



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

May 30, 2006

Joseph E. Venable  
Vice President Operations  
Waterford 3  
Entergy Operations, Inc.  
17265 River Road  
Killona, LA 70066-0751

SUBJECT: SUMMARY OF WATERFORD STEAM ELECTRIC STATION, UNIT 3,  
ANNUAL PERFORMANCE ASSESSMENT PUBLIC MEETING

Dear Mr. Venable:

This meeting was conducted at Killona, Louisiana, on May 18, 2006, between the NRC and your staff. The participants discussed performance at Waterford, Unit 3, for the period January 1 through December 31, 2005.

The attendance list and a copy of the presentation slides are enclosed.

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,

A handwritten signature in black ink, appearing to read "David N. Graves".

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

Docket: 50-382  
License: NPF-38

Enclosures:  
1. Attendance List  
2. NRC Presentation Slides

Entergy Operations, Inc.

-2-

cc w/enclosures:

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Paul Oncale, Public Safety Director  
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1801 W. Airline Highway  
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Electronic distribution by RIV:  
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 DRP Director (**ATH**)  
 DRS Director (**DDC**)  
 DRS Deputy Director (**RJC1**)  
 Senior Resident Inspector (**MCH**)  
 Branch Chief, DRP/E (**DNG**)  
 Senior Project Engineer, DRP/E (**GLG**)  
 Team Leader, DRP/TSS (**RLN1**)  
 RITS Coordinator (**KEG**)

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

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RIV/SPE:DRP/E	C:DRP/E			
GLGuerra;mjs;dlf	DNGGraves			
<i>/RA/</i>				
5/24/06	5/30/06			

OFFICIAL RECORD COPY

T=Telephone

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### END-OF-CYCLE MEETING ATTENDANCE

LICENSEE/FACILITY	Entergy / Waterford-3 Steam Electric Station
DATE/TIME	May 18, 2006 - 6:30 pm
LOCATION	James M. Cain Energy Education Center 4224 Highway 3127 Killona, LA 70057
<b>NAME (PLEASE PRINT)</b>	<b>ORGANIZATION</b>
DAVID GRAVES	NRC - RTV
TIMOTHY PFLIEGER	LDEQ
Kevin Sweeney	LDEQ
Carl Rhode	FSI Communications
Gloria Pierce	EOI - W3
Kevin Walsh	Entergy Nuclear - W3
PAUL J. ONCALE	ST. JOHN PARISH EMERGENCY MANAGEMENT
Ron Perry	ENTERGY NUCLEAR - W3
Jack Launz	Entergy Nuclear - W3
Scott Anders	Entergy W3
TIM Gaudet	Entergy - W3 (QA Manager)
LEAH LANG	GOSEP
Bruce Williams	W3

**END-OF-CYCLE MEETING ATTENDANCE**

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<b>NAME (PLEASE PRINT)</b>	<b>ORGANIZATION</b>
R. A. Dodds III	W-3 OPERATIONS DEPT.
ROBERT PETERS	ACTING GMPO
Robert Murillo	Licensing Manager, Acting
Jerry Bridgel	Acting Nuclear Safety Director
ROBERT FLETCHER	EOI
JASON LAQUE	W3 - Maintenance Manager
Nickie Manica	St. John Parish President

**Waterford Unit 3  
Annual Assessment Meeting**

Reactor Oversight Program - CY 2005



Nuclear Regulatory Commission - Region IV

Arlington, Texas

May 18, 2006

**Agenda**

- Introduction
- Review of Reactor Oversight Process
- National Summary of Plant Performance
- Discussion of Plant Performance Results
- Entergy Operations, Inc., Response and Remarks
- NRC Closing Remarks
- Break
- NRC available to address public questions

## **Purpose of Today's Meeting**

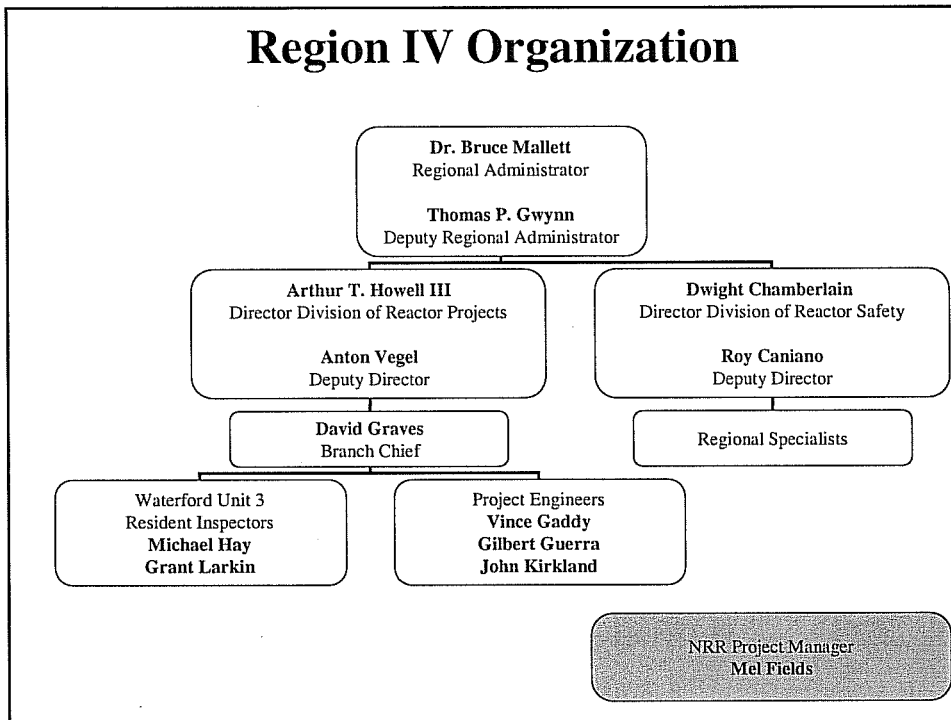
- A public forum for discussion of Waterford Unit 3 performance
- NRC will address the performance issues identified in the annual assessment letter
- Entergy Operations, Inc., will be given the opportunity to respond to the information in the letter

## **NRC Representatives**

- David Graves - Chief, Project Branch E  
(817) 860-8147
- Michael Hay - Senior Resident Inspector  
(985) 783-6253
- Grant Larkin - Resident Inspector  
(985) 783-6253



## Region IV Organization



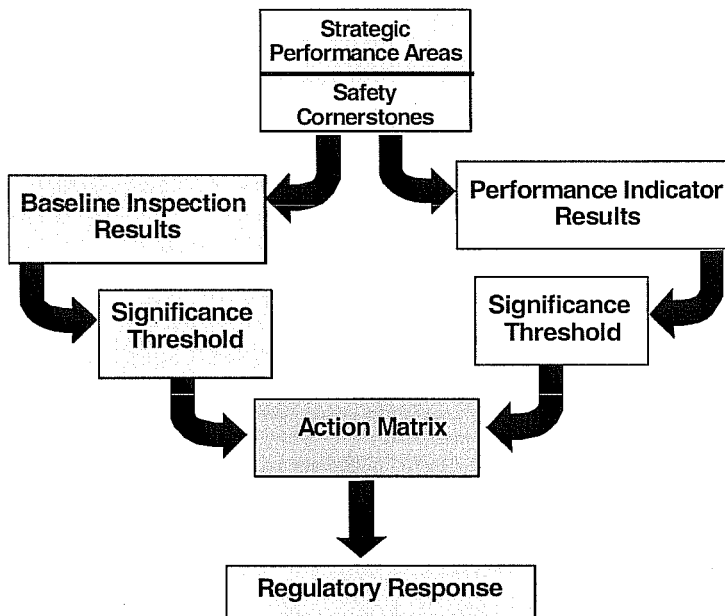
## Review of Reactor Oversight Process

Grant Larkin, 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's strategic objectives

## 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
- Radiation 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**

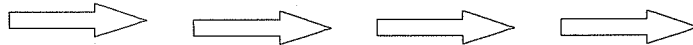
- Green:** Only Baseline Inspection  
**White:** May increase NRC oversight  
**Yellow:** Requires more NRC oversight  
**Red:** Requires more NRC oversight

### **Inspection Findings**

- Green:** Very Low safety issue  
**White:** Low to moderate safety issue  
**Yellow:** Substantial safety issue  
**Red:** High safety issue

## Action Matrix Concept

Licensee Response	Regulatory Response	Degraded Cornerstone	Multiple/Rep. Degraded Cornerstone	Unacceptable Performance
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**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 2005

Licensee Response	84
Regulatory Response	12
Degraded Cornerstone	4
Multiple/Repetitive Degraded Cornerstone	3
Unacceptable	0
<b>Total</b>	<b>103</b>

## **National Summary**

### **Performance Indicator Results**

▶ Green	1850
▶ White	4
▶ Yellow	0
▶ Red	0

### **Total Inspection Findings**

▶ Green	849
▶ White	10
▶ Yellow	1
▶ Red	0

## **Waterford Unit 3 Performance**

Michael Hay, Senior Resident Inspector

## **Waterford Unit 3 Assessment Results**

- 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).

## **Waterford Unit 3 Inspection Activities**

- **Inspection Effort**
  - 1024 Resident Inspection Hours
  - 1088 Regional Inspection Hours
- **Team Inspection**
  - Safety System Design and Performance Capability
- **Refueling Outage Inspection**
  - April 17 to June 10, Refueling Outage 13
- **Event Followup**
  - August 28 to September 13, the plant was shutdown for Hurricane Katrina
  - November 11 to 15, operators manually tripped the reactor from 100 percent due to decreasing main condenser vacuum following a relay failure in the circulating water logic

## **Waterford Unit 3 Inspection Activities**

- **Temporary Instruction**
  - TI-160 “Pressurizer Penetration Nozzles and Steam Space Piping Connections in U.S. Pressurized Water Reactors”
  - TI-161 “Transportation of Reactor Control Rod Drives in Type A Packages”
  - TI-163 “Operational Readiness of Offsite Power”
- **Special Inspection**
  - RCS draindown with inadequate venting

## **Safety Significant Findings or Performance Indicators**

- Sixteen findings of very low safety significance (Green)

## **Waterford Unit 3 Annual Assessment Summary**

- Overall, Waterford 3 Steam Electric Station operated in a manner that preserved public health and safety.
- All cornerstone objectives were met.

## **2006 Planned Inspection Activities**

- Baseline Inspection Program
- TI-165, “Operational Readiness of Offsite Power and Impact on Plant Risk” – Complete
- Inspection Procedure 71150, “Discrepant or Unreported Performance Indicator Data”



## **Licensee Response and Remarks**

**Kevin Walsh**

Vice President Operations (Acting)

Waterford Unit 3

Entergy Operations, Inc.

## **Closing Remarks**

David Graves, Chief, Project Branch E

## Contacting the NRC

- Report an emergency
  - ▶ (301) 816-5100 (call collect)
- Report a safety concern
  - ▶ (800) 695-7403
  - ▶ [Allegation@nrc.gov](mailto:Allegation@nrc.gov)
- General information or questions
  - ▶ [www.nrc.gov](http://www.nrc.gov)
  - ▶ Select “What We Do” for Public Affairs

## Reference Sources

- [Reactor Oversight Process](http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/index.html)
  - ▶ <http://www.nrc.gov/NRR/OVERSIGHT/ASSESS/index.html>
- [Public Electronic Reading Room](http://www.nrc.gov/reading-rm.html)
  - ▶ <http://www.nrc.gov/reading-rm.html>
- [Public Document Room](http://www.nrc.gov)
  - ▶ 1-800-397-4209 (Toll Free)