

APPENDIX

U.S. NUCLEAR REGULATORY COMMISSION  
REGION IV

NRC Inspection Report: 50-285/90-03

Operating License: DPR-40

Docket: 50-285

Licensee: Omaha Public Power District (OPPD)  
444 South 16th Street Mall  
Omaha, Nebraska 68102-2247

Facility Name: Fort Calhoun Station (FCS)

Inspection At: FCS, Fort Calhoun, Nebraska

Inspection Conducted: January 8-12, 1990

Inspector:

*W. L. Seidle for*  
D. L. Kelley, Reactor Inspector, Test Programs  
Section, Division of Reactor Safety

1/24/90  
Date

Approved:

*W. L. Seidle*  
W. C. Seidle, Chief, Test Programs Section  
Division of Reactor Safety

1/24/90  
Date

Inspection Summary

Inspection Conducted January 8-12, 1990 (Report 50-285/90-03)

Areas Inspected: Routine, unannounced inspection of the surveillance testing and calibration control programs.

Results: Within the areas inspected, no violations or deviations were identified. The testing control programs appeared well conceived and implemented. The programs appeared to be working well as evidenced by the reduction in missed and/or overdue surveillance tests. At the time of this inspection, there were no overdue surveillance tests.

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DETAILS

1. PERSONS CONTACTED

OPPD

- \*K. J. Morris, Division Manager, Nuclear Operations
- \*S. K. Gambhir, Division Manager, Production Engineering
- \*C. F. Simmons, Station Licensing Engineer
- \*J. R. Geschwender, Licensing Engineer
- \*T. C. Mathews, Station Licensing Engineer
- \*G. M. Cook, Acting Station Licensing Supervisor
- \*G. P. Schwartz, Manager, Electrical/Instrument and Control Design Engineering
- \*R. L. Phelps, Manager, Design Engineering, Nuclear
- \*G. R. Peterson, Manager, Fort Calhoun Station
- \*J. W. Chase, Nuclear Licensing and Industry Affairs Manager
- \*J. D. Kocy, Supervisor, System Engineering
- \*M. R. Gore, Supervisor, Maintenance
- \*J. W. Tills, Assistant Manager, Fort Calhoun Station
- \*K. R. Henry, Lead System Engineer
- \*S. Gebers, Supervisor, Radiological Service
- \*R. Mueller, Supervisor, Nuclear Services
- \*L. T. Kusek, Manager, Nuclear Safety Review
- \*A. L. Rogado, Nuclear Safety Review Specialist
- \*S. F. Swearingen, Nuclear Safety Review Specialist
- \*T. J. McIvor, Manager, Nuclear Projects
- \*R. F. Mehaffey, Supervisor, Electrical/Instrument and Control
- C. Linden, Computerized History and Maintenance Planning System Coordinator
- E. Jun, Surveillance Test Coordinator

NRC

- \*P. H. Harrell, Senior Resident Inspector

\*Denotes those attending the exit interview on January 12, 1990.

During the inspection, the inspector also contacted other licensee personnel.

2. SURVEILLANCE TESTING AND CALIBRATION CONTROL PROGRAMS (61725)

The purpose of this inspection was to ascertain the effectiveness of the licensee's program for controlling surveillance testing and calibration activities.

The inspector concluded that the control program was effectively designed and appeared to be functioning well to schedule and to track surveillance tests and calibration activities.

The assessment of the surveillance testing and calibration control programs was accomplished by reviewing the procedures and by discussing the aspects of the

program with licensee personnel. The documents that were reviewed are listed in the attachment to this report.

The major component of the surveillance and calibration activities is the computerized history and maintenance planning system (CHAMPS). CHAMPS is a data base that contains equipment information. The data base had been verified by the licensee to be accurate. The licensee had performed a review to determine the Technical Specification (TS) required surveillance testing and the nonTS required testing and calibration. This review included the inservice inspection and testing requirements of Section XI of the ASME code. The testing and calibration information was then loaded into CHAMPS with data on the testing and calibration periodicity and procedural requirements. From this information, repetitive tasks were generated. These repetitive tasks formed the surveillance and preventive maintenance schedules. The schedule for TS testing and calibration requirements are controlled by the surveillance test program, and nonTS calibrations are controlled by the preventive maintenance program.

Specific responsibilities and assignments were delineated in Procedures SO G-23, "Surveillance Test Program" and SO M-2, "Preventive Maintenance Program."

The scheduled tests, generated by CHAMPS, were distributed to the assigned, responsible organizations for performance. The surveillance tests were tracked by the shift technical advisor (STA), and the preventive maintenance (PM) tests were tracked by the responsible group. The inspector reviewed the January 1990 monthly surveillance testing schedule and verified that all tests required to be performed on each shift, each day, and each week were identified with a test procedure and the responsible group(s) listed.

The inspector discussed the scheduling efficiency with the resident inspectors and licensee personnel. The inspector was informed that the use of CHAMPS had resulted in more positive control of surveillance testing and a marked reduction in missed and overdue tests. At the time of this inspection, there were no overdue surveillance tests.

The responsibilities for completed tests were specifically assigned by the procedures which control the test programs. The procedures specified that completed tests were reviewed, completion data entered into the tracking system, and overdue or missed tests were flagged and corrective actions assigned. Anomalies and deficiencies were reviewed and the applicable TS limiting condition for operation checked to ensure that they were not exceeded. In addition, the shift supervisor was notified, and a maintenance order was written to correct any deficiencies.

An additional area examined by the inspector was revision to the surveillance test program resulting from the TS amendments. The inspector reviewed Amendments 119, 120, 121, and 122. Amendment 121 to the TS contained changes to the testing requirements for the containment spray nozzles. Procedure SO G-23 assigned the responsibility for ensuring testing requirement changes to the assistant manager, Fort Calhoun Station. A review of procedure

changes revealed that a procedure change had been initiated for Surveillance Procedure ST-MZ-1, "Containment Spray Nozzles" and that the procedure had been revised and was presently in draft form, awaiting plant review committee review and approval.

No violations or deviations were identified in the review of these program areas.

### 3. EXIT INTERVIEW

On January 12, 1990, the inspector met with Mr. K. J. Morris and other members of the licensee's organization identified in paragraph 1. The inspector summarized the scope of the inspection and presented the inspection findings. The licensee did not identify, as proprietary, any information used in the performance of this inspection.

ATTACHMENT

Documents Reviewed During This Inspection

SO G-23, "Surveillance Test Program"

SO M-2, "Preventive Maintenance Program"

SO M-26, "Calibration Procedures"

SO G-30, "Setpoint/Procedure Changes and Generation"

SO G-71, "CHAMPS Data Base Update"

USAR, Appendix A, Section A.12, "Test Control" and Section A.15, "Inspection, Test, and Operating Status"

Technical Specification Section 3.0, "Surveillance Requirements,"  
Amendments 119, 120, 121, and 122

Quality Assurance Plan, QAP-6.1, "Preventive Maintenance;" QAP-8.2, "Inservice Inspection and Test;" QAP-8.3, "Plant Surveillance Test Program;" and QAP-8.4, "Test Control"

CHAMPS Desk Instruction

ST-NZ-1, "Containment Spray Nozzles"

Draft, PE-ST-SI-0001, "Containment Spray Nozzle Flow Test"