

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

Region I

Report No. 50-289/81-15
Docket No. 50-289
License No. DPR-50 Priority -- Category C
Licensee: Metropolitan Edison Company
P.O. Box 480
Middletown, Pennsylvania 17057

Facility Name: Three Mile Island Nuclear Station, Unit 1

Inspection at: Middletown, Pennsylvania

Inspection conducted: June 1-3, 1981

Inspectors: Dale C. Donaldson 6/11/81
D. Donaldson, Radiation Specialist, RI date signed

_____ date signed

_____ date signed

Approved by: Dale C. Donaldson 6/11/81
for R. Bores, Ph.D., Acting Chief, Emergency date signed
Preparedness Section

Inspection Summary:

Inspection on June 1-3, 1981 (Report Number 50-289/81-15)

Areas Inspected: Routine, announced emergency preparedness inspection of a licensee emergency exercise. The inspection involved 320 inspection-hours by a special team of 10 individuals from NRC Region I and NRC Headquarters.

Results: Within the areas inspected, no items of noncompliance were identified.

DETAILS

1. Individuals Contacted

a. Licensee Personnel

R. Arnold, Senior Vice President
R. Rogan, Emergency Preparedness Manager
H. Hukill, Vice President and Director, TMI-1
R. Toole, Manager, TMI-1
J. Herbein, Vice President, Nuclear Operations
W. Potts, Manager, Radiological Controls, TMI-1
G. Hovey, Director, TMI-2
J. Brasher, Manager, Radiological Controls, TMI-2
G. Giang, Supervisor, Emergency Preparedness
L. Ritow, Engineer

b. Non-licensee Personnel

J. Motz, INPO
R. Moody, INPO

2. Emergency Exercise

a. Pre-exercise Activities

Prior to the conduct of the licensee's emergency exercise, the auditors met with licensee representatives to review the nature and scope of the exercise scenario and the extent of the actions expected to be implemented in response to the conditions of the scenario.

The licensee's exercise scenario had been developed in coordination with the various participating offsite agencies. Specifically, the scenario involved a primary to secondary system leak of the steam generators which was complicated by a series of other events which ultimately resulted in degradation of the Unit 1 core. The scenario was complicated further by the inclusion of a simulated injury with contamination, requiring offsite assistance of the local rescue unit and medical treatment facility, simulated contamination of site evacuees and a simulated fire requiring offsite assistance.

Based on the findings in the above area, this portion of the licensee's exercise program appeared to be acceptable.

b. Exercise Observation

During the conduct of the licensee's exercise, 10 NRC auditors made detailed observations of the following activities:

- (1) Operations staff actions concerning detection, classification and operational assessment of the accident;
- (2) Notification of licensee personnel and offsite agencies;
- (3) Radiological (dose) assessment and protective action decision-making;
- (4) Assembly and accountability;
- (5) Security;
- (6) Onsite, offsite and in-plant radiological surveys;
- (7) First Aid/Rescue;
- (8) NRC response organization interface;
- (9) In-plant radiation protection;
- (10) Technical support;
- (11) Public Information;
- (12) Repair/corrective actions; and
- (13) Direction and coordination of the response

The inspectors noted that the licensee's organizational response was in accordance with established procedures and that available facilities and equipment were used consistent with the procedures.

Based on the findings and observations in the above area, the inspectors determined that the licensee's response met the objectives set forth in the Emergency Plan and in the NRC's current requirements and guidance.

c. Exercise Critique

The auditors attended two post-exercise critiques, held on June 3, 1981, during which licensee observers discussed the exercise results. During the critique, the auditors noted that the licensee observer presentations highlighted areas for improvement and that observer and participant comments would be evaluated for appropriate corrective action.

The NRC auditors compared their findings with those of the licensee observers and determined that neither the licensee nor NRC observers had identified any major items which exhibited a potential for a degraded response. Discussions during the critique indicated that licensee personnel possessed an understanding of the improvement items and their causes sufficient to permit timely, effective resolution.

Based on the findings in the above area, the auditors determined that the licensee's existing exercise audit and critique provisions had been acceptably implemented.

3 Exit Meeting and NRC Critique

Following the licensee's self-critique, the auditors met with the licensee representatives denoted in paragraph 1. The Team Leader summarized the purpose and scope of the inspection and the inspection findings. In particular, the Team Leader informed licensee management that the NRC auditors' findings relative to the exercise were consistent with the findings relative to the licensee observers.

Licensee management acknowledged the findings and indicated that evaluation and resolution of all drill identified improvement items would begin immediately.