



Record of Acceptance

In the Matter of

Licensee: Ontario Power Generation Inc.

Subject: Request for Acceptance of the Retube Waste Storage Building
Commissioning Reports

Date: November 21, 2017

Introduction

1. OPG has submitted a request for acceptance of commissioning reports for the Darlington Waste Management Facility Retube Waste Storage Building (RWSB) [1] along with the information to support the request.
2. As required by the Waste Facility Operating Licence for the Darlington Waste Management Facility (DWMF) WFOL-W4-355.01/2023, OPG must submit commissioning reports for CNSC acceptance prior to beginning operations of completed construction activities. Specifically, licence condition 15.2 states:

“The licensee shall not carry out the activities described in the licence that relate to completed construction activities until the submission of a commissioning report that is acceptable to the Commission or a person authorized by the Commission.”
3. This acceptance was delegated to a person authorized by the Commission, which is defined in the licence condition handbook as the Senior Project Officer overseeing the licensing and compliance activities for the DWMF, the Director of the Wastes and Decommissioning Division (WDD), the Director General of the Directorate of Nuclear Cycle and Facilities Regulation (DG DNCFR) or the Executive Vice-President and Chief Regulatory Operations Officer of the CNSC.
4. The RWSB is subject to this requirement. OPG’s commissioning reports cover firewater, architectural systems, mechanical systems for stormwater drainage and passive ventilation systems, overhead crane, mechanical systems non active drainage, electrical services and instrumentation and control systems.

Issue

5. In considering the request, the Director WDD, as delegated by the Commission, must determine the acceptability of the commissioning report(s) prior to authorizing OPG to begin operations, pursuant to licence condition 15.2.

Decision

6. Based on the consideration of the matter as described in more detail in the following sections, and CNSC staff’s information and recommendations as outlined in the reference memorandum [2], the Director WDD, as delegated by the Commission, concludes that OPG’s commissioning reports are acceptable, such that OPG may proceed with the operation of the Retube Waste Storage Building at the Darlington Waste Management Facility. Therefore,

The Director WDD, as delegated by the Commission, accepts the Commissioning Reports for the Darlington Waste Management Facility Retube Waste Storage Building.

Issues and Findings

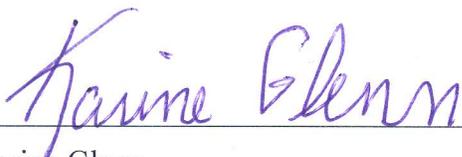
7. CNSC staff confirm that the results of the commissioning reports for the DWMF RWSB indicate that the installation meets the functional, performance and safety requirements of the DWMF RWSB Modification Design Requirements [3], design objectives, applicable CSA standards requirements, commissioning test results and compliance verification criteria, where available.
8. CNSC staff found that the information submitted to CNSC is adequate for the acceptance of the commissioning reports.
9. CNSC staff reviewed the commissioning report for RWSB Firewater and found that the results of the commissioning report for the RWSB firewater indicate that the installation meets the functional, performance and safety requirements.
10. CNSC staff reviewed the architectural systems commissioning report for DWMF RWSB, which included the commissioning and tests of personnel doors, roll-up doors, roof hatch, roof fall arrest anchors, and guardrail and rainwater leaders. CNSC staff found that the report indicated that the test results meet the design requirements of the architectural system.
11. CNSC staff reviewed the commissioning report for mechanical systems for the DWMF RWSB Stormwater Drainage and Passive Ventilation Systems and found that the results indicate that the installation meets the functional, performance and safety requirements of the DWMF RWSB Modification Design Requirements.
12. CNSC staff reviewed the commissioning report for DWMF RWSB overhead crane and concluded that the installation meets the functional, performance, safety, and other requirements specified in the DWMF RWSB Modification Design Requirements, and the overhead crane meets CSA Standard B167 and ASME B30.2.
13. CNSC staff reviewed the commissioning report for RWSB mechanical systems non-active drainage and concluded that the installation meets the functional, performance, safety, and other requirements specified in the DWMF RWSB Modification Design Requirements.
14. CNSC staff reviewed the commissioning report for RWSB electrical services and found that the commissioning tests were complete and passed.
15. CNSC staff reviewed the commissioning report for RWSB instrumentation and control systems found that the the commissioning tests on fire detection system, PA system, telephone system, LAN cabling, and BMS were complete and passed.

Conclusion

The Director WDD, as delegated by the Commission, in Paragraph 222 of the Commission's Record of Proceedings for the renewal of the licence for the DWMF [4] has considered OPG's commissioning reports, and accepts the commissioning reports for the Darlington Waste Management Facility Retube Waste Storage Building.

References

- [1] Commissioning Report for Darlington Waste Management Facility's Retube Waste Storage Building Firewater, e-Doc 5324213
- [2] Memorandum to Director WDD on OPGs Request for Acceptance of the Commissioning Reports for the Darlington Waste Management Facility Retube Waste Storage Building, e-Doc 5393630
- [3] Ontario Power Generation, Modification Design Requirements for Retube Waste Storage Building, e-Doc 5359130
- [4] Commission Record of Proceedings Application for the Renewal of the Licence for the Darlington Waste Management Facility (December 2012), e-Doc 4105484



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Canadian Nuclear Safety Commission



Date