

2016 Annual Compliance Report for Prototype Waste Facilities (Douglas Point, Gentilly-1 & Nuclear Power Demonstration)

EXECUTIVE SUMMARY

This Annual Compliance Report for the calendar year 2016 has been prepared as per Licence Condition 5.1 of the Prototype Waste Facilities Decommissioning Licence (WFDL), WFDL-W4-332.01/2034 [1].

This annual report describes the present status of the Prototype Waste Facilities and the notable activities conducted within these facilities for the 2016 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.

The Douglas Point Waste Facility (DPWF), Gentilly-1 Waste Facility (G1WF), and Nuclear Power Demonstration Waste Facility (NPDWF) are licensed under [1], which was issued on 2014 October 22 and expires on 2034 December 31.

This report is in the form prescribed by the guidelines in Section 5.1 of the *Licence Conditions Handbook* [2] and is divided into three major sections, one for each Prototype Reactor site.

The following provides overall performance highlights for 2016 activities:

- Corrective actions from the Life Management Plan (LMP) continued to be addressed for all facilities.
- Corrective actions from the Fire Hazard Analysis (FHA) were addressed for all facilities.
- 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 multiple sites.
- A number of minor modifications were completed at each facility in order to address maintenance and HSSE issues.
- A number of planning activities to support future decommissioning were completed at each site (e.g. facility characterization).
- There were no radiation incidents that occurred which resulted in exceeding the action level or regulatory limits for the Prototype Waste Facilities. All doses for any individual workers during 2016 were negligible.
- The majority of ambient fields and emissions remained stable at all three facilities in 2016.
- There were no abrupt changes in the nature or magnitude of releases during 2016 and all environmental releases were a small fraction of their respective Derived Release Limits (DRLs).

- Events or conditions reported pursuant to Licence Condition 1.2 of the WFDL [1] were minor Storage with Surveillance (SWS) issues.

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 Prototype Waste Facilities, while enhancements are also being implemented to improve results.