AmerGen
A PECO Energy/British Energy Company

AmerGen Energy Company, LLC
Three Mile Island Unit 1
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Phone: 717-944-7621

April 11, 2000

5928-00-20128

U. S. Nuclear Regulatory Commission
Washington, DC 20555

Attn: Document Control Desk

Dear Sir or Madam:

SUBJECT: THREE MILE ISLAND NUCLEAR STATION UNIT 1 AND UNIT 2
OPERATING LICENSE NO. DPR-50 AND POSSESSION ONLY LICENSE NO. DPR 73
DOCKET NOS. 50-289 AND 50-320
COMBINED 1999 ANNUAL RADIOACTIVE EFFLUENT RELEASES REPORT

The Annual Radioactive Effluent Releases Report 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 and solid waste 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), type of waste, type of shipment and solidification agent(s).

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 1999 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.

Attachment 6 is an annual summary of hourly meteorological data collected for 1999 in the form of joint frequency distribution of wind speed, wind direction and atmospheric stability.

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Attachment 7 is an assessment of the radiation doses due to the radioactive liquid and gaseous effluents released from the respective unit during 1999.

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 1999.

Attachment 9 is an assessment of the radiation doses to the likely most exposed real individual from reactor releases and other nearby uranium fuel cycle sources including doses from primary effluent pathways and direct radiation for 1999. This assessment shows conformance with 40 CFR 190 "Environmental Radiation Protection Standards for Nuclear Power Operation."

Attachment 10 is a summation of deviations from the sampling and analysis regime specified in the ODCM for TMI-1 and TMI-2. There were no deviations from the sampling and analysis regime specified in the ODCM for TMI-1 or TMI-2 during 1999.

Enclosure 1 is a copy of the TMI Offsite Dose Calculation Manual (ODCM), revision 19, which was current as of 12/31/99. There were two revisions made to the ODCM during 1999. Revision 18 was issued on February 9, 1999, and revision 19 was issued on March 23, 1999.

Enclosure 2 is a copy of the procedure change request and associated safety evaluation that modified the ODCM from revision 17 to revision 18.

Enclosure 3 is a copy of the procedure change request and associated safety evaluation that modified the ODCM from revision 18 to revision 19.

Please contact Adam Miller of TMI-1 Regulatory Engineering at 717-948-8128 if you have any questions concerning this report.

Sincerely,

John B. Cotton

John B. Cotton
Vice President TMI Unit 1

JBC/awm

Attachments/Enclosures

cc: Region 1 Administrator
TMI Senior Resident Inspector
TMI-1 Senior Project Manager
TMI-2 Project Manager
GPU Nuclear Cognizant Officer