



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION IV
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ARLINGTON, TEXAS 76011-8064

July 19, 1999

S. K. Gambhir, Division Manager
Nuclear Operations
Omaha Public Power District
Fort Calhoun Station FC-2-4 Adm.
P.O. Box 399
Hwy. 75 - North of Fort Calhoun
Fort Calhoun, Nebraska 68023-0399

SUBJECT: NRC INSPECTION REPORT NO. 50-285/99-05

Dear Mr. Gambhir:

This refers to the inspection conducted on June 1 through July 10, 1999, at the Fort Calhoun Station facility. The enclosed report presents the results of this inspection.

In accordance with 10 CFR 2.790 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be placed in the NRC Public Document Room (PDR).

Should you have any questions concerning this inspection, we will be pleased to discuss them with you.

Sincerely,

/s/

Charles S. Marschall, Chief
Project Branch C
Division of Reactor Projects

Docket No.: 50-285
License No.: DPR-40

Enclosure:
NRC Inspection Report No.
50-285/99-05

cc w/enclosure:
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 E-Mail report to Document Control Desk (DOCDESK)
 E-Mail report to Richard Correia (RPC)
 E-Mail report to Frank Talbot (FXT)

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ENCLOSURE

U.S. NUCLEAR REGULATORY COMMISSION
REGION IV

Docket No.: 50-285
License No.: DPR-40
Report No.: 50-285/99-05
Licensee: Omaha Public Power District
Facility: Fort Calhoun Station
Location: Fort Calhoun Station FC-2-4 Adm.
P.O. Box 399, Hwy. 75 - North of Fort Calhoun
Fort Calhoun, Nebraska
Dates: June 1 through July 10, 1999
Inspectors: W. Walker, Senior Resident Inspector
V. Gaddy, Resident Inspector
N. Salgado, Resident Inspector
Approved By: Charles S. Marschall, Chief, Project Branch C

ATTACHMENT: Supplemental Information

SUMMARY OF FINDINGS

Fort Calhoun Station NRC Inspection Report 50-298/99005 (DRP)

The report covers a 6-week period of resident inspection.

The body of the report is organized under the broad categories of Reactor Safety, Emergency Preparedness, and other activities.

Findings are assessed according to their potential risk significance and are assigned colors of green, white, or yellow. Green findings are indicative of issues that, while may not be desirable, represent little or no risk to safety. White findings indicate issues with some increased risk to safety, which may require additional inspection resources. Yellow findings are more serious issues with higher potential risk to safe performance. No individual finding is indicative of either acceptable or unsafe performance. The findings are considered in total with other inspection findings and performance indicators to determine overall plant performance.

Initiating Events

- No findings.

Mitigating Systems

- No findings.

Barrier Integrity

- No findings.

Emergency Preparedness

- No findings.

Other

- No findings.

Report Details

1. REACTOR SAFETY

1R03 Emergent Work

a. Inspection Scope

The inspectors observed maintenance and reviewed maintenance documents to support work on Electrohydraulic Control Pump EHC-3A and Control Element Assembly CEA 8. Workers satisfactorily performed the maintenance and corrected the deficiencies. Although the instructions used to troubleshoot the control element assembly were not specific, the inspector learned, during discussions with licensee personnel, that troubleshooting was performed in a controlled manner. Work planning and risk management were also adequate. Following maintenance, equipment operability was demonstrated by postmaintenance testing.

b. Observations and Findings

There were no findings identified and documented during this inspection.

1R04 Equipment Alignments

a. Inspection Scope

The inspectors performed a partial walkdown of Motor-Driven Auxiliary Feedwater System FW-6 during surveillance testing on Turbine-Driven Auxiliary Feedwater System FW-10. Plant procedures and drawings were used to verify correct system lineups for the motor-driven auxiliary feedwater system.

b. Observations and Findings

There were no findings identified and documented during this inspection.

1R05 Fire Protection

a. Inspection Scope

The inspectors met with the licensee's risk analysis group to identify the high risk fire areas. Throughout the inspection period, the inspectors performed walkdowns in these areas to ensure that adequate controls were in place to control combustibles and ignition sources. Fire barriers were observed to be operable and fire detection and mitigation equipment were present.

b. Observations and Findings

There were no findings identified and documented during this inspection.

1R09 Inservice Testing

a. Inspection Scope

The inspectors observed the following tests:

- OP-ST-FO-3001, "Diesel Generator 1 Fuel Oil System Pump Inservice Test"
- OP-ST-SI-3008, "Safety Injection and Containment Spray Pump Inservice Test and Valve Exercise"

Testing was adequate to verify compliance with code requirements. All components met the acceptance criteria.

b. Observations and Findings

There were no findings identified and documented during this inspection.

1R10 Large Containment Valves

a. Inspection Scope

The inspectors reviewed containment pressure relief release forms for January and February 1999. The licensee performs a weekly containment pressure relief.

b. Observations and Findings

There were no findings identified and documented during this inspection.

1R12 Maintenance Rule Implementation

a. Inspection Scope

The inspectors reviewed two equipment failures to verify maintenance rule implementation. Specifically, the inspectors evaluated the emergency response facility's computer system and West Switchgear Room Condenser Unit VA-90. The emergency response facility's computer performs the acquisition and displays technical data used to assist control room operators in evaluating the safety status of the plant. The west switchgear room condenser unit assists in providing cooling to safety equipment in the east switchgear room.

The inspectors used the maintenance rule field flow chart and determined that the licensee properly dispositioned the failures.

b. Observations and Findings

There were no findings identified and documented during this inspection.

1R13 Maintenance Prioritization

a. Inspection Scope

The inspectors assessed the work controls implemented to minimize risk associated with modifications being performed in the switchyard. The inspectors verified that the licensee had performed a safety assessment for the overall switchyard modifications. Additionally, when proposed switchyard activities placed the plant in higher risk configurations, risk assessments were performed and the activity was required to be approved by the plant review committee prior to implementation. These activities were properly planned and controlled. Additionally, the inspectors verified that the licensee had properly evaluated the affect that the switchyard activities had on other planned online maintenance.

b. Observations and Findings

There were no findings identified and documented during this inspection.

1R15 Operability Evaluations

a. Inspection Scope

During surveillance testing, one of the control room air conditioning units failed to meet the acceptance criteria of 16,200 to 19,800 cfm of air flow as specified in Surveillance Test SE-ST-VA-0013, Control Room Air Conditioning Unit VA-46A Performance Test.” The actual air flow measured was 16,000 cfm. The inspectors reviewed the licensee’s operability evaluation for Control Room Air Conditioning Unit VA-46A and determined it was acceptable. The licensee also documented this in Condition Report 199900990.

b. Observations and Findings

There were no findings identified and documented during this inspection.

1R19 Postmaintenance Testing

a. Inspection Scope

The inspectors observed a postmaintenance test performed following maintenance on Electrohydraulic Controls Pump EHC-3A and Motor-Driven Pump FP-1A. The test was performed correctly and demonstrated that the equipment was functional and operable.

b. Observations and Findings

There were no findings identified and documented during this inspection.

1R23 Temporary Plant Modifications

a. Inspection Scope

The inspectors reviewed Temporary Modification DCN 10128, "Instrument Loop 0417 Minor Modification," in use during power operation. This modification removed Flow Element FE-417 from the component cooling water system and replaced it with a carbon steel threaded pipe plug. As a result of the configuration change, the associated valve logic was modified.

b. Observations and Findings

There were no findings identified and documented in this report.

Emergency Preparedness

1EP1 Drill, Exercise, and Actual Events

a. Inspection Scope

The inspectors observed portions of an emergency preparedness drill. The primary focus of the inspection was to evaluate the licensee's classification, notification and protective action requirements, and development activities. The inspectors observed the licensee's critique of the emergency drill and determined it was self-critical in the identification of strengths and performance issues.

b. Observations and Findings

There were no findings identified and documented in this report.

4 OTHER ACTIVITIES

4OA4 Summary of Checklist Review Results for Y2K Activities at the Fort Calhoun Nuclear Station

The staff conducted an abbreviated review of Y2K activities and documentation using Temporary Instruction (TI) 2515/141, "Review of Year 2000 (Y2K) Readiness of Computer Systems at Nuclear Power Plants." The review addressed aspects of Y2K management planning, documentation, implementation planning, initial assessment, detailed assessment, remediation activities, Y2K testing and validation, notification activities, and contingency planning. The reviewers used NEI/NUSMG 97-07, "Nuclear Utility Year 2000 Readiness," and NEI/NUSMG 98-07, "Nuclear Utility Year 2000 Readiness Contingency Planning," as the primary references for this review.

Conclusions regarding the Y2K readiness of this facility are not included in this summary. The results of this review will be combined with reviews of Y2K programs at other plants in a summary report to be issued by July 31, 1999.

4OA5 Exit Meeting Summary

The inspectors presented the inspection results to members of licensee management at the conclusion of the inspection on July 12, 1999. The licensee acknowledged the findings presented. The licensee did not consider any material examined during the inspection proprietary.

PARTIAL LIST OF PERSONS CONTACTED

Licensee

D. Bannister, Operations Supervisor
M. Core, Manager, System Engineering
M. Frans, Licensing Manager
M. Pucket, Manager, Radiation Protection
R. Short, Assistant Plant Manager
J. Skiles, Manager, Design Engineering
J. Solymossy, Manager, Fort Calhoun Station
R. Clements, Manager, Maintenance

LIST OF BASELINE INSPECTIONS PERFORMED

The following inspectable-area procedures were used to perform inspections during the report period. Documented findings are contained in the body of the report.

Inspection Procedure		Report Section
<u>Number</u>	<u>Title</u>	
71111-03	Emergent Work	1R03
71111-04	Equipment Alignment	1R04
71111-05	Fire Protection	1R05
71111-09	Inservice Testing of Pumps and Valves	1R09
71111-10	Large Containment Isolation Valve Leak Rate & Status Verification	1R10
71111-12	Maintenance Rule Implementation	1R12
71111-13	Maintenance Work Prioritization & Control	1R13
71111-15	Operability Evaluations	1R15
71111-19	Postmaintenance Testing	1R19
71111-23	Temporary Plant Modifications	1R23
71114-01	Drill, Exercise, and Actual Events	1EP1
(none)	Summary of Checklist Review Results for Y2K Activities at the Fort Calhoun Nuclear Station	4OA4
(none)	Management Meetings	4OA5