



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

June 7, 2007

Charles D. Naslund, Senior Vice  
President and Chief Nuclear Officer  
Union Electric Company  
P.O. Box 620  
Fulton, MO 65251

SUBJECT: SUMMARY OF ANNUAL PERFORMANCE ASSESSMENT MEETING FOR  
CALLAWAY PLANT

Dear Mr. Naslund:

This refers to the meeting conducted in Jefferson City, Missouri on May 31, 2007, to discuss the safety performance at the Callaway Plant between January 1 and December 31, 2006.

Topics discussed in the meeting included the Reactor Oversight Process and the safety performance at the Callaway Plant. Members of the public present at the meeting were allowed to ask questions and comment on the proceedings.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response (if any) will be made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records 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 that reads "Vince G. Gaddy".

Vince G. Gaddy, Chief  
Project Branch B  
Division of Reactor Projects

Docket: 50-483  
License: NPF-30

Union Electric Company

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Enclosures:

1. Attendance List
2. NRC Presentation Slides
3. Callaway Presentation slides

cc w/enclosures:

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## Nuclear Regulatory Commission Public Meeting

May 31, 2007

## Attendance List

Name	Representing
FADI DIYA	AMEREN UE
Adam Heflin	Ameren UE
TIM HERRMANN	AMEREN UE
Dave Shafer	Ameren UE
Charles Naslund	Ameren UE
Steve Patzel	Ameren UE
Les Konuckel	Ameren UE
Edward S. Gray	State Emergency Mgmt Agency
Robert Bachm	Ameren UE
Justin Kelley	Fuller Sch.
MARK REIDMEYER	Public
Kathy Carroll	Ameren UE
DON RICKARD	AMEREN UE
Luke Graessle	Ameren UE
Thad Simmons	Ameren UE
Marshall Griffin	KWMV-FM, St. Louis
Mike Clarry	Ameren UE
Russell Schuler	Osage Co. Commission
Gabe Grayhead	Callaway Commission



**Callaway Plant  
Annual Assessment Meeting**  
Reactor Oversight Program - CY 2006



Nuclear Regulatory Commission - Region IV  
May 31, 2007

**Purpose of Today's Meeting**

- A public forum for discussion of the Callaway Plant's performance
- Open dialogue between Callaway and NRC
  - NRC to discuss Callaway's performance
  - Callaway will be given the opportunity to respond

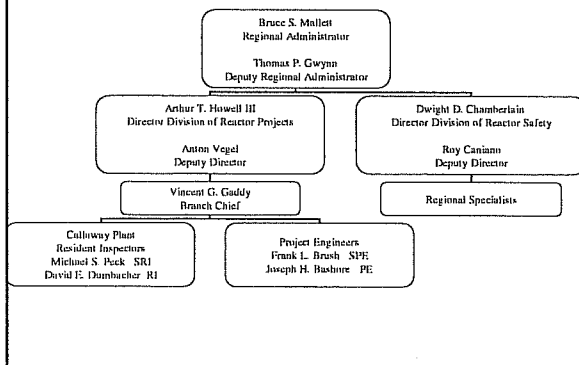
**Agenda**

- Introduction
- Review of Reactor Oversight Process
- National Summary of Plant Performance
- Discussion of Plant Performance Results
- Licensee Response and Remarks
- NRC Closing Remarks
- Question and Answer Session

**NRC Representatives**

- Vincent G. Gaddy, Branch Chief  
(817) 860-8141
- Michael S. Peck, Senior Resident Inspector  
(573) 676-3181
- David E. Dumbacher, Resident Inspector  
(573) 676-3181

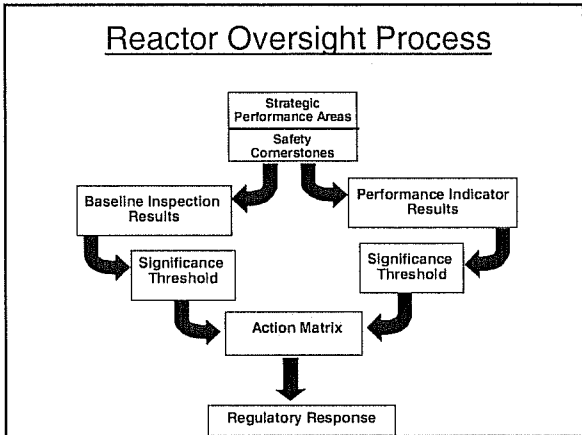
**Region IV Organization**



**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 objective





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

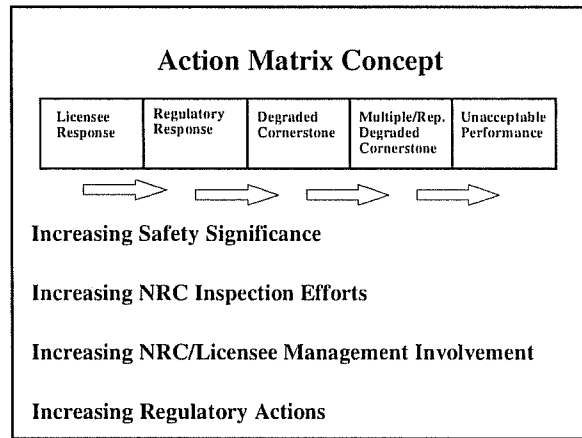
### Significance Threshold

**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 significance issue  
**White:** Low to moderate safety significance issue  
**Yellow:** Substantial safety significance issue  
**Red:** High safety significance issue



### 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
<b>Total</b>	<b>103</b>

- ### Callaway Plant Inspection Activities (January 1 – December 31, 2006)
- Baseline Inspection Program
  - Triennial Fire Protection Inspection
  - Problem Identification and Resolution Inspection
  - Special Inspection – Component Cooling Water Flow
  - Supplemental Inspection – White MSP1

### **Callaway Plant Inspection Activities**

(January 1 – December 31, 2006)

Temporary Instruction Inspections:

- 2515/169, "Mitigating Systems Performance Index Verification"
- TI-165, "Operational Readiness of Offsite Power"

### **Callaway Plant's Assessment Results**

- AmerenUE Operated Callaway in a manner That Preserved Public Health and Safety and Met All Cornerstone Objectives
- One Greater Than Green Performance Indicator -- MSPI (Heat Removal System)
- Regulatory Response Column of NRC Action Matrix
- Problem Identification and Resolution Cross-Cutting Issue -- Opened
- Human Performance Cross-Cutting Issue Discussion

### **Problem Identification and Resolution Substantive Cross-Cutting Issue**

- 14 Findings Related to the Corrective Action Program Component of the Problem Identification and Resolution Area
- Common Causal Factor Theme – Failure to Thoroughly Evaluate Problems
- Verification of Corrective Action Implementation

### **Human Performance Cross-Cutting Criteria**

- More Than 3 Green Findings
- Common Theme – Inadequate Procedures or Work Instructions
- No Concern – Adequate Corrective Action

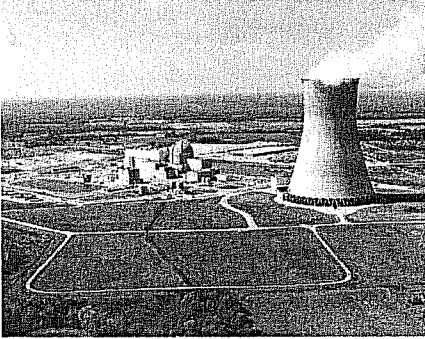
### **2007 Planned Inspection Activities**

- Baseline Inspection Program, including
  - Emergency Preparedness Exercise
  - Radiation Safety Team Inspection
  - Occupational Radiation Safety – Access and ALARA
- Temporary Instructions
  - 2515/166 – PWR Containment Sump Blockage
  - 2515/150 – Reactor Pressure Vessel and Vessel Head Penetration Nozzles

### **Callaway Plant Response**

Mr. Charles Naslund  
Senior Vice President and Chief Nuclear Officer  
Union Electric Company

## Callaway Plant



## 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)

**Ameren UE**

## NRC Public Meeting

2006 Annual Assessment  
AmerenUE Response

C. D. Naslund  
Sr. Vice President & Chief Nuclear Officer

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**Ameren UE**

## Callaway Team

- Chuck Naslund – Senior VP and Chief Nuclear Officer
- Adam Heflin – VP, Nuclear
- Tim Herrmann – VP, Engineering
- Fadi Diya – Director, Plant Operations

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**Ameren UE**

## Summary

- We concur with the NRC’s assessment of Callaway’s performance
  - Actions have been and are being taken to address the issues
- Callaway will continue to operate in a manner that preserves public health and safety
- Callaway’s performance improved in 2006

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**Ameren UE**

## Substantive Cross-Cutting Issue

- Human Performance Substantive Cross-Cutting Issue Was Closed:
  - Reduced number and significance of findings related to procedure compliance
  - Made significant improvements in procedure compliance
  - Continuing focus on procedure quality

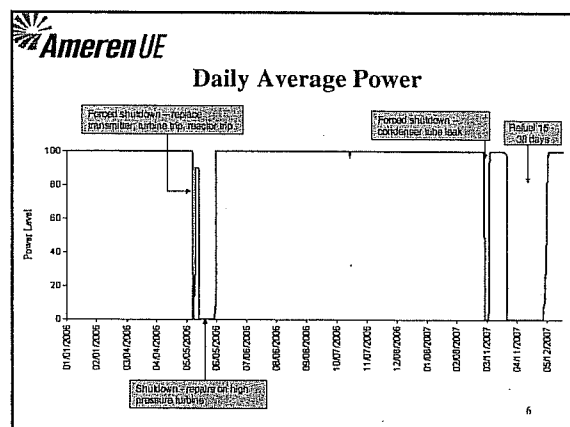
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**Ameren UE**

## Substantive Cross-Cutting Issue

- Substantive Cross-Cutting Issue in Problem Identification and Resolution (PI&R) - March 2007:
  - Strengthened our Corrective Action Program (CAP) process and implemented on 1/31/07
  - Strengthened our knowledge of CAP through training
  - Strengthened our management involvement and oversight
  - Completed significant initiatives to improve rigor and knowledge of design and license basis
  - Have seen improvements in:
    - Operability Determinations
    - Root Cause Evaluations
    - Reduced Recurrence of Significant Events

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## Refuel Outage 15

- No Lost Time injuries
- No Plant Events
- Several modifications that improve plant safety:
  - Replaced 600 feet of small bore and 70 feet of large bore ESW piping
  - Pressurizer weld overlays completed for lowest dose by PCI
  - Replaced Main Steam Isolation Valves
  - Main Generator Exciter Replaced

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## License Application Status

- Work continues with UniStar on study of Callaway as a site for an EPR
- Core borings for the site have been completed
- Environmental report data still being collected
- A Construction and Operating License Application will be submitted for selected sites by UniStar in 2008
- Focus is on standardizing the units to the extent possible

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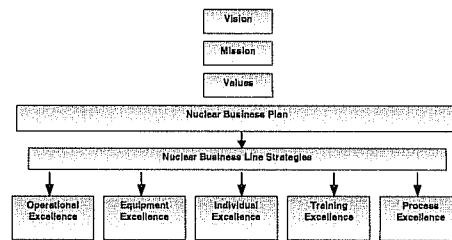
## Going Forward

- Business plan is guiding performance improvement
- Focus for 2007 is on basics, finding and fixing problems
- Excellence strategies :
  - Operational
  - Equipment
  - Individual
  - Training
  - Process
- Objective: Sustained Performance Improvement

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## Five Excellence Strategies



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### **Our Mission:**

To Safely, Reliably, and Efficiently  
Generate Electricity

### **Our Vision:**

To be THE Performance Leader in  
the Nuclear Industry

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Electronic distribution by RIV:  
 Regional Administrator (**BSM1**)  
 DRP Director (**ATH**)  
 DRS Director (**DDC**)  
 DRS Deputy Director (**RJC1**)  
 Senior Resident Inspector (**MSP**)  
 Branch Chief, DRP/B (**VGG**)  
 Senior Project Engineer, DRP/B (**FLB2**)  
 Team Leader, DRP/TSS (**CJP**)  
 RITS Coordinator (**MSH3**)

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

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RIV/C:DRP/B				
VGGaddy				
/RA/				
6/7/07				