



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

April 9, 2003

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 1, 2003, to discuss the safety performance at Callaway Plant between January 1 and December 31, 2002.

Topics discussed during the meeting included the Reactor Oversight Process, the safety performance at Callaway Plant, nuclear industry issues, 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,

/RA/

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

Docket: 50-483
License: NPF-30

Enclosures:

1. Attendance List
2. Presentation

Union Electric Company

-2-

cc:

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-3-

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Mr. Robert Rankin
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Callaway County Courthouse
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-4-

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-5-

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-6-

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Mr. Carl Fowler
Sheriff, Osage County

Union Electric Company

-7-

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Mr. Richard A. Ratliff, Chief
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Texas Department of Health
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Electronic distribution by RIV:
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 DRP Director (**ATH**)
 DRS Director (**DDC**)
 Senior Resident Inspector (**MSP**)
 Branch Chief, DRP/B (**DNG**)
 Senior Project Engineer, DRP/B (**RAK1**)
 Staff Chief, DRP/TSS (**PHH**)
 RITS Coordinator (**NBH**)
RidsNrrDipmlipb

ADAMS: G Yes G No Initials: _____
 G Publicly Available G Non-Publicly Available G Sensitive G Non-Sensitive

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RIV:PE:DRP/B	C:DRP/B			
JLDixon;df	DNGraves			
/RA/	/RA/			
4/9/03	4/9/03			

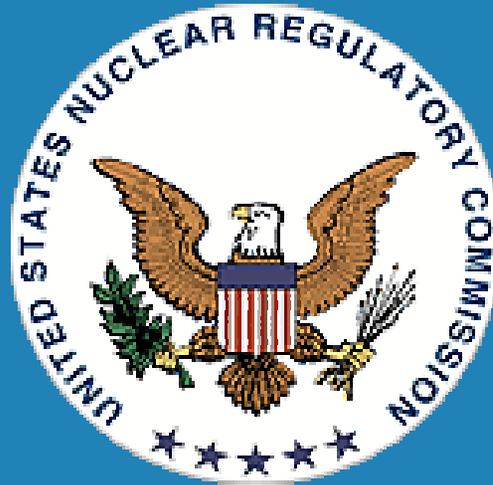
ANNUAL ASSESSMENT MEETING ATTENDANCE

LICENSEE/FACILITY	Ameren UE/ Union Electric Company Callaway Plant
DATE/TIME	April 1, 2003 -- 7:00 pm
LOCATION	Capitol Plaza Hotel and Convention Center 415 West McCarty Street Jefferson City, MO
NAME (PLEASE PRINT)	ORGANIZATION
MARK REIDMEYER	Ameren UE
LEG FRITZ	Callaway County
Steve Petzel	Ameren UE
David Shofer	Ameren UE
David Graves	NRC
Michael Peca	NRC
Ellis Menschaff	NRC
Dawn Youcey	NRC
Michael R. Cleary	Ameren Services
Bob Kelly	RETIRED
Judy Kelly	RETIRED
Warren Witt	Ameren UE
RON AFFLECTOR	AMEREN UE

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NAME (PLEASE PRINT)	ORGANIZATION
JANICE AFFOLTER	PUBLIC
Tim Heremana	AMEREN UE
Bob Rankin	CALLAWAY CO. Commission
Garry L Randolph	Ameren UE
Tom LANGE	MISSOURI DNR, J.C.
Matt Schmitz	JC NEWS TRIBUNE
Luke Graessle	Ameren UE
Mark Klein	Lincoln Univ
Justin W Hiller	Ameren UE
ALAN BAX	Public
Edward S. Gay	STATE EMERGENCY Management Agency

ANNUAL ASSESSMENT MEETING



Nuclear Regulatory Commission

Region IV

NRC Meeting Purpose

- **Meeting with Licensee and Public**
- **Inform Public of Plant Performance**



NRC Meeting Guidelines

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



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**



NRC Personnel

Ellis Merschhoff Regional Administrator, RIV

David Graves Chief, Project Branch B
Division of Reactor Projects

Michael Peck Senior Resident Inspector
Callaway Plant



Meeting Agenda

- **Regulatory Oversight**
- **Findings and Assessments**
- **Additional Focus Areas**
- **Questions and Answers**



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**



Comprehensive Oversight Program

**NRC'S
Overall
Safety
Mission**

**PUBLIC HEALTH AND SAFETY
AS A RESULT OF CIVILIAN
NUCLEAR REACTOR
OPERATION**

**Strategic Performance
Areas**

**REACTOR
SAFETY**

**RADIATION
SAFETY**

**PLANT
SECURITY**

Cornerstones

**Initiating
Events**

**Mitigation
Systems**

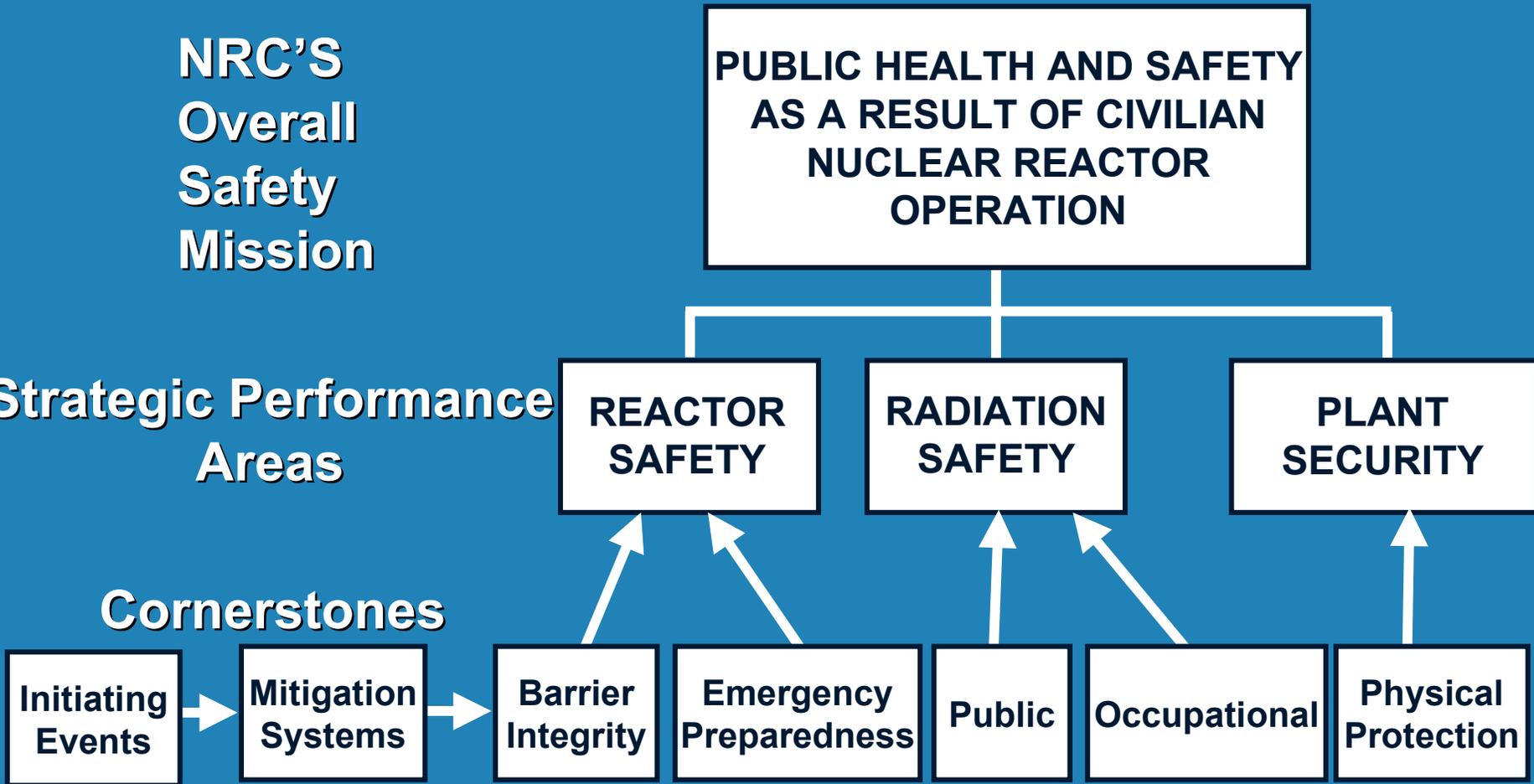
**Barrier
Integrity**

**Emergency
Preparedness**

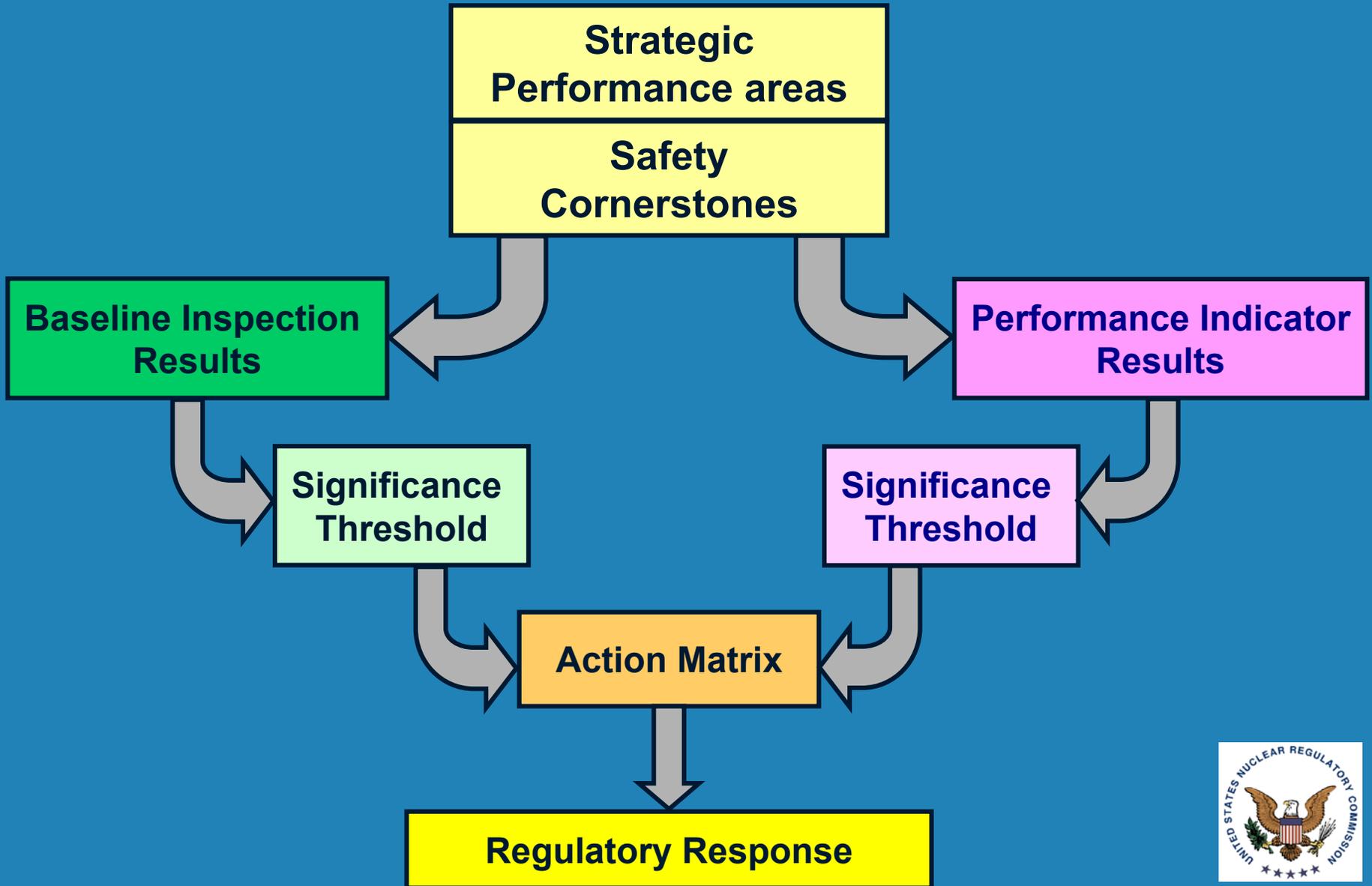
Public

Occupational

**Physical
Protection**



Reactor Oversight Process



Reactor Oversight Process

SAFETY SIGNIFICANCE

GREEN

- Very low

WHITE

- Low to moderate

YELLOW

- Substantial

RED

- High



Performance Indicator Program

- **Licensee monitors key safety parameters**
- **Data supplied to NRC quarterly**
- **Reviewed by Inspectors**



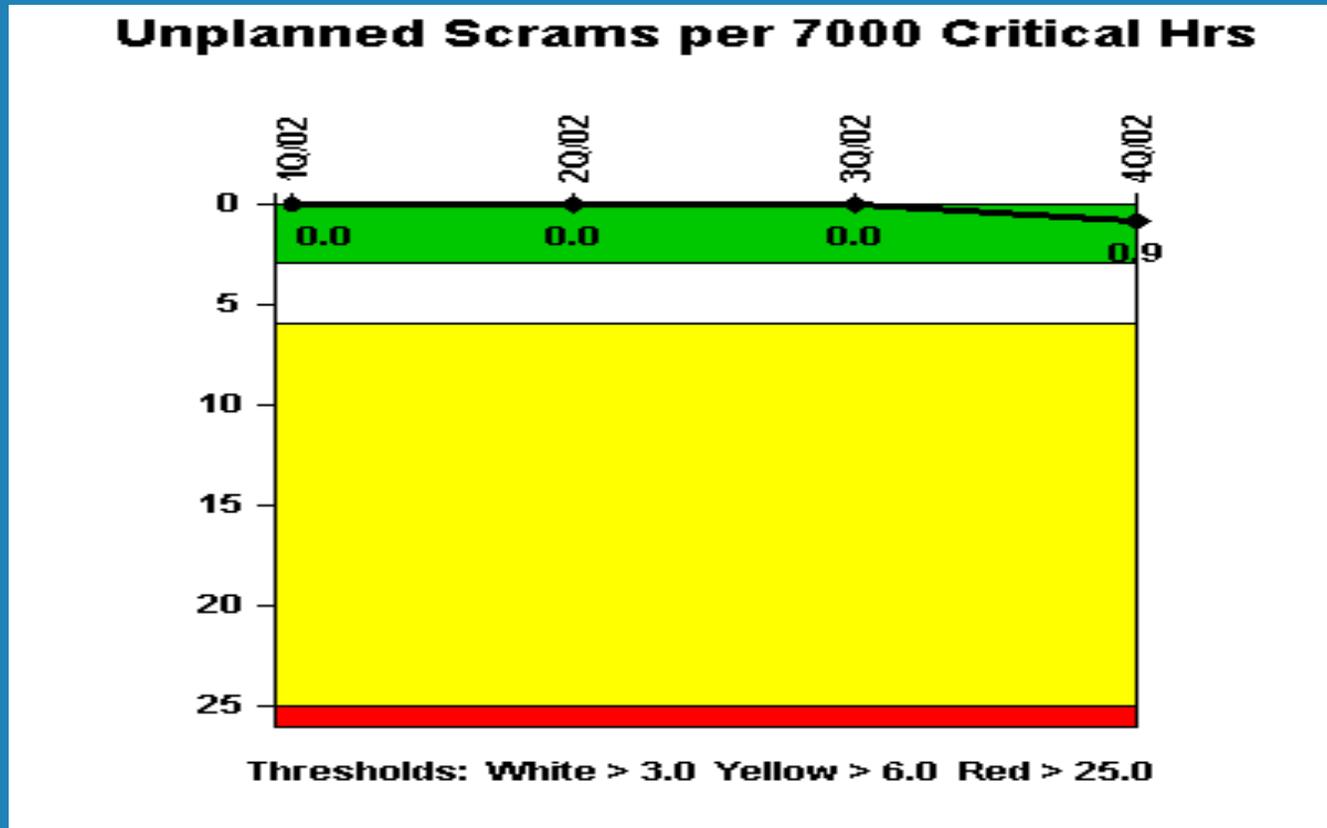
Performance Indicators

- **Performance indicator results and other assessment information available on the NRC's public web site:**

**[www.NRC.gov/NRR/OVERSIGHT/
ASSESS/CALL/call_chart.html](http://www.NRC.gov/NRR/OVERSIGHT/ASSESS/CALL/call_chart.html)**



Performance Indicators



	1Q/02	2Q/02	3Q/02	4Q/02
Unplanned Scrams	0	0	0	1
Critical Hours	1840	2183	2208	1323
Indicator Value	0	0	0	0.9



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

- **Describe findings and non-compliances**
- **Publicly accessible**

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



Resident Inspectors

- **Stationed at the plant**
- **Prompt response capability**
- **Over 2600 hours of oversight**

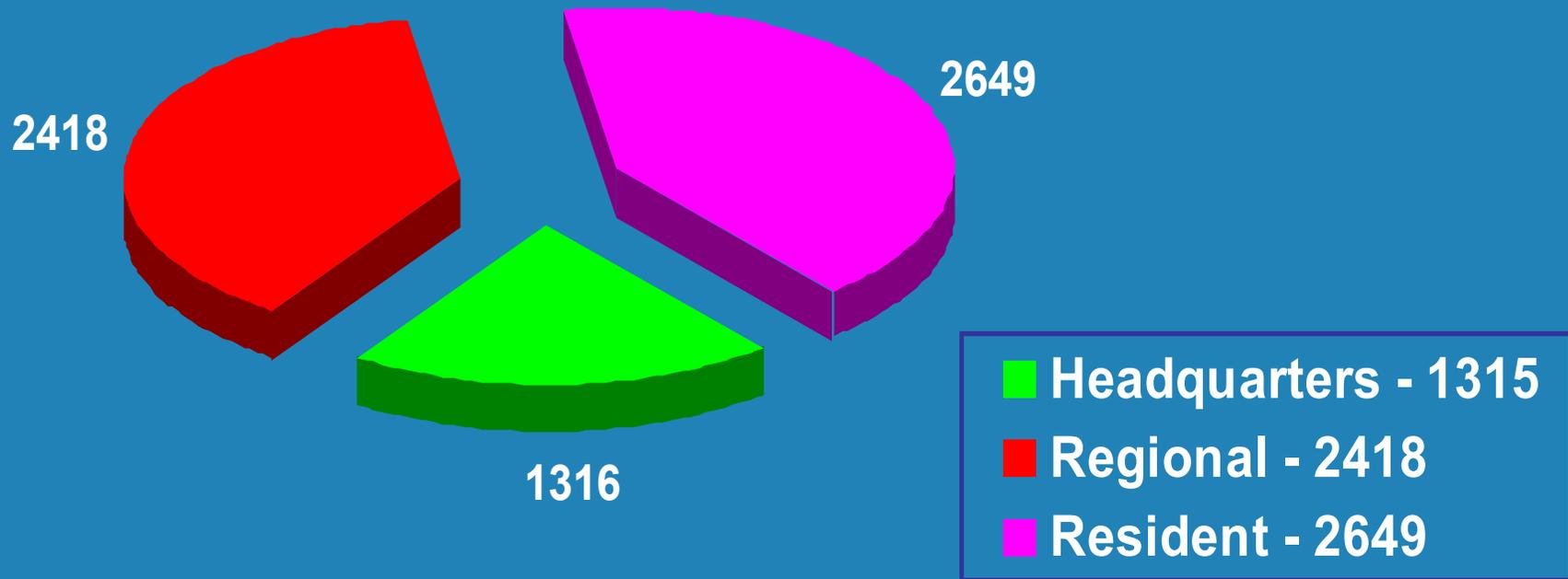


Regional Inspectors

- **Specialized**
- **Inspection teams**
- **Over 2400 hours of oversight**



Overall NRC Effort



Total hours - 6383

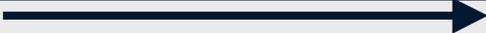


Key Aspects of the Assessment Program

- **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 Cornerstone Column	Multiple/Repetitive Degraded Cornerstone Column	Unacceptable Performance Column
RESULTS		All Assessment Inputs (Performance Indicators (PI's) and Inspection Findings Green; Cornerstone Objectives fully met	One or Two White Inputs (in different cornerstones) in a Strategic Performance Area; Cornerstone Objectives fully met	One Degraded Cornerstone (2 White inputs or 1 Yellow Input) or any 3 White Inputs in a Strategic Performance Area; Cornerstone Objectives met with moderated degradation in safety performance	Repetitive Degraded Cornerstone, Multiple Degraded Cornerstones, Multiple Yellow Inputs, or 1 Red Input; Cornerstone Objectives met with longstanding 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 Meeting	None	Branch Chief (BC) or Division Director (DD) meet with Licensee	DD or Regional Administrator (RA) meet with Licensee	RA (or EDO) meet with Senior Licensee Management	Commission meeting With Senior Licensee Management
	Licensee Action	Licensee Corrective Action	Licensee root cause Evaluation and corrective Action with NRC oversight	Licensee cumulative root cause evaluation with NRC oversight	Licensee Performance Improvement Plan with NRC oversight	
	NRC Inspection	Risk-Informed Baseline Inspection Program	Baseline and supplemental inspection procedure 95001	Baseline and supplemental inspection procedure 95002	Baseline and supplemental inspection procedure 95003	
	Regulatory Actions ¹	None	Supplemental inspection only	Supplemental inspection only	-10 CFR 2.204 DFI -10 CFR 50.54(f) Letter -CAL/Order	Order to modify, Suspend, or revoke licensed activities
COMMUNICATION	Assessment Letters	BC or DD review/sign Assessment report (w/ inspection plan)	DD review/sign assessment report (w/ inspection plan)	RA reviews/sign assessment report (w/ inspection plan)	RA review/sign assessment report (w inspection plan)	
	Annual Public Meeting	SRI or BC meet with Licensee	BC or DD meet with Licensee	RA (or designee) discuss performance with Licensee	EDO discuss performance with Senior Licensee Management	
	Commission Involvement	None	None	None	Plant discussed at AARM	Commission Meeting with Senior Licensee Management
INCREASING SAFETY SIGNIFICANCE 						

Note 1: The regulatory actions for plants in the Multiple/Repetitive Degraded Cornerstone 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.

ROP Action Matrix **Summary for 2002**

	Licensee Response	Regulatory	Degraded Cornerstone	Multiple/ Repetitive Degraded Cornerstone	Unacceptable Performance
Nationwide	59	33	7	3	0
Region IV	13	5	2	1	0

Does not include Davis Besse



Plant Performance Summary



Performance Indicator Results

- **All performance indicators within the Licensee Response Band**



Inspection Results

- **Mitigating Systems safety significant inspection finding**
- **Problem Identification and Resolution substantive cross-cutting issue**



White Finding

- **Mitigating Systems Cornerstone**
- **Failed to promptly identify and correct a significant condition adverse to quality**
- **Moderate safety significance**



Cross-cutting Issue

- **NRC identified adverse trend**
 - **Problem Identification and Resolution**



Problem Identification **and Resolution**

- **Several issues contributed to the White finding and multiple Green findings**



Assessment Results

- **Began assessment period in Degraded Cornerstone Column**
- **Ended assessment period in Regulatory Response Column**
- **Substantive cross-cutting issue in PI&R - Additional PI&R inspection**



Assessment Conclusions

- **Public health and safety assured**
- **Strategic Area objectives met with moderate degradation in safety performance**
- **Performance issues warrant additional inspection**



LICENSEE RESPONSE

Nuclear Industry Issues

- **Reactor Vessel Head Degradation**
- **Power Plant Security**



Reactor Vessel Head Degradation

- **NRC Bulletin 2002-01 “Reactor Pressure Vessel Head Degradation and Reactor Coolant Pressure Boundary Integrity”**
- **NRC Bulletin 2002-02 “Reactor Pressure Vessel Head & Vessel Penetration Nozzles”**
- **Head inspection order issued**
- **Inspections conducted**



Power Plant Security

- **Expanded involvement with other agencies**
- **Threat advisory and protective measures system**
- **Two orders issued**
- **Inspections – TI 2515/148**



LICENSEE RESPONSE

Summary

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



Contacting the NRC

- Report a Safety Concern:
(800) 695-7403 or Allegation@nrc.gov
- Report an Emergency:
(301) 816-5100 (collect)
- General Information or questions:
www.nrc.gov
Select “What we do” for Public Affairs



Contacts for Additional Information

- **Regional Public Affairs Officer**
 - **Victor Dricks**
 - **Phone: (817) 860 – 8128**

- **State Liason Officer**
 - **William (Bill) Maier**
 - **Phone: (817) 860 - 8267**

