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

Region I

Report No. 50-289/81-02

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: January 5-9, 1981

Inspectors: A D Sassani Jr. 1-20-81
A. D. Sassani, Jr., Reactor Inspector date signed

date signed

date signed

Approved by: Blaslum for 1-20-81
S. D. Ebneter, Chief, Engineering Support Section #2, RC&ES Branch date signed

Inspection Summary:

Inspection on January 5-9, 1981 (Report No. 50-289/81-02)

Areas Inspected: Routine, unannounced inspection by regional-based inspector of work activities and records associated with the Unit 1 Restart Program, including: electrical and instrumentation documents, records, and engineering design data associated with high pressure safety injection cross connections (modification RM-14). The inspection involved 35 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

General Public Utilities Service Corporation (GPUSC)

B. Ballard, QA Modification/Operations Manager
**S. Deshukh, Engineering Electrical
*J. Fornicola, Operations QA Supervisor
J. Fritzen, Engineering Manager
*L. Harding, Supervisor of Licensing
*A. Rochino, Engineering Mechanics Manager
*W. Shumaker, Lead QC, Electrical
*J. Volence, Engineering Mechanics
*J. Wright, QC Manager

Metropolitan Edison Company

*J. Colitz, Manager Plant Engineering
*R. Harbin, Technical Analyst
*D. Mitchell, Licensing
L. Noll, Shift Supervisor
*H. Wilson, Lead I&C Foreman

U.S. Nuclear Regulatory Commission

*T. Fasano, Chief, Site Operations Section, TMI
*B. Haverkamp, TMI-1 Senior Resident Inspector
*W. Rekito, Reactor Inspector
*F. Young, TMI-1 Resident Inspector

*Denotes personnel present at exit interview.
**Denotes telephone conversation with Parsippany office.

2. High Pressure Safety Injection Cross Connections (Task RM-14)

The inspector examined electrical and instrumentation documents, records, and engineering design data associated with modification RM-14. The requirements for the modification are detailed in the TMI-1 Restart Report, Section 8.3.15. Additional requirements for this system are detailed in Sections 6 and 9 of the facility FSAR.

a. The inspector examined documents, records, and engineering design data to determine whether applicable requirements have been met in areas relating to design, procurement, installation and inspection.

Areas inspected for this determination include:

-- Engineering Change Memorandum Package, ECM-S007, Revisions 0 thru 5A

-- Make Up and Purification System P&ID, C-302-661

-- System Design Description, 211A, Revision 2

-- Field Questionnaire Report No. R-27

-- Quality Assurance Systems List

-- Purchase Requisition Nos. 86088 and 86089

-- Operational QA Plan, Revision 8

No item of noncompliance was identified.

b. The inspector reviewed instrument calibration data sheets associated with the Make Up System flow instrument loop. The data sheets for this instrument loop provided the following information on calibrations.

Instrument Device No.	Last Calibration Date
MU24-DPT	5-5-74
MU24-FT	10-2-72
MU24-FS	7-19-72
MU24-FI	12-30-71

Although this instrument loop is not a Technical Specifications requirement, the inspector identified this as an item of concern because operators utilize this process parameter during power operation. Additionally, emergency procedures refer the operator to thi parameter during transients.

A representative of the licensee's Quality organization indicated that Quality Deficiency Report No. HRH-139-80, dated 12-4-80 had been issued and addresses calibration intervals for installed instrumentation. A representative of the licensee's Instrument and Control organization indicated that a Preventive Maintenance Program is currently under development to include selected instruments that are not Technical Specifications requirements.

The inspector identified this as an unresolved item, which will be the subject of a further review by an NRC inspector during a subsequent IE inspection (81-02-01).

3. Electrical and Instrumentation QC Personnel

The inspector reviewed schedules for Unit 1 Restart Modification. The schedules indicated an increase in electrical and instrumentation construction, start-up, and maintenance activities in the next 6 months. The inspector observed the potential for not having adequate QC coverage for electrical and instrumentation activities during this period, because there are currently only 3 electrical QC inspectors and no instrumentation QC inspectors.

A representative of the licensee's QC organization agreed that the potential existed for not providing the desired extent of QC coverage in these areas. It was indicated that one electrical QC inspector and one instrumentation QC inspector were scheduled to be hired during the month of January and contractor inspection personnel could be available if needed. The inspector noted that prompt and aggressive management action would be necessary to assure the adequate qualification and training of newly hired QC inspectors.

No item of noncompliance was identified.

4. Unresolved Item

Unresolved items are matters about which more information is required in order to ascertain whether they are acceptable items, items of noncompliance, or deviations. The unresolved item disclosed during the inspection is discussed in paragraph 2b.

5. Exit Interview

The inspector met with the licensee representatives (denoted in paragraph 1) at the conclusion of the inspection on January 9, 1981. The inspector summarized the purpose and scope of the inspection and the findings. The licensee acknowledged the findings.