

U. S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT
REGION I

IE Inspection Report No: 50-289/75-08 and 50-320/75-04

Unit 1: 50-289
Docket No: Unit 2: 50-320
Unit 1: DPR-5
License No: Unit 2: CPPR-6

Licensee: Metropolitan Edison Company (Met-Ed)

Priority: -

P. O. Box 542

Unit 1: C

Reading, Pennsylvania 19603

Category: Unit 2: B.1

Safeguards
Group: _____

Location: Three Mile Island Nuclear Station - Units 1 and 2
(TMI) Middletown, Pennsylvania 17057

Type of Licensee: B&W 871 Mwe (PWR)

Type of Inspection: Routine - Announced (Emergency Planning)

Date of Inspection: April 9, 1975

Dates of Previous Inspection: March 24-26, 1975

Reporting Inspector: Charles O. Gallina
C. O. Gallina, Ph.D., Radiation Specialist

5-12-75
DATE

Accompanying Inspectors: None

DATE

DATE

DATE

Other Accompanying Personnel: None

DATE

Reviewed By: J. P. Stohr
J. P. Stohr, Chief, Environmental Protection and
Special Programs Section

5/21/75
DATE

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SUMMARY OF FINDINGS

Enforcement Action (Emergency Planning)

A. Items of Noncompliance

1. Violations

None

2. Infractions

- a. Contrary to Health Physics Procedure 1670.12, "Emergency Equipment Readiness Check", emergency equipment was not checked and inventoried from April through November of 1974.
(Details, Paragraph 4)

3. Deficiencies

None

B. Deviations

None

Licensee Action on Previously Identified Enforcement Items (Emergency Planning)

None Identified

Design Changes

None

Unusual Occurrences

None

Other Significant Findings

A. Current Findings

1. Acceptable Areas

Inspection of the following areas did not identify any enforcement items.

Emergency Control Center
Emergency Communications Systems

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Means for Monitoring Release of Radioactivity
Medical Arrangements
Training
Implementation Procedures (Unit No. 1)
Agreements and Coordination with Offsite Agencies
Tests and Drills

2. Unresolved Items

No unresolved items were identified during this inspection.

B. Status of Previously Reported Unresolved Items (Emergency Planning)

None Identified

Management Interview

A management interview was conducted at the Three Mile Island Nuclear Station on April 9, 1975 following the conclusion of the inspection and subsequent to the conduct of an emergency training exercise. The following individuals were in attendance:

Dr. C. O. Gallina, Radiation Specialist, USNRC - IE:I
Mr. J. G. Herbein, Station Superintendent, Met-Ed
Mr. J. J. Colitz, Plant Superintendent, TMI-Unit 1, Met-Ed
Dr. T. A. Jencks, Radiation Safety and Environmental Engineering, Met-Ed
Mr. J. E. Romanski, Supervisor, Radiation Protection and Chemistry, Met-Ed
Mr. S. W. Porter, Jr., Consultant-Emergency Planning, Porter-Gertz Consultants

During this meeting the following items were discussed:

A. Scope

The inspector reviewed the overall scope of the inspection, namely, the licensee's emergency preparedness program for TMI Units No. 1 and 2. Inspector stated further that items specific to emergency planning at Unit No. 2 would be reviewed as they became available. (Details, Paragraphs 2 and 3)

B. Review of Item of Noncompliance

The inspector reviewed the Item of Noncompliance identified during the course of this inspection with the licensee. This item is identified under enforcement action in the Summary of Findings in this report. (Details, Paragraph 4)

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C. Emergency Training Exercise

The inspector reviewed the details of the emergency training exercise conducted at the TMI site during the course of the inspection. (Details, Paragraph 5)

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DETAILS

1. Personnel Contacted

- Mr. J. G. Herbein, Station Superintendent, Met-Ed
- Mr. J. J. Colitz, Plant Superintendent, TMI-Unit 1, Met-Ed
- *Dr. T. A. Jencks, Radiation Safety and Environmental Engineering, Met-Ed
- Mr. J. E. Romanski, Supervisor, Radiation Protection and Chemistry, Met-Ed
- *Mr. R. Zechman, Administrator, Nuclear and Technical Training, Met-Ed
- *Mr. J. L. Seelinger, Supervisor of Training, Met-Ed
- Mr. K. E. Beale, Radiation Protection Foreman, Met-Ed
- *Mr. D. Dubeil, Engineer - Radiation Protection, Met-Ed
- Mr. T. Muleavy, Health Physicist, Met-Ed
- *Mr. M. R. Buring, Engineer-Radiation Protection, Met-Ed
- *Mr. R. Neidig, QC Assistant, Met-Ed
- *Mr. M. Johnson, QC Assistant, Met-Ed
- *Mr. E. Gee, QC Assistant, Met-Ed
- *Mr. B. Heysek, QC Assistant, Met-Ed
- *Mr. S. W. Porter, Jr., Consultant-Emergency Planning, Porter-Gertz Consultant
- *Mr. D. Beaver, Office of Radiological Health, Commonwealth of Pa.
- *Mr. J. Kopenhauer, Office of Radiological Health, Commonwealth of Pa.
- *Mr. R. Gerstell, State Director of Civil Defense, Commonwealth of Pa.
- *Mr. K. Malloy, Director of Civil Defense, Dauphin County, Commonwealth of Pa.
- *Mr. J. Brabets, Civil Defense, Dauphin County, Commonwealth of Pa.
- *Mr. P. Leese, Director of Civil Defense, Lancaster County, Commonwealth of Pa.
- *Mr. F. Fisher, Director of Civil Defense, York County, Commonwealth of Pa.

2. General

This inspection was a review of the Emergency Preparedness Program instituted by the licensee for the TMI site, including both the licensee's Emergency Plan and associated implementation procedures. The Emergency Plan is set forth as Appendix 12A in the subject facilities FSAR. The Emergency Implementation Procedures are set forth in a document prepared by Metropolitan Edison Company entitled "Three Mile Island Emergency Plans and Procedures." This latter document is divided into two volumes, the first volume relating to Radiological Emergencies and the second volume relating to Non-Radiological Emergencies. Additional areas examined during this inspection included agreements and coordination with offsite agencies, facilities and equipment, means of monitoring the release of radio-

*Observers during the emergency training exercise.

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activity, medical arrangements, and training. Within these areas the inspection consisted of a selective examination of procedures, and related documentation, interviews with plant personnel and observations by the inspector. As part of this inspection effort an emergency training exercise was observed on April 9, 1975.

RO Inspection Report No. 50-289/74-10 documented three areas relative to Emergency Planning which were not totally completed upon completion of that inspection. These areas related to the meteorology readout in the control room, communications inter connection to the vital bus, and letter of agreement from the physician utilized under emergency conditions. The inspector reviewed these areas during the course of this inspection and found that the three areas noted were resolved as per licensee commitment in the aforementioned inspection report.

3. Overall Emergency Implementation Procedures

The inspector reviewed all changes to emergency implementation procedures enacted subsequent to the last inspection in the area of emergency planning. With respect to the changes and/or additions reviewed, no problem areas were identified. The licensee stated that the overall emergency preparedness program for the TMI site was currently being reviewed in detail in order to effectively coordinate emergency response actions for the separate facilities. The licensee stated that although the emergency control station would be common for both units, some implementation procedures were unit specific requiring that new procedures be written for TMI Unit 2. The inspector noted that the majority of these new procedures related to the non-radiological area (e.g., flood procedures, etc.) and that no major difficulty was foreseen in this area. The licensee stated that the majority of emergency implementation procedures were equally applicable to both units.

4. Emergency Equipment Inventories

The inspector examined various emergency kits in order to verify that all required equipment was present. As a result of this inspection, it was noted that minor items of emergency equipment were not in the emergency kit, such as flashlights, pads, etc. In reviewing the documentation for these inventories the inspector noted that although missing equipment was noted, corrective actions were not indicated. In attempting to review earlier inventory documentation, the inspector noted that documentation was not readily available prior to January 1975. The licensee stated that these records could be provided but that inventories had not been initiated prior to November 1974. The inspector stated that failure on the part of the licensee to conduct these inventories constituted an Item of

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Noncompliance due to the fact that Health Physics Procedure 1670.12 "Emergency Equipment Readiness Check" requires that these inventories be performed quarterly.

The licensee stated that emergency equipment inventory sheets would be upgraded immediately with provisions included to ensure that (a) equipment was inventoried quarterly as required, (b) contained instrumentation would be checked for calibration and (c) that corrective actions taken would be clearly indicated on the aforementioned inventory sheets.

5. Emergency Training Exercise

The inspector observed an emergency training exercise conducted at the TMI site on April 9, 1975. The training exercise was initiated at approximately 1700 hours with the simulation of a loss of coolant and accident occurring during a containment purge operation. The simulated accident was further complicated by the inability to close the containment purge valve. The inspector noted that the emergency training exercise involved all segments of the licensee's emergency response capability. Control room emergency operating procedures were evaluated by licensee personnel, offsite monitoring teams were dispatched, offsite communications were tested, onsite radiation teams were utilized, as well as the inplant emergency repair parties. The inspector noted that during the course of the exercise, when a critical line of communication became inoperative (real condition), the licensee was able to implement an alternate method of communication in a very short time period.

In addition to the inspector, the emergency training exercise was observed by various licensee personnel as well as those from offsite agencies utilized by the licensee to help in the implementation of the emergency plan. A critique session was held subsequent to the completion of the drill and the inspector noted that no problems areas were identified other than minor, easily correctable, logistical items.

6. Letters of Agreement

The inspector noted that all letters of agreement required by the licensee from offsite agencies utilized in conjunction with its emergency plan were available at the time of the inspection. The licensee stated however that a review was underway in order to determine if further letters would be required. The licensee

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stated that at present letters of agreement were in existence between the Commonwealth of Pennsylvania and the Civil Defense Organization for the County within which the facility is located. The licensee stated further that an inquiry was being undertaken to determine if other letters should be acquired from those County Civil Defense Organizations adjacent to the facility. The licensee stated that due to the fact that the Civil Defense Agencies operated in close conjunction with the Commonwealth of Pennsylvania, there was a possibility that letters would not be required from a County Civil Defense Organization if the State letter was in effect. The licensee stated that further information would be forwarded to the Regional Office as it became available. The inspector noted that in either case, the licensee had met all requirements with respect to the needed letters of agreement.

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