



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TEXAS 76011-4005

November 15, 2005

Randall K. Edington, Vice  
President-Nuclear and CNO  
Nebraska Public Power District  
P.O. Box 98  
Brownville, NE 68321

SUBJECT: SUMMARY OF MEETING WITH NEBRASKA PUBLIC POWER DISTRICT  
REGARDING COOPER NUCLEAR STATION

Dear Mr. Edington:

This refers to the public meeting conducted at the Brownville Concert Hall, in Brownville, Nebraska, on October 24, 2005. The purpose of this meeting was to discuss your progress in implementing improvement initiatives at the Cooper Nuclear Station. Specifically, topics that were discussed included problem identification and resolution, equipment reliability, and human performance. The meeting attendance list and a copy of the NRC's and Nebraska Public Power District's presentation materials are enclosed.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosures will be available electronically for public inspection in the NRC 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).

Sincerely,

Kriss M. Kennedy, Chief  
Project Branch C  
Division of Reactor Projects

Docket: 50-298  
License: DPR-46

Enclosures:

1. Attendance List
2. NRC Presentation Slides
3. NPPD Presentation Slides

cc w/enclosures:

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Electronic distribution by RIV:  
Regional Administrator (**BSM1**)  
DRP Director (**ATH**)  
DRS Director (**DDC**)  
DRS Deputy Director (**RJC1**)  
Senior Resident Inspector (**SCS**)  
Branch Chief, DRP/C (**KMK**)  
Project Engineer, DRP/C (**RVA**)  
Team Leader, DRP/TSS (**RLN1**)  
RITS Coordinator (**KEG**)

SISP Review Completed: LM ADAMS: ☒ Yes ☐ No Initials: LM  
☒ Publicly Available ☐ Non-Publicly Available ☐ Sensitive ☒ Non-Sensitive

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RIV/PE DRP/C	C: DRP/C			
RV Azua; mjs	KMKennedy			
<u>RVA</u>	<u>LM</u>			
11/5/05	11/15/05			

OFFICIAL RECORD COPY

T=Telephone

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ENCLOSURE 1

ATTENDANCE LIST

# NRC PUBLIC MEETING ATTENDANCE

LICENSEE/FACILITY	Nebraska Public Power District Cooper Nuclear Station
DATE/TIME	October 24, 2005; 4:00 p.m.(CST)
LOCATION	Brownville Concert Hall Brownville, Nebraska
NAME (PLEASE PRINT)	ORGANIZATION
Serry C Roberts	CNS - NPPD
Bryan Cook	NEMA
Bob Bressi	NPPD
Laurie Schilling	CNS - NPPD
David Kimball	CNS - NPPD
Michael T. Boyce	CNS - NPPD
Jim Gausman	CNS - NPPD
Julia Schmitt	NE HHS P&L
Chuck Hoyer	Mo Dept Health
Jim Flaherty	CNS - NPPD
Brian Murphy	CNS - NPPD
Kevin Tanner	CNS - NPPD
Joshua Paulman	CNS - NPPD

# NRC PUBLIC MEETING ATTENDANCE

LICENSEE/FACILITY	Nebraska Public Power District Cooper Nuclear Station
DATE/TIME	October 24, 2005; 4:00 p.m.(CST)
LOCATION	Brownville Concert Hall Brownville, Nebraska
NAME (PLEASE PRINT)	ORGANIZATION
D.L. Willis	MAINT / NPPD
Joe R. Ward	Trng / NPPD
Paul Gritton	Finance / NPPD
Nancy GAARDER	Omaha WORLD Herald
ERIC MICHAELIS	DED
Rudy Edington	VP/cno NPPD
KDFEL	Project Manager, NPPD
Meshelle Boruch	HR Site Mgr
Ricky Fili	System Engr, NPPD
Vasant Bhardwaj	Engineering Support Mgr
Robert Beilke	CNS / Chemistry Mgr
Jim JUMPER	CNS / LICENSING

## MEETING ATTENDANCE

<b>LICENSEE/FACILITY</b>	Nebraska Public Power District Cooper Nuclear Station
<b>DATE/TIME</b>	October 24, 2005; 4:00 p.m. (CST)
<b>LOCATION</b>	Brownville Concert Hall Brownville, Nebraska
<b>NAME (PLEASE PRINT)</b>	<b>ORGANIZATION</b>
Tony Vogel	NRC
Kriss Kennedy	NRC
Scott Schwind	NRC
Steve Cochrum	NRC
Nick Taylor	NRC
Victor Dricks	NRC

ENCLOSURE 2

NRC PRESENTATION SLIDES



## **U.S. Nuclear Regulatory Commission**

### **Region IV**

#### **Meeting with Cooper Nuclear Station**

## **NRC Personnel**

**Tony Vogel** Deputy Director  
Division of Reactor Projects

**Kriss Kennedy** Chief, Branch C  
Division of Reactor Projects

**Scott Schwind** Senior Resident Inspector  
Cooper Nuclear Station

**Steve Cochrum** Resident Inspector  
Cooper Nuclear Station

**Nick Taylor** Resident Inspector  
Cooper Nuclear Station

**Victor Dricks** Public Affairs Officer  
Region IV

## **Nebraska Public Power District**

#### **Cooper Nuclear Station Introduction**

## **Meeting Purpose**

**Discuss NPPD's Progress  
In Implementing Improvement  
Initiatives at Cooper Nuclear Station**

## **Meeting Guidelines**

**Registration Table**

**Questions and Answers**

**Handouts**

**Feedback Forms**

## **Meeting Agenda**

**NRC Overview of Performance at  
Cooper Nuclear Station**

**NPPD Discussion of Performance at  
Cooper Nuclear Station**

**Questions and Answers**



## Confirmatory Action Letter Summary

- Closed January 2005
- Completed Commitments in CAL
- Addressed the Original Causes Which Led to the Performance Problems
- Established Programs/Procedures to Effect Continued Improvements in Performance
- Previous Performance Improvement Plans Implemented at CNS Not Fully Successful in Improving Long-Term Performance at the Site
- Focus of NRC's 2005 Baseline Inspections - Monitor NPPD's Performance in the Six Areas Addressed in the CAL



## Mid-Cycle Performance Review

- Plant Performance For 2Q/2005 Was Within the Licensee Response Column - Inspection Findings and Performance Indicators Were Green
- Substantive Cross-Cutting Issue in the Area of Human Performance
- Substantive Cross-Cutting Issue in the Area of Problem Identification and Resolution
  - Inadequate Corrective Actions Resulting in Repetitive Problems Which Impact Plant Operation



## Problem Identification and Resolution Inspection

- Overall Performance Has Improved Since the Closure of the Confirmatory Action Letter
- Corrective Action Program Processes and Procedures Were Generally Effective
- Thresholds For Identifying Issues Were Appropriately Low
- In Most Cases, Corrective Actions Were Adequate to Address Conditions Adverse to Quality
- Inconsistent Quality of Problem Evaluations and less than Fully Effective Corrective Actions Continued to Result in a Significant Number of Self-Disclosing and NRC Identified Violations and Findings



## Safety System Design and Performance Capability Team Inspection

- Sample of Facility Changes Reviewed met Regulatory Requirements
- Low Pressure Safety Injection System - System Requirements, LPSI and Support Systems Material Condition and Physical Installation met Regulatory Requirements
- Six Noncited Violations of Low Safety Significance and Two Unresolved Items in Areas of System Condition and Capability, Design Review, Inspection and Testing



## Integrated Inspections

- Some Findings of Very Low Safety Significance Identified Involving:
  - Emergency Plan Implementation
  - Operator Performance
  - Improper Preventive Maintenance
  - Operability Determination
  - Radiation Protection - Surveys, ALARA Planning
  - Inadequate Corrective Actions
  - Design Changes in Reactor Feed System



## Nebraska Public Power District

### Presentation and Discussion

# **U.S. Nuclear Regulatory Commission**

## **Region IV**



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### **Meeting with Cooper Nuclear Station**

ENCLOSURE 3

NPPD PRESENTATION SLIDES

## NRC Public Meeting

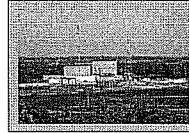
Cooper Nuclear Station  
October 24, 2005



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## Randy Edington

Vice President Nuclear –  
Chief Nuclear Officer



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## Agenda

- |                           |                |
|---------------------------|----------------|
| ♦ Introduction            | Randy Edington |
| ♦ CAL                     | Randy Edington |
| ♦ Human Performance       | Stu Minahan    |
| ♦ Corrective Action Prog. | Jerry Roberts  |
| ♦ Emergency Preparedness  | Jerry Roberts  |
| ♦ Engineering             | Gary Kline     |
| ♦ Closing Remarks         | Randy Edington |

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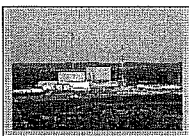
## CAL

- ♦ Recognize Where We Were
  - Why We Had the TIP/CAL
  - ~270/1068 CAL/TIP Action Steps
- ♦ Where We Are
  - Beyond TIP/CAL
  - 7 CAL Actions Remaining
- ♦ Where We Are Going
  - Top Ten Issue Process
  - Long Range Business Plans

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## Stu Minahan

General Manager of Plant  
Operations



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## Human Performance



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## Where We Are

- ◆ Focused Observations on HU Issues Monthly
- ◆ HU PI Data on 2<sup>nd</sup> Working Friday Operational Focus Meeting
- ◆ Monthly Supervisor Meetings
- ◆ Departmental Procedure Blitz Days

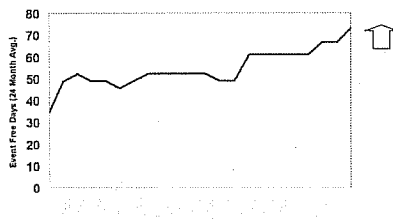
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## Where We Are Going

- ◆ Annual Human Performance Training
- ◆ Implementation of Leadership Log Books (Oct. 2005)
- ◆ Improved Evaluation/Trending Capabilities using Human Performance Error Review Process (Oct. 2005)
- ◆ Site-Wide Procedure Blitz Days (4<sup>th</sup> qtr. 2005)

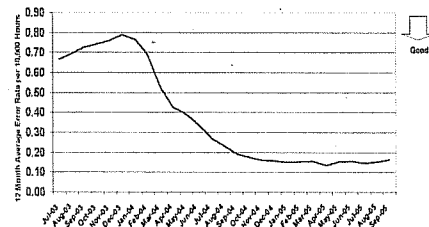
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## Event Free Days PI



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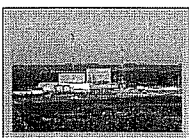
## Error Rate PI



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## Corrective Action Program

Jerry Roberts  
Director, Nuclear Safety  
Assurance



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## Where We Are

- ◆ Single Entry with PCRS
- ◆ High Input of Condition Reports (~700/month)
- ◆ CRG and Classification Matrix Keeping Focus on What's Important
- ◆ Items Closed to Trend Increasing to 45%
- ◆ ODMI Tool
- ◆ Graded Approach for Apparent Causes with CARB Reviews

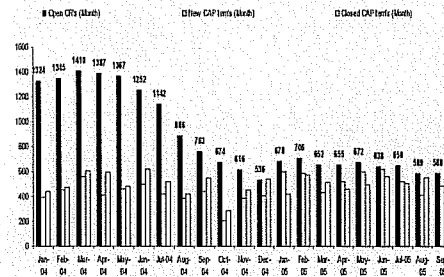
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## Where We Are (cont.)

- ◆ Root Cause Evaluation Scores and Interaction with Root Cause Team
- ◆ Number of Repeat SCRs have Declined
- ◆ Use of Trend Day Concepts Catching on for Proactive Trending
- ◆ Evaluation and Corrective Action Quality
- ◆ Evaluation Timeliness
- ◆ Inventory

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## Open Condition Report Backlog



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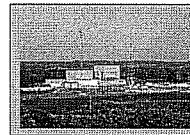
## Where We Are Going

- ◆ Craft-Level CR Initiation
- ◆ Organizational Implementation of Interim SCR Actions
- ◆ Trending/Analysis
- ◆ Evaluation of OE Interfaces
- ◆ Assessment and Benchmarking

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## Emergency Preparedness

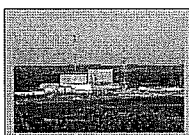
Jerry Roberts  
Director, Nuclear Safety  
Assurance



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## Engineering

Gary Kline  
Director of Engineering



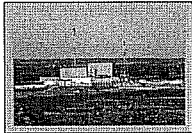
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## Engineering Programs and Configuration Management

- ◆ Technical Programs
  - Fleet Coordination
  - Continuous Improvement
  - Stringent Health Definition
- ◆ Configuration Management
  - Improvement Initiatives Ongoing
  - Fleet and INPO Engagement
  - Organization Change Adding Controls

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## Equipment Reliability



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## Recent Accomplishments

- ◆ Established Engineering CARB for Component Failures
- ◆ Implemented Formal Significant Event Response Procedure
- ◆ Engineering Organization Improvements
- ◆ Apparent Cause Methodology
- ◆ Top 10 Issue Work-Off

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## Recent Accomplishments (cont.)

- ◆ System and Program Health Re-baselining
- ◆ Long-Range Business Planning
- ◆ Resource Prioritization Function

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## Current Initiatives

- ◆ Developing Margin Recovery Plans
- ◆ Developing Equipment Obsolescence Strategy
- ◆ Implementing Single Point Vulnerability Strategy
- ◆ Component Expertise Development
- ◆ Improving Trending Capability and Analysis
- ◆ Zero Tolerance for Equipment Failures

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## Current Initiatives (cont.)

- ◆ Intake Systems
  - Trash Racks and Rake
  - River Turning Vanes
  - Traveling Screens
  - Weir Wall
  - Screenwash / Sparger Upgrades
  - Sonar Monitoring
- ◆ PMO Scoping – Refueling Outage
- ◆ Station Air Compressors
- ◆ RONAN Modification/Replacement
- ◆ Operator Burden and Work Around Reduction

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## Future Plans

- ◆ Reactor Vessel Level Control
- ◆ Reactor Feedpump Speed Control
- ◆ Replace Turbine Digital Electro-Hydraulic Controls
- ◆ Improve REC System Operating Margin
- ◆ Monitoring and Troubleshooting Technologies
- ◆ Life Cycle Management Plan
- ◆ Implement Aging Management Program
- ◆ Continue Switchyard Reliability Improvements

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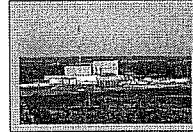
## Summary

- ◆ Multi-Cycle Planned Equipment Upgrades
- ◆ Improve Failure Analysis, Prevention Capabilities
- ◆ Continue to Build Equipment Management Infrastructure
- ◆ Utilize New Technology to Build in Reliability and Redundancy

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## Randy Edington

Vice President Nuclear –  
Chief Nuclear Officer



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Recognize where we have been,

**Emphasize** where we are  
and where we are going!

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