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Canadian Nuclear Safety Commission | Commission canadienne de sûreté nucléaire

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NUCLEAR POWER REACTOR SITE PREPARATION LICENCE

OPG NEW NUCLEAR AT DARLINGTON GENERATING STATION

I) LICENCE NUMBER: **PRSL 18.00/2022** **(Effective Date: August 17, 2012)**

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 August 17, 2012 to August 17, 2022, 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 Drawing, NK054-DRAW-01210-00007, 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 NEW NUCLEAR AT DARLINGTON GENERATING STATION - SITE PREPARATION LICENCE CONDITIONS HANDBOOK (LCH)" provides compliance verification criteria in order to meet the conditions listed in this licence. The LCH also provides information regarding delegation of authority and applicable versions of documents.

VI) CONDITIONS:

1. General

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

1.2 The licensee shall conduct the activities described in Part IV of this licence in accordance with the licensing basis.

1.3 The licensee shall give written notification to the Commission, or person authorized by the Commission, of any changes made to the documents needed to support the licence application.

1.4 The licensee shall report any apparent material non-compliance to applicable law at the federal, provincial or municipal level that pertains to the activities described in Part IV of this licence to the Commission, or person authorized by the Commission.

1.5 The licensee shall provide, at no expense to the Commission, office space for employees of the Commission who customarily carry out their functions on the site premises (on-site Commission staff). The licensee shall keep the office space of on-site Commission staff separate from the remainder of the building in which it is located by walls, partitions or other suitable structures.

1.6 The licensee shall, in the event of any conflict or inconsistency between licence conditions, codes, standards or regulatory documents referenced in this licence, direct the conflict or inconsistency to the Commission, or a person authorized by the Commission, for resolution.

2. Management System

2.1 The licensee shall implement and maintain a management system in accordance with the requirements of Canadian Standards Association (CSA) standard N286: MANAGEMENT SYSTEM REQUIREMENTS FOR NUCLEAR POWER PLANTS.

3. Human Performance

3.1 The licensee shall implement and maintain safety and control measures to ensure that personnel are qualified and competent to perform assigned work.

4. Operating Performance (Conduct of the Licensed Activity)

4.1 The licensee shall implement and maintain safety and control measures for the conduct of site preparation activities.

4.2 The licensee shall implement safety and control measures for reporting to the Commission, or person authorized by the Commission, that includes reporting of all events required by the *Nuclear Safety and Control Act* and associated Regulations.

4.3 The licensee shall submit to the Commission, or person authorized by the Commission, an annual report on the licensed activities.

5. Conventional Health and Safety

5.1 The licensee shall implement and maintain safety and control measures for occupational health and safety.

6. Environmental Protection

6.1 The licensee shall implement and maintain safety and control measures for environmental protection in accordance with the requirements of CNSC regulatory standard S-296: ENVIRONMENTAL PROTECTION, POLICIES, PROGRAMS AND PROCEDURES AT CLASS I NUCLEAR FACILITIES AND URANIUM MINES AND MILLS.

7. Emergency Management and Fire Protection

7.1 The licensee shall implement and maintain safety and control measures for emergency preparedness and fire protection.

8. Waste Management

8.1 The licensee shall implement and maintain safety and control measures for waste management.

8.2 The licensee shall maintain a preliminary decommissioning plan for site preparation in accordance with the requirements of Canadian Standards Association (CSA) standard N294: DECOMMISSIONING OF FACILITIES CONTAINING NUCLEAR SUBSTANCES. The preliminary decommissioning plan shall be revised every five years or when required by the Commission, or person authorized by the Commission.

9. Security

9.1 The licensee shall implement and maintain safety and control measures for site security.

10. Site Specific

10.1 The licensee shall implement the mitigation measures proposed and commitments made during the Darlington Joint Review Panel process.

10.2 The licensee shall implement the applicable recommendations of the Darlington Joint Review Panel Report in accordance with the Government of Canada response.

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

10.4 The licensee shall maintain a financial guarantee that is acceptable to the Commission which shall remain valid and in effect to adequately fund the preliminary decommissioning plan referenced in condition 8.2 of this licence.

10.5 The licensee shall implement and maintain a public information program in accordance with the requirements of CNSC regulatory document RD/GD-99.3: PUBLIC INFORMATION AND DISCLOSURE.

10.6 The licensee shall submit to the Commission, or person authorized by the Commission, the proposed quality assurance program for the design of the nuclear facility upon the selection of a reactor technology.

SIGNED at OTTAWA on August 17, 2012

Alan R. Graham
Chair, Joint Review Panel
Canadian Nuclear Safety Commission