



UNITED STATES  
**NUCLEAR REGULATORY COMMISSION**

REGION IV  
611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TEXAS 76011-8064

September 22, 1999

J. H. Swailes, Vice President of  
Nuclear Energy  
Nebraska Public Power District  
P.O. Box 98  
Brownville, Nebraska 68321

SUBJECT: NRC INSPECTION REPORT NO. 50-298/99-09

Dear Mr. Swailes:

On August 26, 1999, the NRC completed an inspection at the Cooper Nuclear Station reactor facility. The results of the inspection were discussed with Mr. R. A. Sessoms and other members of your staff at the completion of the inspection. The enclosed report presents the results of this inspection.

This inspection was an examination of activities conducted under your license as they relate to radiation safety and compliance with the Commission's rules and regulations and with the conditions of your license. Within these areas, the inspection consisted of a selected examination of procedures and representative records, observations of activities, and interviews with personnel. Specifically, this inspection focused on the implementation of your radioactive material processing and shipping program and the occupational radiation safety performance indicator.

Based on the results of this inspection, the NRC identified one issue of low risk significance that has been entered into your corrective action program and is discussed in the summary of findings and in the body of the attached inspection report. The issue was determined to involve a violation of NRC requirements, but because of its low risk significance, the violation is not cited. If you contest this noncited violation, you should provide a response within 30 days of the date of this inspection report, with the basis for your denial, to the Nuclear Regulatory Commission, ATTN: Document Control Desk, Washington DC 20555-0001; with a copies to the Regional Administrator, U.S. Nuclear Regulatory Commission, Region IV, 611 Ryan Plaza Drive, Suite 400, Arlington, Texas 76011, the Director, Office of Enforcement, United States Nuclear Regulatory Commission, Washington, DC 20555-0001; and the NRC Resident Inspector at the Cooper Nuclear Station facility.

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

Nebraska Public Power District

-2-

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

Sincerely,

Original signed by

Gail M. Good, Chief  
Plant Support Branch  
Division of Reactor Safety

Docket No.: 50-298

License No.: DPR-46

Enclosures:

NRC Inspection Report No.  
50-298/99-09

cc w/enclosures:

G. R. Horn, Senior Vice President  
of Energy Supply  
Nebraska Public Power District  
1414 15th Street  
Columbus, Nebraska 68601

John R. McPhail, General Counsel  
Nebraska Public Power District  
P.O. Box 499  
Columbus, Nebraska 68602-0499

B. L. Houston, Nuclear Licensing  
and Safety Manager  
Nebraska Public Power District  
P.O. Box 98  
Brownville, Nebraska 68321

Dr. William D. Leech  
MidAmerican Energy  
907 Walnut Street  
P.O. Box 657  
Des Moines, Iowa 50303-0657

Mr. Ron Stoddard  
Lincoln Electric System  
1040 O Street  
P.O. Box 80869  
Lincoln, Nebraska 68501-0869

Nebraska Public Power District

-3-

Michael J. Linder, Director  
Nebraska Department of Environmental  
Quality  
P.O. Box 98922  
Lincoln, Nebraska 68509-8922

Chairman  
Nemaha County Board of Commissioners  
Nemaha County Courthouse  
1824 N Street  
Auburn, Nebraska 68305

Cheryl K. Rogers, Program Manager  
Nebraska Health and Human Services System  
Division of Public Health Assurance  
Consumer Services Section  
301 Centennial Mall, South  
P.O. Box 95007  
Lincoln, Nebraska 68509-5007

Ronald A. Kucera, Director  
of Intergovernmental Cooperation  
Department of Natural Resources  
P.O. Box 176  
Jefferson City, Missouri 65102

Jerry Uhlmann, Director  
State Emergency Management Agency  
P.O. Box 116  
Jefferson City, Missouri 65101

Kansas Radiation Control Program Director

E-Mail report to T. Frye (TJF)  
 E-mail report to D. Lange (DJL)  
 E-Mail report to NRR Event Tracking System (IPAS)  
 E-Mail report to Document Control Desk (DOCDESK)

E-Mail all documents to Jim Isom for Pilot Plant Program (JAI)  
 E-Mail all documents to Sampath Malur for Pilot Plant Program (SKM)

bcc to DCD (IE06)

bcc distrib. by RIV:

Regional Administrator  
 DRP Director  
 DRS Director  
 Branch Chief (DRP/C)  
 Branch Chief (DRP/TSS)  
 Project Engineer (DRP/C)

CNS Resident Inspector  
 RIV File  
 RITS Coordinator  
 DRS Action Item File (Hodges)(99-G-

DOCUMENT NAME: R:\\_CNS\CN909RP.LTR.WPD

To receive copy of document, indicate in box: "C" = Copy without enclosures "E" = Copy with enclosures "N" = No copy

RIV:PSB		PSB	E	C:DRS\PSB		C:DRP\C			
Peer Review		LTRicketson:nh		GMGood		CSMarschall			
09/ /99		09/ /99		09/ /99		09/ /99			

OFFICIAL RECORD COPY

**ENCLOSURE**

U.S. NUCLEAR REGULATORY COMMISSION  
REGION IV

Docket No.: 50-298  
License No.: DPR 46  
Report No.: 50-298/99-09  
Licensee: Nebraska Public Power District  
Facility: Cooper Nuclear Station  
Location: P.O. Box 98  
Brownville, Nebraska  
Dates: August 23-26, 1999  
Inspector: Larry Ricketson, P. E., Senior Radiation Specialist  
Plant Support Branch  
Approved By: Gail M. Good, Chief, Plant Support Branch  
Division of Reactor Safety

## SUMMARY OF FINDINGS

### Cooper Nuclear Station NRC Inspection Report No. 50-298/99-09

This announced inspection focused on the licensee's radioactive material processing and shipping programs and the occupational radiation safety performance indicator.

Inspection findings were assessed according to potential risk significance and were assigned colors of GREEN, WHITE, YELLOW, or RED. GREEN findings are indicative of issues that, while not necessarily desirable, represent little risk to safety. WHITE findings would indicate issues with some increased risk to safety, which may require additional NRC inspections. YELLOW findings would be indicative of more serious issues with higher potential risk to safe performance and would require the NRC to take additional actions. RED findings represent an unacceptable loss of margin to safety and would result in the NRC taking significant actions that could include ordering the plant shut down. No individual finding by itself would be indicative of either acceptable or unacceptable performance. The findings, considered in total with other inspection findings and performance indicators, will be used to determine overall plant performance.

#### **Cornerstone: Public Radiation Safety**

- Green. The inspector identified a violation for failure to carry out a comprehensive system of planned and periodic audits of the radioactive material packaging and transportation programs in accordance with 10 CFR 71.137. The failure to review all aspects of the radioactive material processing and shipping program could cause programmatic problems to be missed which could ultimately result in unnecessary exposure to radiation workers and members of the public. This violation is being treated as a noncited violation (NCV), consistent with Appendix F of the NRC Enforcement Policy. This violation is in the licensee's corrective action program as Problem Identification Report (Serial Number) 4-03782 (Section 2PS2).

#### **Cornerstone: Occupational Radiation Safety**

- No findings.

Report Details

**2. RADIATION SAFETY**

2PS2 Radioactive Material Processing and Shipping

a. Inspection Scope

The inspector walked down accessible liquid-to-solid radwaste processing systems and reviewed the following items:

- Radioactive waste stream sample analysis results.
- Scaling factors and calculations for difficult-to-measure radionuclides.
- Waste classification documentation
- Disposal manifests
- Shipping papers
- Radiation surveys

Because the licensee did not prepare or ship radioactive material during the inspection period, there were no personnel performance observations.

b. Observations and Findings

There were no findings identified and documented during this inspection.

**4 OTHER ACTIVITIES**

4OA1 Identification and Resolution of Problems

a. Inspection Scope

The inspector reviewed the following items:

- Problem identification reports
- Audits, surveillances, and self-assessments
- Audit scoping plan
- Audit checklist

b. Observations and Findings

The inspector identified one violation of low significance. The violation involved a failure to conduct required audits of the radioactive material packaging and transportation program.

10 CFR Part 71 establishes requirements for packaging, preparation for shipment, and transportation of licensed material. 10 CFR 71.101(b) requires each licensee to establish, maintain, and execute a quality assurance program satisfying each of the applicable criteria of 10 CFR 71.101 - 71.137. 10 CFR 71.137 requires the licensee to

carry out a comprehensive system of planned and periodic audits, to verify compliance with all aspects of the quality assurance program, and to determine the effectiveness of the program. The audits must be performed in accordance with written procedures or checklists by appropriately trained personnel not having direct responsibilities in the areas being audited. Audited results must be documented and reviewed by management having responsibility in the area audited. Follow-up action, including reauditing of deficient areas, must be taken where indicated.

The quality assurance organization reviewed some aspects of solid radioactive waste management, waste classification and waste manifesting, but did not review 10 CFR Part 71 requirements. The 1996 Radiation Protection Self-Assessment reviewed selected aspects of transportation activities, but this review was very limited. The inspector reviewed audit scoping documents and the audit checklist and noted that these documents contained no reference to either 10 CFR Part 71 or 49 CFR requirements. The failure to carry out a comprehensive system of planned and periodic audits of 10 CFR Part 71 requirements is a violation of 10 CFR 71.137. The failure to review all aspects of the radioactive material processing and shipping program could cause programmatic problems to be missed which could ultimately result in unnecessary exposure to radiation workers and members of the public.

When asked for the most recent review of 10 CFR Part 71 requirements, the licensee was unable to provide documentation demonstrating an audit of these requirements was conducted. Therefore, the inspector could not determine how long the violation had existed.

Using the Public Radiation Safety Significance Determination Process, the inspector determined that the violation was a green finding. This violation is being treated as a noncited violation (NCV), consistent with Appendix F of the NRC Enforcement Policy. This violation is in the licensee's corrective action program as Problem Identification Report (Serial Number) 4-03782 (NCV 298/9909-01).

#### 40A2 Performance Indicator Verification

##### a. Inspection Scope (71151)

The inspector reviewed corrective action program records for high radiation area, very high radiation area, and unplanned exposure occurrences for the past 12 quarters to confirm that the occurrences were properly recorded as performance indicators. The inspector also reviewed radiological, controlled area exit transactions with exposures greater than 100 mrem and investigated selected examples to determine whether they were within the dose projections of the governing radiation work permits.

##### b. Observations and findings

There were no findings identified and documented during this inspection.



4OA5 Management Meetings

Exit Meeting Summary

The inspector presented the inspection results to members of licensee management at an exit meeting on August 26, 1999. The licensee acknowledged the findings presented. No proprietary information was identified.

## PARTIAL LIST OF PERSONS CONTACTED

### Licensee

R. Beilke, Licensing Engineer  
T. Chard, Manager, Radiation Protection  
J. Geyer, Senior Health Physicist, Radiation Protection  
B. Houston, Operations Manager, Quality Assurance  
D. Jones, Support Crew Leader, Radiation Protection  
J. Kuttler, Staff Health Physicist, Radiation Protection  
R. McDonald, Staff Health Physicist, Radiation Protection  
R. Sessoms, Senior Manager, Quality Assurance  
B. Toline, Audit Supervisor, Quality Assurance  
R. Uhri, Auditor, Quality Assurance  
C. Weers, Radiological Support Supervisor, Radiation Protection

### NRC

M. Miller, Senior Resident Inspector

## ITEMS OPENED, CLOSED, AND DISCUSSED

### Opened

None

### Opened and Closed

50-298/9909-01	NCV	Failure to carry out a comprehensive system of planned and periodic audits of 10 CFR Part 71 requirements (Section 2PS2).
----------------	-----	---

### Closed

None

### Discussed

None