



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
612 EAST LAMAR BLVD, SUITE 400  
ARLINGTON, TEXAS 76011-4125

April 7, 2009

Stewart B. Minahan, Vice  
President-Nuclear and CNO  
Nebraska Public Power District  
72676 648A Avenue  
Brownville, NE 68321

SUBJECT: SUMMARY OF ANNUAL PERFORMANCE ASSESSMENT MEETING FOR  
COOPER NUCLEAR STATION

Dear Mr. Minahan:

This refers to the meeting conducted in Brownville, Nebraska, on April 2, 2009, to discuss the safety performance at the Cooper Nuclear Station between January 1 and December 31, 2008.

Topics discussed during the meeting included the Reactor Oversight Process and the safety performance at Cooper Nuclear Station. Members of the public present at the meeting were allowed to ask questions and comment on the proceedings.

In accordance with Section 2.390 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and its enclosures will be available electronically for public inspection in the NRC's Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (The Public Electronic Reading Room).

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

Sincerely,

A handwritten signature in black ink, appearing to read "G. Miller", written over a horizontal line.

Geoffrey Miller, Chief  
Project Branch C  
Division of Reactor Projects

Docket: 50-298  
License: DPR-46

Enclosure:  
1. Attendance List  
2. Presentation Slides

cc w/enclosure:

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# NRC PUBLIC MEETING ATTENDANCE

LICENSEE/FACILITY	Cooper Nuclear Station	
DATE/TIME	April 2, 2009 - <del>6:00</del> <sup>4:00</sup> pm	
LOCATION	Brownville Concert Hall Atlantic Avenue and Second Street Brownville, Nebraska 68321	
NAME (PLEASE PRINT)	ORGANIZATION	TITLE
E. M. MACE	NPPD - CNS	NUCLEAR ASSET MGR.
Jodi Furr	NPPD - CNS	QA Manager
Brian O'Grady	CNS -	Site VP
Bus Chapin	CNS - NPPD	Safety & Hn Sup.
Bill Chapin	CNS - NPPD	Outage Manager
Jeanne Schieffu	NPPD - Corporate	Corp. Comm. Manager
Mark Becker	NPPD - Corporate	Media Relations
Darlene O'Grady	Public	
Ron Asche	NPPD	CEO
Meshelle Boone	NPPD	HR Mgr
Jon Schwarz	NEMA	RAD. Prgms. Mgr.
ROMAN ESTRADA	NPPD	CAA MGR
Bob Beilke	NPPD	Chem Mgr

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LOCATION	Brownville Concert Hall Atlantic Avenue and Second Street Brownville, Nebraska 68321	
NAME (PLEASE PRINT)	ORGANIZATION	TITLE
DENNIS CASMUSSEN	NPPD	Director
Darrell Wellman	Ambush Newspaper	Managing Editor
David Van Der Kerk	NPPD	Licensing Mgr
Michael T. Dyma	NPPD	Dir. of Proj.
Julia Schmitt	Nebraska DHHS	Rad. Program Manager
E.L. Zaczarok	NPPD (CNS)	Environmental Chemist
DAN Sealock	NPPD (CNS)	Training Mgr
JANE BEETEM	MO DNR	NEPA COORDINATOR

## CNS Nuclear Station Annual Assessment Meeting

**Reactor Oversight Program - CY 2008**



Nuclear Regulatory Commission - Region IV  
April 2, 2009

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## Purpose of Today's Meeting

- A public forum for discussion of Cooper Nuclear Station's performance in CY 2008
- The NRC will address the licensee performance issues as identified in the annual assessment letter in March 2009
- The Licensee will be given the opportunity to respond to the information in the letter and inform the NRC of new or existing programs to maintain or improve their performance

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## Agenda

- Introduction
- Review of Reactor Oversight Process
- National Summary of Plant Performance
- Discussion of Plant Performance Results
- NRC Oversight – Going Forward
- Licensee Response and Remarks
- NRC Closing Remarks
- Question and Answer Session

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## NRC Representatives

- Dwight Chamberlain, Director, Division of Reactor Projects
  - (817) 860-8291
- Geoff Miller, Branch Chief
  - (817) 860-8144
- Nick Taylor, Sr. Resident Inspector
  - (402) 825-3371
- Mike Chambers, Resident Inspector
  - (402) 825-3371
- Blake Rice, Project Engineer
  - (817) 276-6563

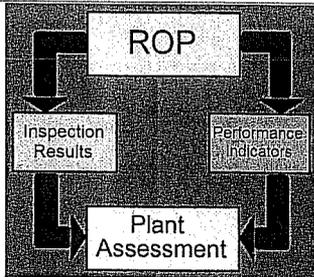
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## NRC Performance Goals

- **Safety:** Ensure protection of the public health and safety and the environment
- **Security:** Ensure the secure use and management of radioactive materials
- **Openness:** Ensure openness in our regulatory process
- **Effectiveness:** Ensure that NRC actions are effective, efficient, realistic, and timely
- **Operational Excellence:** NRC operations use effective business methods and solutions to achieve excellence in accomplishing the agency's mission

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## Reactor Oversight Process (ROP)



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graph TD;
  IR[Inspection Results] --> PI[Performance Indicators];
  PI --> PA[Plant Assessment];
  PA --> ROP[ROP];
  ROP --> IR;
```

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### Examples of Routine Inspections

■ Equipment Alignment	~80 hrs/yr
■ Triennial Fire Protection	~200 hrs/3 yrs
■ Operator Response	~125 hrs/yr
■ Emergency Preparedness	~80 hrs/yr
■ Radiation Release Controls	~110 hrs/yr
■ Worker Radiation Protection	~90 hrs/yr
■ Corrective Action Program	~250 hrs/ 2 yrs
■ Corrective Action Case Reviews	~60 hrs/yr
■ Total Inspection Hours	~2300 hrs/yr

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### Significance Threshold

#### Performance Indicators

**Green:** Only Baseline Inspection  
**White:** May increase NRC oversight  
**Yellow:** Requires more NRC oversight  
**Red:** Requires more NRC oversight

#### Inspection Findings

**Green:** Very Low safety issue  
**White:** Low to moderate safety issue  
**Yellow:** Substantial safety issue  
**Red:** High safety issue

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### Action Matrix Concept

Licensee Response	Regulatory Response	Degraded Cornerstone	Multiple/Rep. Degraded Cornerstone	Unacceptable Performance
Increasing Safety Significance				
Increasing NRC Inspection Efforts				
Increasing NRC/Licensee Management Involvement				
Increasing Regulatory Actions				

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### National Summary of Plant Performance

#### 4th Quarter 2008 Action Matrix Summary

Licensee Response (Column I)	86
Regulatory Response (Column II)	14
Degraded Cornerstone (Column III)	3
Multiple/Repetitive Degraded Cornerstone (Column IV)	1
<u>Unacceptable (Column V)</u>	<u>0</u>
<b>Total</b>	<b>104</b>

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### CNS 2008 Inspection Activities

- Baseline Inspection Program
- Refueling Outage
- Supplemental Inspection (IP 95002) completed in December 2008

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### CNS Assessment Results

- Nebraska Public Power District operated CNS in a manner that preserved public health and safety
- In the first quarter of 2008, CNS entered the Degraded Cornerstone Column of the Action Matrix
  - White finding related to EDG voltage regulator failure in 2007 – Closed after 1<sup>st</sup> qtr. 2008
  - White finding related to inadequate fire response procedures
  - White finding related to an EDG amphenol failure

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### CNS Assessment Results

- NRC conducted a 95002 supplemental inspection in December 2008
- Determined that CNS had made sufficient progress to close both open White findings
  - Inadequate fire response procedures
  - EDG amphenol failure
- Baseline Inspections planned for CY2009

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### Substantive Cross-Cutting Issues

- New theme in the human performance aspect of human error prevention
- CNS has communicated course of action

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### Licensee Response and Remarks

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### Annual Assessment Meeting

Cooper Nuclear Station  
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### Agenda

• Introduction	Brian O'Grady, Site VP
• Human Performance	Deet Willis, GMPO
• Diesel Generators	Gary Kline, Director - Engineering
• Closing Remarks	Stu Minahan, CNO

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### Brian O'Grady

Site Vice President



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### Introduction

- Standards of Performance
- Behaviors/Accountability
- Work Practices
- Corrective Action Program
- Oversight
- Strategic Initiatives

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### Deet Willis

General Manager –  
Plant Operations



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### Human Performance

- Human Error Prevention Improvements
  - Flow Loop Simulator
  - Institute of Nuclear Power Operations (INPO) Supervisor Training
  - Supervisor Oral Boards
  - Manager/Supervisor Paired Observations
  - Human Performance Review Board Changes
- Work Practice Improvements
- Procedure/Work Instruction Quality

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### Gary Kline

Director –  
Engineering



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### Diesel Generators

- Modeling Sub-Systems for Redesign
  - Magnetic Pick Up
  - Lube Oil
- Continuing Field Upgrades
  - Preventive Maintenance
  - Extent of Condition Inspections
  - Component Replacements
- Improving Lessons Learned and Standards – Reliability Team
- Expanded Performance Monitoring
- Improving Documentation

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### Diesel Generators

- Implemented SAMG 175 Kw Diesel
- Option Analysis Complete – Alternate 3 Mw Diesel
- Increasing Strategic Fuel Oil Supply – All DG
- Multiple Independent Reviews and Assessments
  - Fleet (Complete)
  - Engineering Firm (In Progress)
  - INPO Assist
  - Independent Failure Analysis (Draft)
  - Independent Expert Reviews Controls and Engine (Complete)

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**Closing Remarks**

Stu Minahan



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**NRC Remarks**

Dwight Chamberlain  
Director  
Division of Reactor Projects

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**Contacting the NRC**

Report an emergency:  
(301) 816-5100 (call collect)

Report a safety concern:  
(800) 695-7403  
[Allegation@nrc.gov](mailto:Allegation@nrc.gov)

General information or questions  
[www.nrc.gov](http://www.nrc.gov)

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**Reference Sources**

Reactor Oversight Process  
<http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/index.html>

Public Electronic Reading Room  
<http://www.nrc.gov/reading-rm.html>

Public Document Room  
1-800-397-4209 (Toll Free)

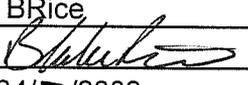
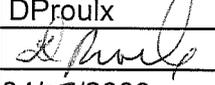
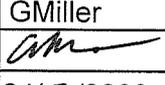
April 2, 2009

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- ROPreports

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BRice	DProulx	GMiller			
					
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