



Notes:

1) The Licence Conditions Handbook was introduced for this amendment.

e-Doc 4782981 (Word)

e-Doc 4898022 (PDF)

## NUCLEAR RESEARCH AND TEST ESTABLISHMENT DECOMMISSIONING LICENCE

### WHITESHELL LABORATORIES

- I) LICENCE NUMBER:**            **NRTEDL-W5-8.04/2018**
- II) LICENSEE:**                    Pursuant to section 24 of the *Nuclear Safety and Control Act*, this licence is issued to
- Canadian Nuclear Laboratories Limited**  
**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, 2018, unless otherwise suspended, amended, revoked or replaced.
- IV) LICENSED ACTIVITIES:**
- This licence authorizes the licensee to:
- a) operate and decommission the Whiteshell Laboratories (hereinafter “WL”) located in Pinawa, Province of Manitoba as further described in the *Whiteshell Laboratories Licence Conditions Handbook (LCH)* and,
  - b) produce, possess, process, refine, transfer, use, package, manage, import, export and store the nuclear substances that are required for, associated with or arise from the activities described in a),
  - c) possess, use, produce and transfer prescribed equipment that is required for, associated with, or arises from the activities described in a),
  - d) possess, use and transfer prescribed information that is required for, associated with, or arises from the activities described in a),
  - e) carry out the site preparation, construction or construction modification or undertaking that is required for, associated with or arise from the activities described in a).

**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 Whiteshell Laboratories Licence Conditions Handbook (LCH) provides compliance verification criteria used to meet the conditions of 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 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").

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 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.

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

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

- 1.6 The licensee shall comply with all commitments defined in the NRTEDL-W5-8.04/2018 LCH.
- 1.7 The licensee shall implement and maintain a public information and disclosure program.
- 1.8 The licensee shall implement and report on the progress of the Environmental Assessment Follow-Up Program.

## **2 DECOMMISSIONING**

- 2.1 The licensee shall conduct decommissioning activities in accordance with Volumes 1 to 12 of the Whiteshell Laboratories Detailed Decommissioning Plan.
- 2.2 The licensee shall implement and maintain decommissioning policies, programs and procedures.
- 2.3 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.
- 2.4 The licensee shall submit the project design requirements for construction of the approved second SMAG storage building prior to the commencement of construction activities described in paragraph e) of Part IV of this licence.
- 2.5 The licensee shall not carry out the activities referred to in paragraph a) of Part IV of this licence that relate to the completed construction activities in paragraph e) of Part IV of this licence for the approved second SMAG storage building until the submission of a commissioning report that is acceptable to the Commission.

## **3 SAFETY AND CONTROL AREA LICENCE CONDITIONS**

### **MANAGEMENT SYSTEM**

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

### **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.

### **OPERATING PERFORMANCE**

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

## **SAFETY ANALYSIS**

- 6.1 The licensee shall implement and maintain a safety analysis program.
- 6.2 The licensee shall implement and maintain a nuclear criticality safety program.

## **PHYSICAL DESIGN**

- 7.1 The licensee shall implement and maintain a design program.
- 7.2 The licensee shall implement and maintain a pressure boundary program.

## **FITNESS FOR SERVICE**

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

## **RADIATION PROTECTION**

- 9.1 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.

## **CONVENTIONAL HEALTH AND SAFETY**

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

## **ENVIRONMENTAL PROTECTION**

- 11.1 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.

## **EMERGENCY MANAGEMENT AND FIRE PROTECTION**

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

## **WASTE MANAGEMENT**

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

## **SECURITY**

- 14.1 The licensee shall implement and maintain a security program.

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**SAFEGUARDS AND NON-PROLIFERATION**

15.1 The licensee shall implement and maintain a safeguards program.

**PACKAGING AND TRANSPORT**

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

SIGNED at OTTAWA, this 26 day of January, 2016.



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Michael Binder, President  
on behalf of the Canadian Nuclear Safety Commission