



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

November 5, 2008

Stewart B. Minahan, Vice  
President-Nuclear and CNO  
Nebraska Public Power District  
P.O. Box 98  
Brownville, NE 68321

SUBJECT: SUMMARY OF PUBLIC MEETING WITH NEBRASKA PUBLIC POWER  
DISTRICT REGARDING INSPECTION PROCEDURE 95002 SUPPLEMENTAL  
INSPECTION PREPARATIONS AND DIESEL GENERATOR PERFORMANCE  
IMPROVEMENT PLAN

Dear Mr. Minahan:

On November 5, 2008, representatives of Nebraska Public Power District met with NRC personnel in the Region IV office located in Arlington, Texas, to discuss performance at Cooper Nuclear Station and the status of the station performance improvement plan. The conference was held at the request of the licensee. Nebraska Public Power District formally announced their readiness for the NRC supplemental inspection to be conducted per Inspection Procedure 95002. The supplemental inspection will begin the week of December 1, 2008. The meeting attendance list and a copy of the licensee presentation are included as Enclosures 1 and 2.

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).

Sincerely,

Geoffrey B. Miller, Chief  
Project Branch C  
Division of Reactor Projects

Docket: 50-298  
License: DPR-46

Enclosures:

1. Attendance List
2. Cooper Nuclear Station Presentation Slides

cc/w enclosures:

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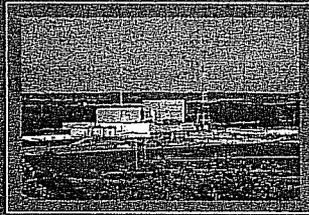
**NRC PUBLIC MEETING ATTENDANCE**

<b>LICENSEE/FACILITY</b>	Nebraska Public Power District Cooper Nuclear Station
<b>DATE/TIME</b>	November 5, 2008; 12:00 Noon (CST)
<b>LOCATION</b>	Executive Conference Room Region IV, 4 <sup>th</sup> Floor
<b>NAME (PLEASE PRINT)</b>	<b>ORGANIZATION</b>
vas Bhardwaj	CNS / NPPD
Dave VanderKamp	CNS / NPPD
Bill Chapin	CNS / NPPD
nate beger	cns / nppd
Shawn Henry	CNS / NPPD
D.L. Willis	<del>GN</del> CNS / NPPD
Blake Rice	NRC
<b>Chuck Gusto</b>	<b>NRC</b>
DAN LIVERMORE	NRC
RICK DEESE	NRC
WAYNE WALKER	NRC



# Cooper Performance Improvement

Nebraska Public Power District  
Cooper Nuclear Station  
November 5, 2008



# Opening Remarks

**Brian O'Grady**  
Site Vice President



# Agenda

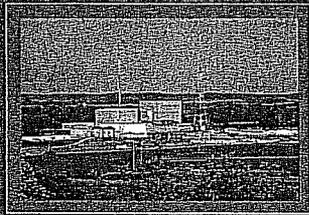
- ▣ Introductions/Performance Issues
- ▣ Causes/Corrective Actions
- ▣ Emergency Diesel Generators (EDG)
- ▣ Corrective Action Program
- ▣ Performance Sustainability
- ▣ Closing Remarks

## Introductions/Performance Issues

- ▣ Team Introduction
- ▣ Inconsistent Performance
- ▣ Broad Review
- ▣ Robust Fixes

# Event Summary

**Deet Willis**  
General Manager of Plant Operations  
**Gary Kline**  
Director of Engineering



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# Fire Protection Procedure

- ▣ Causal Factors
  - ▣ V & V Rigor
  - ▣ Procedure Reviews Inconsistent
- ▣ Corrective Action
  - ▣ Accountability - Shift Manager Ownership
  - ▣ Validation Procedure Revised
  - ▣ 100% Field Walkdowns of Abnormal, Emergency Procedures and EOP Support Procedures
  - ▣ Procedure Adequacy Checklist Created

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## Diesel Generator Amphenol

- ▣ Causal Factors
  - ▣ Configuration Controls on Amphenols
  - ▣ HU Work Practices
- ▣ Corrective Action
  - ▣ Configuration Control on Amphenol-Type Connectors
  - ▣ Process for "Skill of Craft" Configuration Control
  - ▣ Training
  - ▣ Walkdowns on EDG Completed
  - ▣ Walkdowns on Safety-Related Systems Completed

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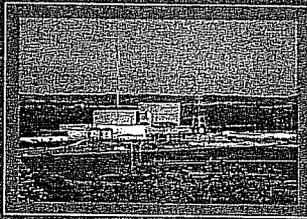
## Diesel Generator Voltage Regulator

- ▣ Causal Factors
  - ▣ Inadequate FMEA Guidance
  - ▣ Process for Evaluating Vendors
- ▣ Corrective Action
  - ▣ Revised FMEA Guidance in Troubleshooting and CAP
  - ▣ Revised Process for Vendor Parts

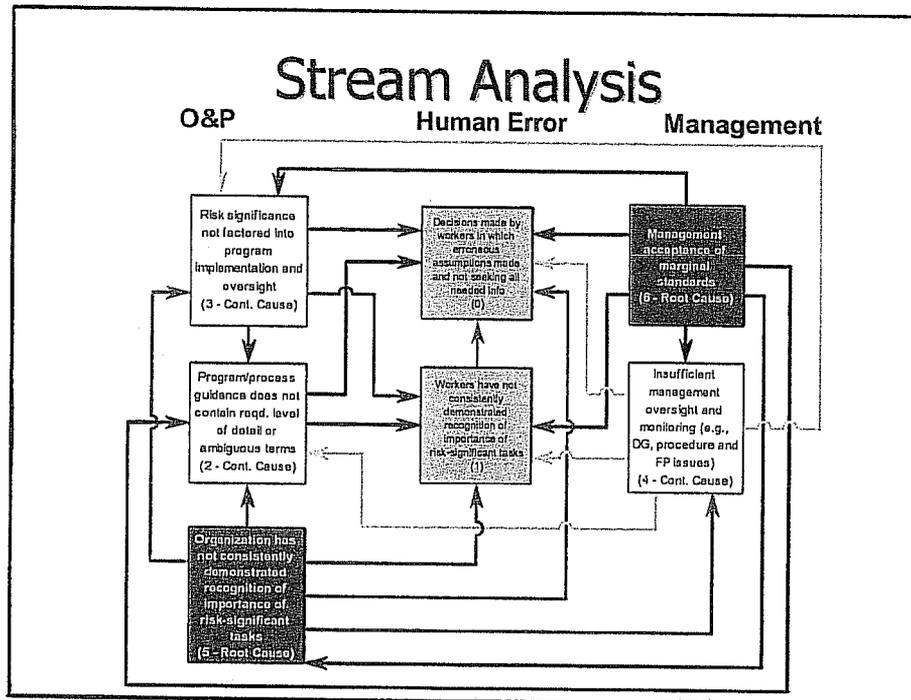
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# Causes and Corrective Actions

**Deet Willis**  
General Manager of Plant Operations



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## Causes

- ▣ Marginal Standards
- ▣ Risk Recognition
- ▣ Oversight/Monitoring
- ▣ Program Monitoring
- ▣ Written Guidance

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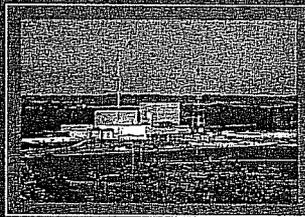
## Corrective Actions

- ▣ Management Standards & Expectations
- ▣ Risk Philosophy & Expectations
- ▣ Behavior Change
  - ▣ Constant Repetition of Standards
  - ▣ Consequences When Standards Not Met
  - ▣ Field Oversight
- ▣ Tools
  - ▣ Improved Procedures/Programs/WOs (Written Guidance)
  - ▣ Training/Education/Repetition
  - ▣ Performance Indicators
- ▣ Sustainability
  - ▣ Management Reviews
  - ▣ Effectiveness Reviews/Self Assessments

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# Emergency Diesel Generators

**Gary Kline**  
Director of Engineering



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## Material Condition Improvements

- ▣ Initial Walkdowns – Tubing/Electrical Repairs
- ▣ Voltage Regulator Cards Replaced
- ▣ Replaced Intercoolers (Turbo Chargers)
- ▣ New PMs
  - ▣ Neutral Grounding Resistor Inspection
  - ▣ Relays – Replacements/Inspections (e.g. K-Series)
  - ▣ Electrical Checks – Thermography/Terminations
- ▣ Replaced Expansion Seal
- ▣ Degraded Valve Lifter Replaced

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## Upgrades/Modifications

- ▣ Installed VR/Governor Monitoring
- ▣ Modifications Approved
  - ▣ 3-Turn Motor Operated Potentiometer
  - ▣ Metal Oxide Varistors w/Fused Varistors
  - ▣ Isolation of Components in Metering Circuit
- ▣ Evaluating Options to Relocate MPU
- ▣ Voltage Regulator Upgrade (RE26)
- ▣ Upgrade Fuel Injector Pumps (OE/ULSF)
- ▣ Evaluating Change in Design for Flex Hoses

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## Organization/Program Actions

- ▣ Diesel Reliability Team (DRT)
  - ▣ Standards, Procedures & Work Instructions, Leak Reduction
- ▣ Knowledge/Skills (Training/Contracted Resource)
- ▣ Industry Expert Reviews
  - ▣ PMs, Procedures
  - ▣ Spare Parts, Performance Data
  - ▣ Internal & External Operating Experience
- ▣ Availability of Spare Parts
- ▣ Optimize PMs (Quality & Frequency)
- ▣ Design Basis Reconstitution

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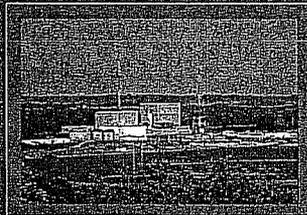
## Margin Improvement

- ▣ Portable 175 KW DG
- ▣ Evaluating Options to Further Improve Emergency AC Power
- ▣ Switchyard Improvements

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## Corrective Action Program

**Art Zaremba**  
Director of Nuclear Safety  
Assurance



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## Corrective Action Program

- ❑ Organizational/Behavior Causes
- ❑ Ownership/Expectations
- ❑ CARB Roles/Responsibilities
- ❑ Corrective Action Effectiveness Reviews
- ❑ Safety Culture Attributes

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## Performance Sustainability

**Brian O'Grady**  
Site Vice President



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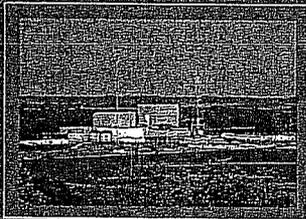
## Performance Sustainability

- ▣ Integrated Improvement Plan
- ▣ Alignment
- ▣ Safety Culture
- ▣ Measurable Results

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## Closing Remarks

**Stu Minahan**  
Vice President –  
Chief Nuclear Officer



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