

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

REGION IV

Report: 50-285/81-10

Docket: 50-285

License: DPR-40

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

Facility Name: Ft. Calhoun Station, Unit 1

Inspection at: Ft. Calhoun Station, Blair, Nebraska

Inspection conducted: April 27-30, 1981

Inspectors:

J. P. Jaudon
J. P. Jaudon, Reactor Inspector, Systems and Technical
Section (Paragraphs 1, 2, 4 and 5)

5/8/81
Date

J. E. Cummins
J. E. Cummins, Reactor Inspector, Systems and Technical
Section (Paragraphs 1, 3 and 5)

5/8/81
Date

Approved:

R. E. Hall
R. E. Hall, Chief, Systems and Technical Section

5/8/81
Date

Inspection Summary:

Inspection Conducted on April 27-30, 1981 (Report 50-285/81-10)

Areas Inspected: Routine, unannounced inspection to follow up on a previously identified item, and to inspect maintenance and surveillance programs. The inspection involved 46 inspector-hours by two NRC inspectors.

Results: Within the three areas inspected, no violations or deviations were identified.

DETAILS

1. Persons Contacted

- *R. L. Andrews, Section Manager, Operations
- J. Fisicaro, Supervisor, Administrative Services
- L. T. Kusek, Supervisor, Technical
- *T. L. Patterson, Licensing Administrator, Production Operations
- G. R. Peterson, Supervisor, Maintenance
- A. Richard, Plant Engineer
- F. Smith, Test Engineer
- *S. C. Stevens, Manager, Fort Calhoun Station

The NRC inspectors also contacted other plant personnel including administrative, clerical, engineering, operations, and quality control personnel.

*Denotes presence at ex t interview conducted April 30, 1981.

2. Licensee Action on Previous Inspection Finding

(Closed) Unresolved Item (285/8103-01): Inclusion in surveillance procedures of three fire prevention surveillance requirements included in Amendment 53 to the Technical Specifications. The three surveillance requirements are:

- a. At least once every six months, verify Halon System operability by storage tank pressure and weight or level.
- b. At least once every eighteen months, verify system operability by simulated test signal; visually inspect spray headers to verify integrity; and visually inspect nozzles to assure no blockage.
- c. At least once every three years, perform an air flow test through each header and nozzle to assure no blockage.

The NRC inspector found that the licensee had issued Procedure ST-FP-10, Revision 0 (March 10, 1981), "Halon System Surveillance." This procedure included surveillance tests as delineated above. The NRC inspector reviewed Procedure ST-FP-10 and found that paragraph F.1, which was the six month surveillance requirement to weigh and to check the pressure in halon bottles, did not include acceptance criteria. The NRC inspector pointed out to licensee management that Procedure ST-FP-10, paragraph F.1 was not prepared in accordance with the licensee's Procedure G-23, Revision 4 (April 24, 1979), "Surveillance Test Program," which requires that surveillance test procedures include "acceptance criteria." The licensee prepared Revision 1 to Procedure ST-FP-10; this revision was reviewed by the Plant Review Committee and approved April 29, 1980. During the course of this inspection, the NRC inspector reviewed over 20 other surveillance procedures, all of which were found to include appropriate acceptance criteria. The NRC inspector concluded that the omission of acceptance criteria in this single paragraph of Procedure ST-FP-10 (Revision 0) was an isolated case. Since Procedure ST-FP-10

was revised during the course of the inspection, the NRC inspector had no further questions in this area. The original unresolved item (285/8103-01) is closed.

3. Maintenance Program

The NRC inspector reviewed the following maintenance programmatic activities to determine that these activities were in accordance with Technical Specifications (Section 5.8) and that the activities met the requirements of the licensee's applicable administrative and maintenance procedures:

- Maintenance Order No. 5688, Raw Water System AC-10C Bearing
- Maintenance Order No. 5711, Raw Water System AC-10C Breaker
- Maintenance Order No. 6036, Component Cooling Water System Pressure Alarm
- Maintenance Order No. 8114, Charging Pump (CH-1C) Drain Pipe Leak
- Maintenance Order No. 8420, Pressurizer Pressure D/P 1A-102Y Alarm
- Maintenance Order No. 8509, Safety Injection SI-1A
- Maintenance Order No. 8563, Ground on No. 2 DC Bus
- Maintenance Order No. 8712, Reactor Protection System AI-31D, Trip Unit (TU-3)
- Maintenance Order No. 8713, Reactor Protection System Digital Voltmeter
- Maintenance Order No. 9053, Reactor Protection System "B" Channel Wide Range
- Maintenance Order No. 9233, Charging Pump CH-1C Low Flow

No violations or deviations were identified during this portion of the inspection.

4. Surveillance Program

The NRC inspector reviewed the licensee's program for surveillance and for in-service testing (IST) of pumps and valves. The licensee's basic procedure for the control of surveillance and IST was reviewed. This procedure was G-23, Revision 10 (April 24, 1979), "Surveillance Test Program." The NRC inspector found the following regarding the licensee's program for surveillance and IST of pumps and valves:

a. Scheduling of Surveillance

The licensee uses the Plant Engineering Organization to schedule surveillance tests and IST of pumps and valves. A Test Engineer reviews the list of all surveillances each month and prepares a monthly schedule. This schedule is compared to a preprogrammed computer printout, which also outputs a monthly schedule. This provides a cross check on the Test Engineer's schedule. The monthly schedule includes all surveillances except those associated with refueling. Refueling surveillance tests are integrated on a special schedule developed for each refueling. The frequency for surveillance tests is detailed. For example, a quarterly surveillance would be scheduled for a specific day of a specific week of a selected month within the quarter. This detailed planning was found to be maintained by Plant Engineering and also to be a product of the computer printout. Licensee representatives stated that by this methodology they assured that surveillance was routinely scheduled and completed and that "log-jams" were avoided at the end of a surveillance interval. The monthly schedule is approved by the Plant Review Committee (PRC). The NRC inspector found that the Administrative Department was used to track the completion of scheduled surveillance tests through the filing of completed (and reviewed) procedures. The Administrative Department promulgated reports monthly to the PRC which listed any scheduled surveillances that were not turned in completed by the end of the month. This report served to provide visibility to the Station Manager, a member of the PRC, of any surveillance which was not completed as scheduled. The NRC inspector did not identify any surveillances which were required and not scheduled or completed within the specified time frame.

b. Surveillance Procedures

The NRC inspector found that the each surveillance procedure used was stamped and certified as being the latest revision of the procedure at the time the surveillance was conducted. Review of 22 procedures for surveillance and IST of pumps and valves indicated that these procedures contained prerequisites, initial conditions, precautions, signoffs including quality assurance signoffs, step-by-step instructions, acceptance criteria (except as noted in paragraph 2 of this report), and appropriate instructions for return of the tested system to normal. Review of completed procedures revealed that the procedures were completed, that data were recorded legibly and that reviews were conducted of completed procedures. Of the 22 procedures reviewed, the NRC inspector found that 4 of them had required a temporary change when last conducted. The NRC inspector followed up on these four temporary changes and found that in each case the temporary change had been reviewed and approved as required by Technical Specifications within the time period allowed by Technical Specifications.

c. Observations of Surveillance Test

The NRC inspector observed the conduct of a prestartup surveillance test. This surveillance was conducted in a step-by-step manner. For that portion of the surveillance observed by the NRC inspector, each step was read aloud and discussed before it was accomplished and signed off before the next step was started. Communications appeared to be effective among the operators, engineers and technicians performing the surveillance.

No violations or deviations were noted during this portion of the inspection.

5. Exit Interview

An exit interview was conducted April 30, 1981, in the Omaha Public Power District Offices (Jones Street) with those personnel denoted in paragraph 1. At this exit interview, the NRC inspectors summarized the scope of the inspection and their findings.