



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011-8064

APR 24 2002

Garry L. Randolph, Senior Vice
President and Chief Nuclear Officer
Union Electric Company
P.O. Box 620
Fulton, Missouri 65251

SUBJECT: ANNUAL PERFORMANCE ASSESSMENT MEETING FOR CALLAWAY PLANT

Dear Mr. Randolph:

This refers to the meeting conducted in Jefferson City, Missouri, on April 22, 2002, to discuss the safety performance at Callaway Plant between April 1 and December 31, 2001.

Topics discussed during the meeting included the Reactor Oversight Process, the safety performance at Callaway Plant, and other topics that may have been of interest to the local area residents. Members of the public present at the meeting were allowed to ask questions and comment on the proceedings.

In accordance with Section 2.790 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter will be placed in the NRC's Public Document Room.

Should you have any questions concerning this matter, we will be pleased to discuss them with you.

Sincerely,

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

Docket: 50-483
License: NPF-30

Enclosures:
1. Attendance List
2. Presentation Slides

Union Electric Company

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cc:

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Administrator
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Electronic distribution by RIV:
Regional Administrator (**EWM**)
DRP Director (**KEB**)
DRS Director (**ATH**)
Senior Resident Inspector (**VGG**)
Branch Chief, DRP/B (**DNG**)
Senior Project Engineer, DRP/B (**RAK1**)
Staff Chief, DRP/TSS (**PHH**)
RITS Coordinator (**NBH**)

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RIV	C	DRP/B			
DNG		Graves,df			
<i>PHH</i>					
4/24/02					

OFFICIAL RECORD COPY

T=Telephone

E=E-mail

F=Fax

END-OF-CYCLE MEETING ATTENDANCE

LICENSEE/FACILITY	AmerenUE / Union Electric Company / Callaway Plant
DATE/TIME	April 22, 2002; 7:00 p.m.
LOCATION	Capital Plaza Hotel Jefferson City, Missouri
NAME (PLEASE PRINT)	ORGANIZATION
RON AFFOLTZ	AMEREN UE
JANIE AFFOLTZ	PUBLIC
Edward S. Gandy	Missouri Emergency Management Agency
Chris Toksa	Columbia Missourian
STAN CRAWFORD	Ameren UE
Ronald Roselius	Ameren UE
Mike Taylor	Ameren UE
H. Dineen	Ameren UE
Bill Zuzendie	KMIZ TV
Mike Cleary	Ameren Services
John Blosser	Ameren & Public
LEE FRITZ	Callaway County
Battie White	Public

END-OF-CYCLE MEETING ATTENDANCE

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LOCATION	Capital Plaza Hotel Jefferson City, Missouri
NAME (PLEASE PRINT)	ORGANIZATION
Warren A. Witt	Ameren UE.
Jim Peavy	Ameren UE
ANDY KOHM	RETIRED
MARK A. REIDMEIER	Ameren UE
David Graves	NRC
John David Hanna	NRC
Matthew J. Schmitz	Media
Rodney Garnett	CALLAWAY Co. Commissioner
Debra Morgan	(media) Zimmer Radio Group
RAY THOMPSON	INTERESTED PERSON
Jon Stambaugh	AMEREN-UE CALLAWAY PLANT
Terri Stambaugh	Interested Party
TIM HERRMANN	AMERENUE

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LICENSEE/FACILITY	AmerenUE / Union Electric Company / Callaway Plant
DATE/TIME	April 22, 2002; 7:00 p.m.
LOCATION	Capital Plaza Hotel Jefferson City, Missouri
NAME (PLEASE PRINT)	ORGANIZATION
H. LYNN STEHLMAN	RETIREE
Garry Randolph	Ameren
Kristin Carlson	KUIC
Rmilon + Scott Huckstep	Citizen
J. V LAUX	AMEREN
Steve Petee/	Ameren - Public
Matt DEZAN	Public
Kristie Hilgedich	News Tribune
Paula Markov	KECH
Mike Evans	Ameren UE
Jammy Johnson	UP Bank
DAVID W. JOHNSON	AMEREN UE
Scott Sandbothy	Ameren UE

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LOCATION	Capital Plaza Hotel Jefferson City, Missouri
NAME (PLEASE PRINT)	ORGANIZATION
Luke Grassle	AmerenUE
Leon Bender	Mo PSC
VINCENT GADDY	NRC
Roselle Sched	Self
Jim LANDE	MISSOURI DEPT. OF NATURAL RESOURCES P.O. Box 176, J.C., MO 65102
Joe Beckland	MDC
Danie Moore	State Representative Dist. 20
CAR. VOTER	LEGISLATURE 114
BONNIE MAE DUNLAP	SELF
Chris [unclear]	KOMU

ENCLOSURE 2

**ANNUAL ASSESSMENT
MEETING**



**Nuclear Regulatory Commission
Region IV**

NRC Personnel

Ken Brockman	Director, Division of Reactor Projects
David Graves	Chief, Project Branch B Division of Reactor Projects
Vincent Gaddy	Senior Resident Inspector Callaway Plant
John Hanna	Resident Inspector Callaway Plant
Dawn Yancey	Site Secretary Callaway Plant



NRC Meeting Guidelines

- **Registration Table**
- **Questions and Answers**
- **Handouts**
- **Feedback Forms**

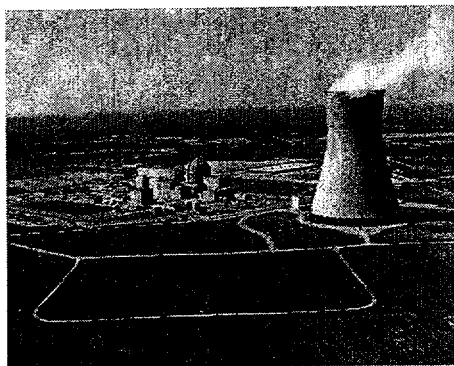


Meeting Agenda

- **REGULATORY OVERSIGHT**
- **FINDINGS AND ASSESSMENTS**
- **ADDITIONAL FOCUS AREAS**
- **QUESTIONS AND ANSWERS**

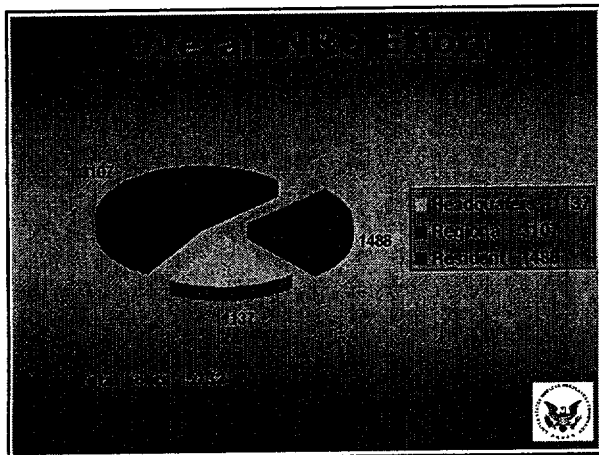


Callaway Plant

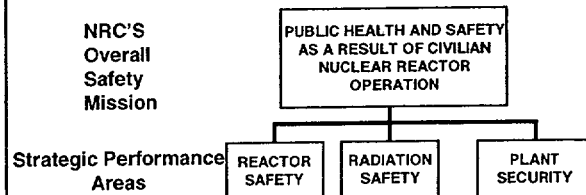


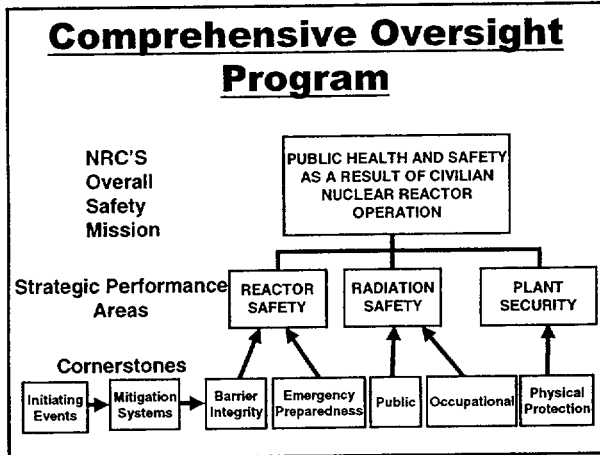
NRC PERFORMANCE GOALS


- **Maintain public safety and protect the environment**
- **Enhance public confidence**
- **Improve:**
 - Effectiveness
 - Efficiency
 - Realism of processes and decision making
- **Reduce unnecessary regulatory burden**

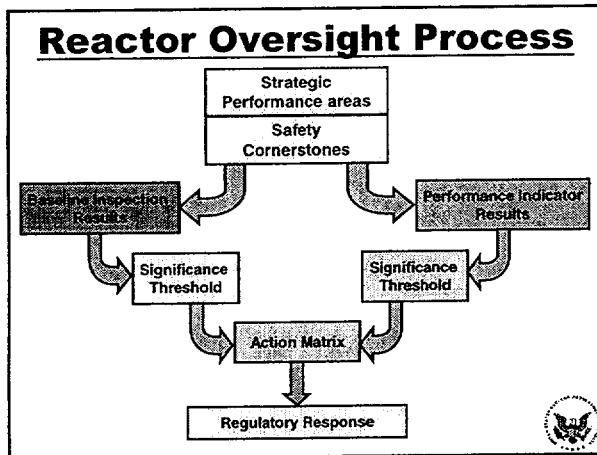


Comprehensive Oversight Program





- ### NRC Oversight Activities
- Provide assurance plants are:
 - Operating safely
 - Complying with regulations
 - Based on a logical and sound framework
 - Inspections focused on key safety areas
 - Objective indicators of performance
 - Assessment program triggers regulatory actions
- 



Reactor Oversight Process

SAFETY SIGNIFICANCE	
GREEN	- very low
WHITE	- low to moderate
YELLOW	- substantial
BLACK	- high

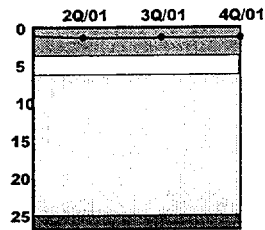
Performance Indicators

- Provide objective measures
- Indicators for all Strategic Areas
- NRC verifies through inspections



Performance Indicators

Unplanned Scrams per 7000 critical hours



Thresholds:

White >3.0,

Yellow >6.0,

Red >25.0

Unplanned scrams per 7000 critical hours	2Q/01	3Q/01	4Q/01
Actual scrams	0	0	0
Critical hours	1139.0	2208.0	2132.0
Indicator value	0.9	0.9	0.9

Resident Inspectors

- Stationed at the plant
- Prompt response capability
- Over 1400 hours of oversight



Regional Inspectors

- Specialized
- Inspection teams
- Over 3100 hours of oversight



Baseline Inspection Program

- **Gathers objective evidence of plant safety**
- **Conducted at all plants**
- **Focuses on safety-significant:**
 - systems
 - components
 - activities
 - events



Event Follow-up and Supplemental Inspections

- **Review events for significance**
- **Follow-up significant inspection findings**
- **Determine causes of performance declines**
- **Provide for graduated response**



Inspection Reports

- **Inspection reports describe more than minor findings and non-compliance**
- **Inspection reports are publicly accessible**

www.NRC.gov/reading-rm/adams.html




Key Aspects of the Assessment Program

- **Objective review of licensee performance**
- **"Action Matrix" to determine agency response in three areas:**
 - Inspection
 - Management Involvement
 - Regulatory Actions
- **Plant specific assessment letters**
- **Information on NRC public web site**



ACTION MATRIX

	Licensee Response Column	Regulatory Response Column	Degraded Conformance Column	Multiple/Repetitive Degraded Conformance Column	Unacceptable Performance Column
RESULTS	All Assessment Inputs (Performance Indicators (PIs) and Inspection Findings Given; Conformance Objectives Fully met	One or Two White Inputs (if different conformance) in a Strategic Performance Area; Conformance Objectives Fully met	One Ungraded Conformance (2 White inputs or 1 Yellow input) or any 2 White Inputs in a Strategic Performance Area; Conformance Objectives met with no additional degradation in safety performance	Repetitive Ungraded Conformance, Multiple Degraded Conformance, Multiple Yellow Inputs, or 1 Red Input; Conformance Objectives met with long-standing issues or Significant degradation in Safety performance	Overall Unacceptable Performance; plants not permitted to operate within this band; Unacceptable Margin to Safety
RESPONSE	Regulatory Performance Meetings None Licensee Corrective Action None NRC Inspection None Regulatory Actions ¹ None	Branch Chief (BC) or Division Director (DD) meet with Licensee Licensee not cause Evaluation and corrective Action with NRC oversight Baseline and supplemental inspection procedure 95001 Supplemental inspection only	DD or Regional Administrator (RA) meet with Licensee Licensee corrective root cause evaluation with NRC oversight Baseline and supplemental inspection procedure 95002 Supplemental inspection only	RA (or EDO) meet with Senior Licensee Management Licensee Performance Improvement Plan with NRC oversight Baseline and supplemental inspection procedure 95000 -10 CFR 50.54(f) Letter -CAL Order	Commission meeting with Senior Licensee Management Order to modify, suspend, or revoke licensed activities
COMMUNICATION	Assessments Letters None Annual Public Meeting None Commission Involvement None	DD or DD reviewing Assessment report (w/ inspection plan) BC or DD meet with Licensee None	RA reviewing assessment report (w/ inspection plan) RA (or Deputy) discuss performance with Licensee None	RA reviewing assessment report (w/ inspection plan) EDO discuss performance with Senior Licensee Management Plant discussed at AARM	Commission Meeting with Senior Licensee Management
					

Note 1: The regulatory actions for plants in the Multiple/Repetitive Degraded Conformance column are not mandatory agency actions. However, the regional office should consider each of these regulatory actions when significant new information regarding licensee performance becomes available.



Plant Performance Summary

Performance Indicator Results

All performance indicators within the Licensee Control Band



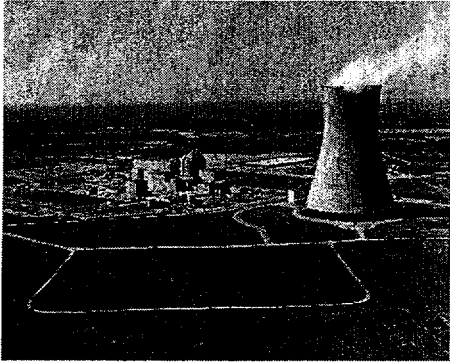
Inspection Results

A White Finding

Inoperable essential service water pump



Callaway Plant



Assessment Results

- Began assessment period in Degraded Cornerstone Column
- Ended assessment period in Regulatory Response Column
- Supplemental Inspection (95002) completed in February 2002



Assessment Conclusion

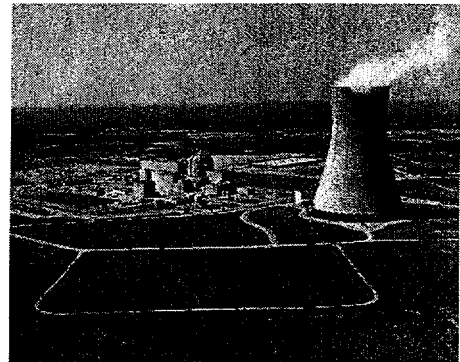
Licensee effectively managed:

- Reactor safety
- Radiation safety
- Plant security

Callaway Plant operated in a manner that protected the health and safety of the public



Callaway Plant



Additional Focus Areas

- **NRC Responds as needed**
- **Mandated Licensee Actions**
- **Implemented Emergency Preparedness**

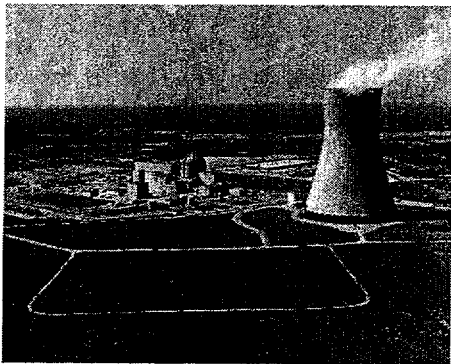


Reactor Vessel Head Degradation Issues

- **NRC Bulletin 2001-01 "Circumferential Cracking of Reactor Pressure Vessel Head Penetration Nozzles"**
- **NRC Bulletin 2002-01 "Reactor Pressure Vessel Head Degradation and Reactor Coolant Pressure Boundary Integrity"**



Callaway Plant



Reaction to September 11

- **Activated Facilities**
- **Issued Advisories**
- **Verified Implementation**



Reaction to September 11

- **Coordinated with other agencies**
- **Updated advisories as terrorist threat changed**
- **Verified implementation**

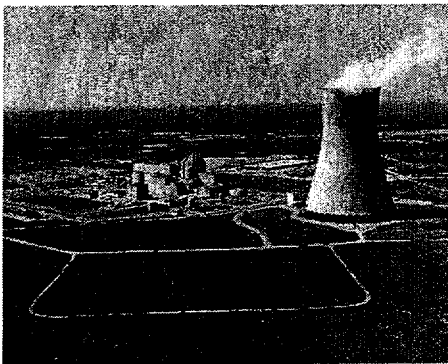


Reaction to September 11

- **Ordered increase in minimum security requirements**
- **Reviewing security regulations considering our changed environment**



Callaway Plant



Conclusions

- **Assured Public Safety**
- **Flexible/Predictable Response**
- **Risk-informed Programs**



Contacting the NRC

- Report a **Safety Concern**:
(800) 695-7403 or Allegation@nrc.gov
- General Information or questions:
www.nrc.gov
- Report an **Emergency**:
(301) 816-5100 (collect)

Select "What we do" for Public Affairs