

## 2018 Annual Compliance Report for Douglas Point and Gently-1 Waste Facilities

### EXECUTIVE SUMMARY

This Annual Compliance Monitoring Report for the calendar year 2018 has been prepared as per Licence Condition 5.1 of the Waste Facility Decommissioning Licences for Douglas Point Waste Facility (DPWF) and Gently-1 Waste Facility (G-1WF), WFDL-W4-332.02/2034 [1-1], and WFDL-W4-331.00/2034 [1-2].

This annual report describes the present status of the DPWF and G-1WF and the notable activities conducted within these facilities 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.

This report is in the form prescribed by the guidelines in Section 5.1 of the Licence Conditions Handbook (LCH) [1-3] and is divided into two major sections, one for the DPWF, and one for the G-1WF.

The following provides overall performance highlights for 2018 activities, which are described throughout the report:

- Corrective actions from the Life Management Plan (LMP) were completed for both facilities.
- Corrective actions from the DPWF Fire Hazard Analysis (FHA) were completed. Corrective actions from the G-1WF FHA continue to be addressed.
- Corrective actions from the DPWF spent fuel canister area security system inspection continue to be addressed.
- As part of extensive housekeeping, Health, Safety, Security and Environment (HSSE) and fire load reduction initiatives, a significant amount of radiological and non-radiological waste was removed from both facilities.
- A number of minor modifications were completed at each facility as part of maintenance and HSSE activities.
- A number of planning activities to support future decommissioning were completed at each facility. Additionally, the Plate/Machine Shop, Tool Crib Building and the Emergency Coolant Injection System (ECIS) Tank were decommissioned and demolished at DPWF.
- There were no radiation incidents that occurred, which resulted in exceeding the action level or regulatory limits for these facilities. The maximum individual worker dose during 2018 was 0.43 mSv (accrued by a contractor) at DPWF and 0.62 mSv (accrued by a contractor) at G-1WF.
- The majority of ambient environmental radiation fields and emissions remained stable in both facilities in 2018. There were no abrupt changes in the nature or magnitude of releases during 2018, and all environmental releases were a small fraction of their respective Derived Release Limits (DRLs).
- Events or conditions, reported pursuant to Licence Condition 5.1 of the licences [1-1] and [1-2], were minor and were related to Storage with Surveillance (SWS) activities.

**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 Douglas Point and Gently-1 Prototype Waste Facilities. The report also details the enhancements that were implemented to maintain and further improve operational safety.**

## References

[1-1] *Waste Facility Decommissioning Licence for Douglas Point Waste Facility*, WFDL-W4-332.02/2034, 2019 February 08.

[1-2] *Waste Facility Decommissioning Licence for Gentilly-1 Waste Facility*, WFDL-W4-331.00/2034, 2019 February 08.

[1-3] *Licence Conditions Handbook for Prototype Waste Facilities (DP, Gentilly 1 & NPD)*, 3640-508760-HBK-001, Revision 0, 2014 August 14.