



Portland General Electric Company

*Trojan ISFSI
71760 Columbia River Hwy
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VPN-003-2017

Trojan ISFSI
Docket 72-17
License SNM-2509

ATTN: Document Control Desk
Director, Division of Spent Fuel Management
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

PGE-1080-2017, Biennial Report of the Trojan Independent
Spent Fuel Storage Installation for 2015 Through 2016

The enclosure to this letter provides one copy of Portland General Electric (PGE) Company's Biennial Report of the Trojan Independent Spent Fuel Storage Installation (ISFSI) for the calendar years 2015 through 2016. This report is submitted in accordance with the requirements of 10 CFR 72.48(d)(2), and Trojan ISFSI Technical Specification 5.5.1.d.

If you have any questions regarding this correspondence, please contact Mr. Mark Tursa of my staff at (503) 556-7030.

Sincerely, *Brad Jenkins*

Bradley Y. Jenkins
Vice President, Power Supply Generation

Enclosure

c: Director, NRC Region IV, DNMS
Todd Cornett, ODOE

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NMSS 26

BIENNIAL REPORT OF THE
TROJAN INDEPENDENT SPENT FUEL STORAGE INSTALLATION
FOR 2015 THROUGH 2016

Docket 72-17
License SNM-2509

PORTLAND GENERAL ELECTRIC COMPANY
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TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	1
SUMMARY OF OPERATING EXPERIENCE.....	1
1. Technical Specifications Bases Control Program Report.....	2
2. Changes, Tests, and Experiments	3

INTRODUCTION

The 2017 Biennial Report for the Trojan Independent Spent Fuel Storage Installation (ISFSI) is submitted in accordance with the requirements of 10 CFR 72.48(d)(2), and ISFSI Technical Specification 5.5.1.d.

SUMMARY OF OPERATING EXPERIENCE IN 2015 THROUGH 2016

During years 2015 and 2016, spent nuclear fuel remained in the 34 storage casks at the Trojan ISFSI. There were no license amendments issued during this reporting period.

1. **TECHNICAL SPECIFICATIONS BASES CONTROL PROGRAM REPORT**

Requirement

Trojan ISFSI License SNM-2509, Technical Specification 5.5.1.d, requires, in part:

"Changes to the Bases implemented without prior NRC approval shall be provided to the NRC on a frequency consistent with 10 CFR 72.48"

Report

There were no changes made to the Technical Specifications Bases during the reporting period.

2. **CHANGES, TESTS, AND EXPERIMENTS**

Requirement

Federal Regulation 10 CFR 72.48(d)(2) requires:

"The licensee and certificate holder shall submit, as specified in §72.4, a report containing a brief description of any changes, tests, and experiments, including a summary of the evaluation of each. A report shall be submitted at intervals not to exceed 24 months"

Report

One 10 CFR 72.48 safety evaluation was performed during the reporting period.

Evaluation Number 2015-001 - This activity implements the Holtec re-evaluation of the hypothetical overturning event and Transfer Station drop event of a Trojan multi-purpose canister (MPC). The re-evaluation considers a new bounding condition of a partially-loaded MPC under the circumstance when the acceptance criterion is the g-load resulting from the deceleration experienced during the hypothetical event. The re-evaluation shows that no limits are exceeded or approached.

The Holtec evaluation of the overturning and drop of a bounding (i.e., lightest) partially-loaded MPC is incorporated into the Trojan ISFSI SAR.

A third drop scenario is also identified. It is the drop of a loaded Transport Cask. While not analyzed in the Trojan ISFSI SAR, Section 8.2.13.4 states that an evaluation of consequences of a drop (of the Transport Cask) or handling accident shall be performed prior to initiating the handling/lifting activities at the Transfer Station. This implementing activity includes adding clarifying information that the Transport Cask analysis shall include the bounding (i.e., lightest) partially loaded MPC.

In addition, this implementing activity includes the related and conforming changes being made to two Trojan ISFSI Procedures (TIPs). TIP 10, The Transfer Cask and Concrete Cask Handling and Storage Program, is being revised to ensure all bounding drop evaluations are completed prior to loading a Trojan MPC into a Transport Cask. Similarly, TIP 30, Pad and Transfer Station Operations, is being changed to ensure the Transport Cask drop evaluation includes the bounding (i.e., lightest), partially loaded Trojan MPC.

Holtec Information Bulletin, HIB-62, Partial Loading of MPC's, Rev. 0 notes that under certain drop analyses that use a g-load as the acceptance criterion, the calculated g-loading will go up if the weight goes down. For Trojan, the bounding (i.e., lightest) MPC was identified as an MPC with only 20 of 24 cells filled with spent fuel assemblies.

Holtec re-evaluated the Hypothetical Concrete Cask Overturning Event and the MPC drop at the Transfer Station. The overturning event re-evaluation showed that the g-load would increase by only 1.6% from 38g to approximately 38.6g. This is still well below the 60g limit. The re-evaluation of the MPC drop at the Transfer Station showed that there would be essentially no change in g-loading, remaining at 54g. This is also still well below the 60g limit. Thus, no design basis limits are exceeded, and there is no adverse effect on the health and safety of the public.

The Trojan ISFSI Safety Analysis Report is updated to incorporate the re-evaluation of the partially loaded hypothetical MPC overturning and drop events. Conforming changes to associated implementing procedures are also made. The answers to the 10CFR72.48 questions confirm that implementation of this change does not require prior NRC approval.