

PDR-016



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

NOV 28 1984

Mr. Jim Detjen
Ms. Susan Fitzgerald
The Philadelphia Inquirer
400 N Broad Street
Box 8263
Philadelphia, PA 19101

IN RESPONSE REFER
TO FOIA-84-780

Dear Mr. Detjen and Ms. Fitzgerald:

This is in partial response to your letter dated September 26, 1984, in which you requested, pursuant to the Freedom of Information Act (FOIA), all documents relating to radiation exposure to workers at Unit 1 of Three Mile Island from 1979 to present, including (1) inspection reports, (2) correspondence between GPU or GPU Nuclear or Metropolitan Edison Co. officials and the Nuclear Regulatory Commission (NRC), (3) licensee radiological investigative reports, (4) licensee radiological deficiency reports, and (5) contamination incidents, along with documents relating to the repair of steam generators at Unit 1 and the exposure of workers to radiation in the repair process.

As agreed in your telephone conversations with Linda Robinson and Nina Toms, we have enclosed Appendix A which lists documents responsive to your request. As you will see from the list, most of the referenced documents have previously been made available for public inspection and copying at the Local Public Document Room (LPDR), which is located at the State Library of Pennsylvania, Forum Building, Commonwealth and Walnut, Harrisburg, Pennsylvania 17109, and at the Public Document Room (PDR), 1717 H Street, NW, Washington, DC 20555.

As you are aware, access to these documents may be obtained by visiting the LPDR or PDR and referencing the inspection report numbers or the accession numbers listed by each document on the enclosed appendix. Should you wish to obtain copies of the documents on the appendix which are not in the LPDR or PDR, please contact Nina L. Toms of my office and arrangements will be made to have those documents made available for you.

The staff is continuing to search for documents related to your request. You will be notified at the completion of this search.

Sincerely,

J.M. Felton, Director
Division of Rules and Records
Office of Administration

Enclosure: As stated

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APPENDIX A

1. NUREG-0680, TMI Restart Unit 1
2. NUREG-0119, Supp. No. 1 - Safety Evaluation by the Office of Nuclear Reactor Regulation Facility Operating License No. DPR-50 - GPU Nuclear Corporation, et al, Three Mile Island Nuclear Station, Unit 1 (TMI-1) Steam Generator Tube Repair and Return to Operation
3. NUREG-0090, Report to Congress on Abnormal Occurrences
4. NUREG-0713, Occupational Radiation Exposure at Commercial Nuclear Power Reactors 1980, Volumes 1-4
5. NUREG-0119, TMI-1 SG SER
6. Annual 10 CFR Part 20.407 reports
7. Reg. Guide, 1.16 reports

PDR Documents

1. 11/26/80 - Letter from Grier to Metropolitan Edison (Acc. No. 8012220338)
2. 12/16/80 - Letter to Region I from Metropolitan Edison (Acc. No. 8103130547)
3. 12/30/80 - Letter to Region I from Metropolitan Edison (Acc. No. 8103130552)
4. 2/2/81 - Letter to Region I from Metropolitan Edison (Acc. No. 8103130557)
5. 2/27/81 - Letter to Region I from Metropolitan Edison (Acc. No. 8103130563)
6. 8/20/82 - H. Hukill to D. Eisenhut (Acc. No. 8208310177)
7. 9/2/82 - Letter to G. Lainas from R. Houston, subject: SER Input for Proposed S.G. Repair Work at TMI-1 (Acc. No. 8210050458)
8. 10/7/82 - Letter to G. Lainas from R. Houston, subject: EIA Input for SG Work (Acc. No. 8211010514)
9. 11/24/82 - R. Clark to D. Eisenhut (Acc. No. 8211290367)
10. 12/10/82 - R. Clark to D. Eisenhut (Acc. No. 8212140180)
11. 1/25/83 - Letter to D. Vassallo from F. Congel, subject: Q's on Return to Service of TMI-1 SG's (Acc. No. 8302020052)
12. 3/9/83 - H. Hukill to D. Eisenhut (Acc. No. 8303150265)

13. 3/29/83 - Topical Report 008, Rev. 2 (Acc. No. 8308110371)
14. 5/10/83 - Letter to G. Lainas from D. Muller, subject: SFR Input for Return to Service TMI-1 SG's (Acc. No. 8305200689)
15. 6/1/83 - Letter to G. Lainas from D. Muller, subject: EIA Input for Return to Service at TMI-1 SG's (Acc. No. 8306090351)
16. 6/29/83 - Letter to G. Lainas from D. Muller, subject: EIA for TMI-1 SG Tube Repair Project (Acc. No. 8307140101)
17. 10/13/83 - Letter to G. Lainas from D. Muller, subject: SSER for Return to Service of TMI-1 SG's
18. 3/1/84 - Letter to R.C. Haynes from H.D. Hukill, subject: personnel monitoring report for TMI-1 (Acc. No. 8208270019)
19. 3/1/84 - Letter to T.E. Murley from H.D. Hukill, subject: personnel monitoring report for TMI-1 (Acc. No. 8403210138)

Documents Not In PDR

1. Undated - Summary of Plants Responding to Generic Letter No. 82-22 Received to Date
2. 2/26/82 - Number of Personnel and Man Rems by Work and Job Function
3. 8/25/82 - Handwritten phone log
4. 10/7/82 - Memorandum for Gus C. Lainas from R. Wayne Houston, subject: Environmental Impact Appraisal Input for Three Mile Island Unit 1 (TMI-1) Once-Through Steam Generator (OTSG) Tube Repair Project
5. 1983 - Personnel, Dose and Power Generation Summary, Appendix A
6. 1983 - Annual WholeBody Doses at Licensed Nuclear Power Facilities, Appendix B
7. 1983 - Number of Personnel and Man-Rem by Work and Job Function, Appendix C
8. 2/28/83 - Letter to R.C. Haynes from H.D. Hukill, subject: Annual Report
9. 2/28/83 - Letter to R.C. Haynes from H.D. Hukill subject: Annual Report
10. 4/5/83 - Handwritten Notes of Meeting with GPU re, TMI-1
11. 5/10/83 - Memorandum for Gus C. Lainas from Daniel Muller, subject: Safety Evaluation Report Input for Return to Service of TMI-1 Steam Generators

12. 8/19/83 - Assessment of TMI-1 Plant Safety for Return to Service After Steam Generator Repair Topical Report, 008, Rev. 3
13. 10/13/83 - Memorandum for Gus C. Lainas from Daniel R. Muller, Supplement to Safety Evaluation Report Input for Return to Service of TMI-1 Steam Generators
14. 3/1/84 - Letter to T.E. Murely from H.D. Hukill, subject: Annual Report

TMI-1 50-289 1979 INSPECTION REPORTS

- 79-01 Routine unannounced inspection.
- 79-02 Routine unannounced Material Control and Accounting Inspection.
- 79-03 Routine radiation protection
 refueling including instruments
 equipment, exposure control, posting
 labeling, control of radioactive
 materials and radiation areas
 radiation safety procedures.
- 79-04 Combined routine inspection corporate management meeting for Unit 1.
- 79-05 Routine licensee's inservice Inspection Program.
- 79-06 Routine, preparation for refueling,
 refueling activities, outage -
 related maintenance and surveillance
 pipe supports and restraints and plant
 operations.
- 79-07 Routine physical protection inspection.
- 79-08 Routine inspection of previous inspection findings.
- 79-09 This contains results of effluent samples.
- 79-10 An investigation of activities and documentation related to ISI.
- 79-11 Routine inspection of plant operations in cold shutdown conditions.
- 79-12 Special inspection to review licensee's physical Security Program.
- 79-13 Special inspection of fire prevention/protection program.
- 79-14 Routine inspection of licensee's auditing activities.
- 79-15 Special inspection of licensee examination program of stagnant piping
 systems.
- 79-16 Routine of previously identified items and the Quality Assurance
 Program.
- 79-17 Follow-up inspection of fire prevention/protection program.
- 79-18 Special inspection by IE Resident Office staff and shift inspectors.
- 79-19 Review of Security Plan.

1979 Inspection Reports

- 79-20 Special inspection by NRC TMI Recovery Operations Inspection staff.
- 79-21 Special inspection by NRC TMI Site staff.
- 79-22 Routine inspection of licensee's activities associated with repairing Borated Water Storage Tank roof.
- 79-23 Special inspection of environmental monitoring programs.
- 79-24 Special inspection by NRC TMI Technical Support staff.
- 79-175 Unannounced investigation of four allegations concerning welder qualifications.

TMI-1 50-289 1980 INSPECTION REPORTS

- 80-01 Special inspection of licensee action on previous inspection findings.
- 80-02 Special inspection - licensee action on previous inspection findings.
- 80-03 Unannounced investigation of allegations of lax security.
- 80-04 Routine.
- 80-05 Special - Quality Assurance Program.
- 80-06 Routine unannounced.
- 80-07 Routine unannounced - allegation concerning possible mismarking of ASTM: A312 Grade 304 welded stainless steel pipe.
- 80-08 Special inspection of new and revised procedures submitted for NRC approval/H.P. and Env. Areas; high airborne activity event; spent resin tank overflow event; and licensee action on IE Bulletin 79-19.
- 80-09 Routine unannounced.
- 80-10 Route inspection.
- 80-11 Special inspection - QAP.
- 80-12 Physical barriers (protected area); physical barriers (vital area); access control.
- 80-13 Routine announced - licensee response to IE Bulletin 79-02, High pressure injection cross-connect modification (Task RM-14).
- 80-14 Special unannounced inspection - Radiological.
- 80-15 Routine announced of preoperational and startup test report program.
- 80-16 Routine announced - QAP.
- 80-17 Routine announced - Restart Program.
- 80-18 Special corporate management meeting to discuss Office of Inspection and Enforcement licensee management reviews/appraisals which will augment routine NRC Inspection Program.
- 80-19 Special announced - NTOL.
- 80-20 Routine unannounced inspection.

1980 Inspection Reports

- 80-21 Special - Management Controls/Appraisal Report.
- 80-22 Health Physics Evaluation.
- 80-23 Investigation Report/concerns identified in sworn depositions.
- 80-24 Review of Security Plan; Security Program Audit.
- 80-25 Routine announced/response to IE Bulletin 80-11, Masonry Walls.
- 80-26 Routine announced/Task LM-9, relocation of pressurizer transmitters above flood level; Task RM-13A, Emergency Feedwater Controls.
- 80-27 Unannounced of maintenance activities related to concerns expressed in pre-hearing proceedings of ASLB.
- 80-28 Routine unannounced inspection of installations associated with modifications to plant Fire Protection Program under Task NM-40.
- 80-29 Routine.
- 80-30 Routine inspection.
- 80-31 Routine announced - Reactor Trip on Turbine Trip/Loss of Feedwater (RM-3B) and Reactor Trip Isolation (RM-5C).
- 80-32 Combined Special Corporate Management Meeting - Corrective Actions Identified in Health Physics Evaluation - 50-289/80-22.

TMI-1 50-289 1981 INSPECTION REPORTS

- 81-01 Routine inspection of licensee action on previous findings, plant operations.
- 81-02 Routine inspection of work activities and records associated with Unit 1 Restart Program.
- 81-03 Routine inspection of work activities and records associated with Unit 1 Restart Program.
- 81-04 Routine inspection of work activities, schedules and records associated with Restart Program Unit 1.
- 81-05 Routine inspection of work activities and records associated with Restart Program Unit 1.
- 81-06 Routine inspection limited to examination of radiation survey discrepancies of radioactive materials.
- 81-07 Special inspection Unit 1 radiation protection and radwaste programs and those elements of Unit 2 radiological controls and radwaste program which provide direct support to Unit 1.
- 81-08 Routine inspection of licensee action on previous inspection findings; plant operations during long-term shutdown.
- 81-09 Routine inspection of environmental monitoring programs at TMINS.
- 81-10 Routine inspection of documentation and records associated with Unit 1 Restart.
- 81-11 Routine inspection of licensee action on previous inspection findings; plant operations during long-term shutdown.
- 81-12 Special announced inspection to follow-up 30 significant emergency preparedness items from prior evaluation.
- 81-13 Review of Security Plan, Security Program Audit.
- 81-14 Routine inspection of work activities, documentation, and records associated with the Unit 1 Restart Program.
- 81-15 Routine announced emergency preparedness inspection of a licensee emergency exercise.
- 81-16 Special announced management meeting to discuss results of NRC board convened to evaluate licensee's performance from 4/1/80 to 3/31/81 (SALP).

1981 Inspection Reports

- 81-17 Routine inspection of licensee action on previous inspection findings, administrative controls for facility procedures; procedure compliance with NRC Order dated 8/9/79.
- 81-18 Routine inspection of Reactor Building Integrated Leak Rate Testing.
- 81-19 Routine safety inspection of long-term shutdown.
- 81-20 Verification of onsite emergency preparedness.
- 81-21 Routine inspection of licensee action on previous inspection findings; administrative controls for safety-related calibrations.
- 81-22 Special safety inspection.
- 81-23 Review of performance characteristics of licensee's protected area perimeter alarm system.
- 81-24 Routine safety inspection.
- 81-25 Announced review of licensee's activity in response to IE Bulletins 79-02, 79-14 and 80-11.
- 81-26 Routine safety inspection.
- 81-27 Routine inspection of licensee action on previous inspection findings; administrative controls for safety-related maintenance.
- 81-28 Routine safety inspection of licensee action on previous inspection findings; plant operations during long-term shutdown including facility and record review.
- 81-29 Special unannounced inspection to verify TMI status on previously identified open items in the radiological control programs including IECs and IEBs.
- 81-30 Routine inspection of transportation activities and package maintenance including management controls.
- 81-31 Review of Physical Security Plan and Implementing Procedures.
- 81-32 Routine safety inspection.
- 81-33 Routine inspection of licensee's training programs.
- 81-34 Routine safety inspection of radioactive waste systems.

TMI-1 50-289 1982 INSPECTION REPORTS

82-01 Routine safety inspection.
82-02 Routine safety inspection.
82-03 Routine safety inspection.
82-04 Review of Physical Security Plan and Implementing Procedures.
82-05 Routine announced safety inspection - Radiological.
82-06 Routine safety inspection.
82-07 Routine.
82-08 Radiological Controls Programs.
82-09 Routine.
82-10 Routine - steam generator repairs.
82-11 Routine - QA.
82-12 Routine announced - Emergency Preparedness Exercise.
82-13 Special safety inspection.
82-14 Routine.
82-15 Routine unannounced - Task RM-9, ECM S-028.
82-13 Special safety inspection.
82-14 Routine/Steam Generator Repairs, TMI restart modifications.
82-15 Routine unannounced/Task RM-9, ECM S-028, PORV.
82-16 Routine.
82-17 Routine unannounced of actions taken to resolve deficiencies in NUREG-0752.
82-18 Routine unannounced.
82-19 Routine unannounced.
82-20 Routine.

1982 Inspection Reports

- 82-21 Routine/Steam Generator Repairs Sep. of Radwaste System and TMI restart modifications.
- 82-22 Special safety inspection - DTSGs Rad Protection.
- 82-23 Fire inspection.
- 82-24 Routine safety inspection.
- 82-25 Special announced inspection.
- 82-26 Routine unannounced - steam generator tube kinetic expansion performance.
- 82-27 Routine unannounced - Physical Protection Inspection/Security Plan and Implementing Procedures.
- 82-28 Routine safety.

TMI-1 50-289 1983 INSPECTION REPORTS

- 83-01 Routine - no noncompliance.
- 83-02 Routine unannounced.
- 83-03 Safeguards/Physical Protection Inspection - no noncompliance.
- 83-04 Routine - no noncompliance.
- 83-05 Routine safety/steam generator repairs and restart modifications.
- 83-06 Routine - no noncompliance - program to repair steam generators.
- 83-07 Routine - no noncompliance.
- 83-08 Routine - no noncompliance.
- 83-09 Routine - noncompliance - failure to reset feeder breakers.
- 83-10 Special announced/violation noted: drafts containing safeguards information left unattended on desk in unlocked security storage container.
- 83-11 Routine safety - no noncompliance.
- 83-12 Routine unannounced.
- 83-13 Special announced/no noncompliance - emergency preparedness.
- 83-14 Routine safety - no noncompliance - steam generator repairs: restart modifications.
- 83-15 Routine safety - no noncompliance.
- 83-16 Routine announced - no noncompliance re supporting QA documentation.
- 83-17 Routine unannounced/noncompliance - failure to have approved controlled procedure for operation of environmental air samplers and failure to have calibration program for environmental water samplers.
- 83-18 Routine - Fire Protection - noncompliance.
- 83-19 Routine/noncompliance re emergency feedwater system improvements.
- 83-20 Special unannounced inspection of reactor coolant leak rate test procedures - noncompliance.

1983 Inspection Reports

- 83-21 Special unannounced/no noncompliance - review responsibilities and functions of General Office Review Board and selected independent review groups.
- 83-22 Routine safety - no noncompliance.
- 83-23 Routine unannounced/noncompliance - failure to follow procedure for pipe support anchor.
- 83-24 Routine - no noncompliance - allegation re welds in TMI-2 main condenser and TMI-1 spent fuel pool liner.
- 83-25 Routine - noncompliance noted in areas of procedure review, containment integrity, emergency procedures and implementation of temporary test procedure.
- 83-26 Routine - noncompliance noted in areas of implementing radiological control.
- 83-27 Routine - noncompliance - failure to notify radiological control group of receipt of radium - beryllium source brought onsite on 830805.
- 83-28 Routine unannounced/noncompliance noted - failure to analyze for gamma emitting isotopes to analyze for P-32, to meet required low level doses and to implement QC program in lab sample analyses areas.
- 83-29 Routine/no violations - licensed operator requalification.
- 83-30 Routine - no noncompliance - plant operations.
- 83-31 Special announced - Public Prompt Notification System - no noncompliance.
- 83-32 Routine - no violations - actions of previous inspections.
- 83-33 Enforcement Conference Report - no noncompliance noted.
- 83-34 Routine unannounced - no violations.
- 83-35 Routine announced emergency preparedness inspection - no violations.

TMI-1 50-289 1984 INSPECTION REPORTS

- 84-01 Routine/no violations - Restart Start-up Test Procedures and Restart Preoperational Testing.
- 84-02 Routine safety/violations - failure to perform safety review of LER.
- 84-03 Special announced safety inspection - deficiencies identified re provision for post-accident sampling.
- 84-04 Safeguards/no violations - major areas inspected: Security.
- 84-05 Operational Readiness Evaluation.
- 84-06 Routine/violation - failure to document engineering justification for "use-as-is" disposition of nonconforming items in area of fire protection/prevention.
- 84-07 Routine safety/no violations - overall control and maintenance of shutdown plant were good.
- 84-08 Routine/no violations - licensee action on previous findings.
- 84-09 Examination Report - O/L.
- 84-10 Routine/no violations - reactor building integrated leak rate testing.
- 84-11 Routine safety/violation - failure to properly implement written modification instructions re vent cap installation.
- 84-12 Routine/no violations - QA/annual review of program changes.
- 84-13 Routine/no violations - snubber surveillance, testing and maintenance procedures and snubber installations and testing equipment.
- 84-14 Routine/no violations - licensee action on previous inspection findings.
- 84-15 Routine/no violations - plant operations.
- 84-16 Special announced - radiological/noncompliance noted.
- 84-17 Routine/no violations - plant operations/OTSG tube repair, inadvertent partial ESAS actuation.
- 84-18 Routine/no violations - restart startup test program.
- 84-19

1984 Inspection Reports

- 84-20 Routine/no violations - licensee action on previous inspection findings.
- 84-21 Routine/no violations - previous inspection findings, restart.
- 84-22 Routine/no violations - site welding program, steam generator mechanical rolled plug evaluation.
- 84-23 Routine/no violations - Leak Rate Reduction Program.
- 84-24 Routine/violation - plant operations, OTSG, tube repair, malfunction analysis.
- 84-25 Examination Report - O/L.
- 84-26
- 84-27 Routine/no violations on previous NRC findings and design change activities.
- 84-28 Routine/no violations - NRC audit of EFW system components, qualification data packages, EQB, review of EFW.