

2018 Annual Compliance Report for Nuclear Power Demonstration Waste Facility (NPDWF)

EXECUTIVE SUMMARY

This Annual Compliance Monitoring Report for the calendar year 2018 has been prepared as per Licence Condition 5.1 of the Prototype Waste Facilities Decommissioning Licence, WFDL W4 342.00/2034 [1].

This annual report describes the present status of the Nuclear Power Demonstration Waste Facility (NPDWF) and the notable activities conducted within this facility for the 2018 calendar year reporting period. It includes the results of operations, the results of the monitoring programs, any changes made to key procedures, equipment, or structures, as well as a summary of any reports made pursuant to Sections 29 and 30 of the General Nuclear Safety and Control Regulations.

Since this report is summarizing the 2018 monitoring period and a revised Licence Conditions Handbook for the Nuclear Power Demonstration Waste Facility (NPDWF) was not received until late April, this report is prepared to meet the guidelines in Section 5.1 of the previous Licence Conditions Handbook [2].

The following provides overall performance highlights for 2018 activities:

Developing an alternate strategy for managing liquid effluents from the NPDWF sumps.

Planning activities to support future decommissioning such as site geological characterization.

Responding to information requests from the federal and provincial review team on the Environmental Impact Statement and Licencing amendment submissions. This included both revision of existing and creation of new technical supporting documents.

Hosted and participated in several public and Indigenous group engagement events.

There were no radiation incidents that occurred, which resulted in exceeding the action level or regulatory limits at NPDWF. All doses for individual workers during 2018 were low.

The majority of ambient radiation fields and liquid emissions remained stable at NPDWF in 2018. There were no abrupt changes in nature or magnitude of radiation or liquid releases during 2018 and all environmental releases were a small fraction of their respective Derived Release Limits (DRLs).

Events or conditions reported pursuant to Sections 29 and 30 of the General Nuclear Safety and Control Regulations were minor Storage with Surveillance (SWS) issues.

Canadian Nuclear Laboratories (CNL) is committed to achieving high standards of operational safety. The information and data presented in this report support the conclusion that safe performance is being achieved at the NPDWF, while enhancements are also being implemented to improve results.