

U. S. NUCLEAR REGULATORY COMMISSION
REGION III

Report No. 50-341/84-22(DRS)

Docket No. 50-341

License No. CPPR-87

Licensee: The Detroit Edison Company
2000 Second Avenue
Detroit, MI 48224

Facility Name: Enrico Fermi Nuclear Power Plant, Unit 2

Inspection At: Enrico Fermi 2 Site, Monroe, MI

Inspection Conducted: June 5 through June 15, 1984
June 20 through June 22, 1984

Inspector: *J. Malloy*
J. Malloy

7/16/84
Date

Accompanying Personnel: *J. Hasse for*
R. Hasse

7/16/84
Date

Approved By: *F. Hawkins*
F. Hawkins, Chief
Quality Assurance Programs Section

7/16/84
Date

Inspection Summary

Inspection on June 5 through June 15, and June 20 through June 22, 1984
(Report No. 50-341/84-22(DRS))

Areas Inspected: Routine, announced inspection by a region-based inspector of licensee action on previous inspection findings; management of the preoperational testing quality assurance program and quality verification; preoperational testing surveillance and inspection; audits covering preoperational testing; and training and qualification of quality assurance personnel interfacing with preoperational testing. The inspection involved a total of 30 inspector-hours by the NRC inspector onsite.

Results: Of the six areas inspected, no items of noncompliance or deviations were identified.

DETAILS

1. Persons Contacted

- *J. Buck, Principal Quality Engineer, Operational Assurance
- L. Bregni, Licensing Engineer
- *E. Carlson, Lead Technical Writer, Maintenance
- *G. Carter, Senior Engineer, Maintenance
- R. Fitzsimmons, Lead Test Data Reviewer, Operational Assurance
- *W. Holland, Vice President, Enrico Fermi 2 Project
- W. Jens, Vice President, Nuclear Operations
- R. Lenart, Superintendent, Nuclear Production
- *W. Miller, Supervisor, Operational Assurance
- *P. Nadeau, Quality Technician, Licensing
- T. Nickelson, Startup Engineer
- G. Overbeck, Assistant Superintendent Startup
- *J. Slider, Licensing Engineer
- F. Swartz, Lead Auditor, Operational Assurance
- D. Topel, Quality Specialist, Operational Assurance
- *G. Trahey, Director, Nuclear Quality Assurance
- *J. Wald, Principal Quality Engineer, Operational Assurance

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- *P. Byron, Senior Resident Inspector
- M. Parker, Resident Inspector
- S. DuPont, Region-Based Inspector

The inspector also interviewed other licensee personnel as a matter of routine.

*Denotes those persons in attendance at the exit meeting held at the conclusion of the inspection on June 22, 1984.

2. Licensee Action on Previous Inspection Findings

(Open) Noncompliance (341/82-10-04(DRS)): The licensee has not performed a documented management assessment of the overall quality assurance program since the inception of the Fermi Project. In addition, a procedure for such an assessment does not exist.

The inspector verified that a management assessment had been performed by Management Analysis Company (MAC) on May 14, 1984. The inspector also verified that an implementing procedure does exist in the Operational Quality Assurance Policy 34 and Operational Quality Assurance Manual Program Requirements 34.

Pending Detroit Edison's completion of corrective action regarding the MAC assessment and pending, for future assessments, the inclusion of construction activities in procedural requirements, the scope of the assessment, and implementation of the assessment, this item remains open.

3. Preoperational Testing Quality Assurance Program Areas Inspected

a. Management of Quality Assurance Program and Quality Verification

The inspector reviewed the Quality Assurance Manual, the Project Quality Assurance Procedures, the Nuclear Quality Assurance Procedures, the Startup Manual and Startup Instructions, and determined that the licensee's Quality Assurance Program covering preoperational testing activities has been documented. The formal requirements of individuals and/or groups managing the Preoperational Testing Quality Assurance Program have been included in the Nuclear Quality Assurance Procedure No. 0102T. Throughout the inspection, the inspector interviewed Quality Assurance supervisors, reviewers, auditors, and inspectors and determined that the personnel understood their basic responsibilities.

The Regulatory Guide and ANSI standard commitment in the Operation Quality Assurance Manual and the Design and Construction Manual were compared to the commitments stated in Fermi 2 FSAR, Appendix A. The inspector found inconsistencies between the manual and the FSAR. These were pointed out to the licensee. Pending the resolution of these inconsistencies and further review and evaluation of FSAR commitments by the licensee, this area is considered to be an unresolved item (341/84-22-01(DRS)).

No items of noncompliance or deviations were identified.

b. Quality Assurance Surveillance and Inspection

The Operational Assurance Section of the Nuclear Quality Assurance Group at Fermi 2 has the responsibility for the surveillance, inspection, and document review of systems that are undergoing preoperational testing prior to being turned over to the Startup Organization.

The inspector reviewed the following procedures:

Quality Assurance Manual 12, "Test Control", Revision 4

Nuclear Quality Assurance Procedure 0102T, "QA Organization - Testing Phase", Revision 0

Project Quality Assurance Procedure 9.701, "Operational Assurance Organization - Testing Phase", Revision 3

Nuclear Quality Assurance Procedure 1011T, "Inspection Test Activities", Revision 0

Project Quality Assurance Procedure 9.704, "Inspection of Test Activities", Revision 3

Nuclear Quality Assurance Procedure 1802, "NQA Quality Surveillances", Revision 0

The inspector verified that requirements and responsibilities have been established for the inspection and surveillance activities.

The following surveillance reports were reviewed to determine that the activities were completed in accordance with the above procedures:

<u>Surveillance Report No.</u>	<u>Date</u>
S-QA-84-441	4/26/84
S-QA-84-548	5/23/84
S-QA-84-549	5/27/84
S-QA-84-550	5/27/84

The following corrective action documents were reviewed to assure that corrective actions are taken and documented for deficiencies identified during inspections:

<u>Document</u>	<u>Number</u>	<u>Date</u>
Quality Surveillance Finding	QA-QSF-84-105	4/26/84
Test Exception Disposition Report	Pret. X4103.001	4/26/84
Quality Surveillance Report	QA-QSF-84-051	2/8/84
Quality Surveillance Report	S-QA-84-149	2/8/84

The following system turnover packages were reviewed to verify Operational Assurance involvement in the turnover process:

- Pret. G5100.001, "Torus Water Management System"
- Pret. W2500.001, "Circulating Water Reservoir and Decant System"
- Pret. P5001.001, "Station Air System"
- Pret. N1100.001, "Main Steam Supply"

The packages were reviewed for test procedure review, test results, review and quality control witness/hold points.

No items of noncompliance or deviations were identified.

c. Audits

The inspector reviewed the following procedures to assure that responsibilities and requirements have been established:

Nuclear Quality Assurance Procedure 203, "Training and Indoctrination of NQA Personnel", Revision 0

Nuclear Quality Assurance Procedure 1601, "Corrective Action", Revision 1

Nuclear Quality Assurance Procedure 1801, "Audits", Revision 1

The 1983 and 1984 audit schedules were reviewed for content and scope. The following preoperational test program audits were reviewed to verify independence of auditors and adequate corrective actions:

<u>Audits</u>	<u>Dates</u>	<u>Audits</u>	<u>Dates</u>
A-OA-C-83-5	2/7-15/83	A-OA-C-83-25	10/17-25/83
A-OA-C-83-18	8/10-24/83	A-OA-C-84-3	3/26-4/6/84
A-OA-C-83-19	8/15-18/83	A-OA-C-84-9	3/5-9/84

The inspector also reviewed the Quality Assurance staff audit of Operational Assurance activities (A-QS-P-84-13).

No items of noncompliance or deviations were identified.

d. Training and Qualification of Quality Assurance Personnel

The inspector reviewed the job position descriptions for Principal Quality Engineer, Quality Specialist (Senior Inspector), Lead Document Reviewer, and Lead Test Reviewer. Personnel records of two Quality Control inspectors were reviewed to verify that minimum education, experience and qualifications have been met.

The following Nuclear Quality Assurance procedures were reviewed to verify that training and qualification requirements have been established:

NQAP 201, "Indoctrination and Training of NQA Personnel", Revision 0
NQAP 202, "Qualification and Certification of Inspectors", Revision 1
NQAP 203, "Training and Certification of Audit Personnel", Revision 0

The training program was reviewed to verify establishment of procedures and responsibilities for training. The personnel records of selected Quality Control inspectors were reviewed to verify that training in procedures and instructions had been received.

No items of noncompliance or deviation were identified.

4. Unresolved Items

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 in this report is identified in Paragraph 3.a.

5. Exit Meeting

The inspector met with site representatives (denoted in Paragraph 1) at the conclusion of the inspection on June 22, 1984. The inspector summarized the scope and findings of the inspection.