



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

January 27, 2004

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

SUBJECT: SUMMARY OF CONFIRMATORY ACTION LETTER 4th QUARTERLY
INSPECTION EXIT MEETING WITH NEBRASKA PUBLIC POWER DISTRICT
REGARDING COOPER NUCLEAR STATION

Dear Mr. Edington:

This refers to the meeting conducted at the Brownville Concert Hall, Brownville, Nebraska, on January 22, 2004. The purpose of this meeting was to present the results of the NRC's Confirmatory Action Letter quarterly inspection conducted at the Cooper Nuclear Station of the Nebraska Public Power District. The attendance list and the presentation slides from both the NRC and Nebraska Public Power District are enclosed.

In accordance with 10 CFR 2.790 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:

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 DRP Director (**ATH**)
 Acting DRS Director (**DDC**)
 Senior Resident Inspector (**SCS**)
 Branch Chief, DRP/C (**KMK**)
 Senior Project Engineer, DRP/C (**WCW**)
 Staff Chief, DRP/TSS (**PHH**)
 RITS Coordinator (**NBH**)
 Jim Isom, Pilot Plant Program (**JAI**)
RidsNrrDipmLipb

ADAMS: Yes No Initials: *JAI*
 Publicly Available Non-Publicly Available Sensitive Non-Sensitive

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RIV/SPE/DRP/C	C:DRP/C			
WCWalker;df	KMKKennedy			
<i>WC Walker</i>	<i>KMK</i>			
1/27/04	1/27/04			

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ENCLOSURE 1

ATTENDANCE LIST

NRC PUBLIC MEETING ATTENDANCE

LICENSEE/FACILITY	Nebraska Public Power District Cooper Nuclear Station
DATE/TIME	January 22, 2004; 7:00 p.m.
LOCATION	Brownville Concert Hall
NAME (PLEASE PRINT)	ORGANIZATION
Tula Schmitt	Nebraska HHS R&L
Dennis Calsden	NEMA
Bill Fetzmann	NPPD
WAYNE E. BOYD	NPPD
Ron Wise	CONTECH, INC.
Jay Fikes	NPPD
Joe Bodner	NPPD
Kim Dahlberg	NPPD
Randy Edinger	NPPD/Energy
W Cooper	NPPD
Byron Day	NPPD / Team Assoc
Marv Reef	NPPD
Jeanne Schreffler	NPPD

NRC PUBLIC MEETING ATTENDANCE

LICENSEE/FACILITY	Nebraska Public Power District Cooper Nuclear Station
DATE/TIME	January 22, 2004; 7:00 p.m.
LOCATION	Brownville Concert Hall
NAME (PLEASE PRINT)	ORGANIZATION
Paul Gritton	NPPD
Karen Fili	ENERGY/NPPD
Rickey Fili	ENERGY/NPPD
Meshelle Boruch	NPPD
ROMAN ESTRADA	NPPD
KEVIN CHAMBLISS	NPPD
MARIE SCHAEBLE	NPPD
Trent Nelson	News Press
DAVID KNOX	NPPD
MARG COULTER	NPPD
Mike Coulter	—
TONY SCANN	NPPD
Jeff Domino	NPPD.

NRC PUBLIC MEETING ATTENDANCE

LICENSEE/FACILITY	Nebraska Public Power District Cooper Nuclear Station
DATE/TIME	January 22, 2004; 7:00 p.m.
LOCATION	Brownville Concert Hall
NAME (PLEASE PRINT)	ORGANIZATION
PIERRE F. INGOLD	CONSULTANT
Ralph R. Hernandez	Consultant
Nancy GAARDER	OMAHA WORLD-HERALD
TODD E. HOTTOVY	CNS
Wm MacCewer	CNS
Ann FLEMING	CNS
Kriso Kennedy	NRC
Art Howell	NRC
Wayne Walker	NRC
Scott Schwind	NRC
Steven Cochrum	NRC
Victor Dricks	NRC

NRC PUBLIC MEETING ATTENDANCE

LICENSEE/FACILITY	Nebraska Public Power District Cooper Nuclear Station
DATE/TIME	January 22, 2004; 7:00 p.m.
LOCATION	Brownville Concert Hall
NAME (PLEASE PRINT)	ORGANIZATION
Ed McCutchen	NPPD
David Montgomery	NPPD
George Leux	NPPD - CNS
Jim Kinsey	NPPD
Scott Lawk	St. Joseph News-Pass
FARHANG NADERI	NADERI ENGINEERING.
PATRICK HO	NEI

ENCLOSURE 2

NRC PRESENTATION SLIDES

U.S. Nuclear Regulatory Commission

Region IV

**Cooper Nuclear Station
Inspection Exit Meeting**

NRC Personnel

Art Howell Director
Division of Reactor Projects

Kriss Kennedy Chief, Branch C
Division of Reactor Projects

Wayne Walker Senior Project Engineer, Branch C
Division of Reactor Projects

Scott Schwind Senior Resident Inspector
Cooper Nuclear Station

Steve Cochrum Resident Inspector
Cooper Nuclear Station

Victor Dricks Public Affairs Officer
Region IV

Nebraska Public Power District

**Cooper Nuclear Station
Introduction**

Meeting Guidelines

**Purpose of Meeting - Inform Public
of Inspection Findings**

Meeting With Licensee

Answer Questions From Audience

Meeting Guidelines

Registration Table

Questions and Answers

Handouts

Feedback Forms

Meeting Agenda

**Provisions of Confirmatory Action Letter (CAL)
and The Strategic Improvement Plan (TIP)**

Inspection Scope

Inspection Findings

Nebraska Public Power District Response

Questions and Answers



Inspection Team

- **Wayne Walker-Team Leader**
- **John Kramer-Senior Resident Inspector**
- **Ray Azua-Project Engineer**



Confirmatory Action Letter

- **Emergency Preparedness**
- **Human Performance**
- **Material Condition and Equipment Reliability**
- **Plant Modifications and Configuration Control**
- **Corrective Action Program, Utilization of Industry Operating Experience, and Self-Assessments**
- **Implementation of Engineering Programs**



Inspection Scope

- **Six CAL Focus Areas**
- **NRC Baseline Inspections**
- **Inspection By Team**
- **NRC and Cooper Performance Indicators**
- **Cooper Audits and Self Assessments**



Inspection Results

- **Team reviewed 27 improvement plan actions**
- **Actions were completed as described in the Strategic Improvement Plan**
- **A number of the important actions in the Action Plans covered by the CAL have been implemented**
- **To date 69 percent of CAL Strategic Improvement Plan Actions have been reviewed by NRC**



Quality of Improvement Plan Closure Packages

- **Closure packages were complete**



Emergency Preparedness

- **Improvement Plan Actions addressed in CAL completed and previously inspected (June 2003)**
- **NRC Baseline Inspections**
- **NRC Performance Indicators - Satisfactory**
- **CNS Performance Indicators - Satisfactory**

Evaluation of Human Performance

- 1 CAL related improvement plan action reviewed
- Efforts to improve performance have been less than fully effective
- NRC Baseline Inspections

Evaluation of Human Performance

(continued)

- CNS Performance Indicators
 - 2 of 4 unsatisfactory or not meeting goals as defined by NPPD
- Human Performance Error Rate
- Human Performance Event Free Days
- 2 of 4 meeting goals
- Configuration Control Events
- OSHA Recordable Injury Rate

Evaluation of Human Performance (cont)

- Licensee assessments reveal continuing problems with improving human performance
- CNS taking actions to address lack of improvement

Material Condition and Equipment Reliability

- 13 CAL related improvement plan actions reviewed
- Completed actions have contributed to specific improvements in equipment reliability
- However the plant continues to experience equipment reliability problems

Material Condition and Equipment Reliability (continued)

- CNS Performance Indicators
 - 6 of 17 reviewed were unsatisfactory or not meeting goal
 - 11 of 17 meeting or exceeding goal
- NRC Performance Indicators

Plant Modifications and Configuration Control

- No CAL improvement plan actions reviewed
- NRC Baseline Inspections
 - Engineering inspection May 2003 did not identify any significant issues
- CNS Performance Indicators
- PIR Inspection (Sept 2003) identified continuing problems with adequacy of operability determinations

Corrective Action Program, Utilization of Industry Operating Experience and Self-Assessment

- 12 CAL improvement plan actions reviewed
- Issues adequately identified, but problems persist with the evaluation of issues and effectiveness of corrective actions
- NRC Baseline Inspections
- CNS Performance Indicators

Engineering Programs

- 1 CAL related improvement plan action reviewed
- NRC Baseline Inspections
- CNS Performance Indicators

Conclusions

- CAL actions completed on schedule
 - Progress is being made in completing actions in each CAL area
 - Continued effort is needed to improve the following areas to an acceptable level
- Human Performance
Material Condition and Equipment Reliability
Corrective Action Program

Nebraska Public Power District

Response

U.S. Nuclear Regulatory Commission

Region IV

Cooper Nuclear Station Inspection Exit Meeting

ENCLOSURE 3

NPPD PRESENTATION SLIDES

ENCLOSURE 3

4th Quarter TIP Inspection NRC Public Meeting

Cooper Nuclear Station
January 22, 2004



Agenda

- ◆ Opening Remarks Stu Minahan
- ◆ Inspection Results & Overall Performance Stu Minahan
- ◆ Human Performance Stu Minahan
- ◆ Corrective Action Program John Christensen
- ◆ Equipment Reliability & Program Improvements Gary Kline
- ◆ Closing Remarks Stu Minahan

Inspection Results & Overall Performance

Stu Minahan
Acting Site Vice President



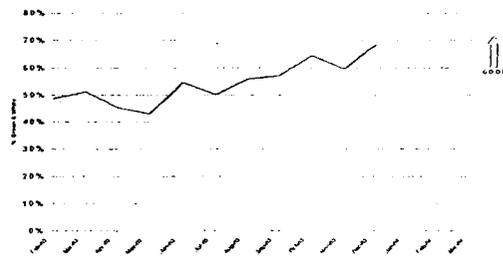
Inspection Results

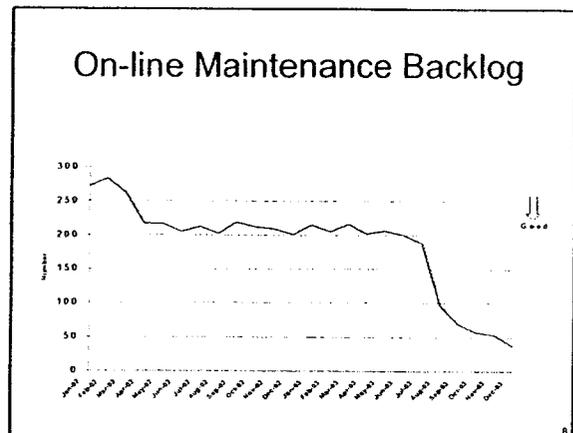
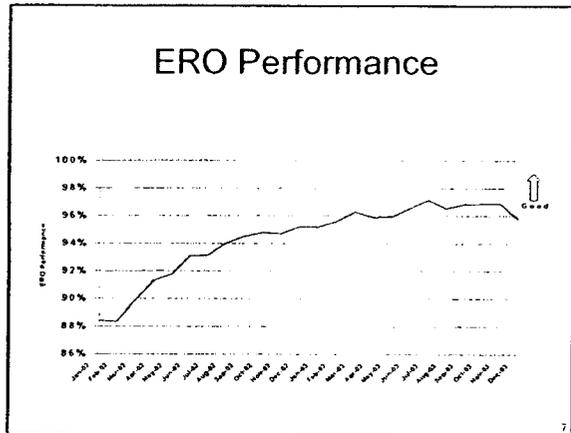
- ◆ CNS has reviewed the NRC results and observations
- ◆ CNS continues to focus on the cross-cutting areas of human performance and corrective action and on equipment issues

Overall Performance

- ◆ Plant Performance

Pillar PI Trend



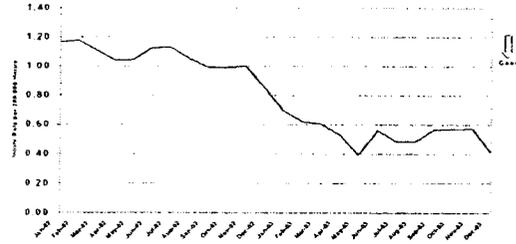


Radiological Event Free Clock Averages

- ◆ 1 Year
 - 18 resets
- ◆ Last 6 Months
 - 6 resets
- ◆ Last 3 Months
 - 2 resets

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OSHA Recordable Injury Rate



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Conclusion

- ◆ Will continue to be one of the critical management focus areas
- ◆ Focus on upcoming refuel outage
- ◆ Future assessments

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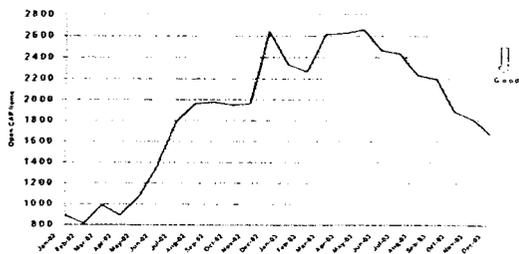
Corrective Action Program

John Christensen
Plant Manager



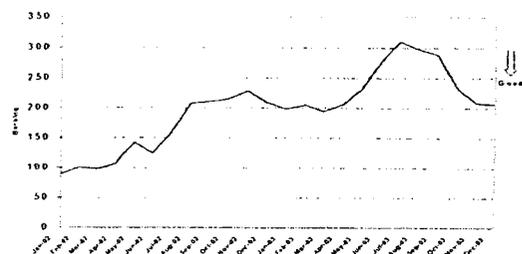
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CAP Open Items

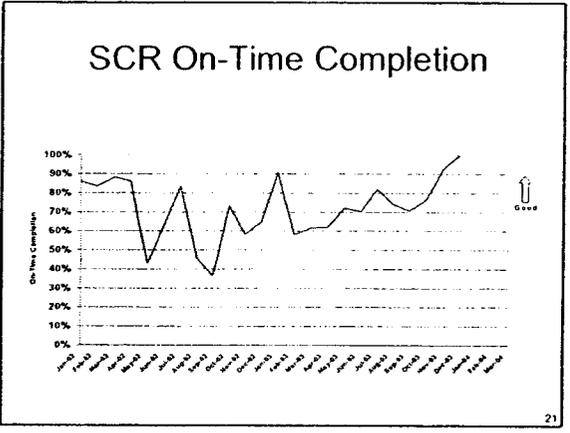
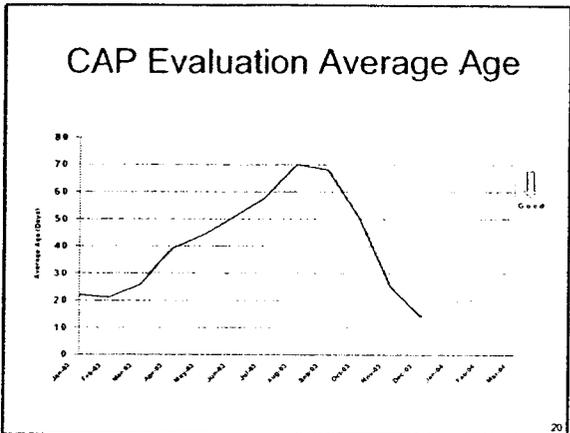
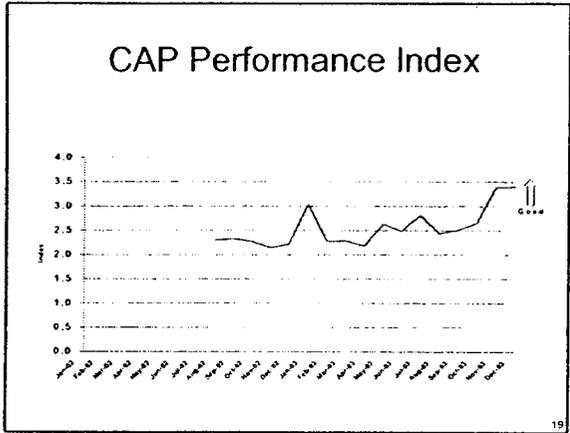


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CAP Backlog



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- ### Recent Improvements
- ◆ Easier to submit items into CAP
 - ◆ Prompt evaluations of adverse conditions
 - ◆ Reduction of CAP Backlog
 - ◆ Improved quality of evaluations and closures
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- ### Operability Determination Improvement Action Plan
- ◆ Core Team Formed
 - Lead by Ops Manager and ESD Manager
 - ◆ Procedures
 - Entergy procedure
 - ◆ Performance
 - OD experts and mentors
 - ◆ Training
 - New qual for experts
 - Focused training
 - ◆ Complete 1st Quarter 2004
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Equipment Reliability & Program Improvements

Gary Kline
General Manager,
Engineering

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Topics

- ◆ Plant Equipment
- ◆ Organization and Process Changes
- ◆ Organizational Behavior
- ◆ Programs / Configuration Management
- ◆ Challenges

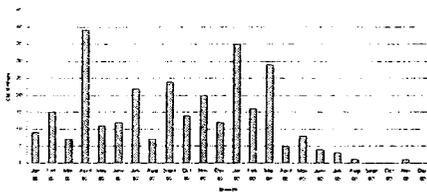
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Plant Equipment

- ◆ Successes
 - Completed Fire Protection Modifications
 - Chemistry Systems
 - Optimum Water Chemistry
 - Service Water
- ◆ Overall Equipment Reliability

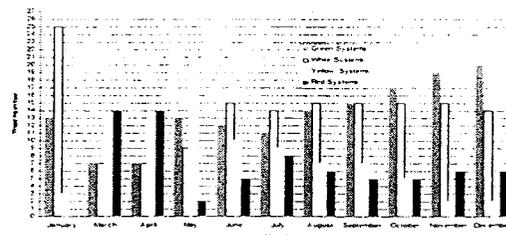
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New Service Water System Corrective Maintenance



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System Health



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Plant Equipment (cont.)

- ◆ Current System Upgrade Initiatives
 - Augmented Off Gas
 - Feedwater Heater Level Control
 - Intake Structure
 - IRM/SRM Performance
 - LP Turbines
 - Thermal Performance
 - Steam Tunnel Fan Coil Units
- ◆ Focused BOP Strategy

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Organization and Process Changes

- ◆ Troubleshooting Procedure Upgrades
- ◆ Added Experienced Managers in Systems and Design
- ◆ Operability Determination Upgrade
- ◆ Workload Management Tools
- ◆ System Engineer Responsibility Shift

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Organization and Process Changes (cont.)

- ◆ Data Archive and Trending Tools
- ◆ Predictive Maintenance Program Development
- ◆ AP-913 Equipment Reliability Project
- ◆ Plant Health Committee
- ◆ System Health Reports
- ◆ Long-range System Plans

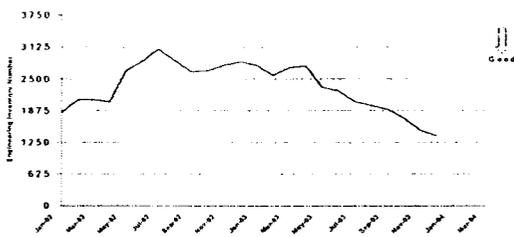
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Organizational Behavior

- ◆ Team Approach to Problem Solving
- ◆ Top 10 Technical Process Focus and Formal Plans
- ◆ System Week Support Liaison
- ◆ Effective Refueling Outage Scoping
- ◆ Approach to Technical Training
- ◆ Engineering Standards and Human Performance
- ◆ Backlog Reduction

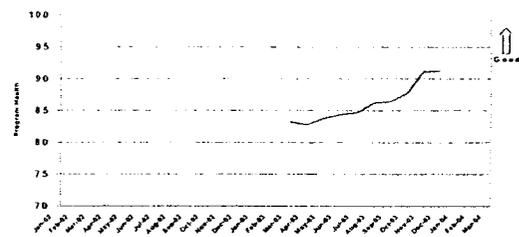
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Engineering Inventory



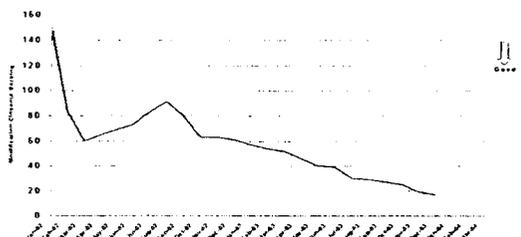
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Program Health



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Modification Closeout Backlog



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Challenges

- ◆ Balance of Plant Material Condition
- ◆ Change Management
- ◆ Workload Management

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Closing Remarks

Stu Minahan
Acting Site Vice President



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