



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

July 30, 2004

George A. Williams, Site Vice President  
Grand Gulf Nuclear Station  
Entergy Operations, Inc.  
P.O. Box 756  
Port Gibson, MS 39150

SUBJECT: SUMMARY OF ANNUAL PERFORMANCE ASSESSMENT MEETING FOR  
GRAND GULF NUCLEAR STATION

Dear Mr. Williams:

This refers to the meeting conducted in Port Gibson, Mississippi, on July 22, 2004. This meeting was to discuss the safety performance at Grand Gulf Nuclear Station from January 1 to December 31, 2003.

Topics discussed during the meeting included a description of the Reactor Oversight Process, the safety performance at the Grand Gulf Nuclear Station, 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 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosures will be 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, reading "WD Johnson", is positioned above the typed name.

William D. Johnson, Chief  
Project Branch A  
Division of Reactor Projects

Docket: 50-416  
License: NPF-29

Entergy Operations, Inc.

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Enclosures:

1. Attendance List
2. Presentation Slides

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Entergy Operations, Inc.

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 DRS Director (DDC)  
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 RITS Coordinator (KEG)  
 Dan Merzke, Pilot Plant Program (DXM2)  
 RidsNrrDipmLipb

ADAMS: ☒ Yes ☐ No Initials: 1  
☒ Publicly Available ☐ Non-Publicly Available ☐ Sensitive ☒ Non-Sensitive

R:\ GG\2004\GG7-15-04-EOC MS.wpd

RIV:SPE:DRP/A	C:DRP/A			
TRFarnholtz	WDJohnson			
<u>TLH</u>	<u>9</u>			
7/24/04	7/30/04			

OFFICIAL RECORD COPY

T=Telephone

E=E-mail

F=Fax

## END-OF-CYCLE MEETING ATTENDANCE

LICENSEE/FACILITY	Entergy Operations, Inc. Grand Gulf Nuclear Station
DATE/TIME	July 22, 2003 6:00 p.m. (CST)
LOCATION	Port Gibson City Hall
NAME (PLEASE PRINT)	ORGANIZATION
WD. Johnson	USNRC
Andy Barrett	USNRC
G MILLER	NRC
T HEG	NRC
Roy + Daisy Moore	— Wheel-Ho., LA
Mike Krupa	GGNS Entergy.
Bob Goff	ms state Dept. Health
Bill BROWN	MS Emergency Management Agency
George Williams	GGNS Entergy
Charles Bottomiller	GGNS Entergy
Brenda Remko	MEMA - PT&E
Chad Spay	Claiborne Co. B.O.S
Allen Burks	Claiborne Co Board of Supv.

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LICENSEE/FACILITY	Entergy Operations, Inc. Grand Gulf Nuclear Station
DATE/TIME	July 22, 2003 6:00 p.m. (CST)
LOCATION	Port Gibson City Hall
NAME (PLEASE PRINT)	ORGANIZATION
Michael Wells	Clairborne County 'Bo's'
Sam Knowlton	Vicksburg Post
Lushe Core	Aldersperson - City of PG
JAMES MILLER	CLAIRBORNE COUNTY BOARD OF SUPER
Sha Barnett	Public
Diane Park	Entergy

# **ANNUAL ASSESSMENT MEETING**



**Nuclear Regulatory Commission  
Region IV**

# **NRC Meeting Purpose**

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



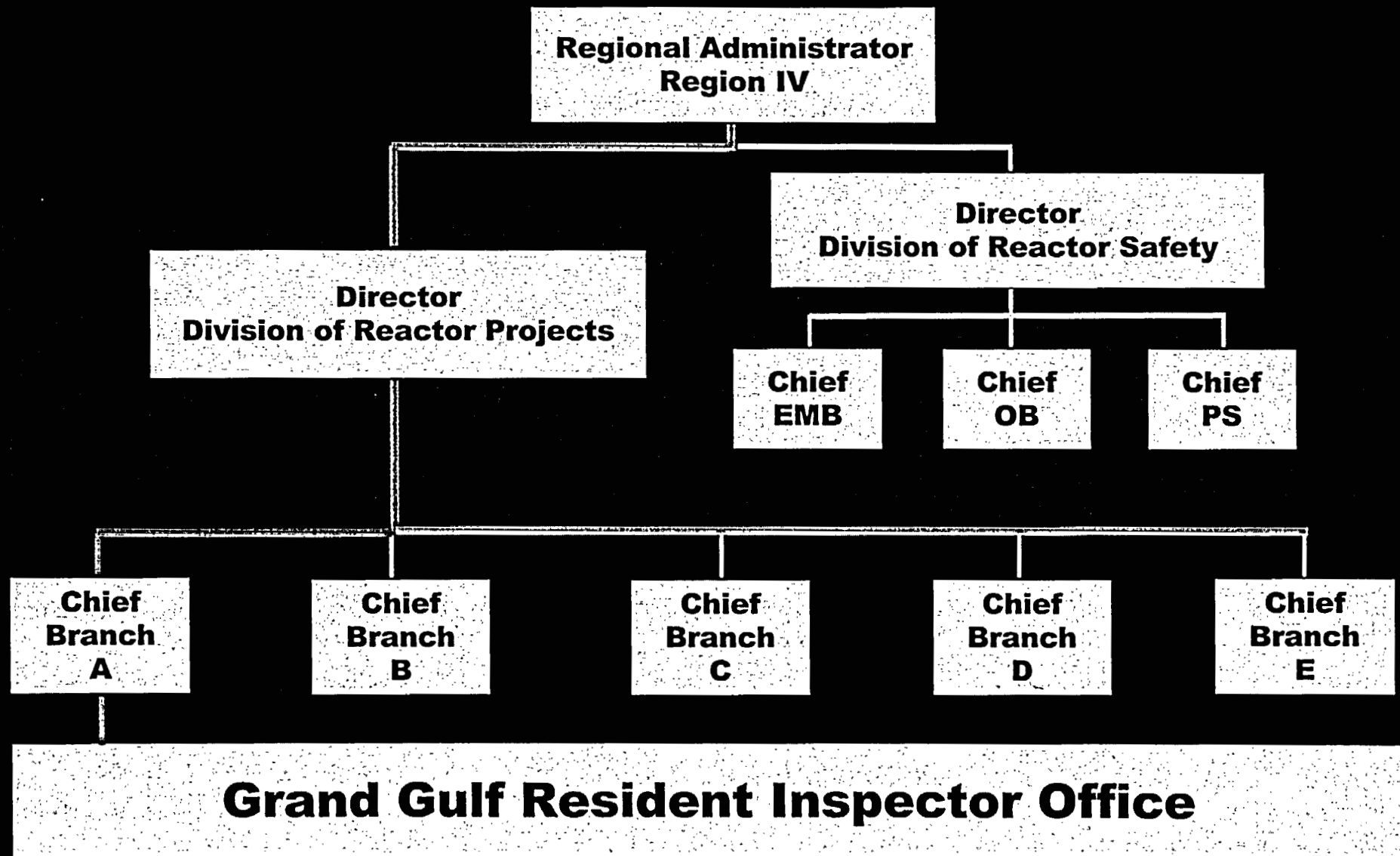
# **NRC Meeting Guidelines**

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





# Regional Organization



# Grand Gulf Nuclear Station



# Meeting Agenda

- **REGULATORY OVERSIGHT**
- **PLANT SAFETY PERFORMANCE SUMMARY**
- **ADDITIONAL FOCUS AREAS**
- **QUESTIONS AND ANSWERS**



# **NRC PERFORMANCE GOALS**

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



# Reactor 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**

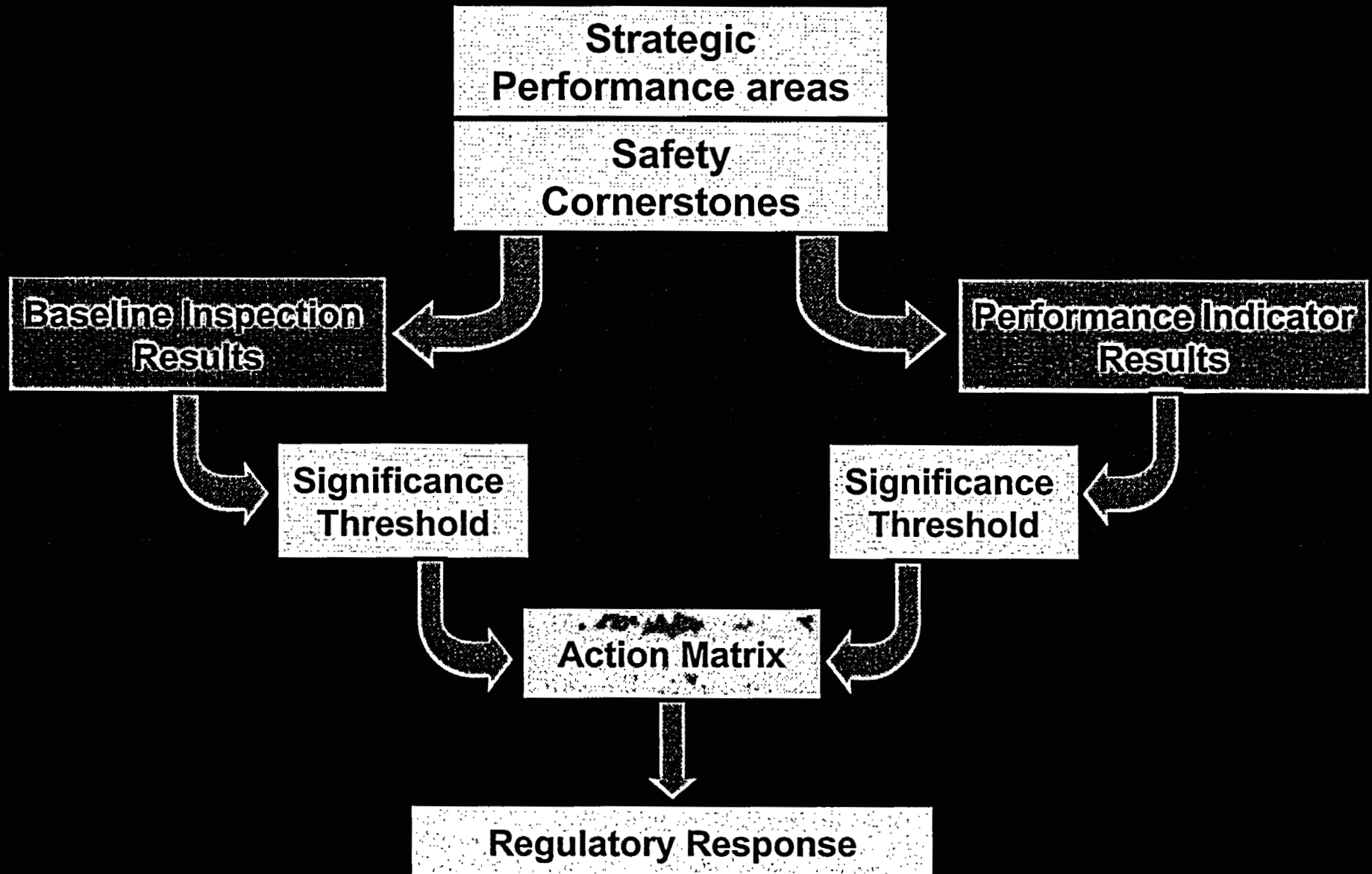


# **NRC Oversight Activities**

- **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



# **Baseline Inspection Program**

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





# **Baseline Inspection Program**

- **Inspection reports describe significant findings and non-compliance**
- **Inspection reports are publicly accessible**

**[www.nrc.gov/reading-rm/adams/web-based.html](http://www.nrc.gov/reading-rm/adams/web-based.html)**



# **Event Follow-up and Supplemental Inspections**

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



# **Reactor Oversight Process**

## **SAFETY SIGNIFICANCE**

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**GREEN**

**- very low**

**WHITE**

**- low to moderate**

**YELLOW**

**- substantial**

**RED**

**- high**

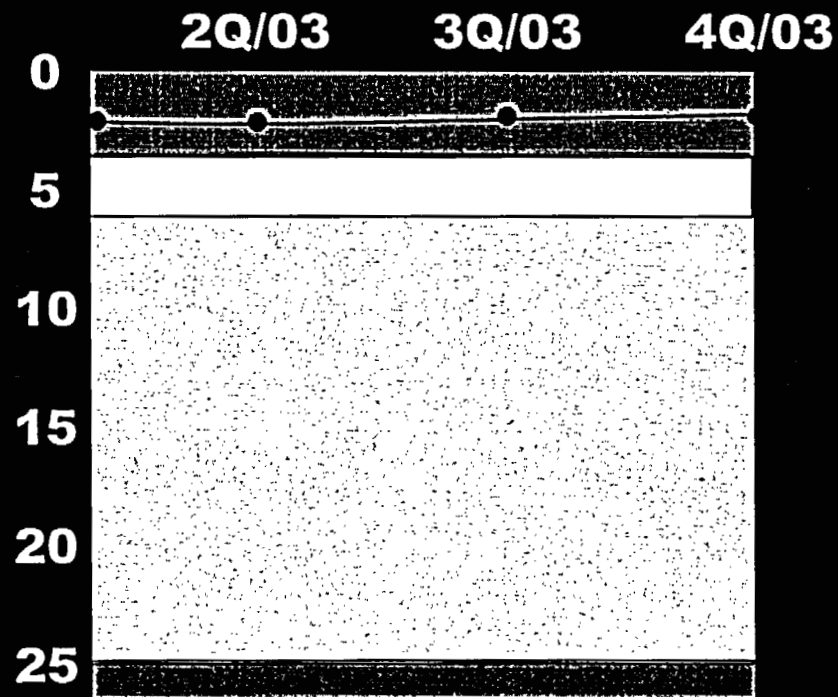
# **Performance Indicator Program**

- **Licensee monitors key safety parameters**
- **Data supplied to NRC quarterly**
- **Regulatory actions based on data**



# 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/03	3Q/03	4Q/03
Actual scrams	1	0	0
Critical hours	2091.1	2208.0	2209.0
Indicator value	1.7	1.6	1.6

# **Performance Indicators**

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

**[http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/GG1/gg1\\_chart.html](http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/GG1/gg1_chart.html)**

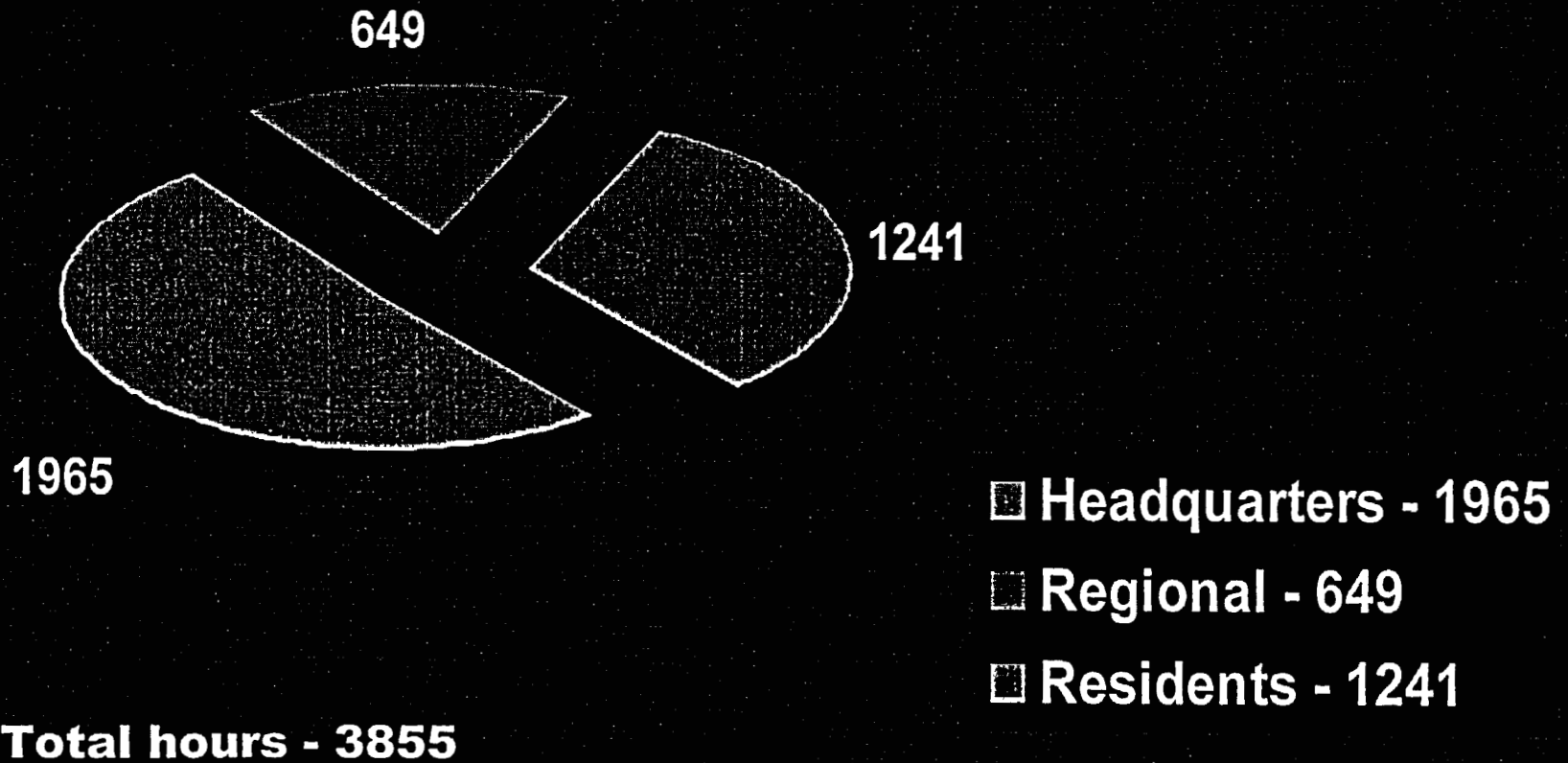


# **Inspection Effort**

- **Resident Inspectors**
  - Stationed at the Plant
  - Prompt Response Capability
- **Regional Inspectors**
  - Specialized
  - Inspection Teams
- **Office of Nuclear Reactor Regulation**
  - Review License Change Requests



# Overall NRC Effort



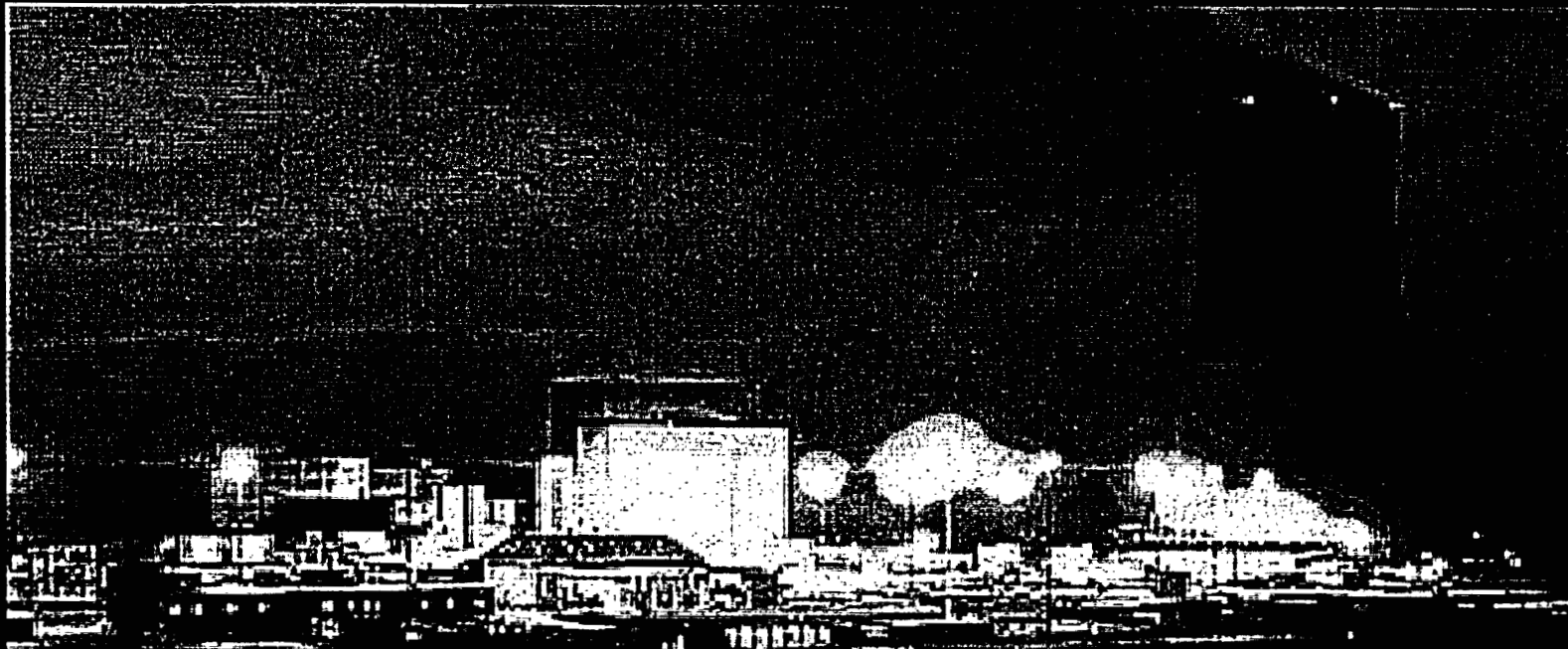


# **Key Aspects of the Assessment Program**

- **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**



# Plant Safety Performance Summary



# **Plant Specific Data**

**Name of Plant:** Grand Gulf Nuclear Station

**Plant Operator:** Entergy Operations, Inc.

**Number of Units:** 1

**Reactor Type & Vendor:** Boiling Water Reactor/  
General Electric

**Location:** Port Gibson, Mississippi

**Power Output (electrical):** 1300 Mwe net

**Source of Circulating Water:** Cooling Tower

# **Inspection Results**

**NRC and Licensee identified inspection findings were of very low safety significance**

**No special or supplemental inspections necessary**



# **Performance Indicator** **Results**

**All performance indicators  
within the Licensee Response  
Column**



# **ROP Action Matrix Summary for 2003**

	<b>Licensee Response</b>	<b>Regulatory</b>	<b>Degraded Cornerstone</b>	<b>Multiple/ Repetitive Degraded Cornerstone</b>	<b>Unacceptable Performance</b>
<b>Nationwide</b>	<b>74</b>	<b>23</b>	<b>2</b>	<b>3</b>	<b>0</b>
<b>Region IV</b>	<b>17</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>0</b>

# National vs Regional Summary CY 2003

	Green	White	Yellow	Red
National Performance Indicator Results (CY 2003)	1828	15	0	0
Regional Performance Indicator Results (CY 2003)	376	2	0	0

	Green	White	Yellow	Red
National Total Inspection Findings (CY 2003)	760	16	2	3
Regional Total Inspection Findings (CY 2003)	177	2	0	0

# **Assessment Conclusion**

**Licensee effectively managed:**

- Reactor safety**
- Radiation safety**
- Plant security**

**Grand Gulf Nuclear Station operated  
in a manner that protected the health  
and safety of the public and the  
environment**





# LICENSEE RESPONSE



# **Additional Focus Area**

- **Security at Nuclear Power Plants**



# **Security at Nuclear Power Plants**

## **Nuclear Regulatory Commission:**

- **Has expanded involvement with FBI , law enforcement and other intelligence agencies**
- **Communicates frequently with Department of Homeland Security, DOD, FAA, FEMA, and others**
- **Continues to work in concert with:**
  - **Licensees**
  - **State and local officials**



# **Security at Nuclear Power Plants**

## **Threat Advisory and Protective Measures System:**

- **Communicates threats affecting NRC licensees**
- **Corresponds to color-coded Homeland Security Presidential Directive**
- **Identifies specific actions to be taken by NRC licensees for each threat level**



# **Conclusions**

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



# **Contacting the NRC**

## **Report an Emergency:**


- (301) 816-5100 (collect)

## **Report a Safety Concern:**

- (800) 695-7403 or
- Allegation@nrc.gov

- **General Information or questions:**

- [www.nrc.gov](http://www.nrc.gov)

 Select "What we do" for Public Affairs

## **For additional information:**

### **Regional Public Affairs Officer**

- Victor Dricks
- Phone: (817) 860 – 8128

### **State Liason Officer**

- William (Bill) Maier
- Phone: (817) 860 - 8267