



GPU Nuclear Inc.  
Three Mile Island  
Nuclear Station  
Route 441 South  
Post Office Box 480  
Middletown, PA 17057-0480  
Tel 717-948-8641

April 23, 2020

TMI-20-014

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555-0001

THREE MILE ISLAND NUCLEAR STATION, UNIT 2 (TMI-2)  
POSSESSION ONLY LICENSE NO. DPR-73  
DOCKET NO. 50-320

SUBJECT: BIENNIAL 10 CFR 50.59 AND PDMS SAR REPORT

Attached is the biennial report for Three Mile Island Nuclear Station, Unit 2 (TMI-2) for years 2018 and 2019. This report is being submitted in accordance with TMI-2 Technical Specification 6.8.1.4 and the requirements of 10 CFR 50.59.

Please contact Robert Brady of TMI-1 Regulatory Assurance at (717) 948-8776 if you have any questions regarding this submittal.

Respectfully,

A handwritten signature in black ink, appearing to read 'Gregory H. Halnon', written in a cursive style.

Gregory H. Halnon  
President/CNO  
GPU Nuclear

Attachment

cc: USNRC TMI-2 Region I Inspector  
USNRC TMI-2 Project Manager  
USNRC Regional Administrator, Region 1

## TMI-2 PDMS ACTIVITIES DURING 2018 AND 2019

TMI-2 remained in a safe and stable condition during calendar years 2018 and 2019. Activities included rad waste processing, routine surveillances, and equipment repair.

## PDMS SAFETY ANALYSIS REPORT CHANGES

The PDMS SAR was updated (Update 13) and submitted to the NRC in GPU Nuclear letter, TMI-19-085, dated August 23, 2019. PDMS SAR Update 13 revised the PDMS SAR to reflect the current plant configuration, administrative processes, and editorial changes.

## PROCEDURE CHANGES

The typical categories of procedures that were changed in 2018 and 2019 were administrative, ventilation, electrical distribution, rad waste processing, fire protection, and Technical Specification surveillance. All procedure changes at TMI-2 are made using the Exelon 10 CFR 50.59 Review Process, which provides a screening process to determine if the change requires a written evaluation. During 2018 and 2019 there were no procedure changes which required a written evaluation.

## TESTS AND EXPERIMENTS

No tests or experiments not described in the PDMS SAR, where an SSC is utilized or controlled in a manner that is outside the reference bounds of the design for the SSC or is inconsistent with analyses or descriptions in the PDMS SAR were performed at TMI-2 during 2018 and 2019.

## FACILITY MODIFICATION

During 2018 and 2019 there were no facility modifications that impacted the TMI-2 PDMS SAR. Therefore, no 10 CFR 50.59 evaluations were performed related facility modifications. Due to the non-operating and defueled status of TMI-2 during PDMS, there are no structures, systems, or components that are required to meet the safety-related criteria. Therefore, there are no structures, systems, or components classified as safety-related at TMI-2 during PDMS. All facility modifications are made using the Exelon 10 CFR 50.59 Review Process, which provides a screening process to determine if the change requires a written evaluation. This review and screening process is based on, and incorporates in its entirety, the implementation guidance provided in NEI 96-07, Revision 1.