



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

May 1, 2007

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, Nebraska, on April 27, 2007, between the NRC and your staff. The participants discussed performance at Fort Calhoun Station for the period January 1 through December 31, 2006.

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,

Jeff Clark, PE, Chief
Project Branch E
Division of Reactor Projects

Docket No: 50-285
License No: DPR-40

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

Larry Oliver
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
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Logan, IA 51546

The Honorable Randy McHugh
Mayor of Missouri Valley
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Missouri Valley, IA 51555

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

Mike Robinson, Sheriff
Washington County Courthouse
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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
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Fort Calhoun, NE 68023

David Genoways, President
Fort Calhoun City Council
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Fort Calhoun, NE 68023

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Region 5/6 Emergency Management
435 N. Park Avenue, Suite 400
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Dick Hainje, Regional Director
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Department of Commerce
Utilities Division
Iowa Utilities Board
350 Maple Street
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Bureau of Radiological Health
Iowa Department of Public Health
Lucas State Office Building, 5th floor
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Nebraska Health and Human Services
Division of Public Health Assurance
Department of Regulation and
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301 Centennial Mall, South
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Winnebago Tribal Council
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Gary Lasley
Tribal Chairperson
Omaha Tribal Council
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Omaha Public Power District

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Chief, Radiological Emergency
Preparedness Section
Kansas City Field Office
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Dept. of Homeland Security
9221 Ward Parkway
Suite 300
Kansas City, MO 64114-3372

Institute of Nuclear Power Operations (INPO)
Records Center
700 Galleria Parkway SE, Suite 100
Atlanta, GA 30339

ANNUAL MEETING ATTENDANCE

LICENSEE/FACILITY Entergy Operations/Fort Calhoun Station
 DATE/TIME April 24, 2007 - 6:00 pm
 LOCATION Marriott Hotel
 10220 Regency Circle
 Omaha, NE

<u>NAME (PLEASE PRINT)</u>	<u>ORGANIZATION</u>
JAN SCHWARZ	NE EMERG. MEET. AGENCY
Leonard Willoughby	NRC RI
John D. Hanna	NRC SRI
Jeff Clark	NRC - Chief
Koss Ridehouse	OPPD
Dave Barnister	OPPD
Julia Schmitt	NE HHS RHL
Jeff Hanson	OPPD
Harry Faulkner	OPPD
Jeff Reinhardt	OPPD
Mike McManis	OPPD
Jeremy Groom	NRC
Bill Pook	Region 5/6 EMA
Sudesh Gamber	OPPD
PAUL JOHNSON	O-DOUGLASS CNTY EMA

Fort Calhoun Station Annual Assessment Meeting

Reactor Oversight Program - CY 2006



Nuclear Regulatory Commission - Region IV

Arlington, Texas

April 24, 2007

Purpose of Today's Meeting

- A public forum for discussion of Fort Calhoun Station's performance
- NRC will address Omaha Public Power District's (OPPD) performance issues identified in the annual assessment letter
- Following our portion of the presentation, OPPD 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

Agenda

- Introduction
- Review of Reactor Oversight Process
- National Summary of Plant Performance
- Discussion of Fort Calhoun Performance Results
- Licensee Response and Remarks
- NRC Closing Remarks
- Break
- NRC available to address public questions

Region IV Organization

Dr. Bruce Mallett
Regional Administrator
Thomas P. Gwynn
Deputy Regional Administrator

Arthur T. Howell III
Director Division of Reactor Projects

Anton Vegel
Deputy Director

Jeff Clark
Branch Chief

Fort Calhoun Station
Resident Inspectors
John Hanna
Leonard Willoughby

Project Engineers
George Replogle, Geoffrey Miller,
John Kirkland, Jeremy Groom

Dwight Chamberlain
Director Division of Reactor Safety

Roy Caniano
Deputy Director

Regional Specialists

NRRR Project Manager
Alan Wang

NRC Representatives

- **Art Howell, Director, Division Reactor Projects**
 - (817) 860-8248
- **Tony Vegel, Deputy Division Director, DRP**
 - (817) 860-8291
- **Jeff Clark, Branch Chief**
 - (817) 860-8147
- **George Replogle, Senior Project Engineer**
 - (817) 860-8249
- **John Hanna, Senior Resident Inspector**
 - (402) 426-9611
- **Leonard Willoughby, Resident Inspector**
 - (402) 426-9611

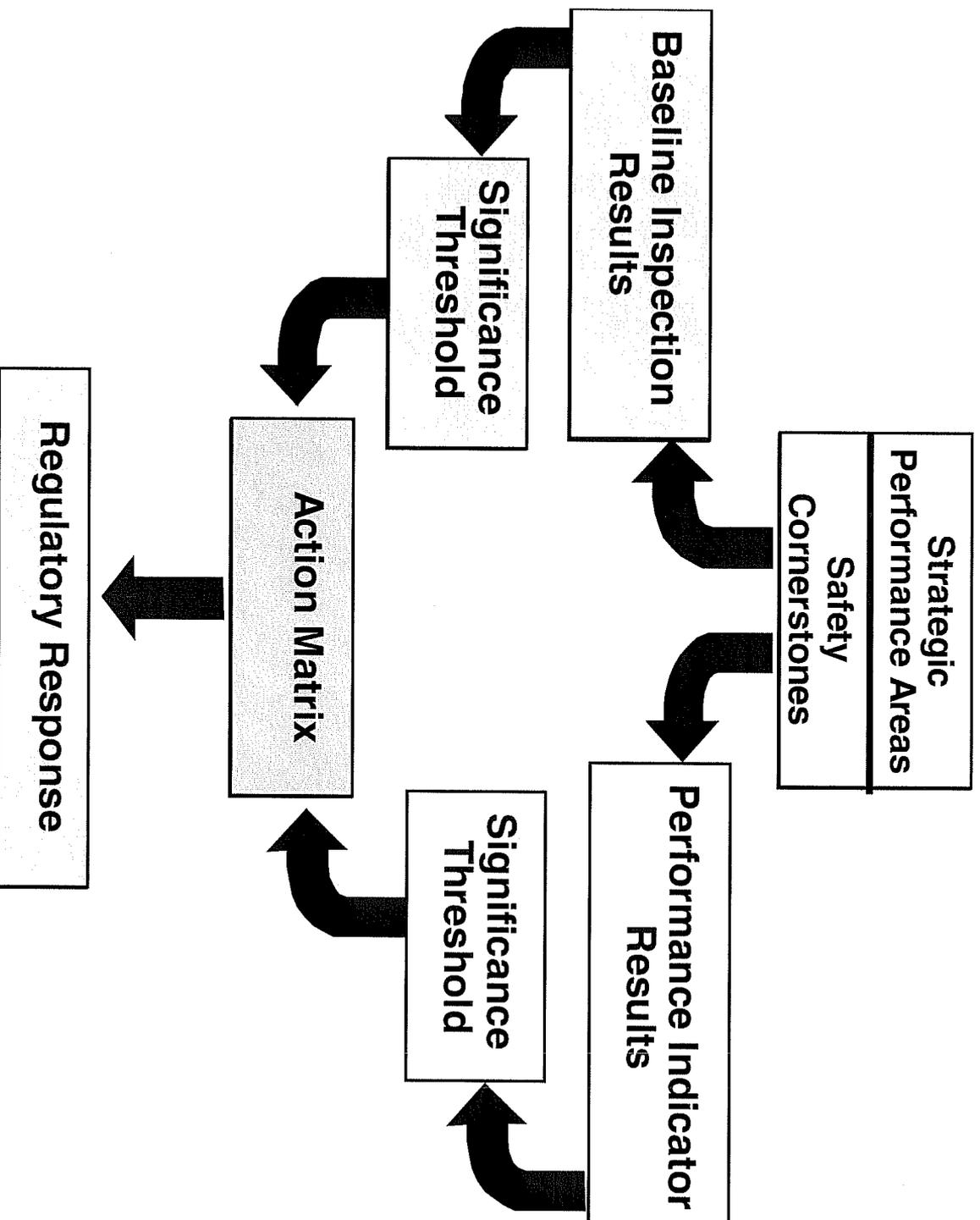
Review of Reactor Oversight Process

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' strategic objective

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
- **Rad 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



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 2006

Licensee Response	70
Regulatory Response	24
Degraded Cornerstone	6
Multiple/Repetitive Degraded Cornerstone	3
Unacceptable	0
Total	103

National Summary

- **Performance Indicator Results (at end of CY 2006)**
 - ▶ **Green** 1843
 - ▶ **White** 11
 - ▶ **Yellow** 0
 - ▶ **Red** 0
- **Total Inspection Findings (CY 2006)**
 - ▶ **Green** 676
 - ▶ **White** 13
 - ▶ **Yellow** 0
 - ▶ **Red** 0

Fort Calhoun Station Performance

Leonard Willoughby, Resident Inspector

Fort Calhoun Station Assessment Results

(Jan 1 - Dec 31, 2006)

- Licensee Response column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all performance indicators indicating performance at a level requiring no additional NRC oversight (Green).

Fort Calhoun Station Inspection Activities

(Jan 1 - Dec 31, 2006)

- **Inspection Effort**
 - 873.2 Resident Inspection Hours
 - 830.9 Regional Inspection Hours
- **Refueling Outage Inspection**
 - September 9 to December 3, refueling outage and replacement of pressurizer, steam generators, and reactor vessel head.

Fort Calhoun Station Inspection Activities

(Jan 1 - Dec 31, 2006)

- **Temporary Instruction**
 - TI-165 “Operational Readiness of Offsite Power and Impact On Plant Risk”
 - TI-169 “Mitigating Systems Performance Index Verification”
- **Refueling Outage Inspection**
 - September 9 to December 3, refueling outage and replacement of pressurizer, steam generators, and reactor vessel head.

Fort Calhoun Station Annual Assessment Summary

(Jan 1 - Dec 31, 2006)

- OPPD operated Fort Calhoun Station in a manner that preserved public health and safety
- All cornerstone objectives were met with eighteen findings of very low safety significance (Green)
- NRC plans baseline inspections at Fort Calhoun Station for the remainder of the assessment period

Criteria for identifying a Substantive Cross-Cutting Issue

- Multiple green or safety significant inspection findings with cross-cutting aspects
- Common theme for causal factors
- Continued concern with the licensee's progress in addressing cross-cutting performance deficiencies

Substantive Cross-Cutting Issue Opened in 2006

- **Human Performance**
 - Thirteen findings with cross-cutting aspects
- **Common performance characteristics**
 - Dominated by problems with the use of error prevention tools
- **NRC to monitor progress during baseline inspection program**
- **Licensee progress will be reviewed during the mid-cycle assessment**

Licensee Response and Remarks

Ross T. Ridenoure

Vice President

Fort Calhoun Station

Omaha Public Power District

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)