

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

REGION III

Report No. 50-483/81-09

Docket No. 50-483

License No. CPPR-139

Licensee: Union Electric Company
P. O. Box 149
St. Louis, MO 63166

Facility: Callaway, Unit 1

Inspection At: Callaway Site, Callaway County, MO

Inspection Conducted: April 1-30, 1981

Inspector: *W. A. Hansen*

Approved By: J. E. Konklin
Projects Section 2A

5-5-81

5/7/81

Inspection Summary

Inspection on April 1-30, 1981 (Report No. 50-483/81-09)

Areas Inspected: Routine inspection by the IE Regional Resident Inspector (RI) of safety-related construction activities including protection of the reactor vessel and other components of the nuclear steam system supplier (NSSS); welding of safety-related piping systems; concrete placement; post tensioning work on the containment building; welding of reactor vessel internals; and compliance with test program commitments. This inspection involved a total of 53 inspector hours onsite by one NRC inspector including 7 inspector hours onsite during off-shifts.

Results: No items of noncompliance or deviations were identified.

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DETAILS

Persons Contacted

Union Electric Company (UE)

- *W. H. Weber, Manager Nuclear Construction
- M. E. Doyme, General Superintendent, Callaway Construction
- *R. L. Powers, Superintendent of Site Quality Assurance
- *J. Laux Supervisory Engineer Quality Assurance Construction
- H. H. Hess, Quality Assurance Consultant
- S. M. Hogan, Assistant Quality Assurance Engineer
- R. Veatch, Assistant Quality Assurance Engineer
- *W. H. Stahl, Test Program Coordinator
- *J. N. Kaelin, Superintendent Start-Up
- *J. L. Marden, Q. A. Consultant

Daniel International Corporation (Daniel)

- *H. J. Starr, Project Manager
- W. L. Sykora, Assistant Project Engineer

The inspector also contacted and interviewed other licensee and contractor personnel, including craftsmen, QA/QC, technical and engineering staff members.

Denotes those attending at least one of the exit meetings.

Functional or Program Areas Inspected

1. Plant Tours

One or more plant areas were toured several times during the reporting period to observe general construction practices; area cleanliness and storage condition of equipment, piping, and electrical cable.

No items of noncompliance or deviations were identified.

2. Nuclear Steam System Supplier (NSSS) Equipment

The inspector observed the in-place storage and protection of NSSS components and piping. The piping assemblies, reactor vessel internals, and reactor vessel head were properly stored and protected.

No items of noncompliance or deviations were identified.

3. Fabrications of Safety-Related Piping Systems

a. During the reporting period, the inspector observed work including handling, protecting, inspection, and welding of safety-related piping systems.

(1) Main Steam System

2AB-01-F008

2AB-01-F009

(2) Component Cooling Water System

2EG-07-F022

For each of these welds one or more of the following fabrication activities was observed. Handling and protection of piping and partially completed welds was satisfactory. Purge gas was correctly used. The weld area was free of any grease or particles. The joint fit-up dimensions were within procedural requirements and the welders were certified as qualified for the procedure specified to be used for welding the pipe joint.

No items of noncompliance or deviations were observed.

4. Containment Building Prestressing

a. During the reporting period the inspector observed the following work associated with prestressing.

(1) The installation of button heads on tendon 25CB was observed. The heads were checked for size, concentricity and the presence of unacceptable cracks and tears.

(2) The filling of tendon sheath V-82 with protective grease was observed. The temperature of the grease was satisfactory and inspection personnel were observing the operation as required by procedure.

No items of noncompliance or deviations were identified.

5. Concrete Placement

a. During the reporting period the inspector observed portions of the following safety-related concrete placements:

2C261W21	Pressurizer Enclosure
2C261W23	Pressurizer Enclosure
2C261W20	Pressurizer Enclosure
2C661501	Fuel Building Roof

b. During the placement the following conditions were noted.

- (1) The forms were secure, leak tight, and had been wetted prior to the placement.
- (2) The preplacement inspection had been completed and was in order.
- (3) Quality Control inspectors were assigned to the placement crew in addition to those assigned to perform periodic concrete testing.
- (4) Concrete testing was performed at the required frequencies.
- (5) Adequate numbers of crews and personnel were assigned to make the placement.
- (6) The placement was satisfactory.

No items of noncompliance or deviations were identified.

6. Drawing Control

During the inspection period, 12 drawings were checked in the Fuel Building to determine if drawings of the latest revision were being used in the construction effort. Drawings in the electrical area of work were checked. It was found that all drawings were of the correct revision and change notices, when issued, were attached to the drawing.

No items of noncompliance or deviations were identified.

7. Reactor Vessel Internals

During the inspection period the inspector observed welding of locking devices on the reactor vessel lower internals. Weld No. FS-M-D5365-FW-2 was observed. The weld appeared satisfactory, had been welded by a qualified welder and inspected by a qualified inspector.

No items of noncompliance or deviations were identified.

8. Construction Completion and Pre-Operational Testing

During the reporting period the inspector reviewed the basis for, and control of, construction completion and pre-operational testing. Union Electric's procedures for performing testing and quality control work were also reviewed. The review of PSAR, FSAR, Federal Regulations, Regulatory Guides and Union Electric procedures resulted in questions concerning the clear establishment of organizational responsibility for the quality control (inspection) of work performed in support of construction completion testing and pre-operational testing. Nuclear Construction Administrative Instructions describe the function as being performed within the testing organization; whereas, the PSAR describes it as part of the Quality Assurance Organization responsibility.

Quality Control inspections regarding the construction completion and pre-operational testing have not yet started.

Pending the receipt of clarifying information concerning the definition of responsibility for quality control and a listing of the quality control implementing procedures this is an unresolved item. (Item No. 50-483/81-09-01)

Unresolved Items:

Unresolved items are matters about which more information is required in order to ascertain whether they are acceptable items or items of non-compliance or deviations. Unresolved items disclosed during this inspection are discussed in Paragraph 8.

Other Activities

The inspector participated in meetings and a tour of the plant as a result of site visit on 4-27-81 by D. C. Gupta of the Hydrologic and Geotechnical Engineering Branch of the Office of Nuclear Reactor Regulations

Exit Meetings

The inspector met with Licensee representatives (denoted under Persons Contacted) on April 24 and 30, 1981 and other occasions throughout the month. The inspector summarized the scope and findings of the inspections performed. The Licensee representatives acknowledged the findings reported in previous paragraphs.