

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

April 19, 2006

R. T. Ridenoure
Vice President
Omaha Public Power District
Fort Calhoun Station FC-2-4 Adm.
P.O. Box 550
Fort Calhoun, NE 68023-0550

SUBJECT: SUMMARY OF FORT CALHOUN STATION END-OF-CYCLE PUBLIC MEETING

Dear Mr. Ridenoure:

This refers to the End-of-Cycle public meeting conducted at Omaha, NE, on April 11, 2006, between the NRC and your staff. The participants discussed performance at Fort Calhoun Station for the period January 1 through December 31, 2005.

The attendance list is enclosed with this summary (Enclosure 1). A copy of the presentation slides is also enclosed (Enclosure 2).

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made 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).

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 "David N. Graves".

David N. Graves, Chief
Project Branch E
Division of Reactor Projects

Docket No: 50-285

License No: DPR-40

Omaha Public Power District

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Enclosures:

1. Attendance List
2. NRC Presentation Slides

cc w/enclosures:

Timothy F. Dunning, Sheriff
Douglas County
3601 N. 156th Street
Omaha, NE 68116

Kyle Hutchings, Chairperson
Douglas County Board of Commissioners
Civic Center
1819 Farnam LC2
Omaha, NE 68183

Steve Lee, Director
Douglas County Emergency
Management Agency
Civic Center, EOC, Room 114
1819 Farnam Street
Omaha, NE 68183

Todd Baber
Emergency Management Agency
Harrison County
111 South 1st Avenue
Logan, IA 51546-1305

Terry Baxter, Sheriff
Harrison County
111 South 1st Avenue
Logan, IA 51546

Robert Smith, Chairman
Harrison County Board of Supervisors
111 North 2nd Avenue
Logan, IA 51546

The Honorable Doris Stillwell
Mayor of Missouri Valley
City Hall
223 E. Erie
Missouri Valley, IA 51555

Terry Hummel, Coordinator
Pottawattamie County Emergency
Management Coordinator
227 S. 6th Street, Court House
Council Bluffs, IA 51501

Loren Knauss, Chairman
Pottawattamie County Board of
Supervisors
227 South 6th Street
Council Bluffs, IA 51501

Mike Robinson, Sheriff
Washington County Courthouse
16th and Colfax
Blair, NE 68008

Gary Fanoele, President
Blair City Council
218 S. 16th Street
Blair, NE 68008

The Honorable Jim Realph
Mayor of Blair
218 South 16th Street
Blair, NE 68008

The Honorable Paul Oestmann
Mayor of Fort Calhoun
P.O. Box 394
Fort Calhoun, NE 68023

David Genoways, President
Fort Calhoun City Council
P.O. Box 577
Fort Calhoun, NE 68023

Bill Pook, Director
Region 5/6 Emergency Management
435 N. Park Avenue, Suite 400
Fremont, NE 68025

Omaha Public Power District

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Dick Hainje, Regional Director
Federal Emergency Management Agency
Region VII
9221 Ward Parkway, Suite 300
Kansas City, MO 64114-3372

Joe I. McManis, Manager - Licensing
Omaha Public Power District
Fort Calhoun Station FC-2-4 Adm.
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Fort Calhoun, NE 68023-0550

John Norris, Chairperson
Department of Commerce
Utilities Division
Iowa Utilities Board
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Des Moines, IA 50319-0069

David J. Bannister
Manager - Fort Calhoun Station
Omaha Public Power District
Fort Calhoun Station FC-1-1 Plant
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Iowa Department of Public Health
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Winston & Strawn
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Washington, DC 20006-3817

Robert Leopold, Administrator
Nebraska Health and Human Services
Division of Public Health Assurance
Department of Regulation and
Licensure
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Lincoln, NE 68509-5007

Chairman
Washington County Board of Supervisors
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Blair, NE 68008

John Blackhawk
Tribal Chairman
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Winnebago, NE 68071-0687

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Nebraska Health & Human Services
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Division of Public Health Assurance
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Omaha Tribal Council
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Macy, NE 68039-0368

Daniel K. McGhee
Bureau of Radiological Health
Iowa Department of Public Health
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Des Moines, IA 50319

Al Berndt, Assistant Director
Nebraska Emergency Management Agency
1300 Military Road
Lincoln, NE 68508-1090

- Electronic distribution by RIV:
- Regional Administrator (**BSM1**)
- DRP Director (**ATH**)
- DRS Director (**DDC**)
- DRS Deputy Director (**RJC1**)
- Senior Resident Inspector (**JDH1**)
- Resident Inspector (**LMW1**)
- Branch Chief, DRP/E (**DNG**)
- Senior Project Engineer, DRP/E (**VGG**)
- Team Leader, DRP/TSS (**RLN1**)
- RITS Coordinator (**KEG**)

SUNSI Review Completed: GLG ADAMS: Yes No Initials: GLG
 Publicly Available Non-Publicly Available Sensitive Non-Sensitive

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RIV/SPE/E	C:DRP/E			
GLGuerra	DNGraves			
<u>GLG</u>				
4/17/06	4/19/06			

OFFICIAL RECORD COPY

T=Telephone

E=E-mail

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END-OF-CYCLE MEETING ATTENDANCE

LICENSEE/FACILITY	Omaha Public Power District/Fort Calhoun Station
DATE/TIME	April 11, 2006 - 6:00 pm
LOCATION	Omaha Marriott 10220 Regency Circle Omaha, NE 68114
NAME (PLEASE PRINT)	ORGANIZATION
DAVID GRAVES	NRC/RTE
Bernadette Madison	NRC/RIV
John David Hanna	NRC/RIV
John Kirkland	NRC/RIV
SANDRA PRICE	NEBRASKA EMERGENCY MANAGEMENT AGENCY (NEMA)
Joe McManis	OPPD
Harry Faulhaber	OPPD
Dave Bannister	OPPD
Jeff Reinhart	OPPD (INPU)
ROSS RIDENOUR	OPPD
Julia Schmitt	NEHHS R+L
Mike Jones	OPPD
MARY TESAR	OPPD

END-OF-CYCLE MEETING ATTENDANCE

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NAME (PLEASE PRINT)	ORGANIZATION
Art Howell	NRC / RTV
Leonard Willoughby	NRC / RTV

Fort Calhoun Station Annual Assessment Meeting

Reactor Oversight Program - CY 2005



Nuclear Regulatory Commission - Region IV

Arlington, Texas

April 11, 2006

Agenda

- Introduction
- Review of Reactor Oversight Process
- National Summary of Plant Performance
- Discussion of Plant Performance Results
- Omaha Public Power District Response and Remarks
- NRC Closing Remarks
- Break
- NRC available to address public questions

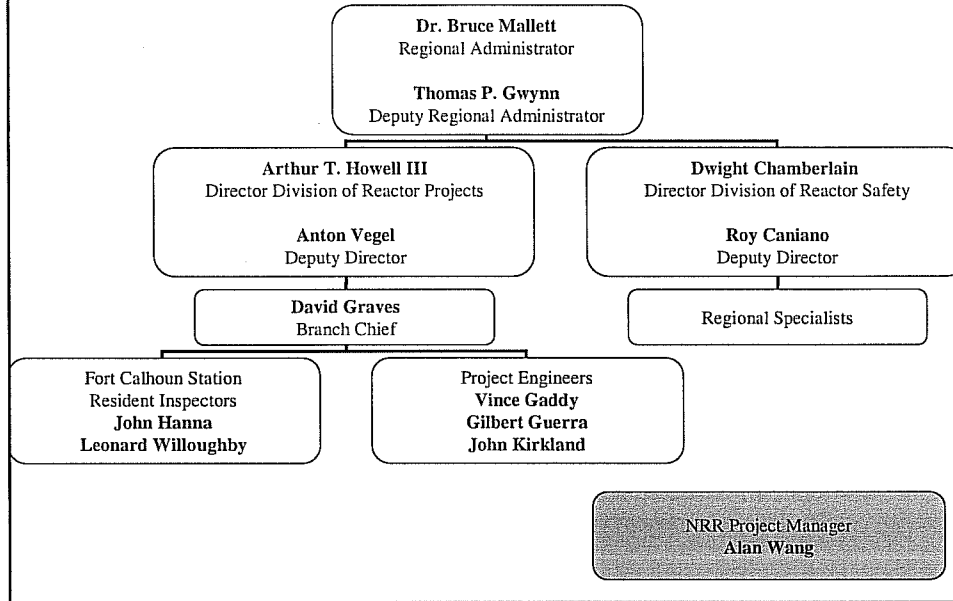
Purpose of Today's Meeting

- A public forum for discussion of Fort Calhoun Station performance
- NRC will address the performance issues identified in the annual assessment letter
- Omaha Public Power District will be given the opportunity to respond to the information in the letter

NRC Representatives

- Art Howell - Director, Division of Reactor Projects
(817) 860-8248
- David Graves - Chief, Project Branch E
(817) 860-8147
- John Hanna - Senior Resident Inspector
(402) 426-9611
- Leonard Willoughby - Resident Inspector
(402) 426-9611

Region IV Organization



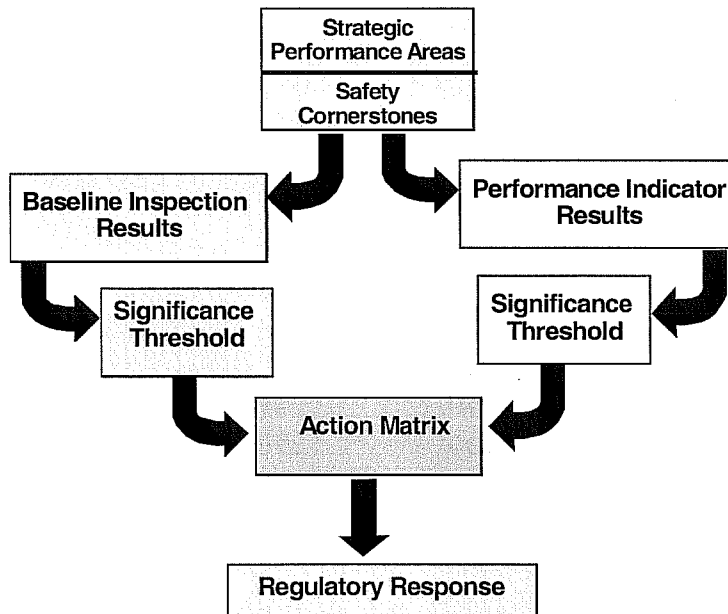
Review of Reactor Oversight Process

John Hanna, Senior Resident Inspector

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
- Management: Ensure excellence in agency management to carry out the NRC's strategic objectives

Reactor Oversight Process



Examples of Baseline Inspections

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

Significance Threshold

Performance Indicators

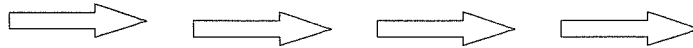
- Green:** Only Baseline Inspection
White: May increase NRC oversight
Yellow: Requires more NRC oversight
Red: Requires more NRC oversight

Inspection Findings

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

Action Matrix Concept

Licensee Response	Regulatory Response	Degraded Cornerstone	Multiple/Rep. Degraded Cornerstone	Unacceptable Performance
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Increasing Safety Significance

Increasing NRC Inspection Efforts

Increasing NRC/Licensee Management Involvement

Increasing Regulatory Actions

National Summary of Plant Performance

Status at End of CY 2005

Licensee Response	84
Regulatory Response	12
Degraded Cornerstone	4
Multiple/Repetitive Degraded Cornerstone	3
Unacceptable	0
Total	103

National Summary

Performance Indicator Results

▶ Green	1850
▶ White	4
▶ Yellow	0
▶ Red	0

Total Inspection Findings

▶ Green	849
▶ White	10
▶ Yellow	1
▶ Red	0

Fort Calhoun Station Performance

Leonard Willoughby, Resident Inspector

Fort Calhoun Station Assessment Results

- Regulatory Response column of the NRC's Action Matrix based on one finding of low to moderate safety significance (White) in the Mitigating Systems Cornerstone involving an emergency diesel generator
- Emergency AC Power System Unavailability PI was White for the first two quarters of 2005

Fort Calhoun Station Inspection Activities

- **Inspection Effort**
 - 1193 Resident Inspection Hours
 - 893 Regional Inspection Hours
- **Team Inspections**
 - Problem Identification and Resolution
 - Safety System Design and Performance Capability
 - Triennial Fire Protection

Fort Calhoun Station Inspection Activities

- **Refueling Outage Inspection**
 - February 26 to May 30, Unit began power reduction in anticipation of refueling outage when the Unit automatically tripped due to improper operation of a main feedwater regulating bypass valve.
 - June 4 to 13, Unit was manually shutdown to repair degraded seals on Reactor Coolant Pumps A and B.
- **Temporary Instruction**
 - TI-150 "Reactor Pressure Vessel Head and Vessel Head Penetration Nozzles"
 - TI-160 "Pressurizer Penetration Nozzles and Steam Space Piping Connections in U.S. Pressurized Water Reactors"
 - TI-161 "Transportation of Reactor Control Rod Drives in Type A Packages"
 - TI-163 "Operational Readiness of Offsite Power"

Fort Calhoun Station Inspection Activities

- **Special Inspection related to Emergency Diesel Generator failure**
- **Supplemental Inspection**
 - Inspection Procedure 95001, "Inspection for One or Two White Inputs in a Strategic Performance Area"
 - Evaluation was comprehensive
 - Corrective actions were appropriate

Safety Significant Findings or Performance Indicators

- One finding of low to moderate safety significance (White)
 - Emergency diesel generator failure
- One White Performance Indicator for first two quarters of 2005
 - Emergency AC power system unavailability
- Twenty three findings of very low safety significance (Green)

Fort Calhoun Station Annual Assessment Summary

- Fort Calhoun Station operated in a manner that preserved public health and safety.
- All cornerstone objectives were met with only one White finding identified.

2006 Planned Inspection Activities

- Baseline Inspection Program
- Inspection Procedure 50001, “Steam Generator Replacement Inspection”
- Inspection Procedure 50003, “Pressurizer Replacement Inspection”
- Inspection Procedure 71007, “Reactor Vessel Head Replacement Inspection”
- TI-165, “Operational Readiness of Offsite Power and Impact on Plant Risk” – Complete

Omaha Public Power District Response and Remarks

Ross T. Ridenoure
Vice President
Fort Calhoun Station
Omaha Public Power District

Closing Remarks

David Graves, Chief, Project Branch E

Contacting the NRC

- Report an emergency
 - ▶ (301) 816-5100 (call collect)
- Report a safety concern
 - ▶ (800) 695-7403
 - ▶ Allegation@nrc.gov
- General information or questions
 - ▶ www.nrc.gov
 - ▶ Select “What We Do” for Public Affairs

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)