

April 30, 2015

TMI-15-052

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

THREE MILE ISLAND NUCLEAR STATION UNIT 1 AND UNIT 2
RENEWED OPERATING LICENSE NO. DPR-50 AND POSSESSION ONLY
LICENSE NO. DPR 73
DOCKET NOS. 50-289 AND 50-320

SUBJECT: COMBINED 2014 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

The 2014 Annual Radioactive Effluent Release Reports required by TMI-1 Technical Specification 6.9.4.1, TMI-2 Technical Specifications 6.8.1.2, and 6.12, and the Off-Site Dose Calculation Manual Part 4, Section 2.1, is enclosed.

Attachment 1 contains a summary of the quantities of radioactive liquid and gaseous effluents released from the site as outlined in Reg. Guide 1.21, Rev. 1, with data summarized on a quarterly basis following the format of Appendix B thereof.

Attachment 2 contains information for each type of solid waste shipped offsite during the report period including the container volume, total curie quantity (specified as determined by measurement or estimate), principal radionuclides (specified as determined by measurement or estimate) and type of waste.

Attachment 3 includes a summary of unplanned releases from the site to unrestricted areas of radioactive materials in gaseous and liquid effluents made during the reporting period.

Attachment 4 describes any changes made during 2014 to the Process Control Program (PCP) documents or to the Offsite Dose Calculation Manual (ODCM) and a listing of new locations for dose calculations and/or environmental monitoring identified by the land use census pursuant to Part 3, Section 8.2, of the ODCM.

Attachment 5 reports all instrumentation not returned to operable status within 30 days per the TMI ODCM Part 1, Sections 2.1.1.b and 2.1.2.b, and Part 2, Section 2.1.2.b.

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Attachment 6 is quarterly summaries of hourly meteorological data collected for 2014 in the form of joint frequency distribution of wind speed, wind direction and atmospheric stability.

Attachment 7 is an assessment of the radiation doses due to the radioactive liquid and gaseous effluents released from the respective unit during 2014.

Attachment 8 is an assessment of the radiation doses from the radioactive liquid and gaseous effluents to members of the public due to their activities inside the site boundary during 2014.

Attachment 9 is an assessment of the radiation doses to the most likely exposed real individual from reactor releases and other nearby uranium fuel cycle sources including doses from primary effluent pathways and direct radiation for 2014.

Attachment 10 is a summation of deviations from the sampling and analysis regime specified in the ODCM for TMI-1 and TMI-2.

Pursuant to Technical Specifications Amendment 284, issued 12/30/14, which deleted TS 6.17 and created FSAR Section 11.2.6 to report Major Changes to Radioactive Waste Treatment Systems in the Annual Radioactive Effluent Release Report, this report is included as Attachment 11.

Enclosure 1 is a copy of the "TMI Offsite Dose Calculation Manual (ODCM)", CY-TM-170-300, Revision 3, which was issued on May 23, 2012, and current as of December 31, 2014. There were no revisions made to the ODCM during 2014.

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Enclosure 2 is a copy of the change for TMI's Process Control Program, RW-AA-100 Revision 10, which was issued on April 16, 2014.

Please contact Laura Weber at 717-948-8947 if you have any questions concerning this report.

Sincerely,

A handwritten signature in black ink, appearing to read 'Thomas P. Haaf', with a long horizontal stroke extending to the right.

Thomas P. Haaf
Plant Manager

TPH/LKW/dam

Attachments/Enclosures

cc: Region 1 Administrator
TMI Senior Resident Inspector
TMI-1 Senior Project Manager
TMI-2 Project Manager
GPU Nuclear Cognizant Officer
Department of Environmental Protection, Bureau of Radiation Protection