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

Region I

Report No. 50-289/80-31

Docket No. 50-289

License No. DPR-50 Priority -- Category C

Licensee: Metropolitan Edison Company

P. O. Box 542

Reading, Pennsylvania

Facility Name: Three Mile Island, Unit 1

Inspection at: Middletown, Pennsylvania

Inspection conducted: December 16-19, 1980

Inspectors: A D Sassani Jr. 1-16-81
A. D. Sassani, Jr., Reactor Inspector date signed

date signed

date signed

Approved by: A E Ebneter 1-16-81
S. Ebneter, Chief, Engineering Support Section #2, RC&ES Branch date signed

Inspection Summary:

Inspection on December 16-19, 1980 (Report No. 50-289/80-31)
Areas Inspected: Routine, announced inspection by a regional-based inspector of work activities and records associated with the Unit 1 Restart Program, including: Reactor Trip on Turbine Trip/Loss of Feedwater (RM-3B) and Reactor Trip Isolation (RM-5C). The inspection involved 28 inspection hours on site by one NRC regional-based inspector.
Results: No item of noncompliance was identified.

Region I Form 12
(Rev. April 77)

DETAILS

1. Persons Contacted

GPUNC

T. Hawkins, Supervisor, Unit 1, Start-Up and Testing

Metropolitan Edison

*B. Ballard, QA Modification/Operations Manager
*E. Shaffer, Technical Analyst
G. Troffer, Manager, Unit 1 Re-Start
*L. Zubey, Construction Manager

Catalytic

W. Acker, Department Superintendent, Unit 1 Re-Start
D. Graham, Electrical Superintendent, Unit 1
J. Kimmel, Electrical Supervisor, Unit 1
P. McKeever, Electrical Foreman, Start-Up

*Denotes those present at the exit interview.

2. Reactor Trip on Turbine Trip and/or Loss of Main Feedwater (Task-3B)

The requirements for this task are detailed in TMI-1 Restart Report, Section 2.1.1.1. The modifications will be accomplished so the Reactor Trip System is safety grade and meets the requirements of IEEE-279.

a. The inspector examined the following documents and compared them with the requirements identified in the TMI-1 Restart Report.

-- Engineering Change Memorandum Procedure, EMP-008.

-- QA Modification/Operations Section - Inspection Program Procedure, TMI-10-MO-002.

-- Station Administrative Procedure 1043 (Unit 1), Engineering Change Modifications.

-- Operational QA Plan, Revision 8.

-- Engineering Change Memorandum Package, S068, Revisions 2, 3 and 4.

-- Feedwater Pump Turbines 1A and 1B Hydraulic Console Piping Instrument Diagram, GAI-B-308-605, IA-0.

-- Purchase Order Nos. 65056 and 86166.

-- Purchase Requisition Nos. 86056, 86165 and 86167.

-- Main Turbine Piping Instrument Diagram, GAI B-308-606, IA-0.

No items of noncompliance were identified.

b. The inspector examined completed work on instruments, cables, conduit, and instrument tubing to determine whether the requirements of applicable procedures, drawings, instructions and Engineering Change Memorandums have been met in areas relating to installation, procurement and component type.

Areas inspected for this determination include:

-- Pressure Switch Nos. PS-915A, PS-916A, PS-917A and PS-918A and instrument tubing located on feedwater turbine hydraulic console 1A, elevation 322 feet.

-- Pressure Switch Nos. PS-945B, PS-946B, PS-947B and PS-948B and instrument tubing located on feedwater turbine hydraulic console, 1B, elevation 322 feet.

-- Pressure switches, cables, and conduit located on the main turbine front standard.

No items of noncompliance were identified.

3. Reactor Trip Isolation (Task RM-5C)

The requirements for this task are detailed in TMI-1 Restart Report, Section 2.1.1.5. The system is designed as safety grade and shall meet the requirements of IEEE-279.

a. The inspector examined the following documents and compared them with the requirements identified in the TMI-1 Restart Report.

-- Engineering Change Memorandum Package, S070, Revisions 0 and 1.

-- Plant Inspection Report Nos. E1-202 and E1-213.

-- ESAS Cabinet 4A Wiring Diagram, GAI, C-210-801, IC-1.

-- Purchase Order No. 86997.

No items of noncompliance were identified.

b. The inspector examined completed work on electrical components to determine whether the requirements of applicable procedures, drawings, instructions and Engineering Change Memorandums have been met in areas relating to installation, procurement and component types.

The inspector examined the installation of relay nos. 38 and 39, and terminal strip TB4 in the ESAS Cabinet 4A, located in the Actuation Relay Room, elevation 338 feet.

No items of noncompliance were identified.

4. Exit Interview

The inspector met with the licensee representatives (denoted in paragraph 1) at the conclusion of the inspection on December 19, 1980. The inspector summarized the purpose and scope of the inspection and the findings. The licensee acknowledged the findings.