

APPENDIX B

U.S. NUCLEAR REGULATORY COMMISSION  
REGION IV

NRC Inspection Report: 50-285/86-21

License: DPR-40

Docket: 50-285


Licensee: Omaha Public Power District  
1623 Harney Street  
Omaha, Nebraska 68102

Facility Name: Fort Calhoun Station

Inspection At: Fort Calhoun Station, Blair, Nebraska

Inspection Conducted: July 1-31, 1986

Inspector:

  
P. H. Harrell, Senior Resident Reactor  
Inspector

8/19/86  
Date

Approved:

  
D. R. Hunter, Chief, Project Section B  
Reactor Projects Branch

8/21/86  
Date

Inspection Summary

Inspection Conducted July 1-31, 1986 (Report 50-285/86-21)

Areas Inspected: Routine, unannounced inspection including operational safety verification, maintenance, surveillance, plant tours, safety-related system walkdowns, security observations, and followup on a previously identified item.

Results: Within the seven areas inspected, two violations (failure to report a nonfunctional fire barrier, paragraph 4, and failure to properly store CQE material, paragraph 4) were identified.

## DETAILS

### 1. Persons Contacted

\*W. Gates, Plant Manager  
 C. Brunnert, Operations Quality Assurance Supervisor  
 M. Core, Maintenance Supervisor  
 D. Dale, Quality Control Inspector  
 \*J. Fleuhr, Station Training Supervisor  
 J. Foley, I&C and Electrical Field Maintenance Supervisor  
 \*J. Gasper, Administrative Services Manager  
 \*J. Gass, Training Supervisor  
 M. Kallman, Security Supervisor  
 L. Kusek, Operations Supervisor  
 \*T. McIvor, Technical Supervisor  
 \*R. Mueller, Plant Engineer  
 G. Roach, Chemical and Radiation Protection Supervisor  
 J. Tesarek, Reactor Engineer  
 S. Willrett, Administration Services and Security Supervisor

\*Denotes attendance at the monthly exit interview.

The inspector also contacted other plant personnel, including operators, technicians, and administrative personnel.

### 2. Followup on a Previously Identified Item

(Closed) Open Item 8602-04: Issuance of revised Table 1 for the Electrical Equipment Qualification Manual (EEQM)

The licensee has issued a revision to the EEQM to provide a new Table 1. Table 1 now includes the values of the uncertainties for the plant instrumentation loops.

### 3. Operational Safety Verification

The NRC inspector conducted reviews and observations of selected activities to verify that facility operations were performed in conformance with the requirements established under 10 CFR, administrative procedures, and the TS. The NRC inspector made several control room observations to verify:

- . Proper shift staffing
- . Operator adherence to approved procedures and TS requirements
- . Operability of reactor protective system and engineered safeguards equipment

- . Logs, records, recorder traces, annunciators, panel indications, and switch positions complied with the appropriate requirements
- . Proper return to service of components
- . Maintenance orders (MO) initiated for equipment in need of maintenance
- . Appropriate conduct of control room and other licensed operators

No violations or deviations were noted.

#### 4. Plant Tours

The NRC inspector conducted plant tours at various times to assess plant and equipment conditions. The following items were observed during the tours:

- . General plant conditions
- . Equipment conditions, including fluid leaks and excessive vibration
- . Plant housekeeping and cleanliness practices including fire hazards and control of combustible material
- . Adherence to the requirements of radiation work permits
- . Work activities performance in accordance with approved procedures

During a plant tour, the NRC inspector noted that extraneous material was piled on top of the paper sacks containing boric acid. The extraneous material consisted of piping, tools, and rags. The sacks of boric acid are used by the licensee for boration of the reactor coolout system.

The licensee purchased and maintained the boric acid as CQE material. Criterion XIII of Appendix B to 10 CFR Part 50 and Section 7.3, "Storage, Shipping, and Handling," of the licensee's QAP require that CQE material be stored such that damage or deterioration will be prevented. The licensee has established a program to erect temporary CQE storage areas for CQE material whenever the material is stored inside the plant. The licensee failed to store the boric acid in a temporary CQE area, thus providing the potential for damage or deterioration to the acid. The failure to properly control the storage of CQE material in the plant is an apparent violation. (285/8621-01)

Upon notification by the NRC inspector, the licensee evaluated the boric acid and determined that no deterioration or damage had occurred. The licensee established a temporary CQE area for the boric acid and has maintained the area for boric acid storage since notification of the problem by the NRC inspector.

During a plant tour, the NRC inspector also noted that a portion of the fire barrier between the upper and lower electrical penetration rooms had not been functional (intact) for some time. The licensee is currently in the process of installing a stairway between these two areas. During this period of construction, the fire barrier has been breached by a hole approximately 8 feet by 10 feet. The NRC inspector reviewed past station logs and noted that the fire barrier has not been functional since approximately May 15, 1986. The review also indicated that the licensee verified the operability of the fire detectors in the upper electrical penetration room and established an hourly fire patrol. The fire patrol has been maintained since the barrier was nonfunctional. The NRC inspector requested the licensee provide a copy of the report the licensee sent to the NRC notifying the NRC of a fire barrier being nonfunctional for an extended period of time. The licensee informed the NRC inspector that a report had not been sent.

TS 2.19(7) requires that a nonfunctional fire barrier be restored within 7 days or a written report be prepared and submitted to the NRC within an additional 30 days. The licensee did not prepare or submit a letter to the NRC within the required timeframe. This is an apparent violation. (285/8621-02)

When it was verified that a report had not been submitted, the licensee immediately completed and transmitted the report to the NRC.

#### 5. Security Observations

The NRC inspector verified the physical security plan was being implemented by selected observation of the following items:

- . The security organization is properly manned.
- . Personnel within the protected area (PA) display their identification badges.
- . Vehicles are properly authorized, searched, and escorted or controlled within the PA.
- . Persons and packages are properly cleared and checked before entry into the PA is permitted.
- . The effectiveness of the security program is maintained when security equipment failure or impairment requires compensatory measures to be employed.

No violations or deviations were identified.

#### 6. Safety-Related System Walkdowns

The NRC inspector walked down accessible portions of the following safety-related systems to verify system operability. Operability was

determined by verification of selected valve and switch positions. The systems were walked down using the drawings and procedures noted in parenthesis.

- . Main steam system (Drawing M-252, Revision 40 and Procedure OI-MS-2, Revision 14)
- . Main feedwater system (Drawing M-253, Revision 51 and Procedure OI-FW-2, Revision 15)

During the walkdowns, the NRC inspector noted minor discrepancies of an editorial nature between the drawings, procedures, and plant as-built conditions for the selected areas checked. None of the conditions noted affected the operability or safe operation of the systems. Licensee personnel stated that the noted minor discrepancies would be corrected.

No violations or deviations were identified.

#### 7. Monthly Maintenance Observation

The NRC inspector reviewed and/or observed selected station maintenance activities on safety-related systems and components to verify the maintenance was conducted in accordance with approved procedures, regulatory requirements, and the TS. The following items were considered during the reviews and/or observations:

- . The TS limiting conditions for operation were met while systems or components were removed from service.
- . Approvals were obtained prior to initiating the work.
- . Activities were accomplished using approved MOs and were inspected, as applicable.
- . Functional testing and/or calibrations were performed prior to returning components or systems to service.
- . Quality control records were maintained.
- . Activities were accomplished by qualified personnel.
- . Parts and materials used were properly certified.
- . Radiological and fire prevention controls were implemented.

The NRC inspector reviewed and/or observed the following maintenance activities:

- . Troubleshooting transformer for security systems power supply (MO 862447)



. Inspection and installation of cable tray covers (MO 862038)

No violations or deviations were noted.

8. Monthly Surveillance Observation

The NRC inspector observed selected portions of the performance of and/or reviewed completed documentation for the TS required surveillance testing on safety-related systems and components. The NRC inspector verified the following items during the testing:

- . Testing was performed by qualified personnel using approved procedures.
- . Test instrumentation was calibrated.
- . The TS limiting conditions for operation were met.
- . Removal and restoration of the affected system and/or component were accomplished.
- . Test results conformed with TS and procedure requirements.
- . Test results were reviewed by personnel other than the individual directing the test.
- . Deficiencies identified during the testing were properly reviewed and resolved by appropriate management personnel.

The NRC inspector observed and/or reviewed the documentation for the following surveillance test activities. The procedures used for the test activities are noted in parenthesis.

- . Monthly auxiliary feedwater pump check (ST-FW-1-F.2)
- . Emergency diesel generator monthly test (ST-ESF-6-F.2)

No violations or deviations were identified.

9. Exit Interview

The NRC inspector met with Mr. W. G. Gates (Plant Manager) and other members of the OPPD staff at the end of this inspection. At this meeting, the NRC inspector summarized the scope of the inspection and the findings.