



NUCLEAR POWER REACTOR SITE PREPARATION LICENCE

OPG NEW NUCLEAR AT DARLINGTON GENERATING STATION

- I) LICENCE NUMBER:** PRSL 18.00/2031 (Effective Date: October 12, 2021)
- II) LICENSEE:** Pursuant to section 24 of the *Nuclear Safety and Control Act* this licence is issued to:
- Ontario Power Generation Inc.**
700 University Avenue
Toronto, Ontario M5G 1X6
- 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.
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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

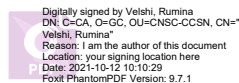
15.1 The licensee shall implement the mitigation measures proposed and commitments made during the Darlington Joint Review Panel process, including the applicable recommendations of the Darlington Joint Review Panel Report, in accordance with the Government of Canada response.

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, October 12, 2021

Velshi,
Rumina



Rumina Velshi
President
Canadian Nuclear Safety Commission
