.

15 FACILITY-SPECIFIC

15.1 Construction Plans

The licensee shall not carry out the activities referred to in paragraph (iv) of Part IV of this licence without the submission of an environmental management plan, a construction verification plan, the project design requirements and a preliminary safety analysis report and without prior written approval of the Commission or a person authorized by the Commission.

15.2 Commissioning Report

The licensee shall not carry out the activities referred to in paragraph (ii) of Part IV of this licence that relate to completed construction activities in paragraph (iv) of Part IV of this licence until the submission of a commissioning report that is acceptable to the Commission or a person authorized by the Commission.

Pierre F. Tremblay, President
On behalf of the Canadian Nuclear Safety Commission

Date