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WASTE FACILITY DECOMMISSIONING LICENCE

GENTILLY-1 WASTE FACILITY

I) LICENCE NUMBER: WFDL-W4-331.00/2034

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

**Canadian Nuclear Laboratories Limited
Laboratoires nucléaires canadiens limitée**
**286 Plant Road
Chalk River, Ontario
K0J 1J0**

III) LICENCE PERIOD: This licence is valid from the date signed and remains in effect until **December 31, 2034**, unless otherwise suspended, amended, revoked, or replaced.

IV) LICENSED ACTIVITIES:

This licence authorizes the licensee to:

- a) decommission the Gentilly-1 Waste Facility, as further described and located on the sites defined in the Licence Conditions Handbook associated with WFDL-W4-331.00/2034.
- b) possess, transfer, use, process, package, manage, and store nuclear substances that are required for, associated with or arise from the activities described in a);
- c) possess and use prescribed equipment and prescribed information that are required for, associated with or arise from the activities described in a) and b)

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 WFDL-W4-331.00/2034 Licence Conditions Handbook (LCH) identifies the criteria that will be used by Canadian Nuclear Safety Commission (CNSC) staff to assess the licensee's compliance with the conditions listed in the licence. The LCH also provides information regarding delegation of authority and applicable version control of documents.

VI) CONDITIONS:

1 GENERAL

- 1.1 The licensee shall conduct the activities described in Part IV of this licence in accordance with the licensing basis.
- 1.2 The licensee shall, in the event of any conflict or inconsistency between licence conditions, codes or 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.
- 1.3 The licensee shall implement and maintain decommissioning policies, programs and procedures.
- 1.4 The licensee shall not make modifications to, or deviate from the design, operating conditions, purposes, methods, procedures or limits described in the safety analysis reports and/or operational limits and conditions documents that would result in an impact on health, safety or the environment that is different in nature or greater in magnitude or probability than that described in those documents without prior approval of the Commission or a person authorized by the Commission.
- 1.5 The licensee shall ensure that every contractor working at the facility complies with this licence.
- 1.6 The licensee shall implement and maintain a public information program and disclosure program.

2 DECOMMISSIONING

- 2.1 The licensee shall submit a Detailed Decommissioning Plan for acceptance by the Commission or a person authorized by the Commission prior to the commencement of dismantlement activities described in paragraph a) of Part IV of this licence.
- 2.2 The licensee shall provide a financial guarantee that remains valid, in effect and adequate to fund the future decommissioning of the facility as described in condition 13.2 of this licence that shall be reviewed and updated every 5 years, or when requested by the Commission or a person authorized by the Commission.

3 MANAGEMENT SYSTEM

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

4 HUMAN PERFORMANCE MANAGEMENT

- 4.1 The licensee shall implement and maintain a human performance program.
- 4.2 The licensee shall implement and maintain a training program.

5 OPERATING PERFORMANCE

- 5.1 The licensee shall implement and maintain a process for reporting to the Commission or a person authorized by the Commission that includes reporting of all events required by the *Nuclear Safety and Control Act* and its Regulations.

6 SAFETY ANALYSIS

- 6.1 The licensee shall maintain a safety report for the facility.

7 PHYSICAL DESIGN

- 7.1 The licensee shall not make any change to the design or equipment that would result in impact on health, safety, or the environment that is different in nature or greater in magnitude than those considered by the safety report, without the prior written approval of the Commission or a person authorized by the Commission.

8 FITNESS FOR SERVICE

- 8.1 The licensee shall implement and maintain an aging management plan for the maintenance of systems, components and structures for the facility.

9 RADIATION PROTECTION

- 9.1 The licensee shall implement and maintain a radiation protection program.
- 9.2 The licensee shall provide the Commission or a person authorized by the Commission with notification within 7 calendar days of determining that an action level has been reached or exceeded and within 60 days submit a summary written report.

10 CONVENTIONAL HEALTH AND SAFETY

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

11 ENVIRONMENTAL PROTECTION

- 11.1 The licensee shall implement and maintain an environmental protection program.

12 EMERGENCY MANAGEMENT AND FIRE PROTECTION

- 12.1 The licensee shall implement and maintain an emergency preparedness and response program.
- 12.2 The licensee shall implement and maintain a fire protection program.

13 WASTE MANAGEMENT

- 13.1 The licensee shall implement and maintain a waste management program.
- 13.2 The licensee shall maintain a preliminary decommissioning plan and cost estimate.

14 SECURITY

- 14.1 The licensee shall implement and maintain a security program.
- 14.2 The licensee shall not carry out the activities referred to in paragraph a) of Part IV of this licence that result in the modifications to the protected area until a submission of the proposed security arrangements and measures has been accepted by the Commission or a person authorized by the Commission.

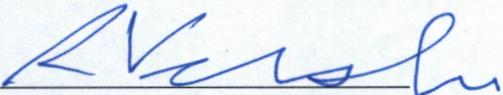
15 SAFEGUARDS AND NON-PROLIFERATION

- 15.1 The licensee shall implement and maintain a safeguards program and undertake all measures required to ensure safeguards implementation.

16 PACKAGING AND TRANSPORT

- 16.1 The licensee shall implement and maintain a packaging and transportation program.

SIGNED at OTTAWA, this 8 day of Feb, 2019



Rumina Velshi, President
On behalf of the Canadian Nuclear Safety Commission