

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

Report No. 50-298/79-01

Docket No. 50-298

License No. DPR-46

Licensee: Nebraska Public Power District
P. O. Box 499
Columbus, Nebraska 68601

Facility Name: Cooper Nuclear Station

Inspection At: Cooper Nuclear Station, Nemaha County, Nebraska

Inspection Conducted: January 8-11, 1979

Principal
Inspector:

E. H. Johnson
E. H. Johnson, Reactor Inspector

1/26/79
Date

G. L. Constable
G. L. Constable, Reactor Inspector

Jan 26, 1979
Date

Approved By:

G. L. Madsen
G. L. Madsen, Chief, Reactor Operations and
Nuclear Support Branch

1/26/79
Date

Inspection Summary

Inspection on January 8-11, 1979 (Report No. 50-298/79-01)

Areas Inspected: Routine, unannounced inspection of calibration of safety-related components, procedures, surveillance activities, new fuel inspection and follow up on LER's and unresolved items. The inspection involved fifty-four (54) inspector-hours on-site by two (2) NRC inspectors.

Results: Of the six (6) areas inspected, no items of noncompliance or deviations were noted.

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DETAILS

Persons Contacted

C. S. Baucus, Mechanical Engineer
L. F. Bednar, Electrical Engineer
P. J. Borer, Technical Assistant to the Station Superintendent
B. Brungardt, Shift Supervisor
R. D. Flannigan, Nuclear Engineer
W. F. Gilbert, Training Coordinator
M. Kroll, Instrument Supervisor
*L. C. Lessor, Station Superintendent
E. R. Noyes, Engineering Supervisor
J. L. Peaslee, Shift Supervisor
R. O. Peterson, Reactor Engineer
P. V. Thomason, Assistant to the Station Superintendent
M. G. Williams, Operations Supervisor

*Present at the exit interview.

In addition to the above, the inspector held discussions with various maintenance, operations, technical support and administrative members of the licensee's staff.

1. Plant Status

During the period of this inspection, the plant was in routine full power operation. The inspectors conducted a walk-through of accessible areas of the plant. No significant discrepancies were noted.

2. Procedures

The objective of this inspection effort was to ascertain whether changes made to approved procedures are in conformance with license and procedural requirements. The inspector reviewed approximately 60 of the 700+ procedure changes made during the past calendar year. An in-depth review was made of randomly selected procedures (listed below) to verify that they were in conformance with 10 CFR 50.59(a); and to verify that the procedures were adequate to control safety-related operations.

| <u>Procedure</u> | <u>Title</u> | <u>Revision</u> |
|------------------|---|-----------------|
| 1.2 | Station Organization and Responsibility | 3 |
| 1.13 | Station Design Changes | 15 |
| 1.15 | Document Control | 3 |
| 2.2.65 | Reactor Equipment Cooling Water System | 10 |
| 2.3.2.2.2 | Panel 9-3 Annunciator 9-3-2 | 4 |
| 5.4.2.6 | Drywell Fire | 3 |
| 5.4.2.20 | Turbine Basement Oil Fire | 8 |
| 6.3.17.1 | Control Room Ventilation | 6 |

No items of noncompliance or deviations were noted in this area.

3. Calibration

The objective of this inspection effort was to ascertain whether the calibration of components and equipment associated with safety-related systems or functions is in conformance with Technical Specification requirements. Records and procedures associated with the following calibrations were reviewed to verify that the surveillance was accomplished at the required intervals, that procedures were adhered to, and that the technical content of the procedures appeared adequate.

| <u>Procedures</u> | <u>Title</u> |
|-------------------|---|
| 6.1.9 | Reactor Vessel Low-High Water Level Calibration and Functional Test |
| 6.1.19 | Local Power Range Monitor Calibration Test |
| 6.2.2.1.6 | CSCS - Discharge Piping Full Low Pressure Alarm Calibration and Functional Test |
| 6.2.2.8.10 | PC - Drywell - Torus O ₂ % Analyzer Calibration and Functional Test |
| 6.2.3.1 | Drywell Floor Drain Sump 1F Flow Loop Calibration and Functional Test |
| 6.2.3.2 | Drywell Equipment Drain Sump 1G Flow Loop Calibration and Functional Test |
| 6.2.3.3 | Drywell Air Sampling System Calibration and Functional Test |

No items of noncompliance or deviations were noted in this area.

4. Surveillance

The following surveillance activities were observed during the course of the inspection.

| <u>Procedure</u> | <u>Title</u> |
|------------------|---|
| 6.2.2.2.3 | ADS Timer Calibration and Actuation Functional Test |
| 6.2.2.4.4 | CS - Core Spray Initiation Functional Test |
| 6.3.15.3 | Station Battery Weekly Check |
| 6.3.3.1 | HPCI Test Mode Surveillance Operation |

The inspector noted that the observed activities were accomplished in accordance with approved procedures and that all test equipment appeared to be appropriate and properly calibrated.

No items of noncompliance or deviations were identified.

5. Follow Up on Unresolved Items and Inspector Identified Open Items

The following unresolved items and inspector identified open items were reviewed during this inspection. Their status is as indicated.

Resolved. Unresolved Item 7813-1, Requirements for Review of Revised Design Changes - Revision 3, dated September 29, 1978 has been issued to GEP-11. This revision corrects the previously noted discrepancy.

Closed. Reference IE Report 77-07, Details, paragraph 2. The licensee is currently revising the ASME Section 11 required inservice inspection program to include spring hanger hot and cold settings.

Closed. Reference IE Report 77-09, Details, paragraph 15. The licensee is currently developing a listing of essential components. This item will continue to be carried as an open item from Inspection Report 77-04, Details, paragraph 3.

Closed. Reference IE Report 78-17, Details, paragraph 4. The inspector reviewed the requalification training records to determine that the appropriate training had been provided to the individuals in question.

Closed. Reference IE Report 78-20, Details, paragraph 2. The torus access hatch plug has been removed from on top of the round pipes.

Open. Reference IE Report 77-04, Details, paragraph 6. The inspector noted that on two occasions during 1978, the licensee had tested the emergency diesel generators at equal to or greater than their anticipated ECCS load. The licensee has not yet completed his evaluation as to whether this will be a normal practice.

No items of noncompliance or deviations were noted in this area.

6. Follow Up on Licensee Event Reports

The inspector reviewed the events reported on the below listed licensee event reports. Based on a review of facility internal reports and log books, the inspector made the determination that the events occurred as

reported. Each event was discussed with the licensee's staff. The corrective actions indicated in each report were verified to have been completed by review of surveillance test data sheets, completed work request forms and discussions with licensee personnel.

The status of each licensee event report is given below:

| <u>LER No.</u> | <u>Description</u> | <u>Status</u> |
|----------------|---|--|
| 78-18 | Failure of condenser air removal valves to close during surveillance test | Closed |
| 78-19 | Failure to maintain the reactor pressure vessel in the vented condition during refueling operations | Closed |
| 78-24 | Main steam line monitor radiation set points not reset following source calibration | Closed |
| 78-31 | Failure of crank shaft bearing on No. 2 diesel generator | Closed |
| 78-32 | Building of SMB-3 Type limit torque operator due to loose set screw on valve stem retaining yoke | Closed |
| 78-35 | Reactor Recirculation MG set speed increase | Closed |
| 78-22 | Nonconservative set point on MSIV limit switches | Open - The licensee is awaiting receipt of new switch types |
| 78-33 | Violation of cable separation criteria | Open - This item is scheduled for completion during the April refueling shutdown |
| 78-34 | Rod 30-31 uncoupled during operation | Open - This rod will be removed during the April 1979 refueling outage. |

In addition to the above, the following licensee event report was reviewed by the inspector in the Regional Office. Based on the 100% review by the inspector of all licensee internal nonconformance reports, discussions with licensee personnel during the course of inspections, and periodic review of station logs, this report was closed with no further on-site follow up.

LER 78-37, Failure of Servo Amplifier in Pressure Recorder PC PR-512A

No items of noncompliance or deviations were noted in this area.

7. Receipt of New Fuel

During the course of this inspection, the licensee was in the process of performing receipt inspections on new fuel for use during the next core cycle. The inspectors observed portions of the receipt inspections. The inspectors observed that fuel handling activities were conducted in accordance with approved procedures and the inspections were conducted in accordance with approved checklists.

No items of noncompliance or deviations were noted in this area.

8. Exit Interview

The inspectors met with the Station Superintendent at the conclusion of the inspection. The scope of the inspection and the findings were discussed.