



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

November 17, 2005

John McGaha, President  
Entergy Operations, Inc.  
P.O. Box 31995  
Jackson, Mississippi 39286-1995

SUBJECT: NRC/ENTERGY OPERATIONS, INC. MANAGEMENT MEETING

Dear Mr. McGaha:

This refers to our meeting conducted at the Entergy Operations, Echelon One office in Jackson, Mississippi, on November 10, 2005. At this meeting, NRC and Entergy management discussed the performance of Arkansas Nuclear One, Cooper Nuclear Station, Grand Gulf Nuclear Station, River Bend Station, and the Waterford Steam Electric Station, Unit 3. Recent Entergy and NRC organizational changes and current regulatory issues were also discussed, as indicated in the enclosed slide presentations.

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 cursive script that reads "Kriss M. Kennedy".

Kriss M. Kennedy, Chief  
Project Branch C

Dockets:  
ANO: 50-313; 50-368  
CNS: 50-298  
GG: 50-416  
RBS: 50-458  
WAT: 50-382

Licenses:

ANO: DPR-51; NPF-6

CNS: DPR-46

GG: NPF-29

RBS: NPF-47

WAT: NPF-38

Enclosures:

1. Attendance List
2. Presentation Slides

cc:

Senior Vice President  
& Chief Operating Officer  
Entergy Operations, Inc.  
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Division of Radiation Control and  
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Arkansas Department of Health  
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Attorney General  
Department of Justice  
State of Louisiana  
P.O. Box 94005  
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Governor Haley Barbour  
Office of the Governor  
State of Mississippi  
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State of Mississippi  
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State Health Officer  
State Board of Health  
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Mississippi Dept. of Health  
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Entergy Operations, Inc.

-4-

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Manager - Licensing Manager  
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Chairman  
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Chief, Radiation and Asbestos  
Control Section  
Kansas Department of Health  
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Entergy Operations, Inc.

-5-

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Electronic distribution by RIV:  
 Regional Administrator (**BSM1**)  
 DRP Director (**ATH**)  
 DRS Director (**DDC**)  
 DRS Deputy Director (**RJC1**)  
 Senior Resident Inspector (**RWD**)  
 Senior Resident Inspector (**SCS**)  
 Senior Resident Inspector (**GBM**)  
 Senior Resident Inspector (**PJA**)  
 Senior Resident Inspector (**MCH**)  
 Branch Chief, DRP/C (**KMK**)  
 Branch Chief, DRP/E (**DNG**)  
 Senior Project Engineer, DRP/C (**WCW**)  
 Senior Project Engineer, DRP/E (**VGG**)  
 Team Leader, DRP/TSS (**RLN1**)  
 RITS Coordinator (**KEG**)

SISP Review Completed: KMK ADAMS:  Yes  No Initials: KMK  
 Publicly Available  Non-Publicly Available  Sensitive  Non-Sensitive

R:\REACTORS\\_ANO\2005\11-10-05MS-DRP-All Entergy.wpd  
 R:\REACTORS\\_CNS\2005\11-10-05MS-DRP-All Entergy.wpd  
 R:\REACTORS\\_GG\2005\11-10-05MS-DRP-All Entergy.wpd  
 R:\REACTORS\\_RB\2005\11-10-05MS-DRP-All Entergy.wpd  
 R:\REACTORS\\_WAT\2005\11-10-05MS-DRP-All Entergy.wpd

RIV/SRI	DRP/C	C: DRP/C		
<del>WC</del>	<del>Walker</del>	KMKennedy		
		<u>KMK</u>		
<del>11/</del>	<del>105</del>	11/17/05		

OFFICIAL RECORD COPY

T=Telephone

E=E-mail

F=Fax

## NRC PUBLIC MEETING ATTENDANCE

LICENSEE/FACILITY	Entergy Operations, Incorporated
DATE/TIME	November 10, 2005; 8:30 a.m.(CST)
LOCATION	Echelon Building Jackson, Mississippi
NAME (PLEASE PRINT)	ORGANIZATION
WAYNE C. WALKER	US NRC / RIV
Randall K. Edington	site VP / Cooper Nuclear Station / ETR / NPPC
Dale E. James	Licensing Manager ANO / Entergy
Jeff Forbes	ANO Site VP
Rick Deese	NRC / RIV / ANO
Tom Marlow	NSS Director, ANO
Joe Venable	Site Vice President Waterford 3
Mike Hay	SRI / Waterford 3
Jason Laque	FOT / Waterford 3
Dennis Matheny	Director, Oversight, LENS
John McCann	Director - Licensing, ENN
JOHN T. HERRON	SR. V.P. / COO ENERGY NORTHEAST
Luis REYES	EAO, USNRC

**NRC PUBLIC MEETING ATTENDANCE**

<b>LICENSEE/FACILITY</b>	Entergy Operations, Incorporated
<b>DATE/TIME</b>	November 10, 2005; 8:30 a.m.(CST)
<b>LOCATION</b>	Echelon Building Jackson, Mississippi
<b>NAME (PLEASE PRINT)</b>	<b>ORGANIZATION</b>
CHARLES E. BROOKS	Entergy Operations, Inc
JERRY BURFORD	EOI
DAVID LORFING	EOI
PETER ALTER	USNRC
PAUL HINNENKAMP	ENERGY OPERATIONS INC
CATHERINE GAUJACQ	EOI
George Williams	E O I
GEOFFREY MILLER	USNRC
MIKE KRUPA	EOI
DAVID GRAVES	NRC - Region IV
BILL EATON	Entergy Operations, Inc.
Art Howell	USNRC
John McGaha	Entergy Operations, Inc

**NRC PUBLIC MEETING ATTENDANCE**

<b>LICENSEE/FACILITY</b>	Entergy Operations, Incorporated
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<b>LOCATION</b>	Echelon Building Jackson, Mississippi
<b>NAME (PLEASE PRINT)</b>	<b>ORGANIZATION</b>
Bruce S. Mallett	Region IV, NRC

**NRC PUBLIC MEETING ATTENDANCE**

<b>LICENSEE/FACILITY</b>	Entergy Operations, Incorporated
<b>DATE/TIME</b>	November 10, 2005; 8:30 a.m.(CST)
<b>LOCATION</b>	Echelon Building Jackson, Mississippi
<b>NAME (PLEASE PRINT)</b>	<b>ORGANIZATION</b>
<i>William R. Campbell</i>	<i>ENERGY OPERATION, Inc.</i>

# 2005 EOI/NRC Senior Management Meeting



November 10, 2005

### EOI/NRC November 2005 Agenda

8:30 - 9:00	<i>Introduction / Objectives</i>	<i>Bruce Mallett (NRC/RIV) Bill Campbell (EOI) Luis Reyes (NRC/EDO)</i>
9:00 - 9:30	Organization Changes and Other Topics of Interest	<i>Art Howell (NRC/RIV) Dave Terao (NRC/NRR) John McGaha (EOI)</i>
9:30 - 10:15	Plant Presentations – RBS	Peter Alter (NRC/SRI) Paul Hinnenkamp (EOI)
10:15 - 10:30	Break	
10:30 - 11:15	Plant Presentations – GGNS	Geoff Miller (NRC/SRI) George Williams (EOI)
11:15 - 12:00	Plant Presentations – ANO	Rick Deese (NRC/SRI) Jeff Forbes (EOI)
12:00 - 12:30	Lunch	
12:30 - 1:15	Plant Presentations - W3	Mike Hay (NRC/SRI) Joe Venable (EOI)
1:15 - 1:30	Plant Presentation – Cooper	Randy Edington (CNS)
1:30 - 3:15	General Discussion Topics	Bruce Mallett (NRC/RIV) Bill Campbell (EOI) Luis Reyes (NRC/EDO)
3:15 - 3:30	Closing Remarks /Adjourn	

## NRR REORGANIZATION

### Background

- NRR expands from 5 large divisions to 9 smaller divisions
- 3 Associate Directors established
- Reasons for reorganization:
  - prepare for increase in new reactor licensing workload
  - better align for risk-informed regulation
  - reduce layer of executive management





# NRR REORGANIZATION

## New Licensing Division and Special Projects Branches

- Functions of DLPM were split between two new divisions:
  - Division of Operating Reactor Licensing (DORL) – 7 Branches
  - Division of Policy and Rulemaking (DPR) – 2 Branches
    - Generic Communications and Power Uprate
    - Special Projects
- Catherine Haney is Director/DORL
- Christopher Grimes is Director/DPR



# NRR REORGANIZATION

## New DORL Branch IV

- DORL Branch IV has licensing responsibility for all Region IV plants
- Most Project Managers have two plant sites
- Letters issued to licensees notifying of changes in Project Managers



### EOI/NRC November 2005 Agenda

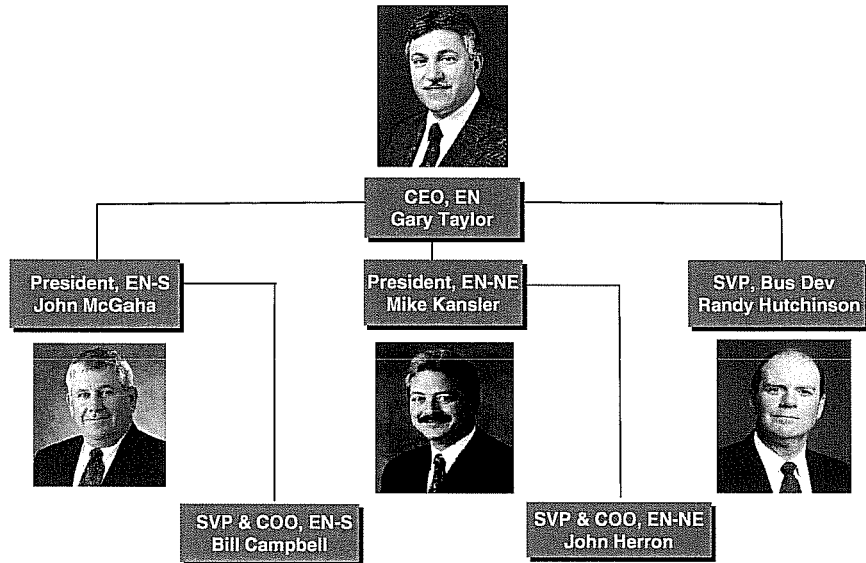
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## Entergy Organization

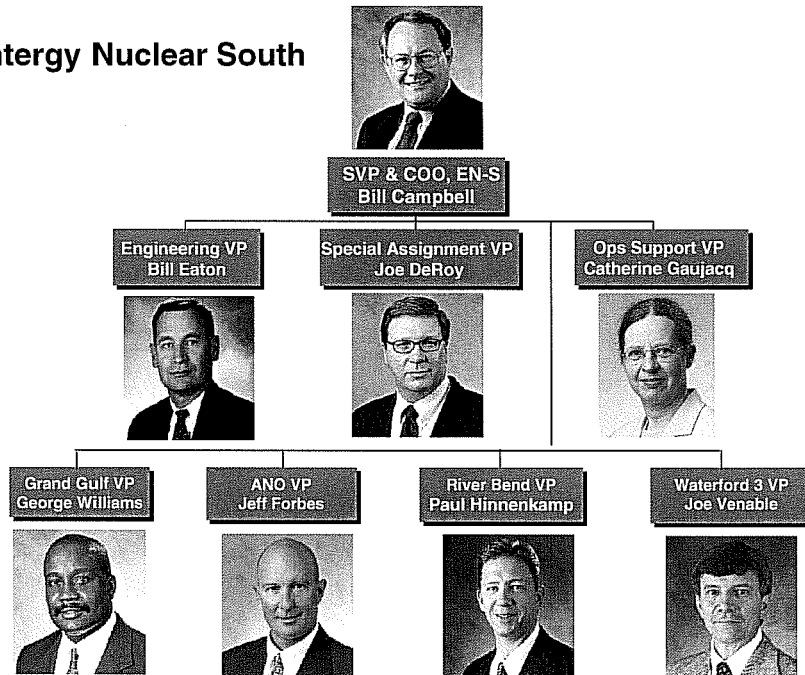
**John McGaha**  
President



## The Leadership of Entergy Nuclear



## Entergy Nuclear South



# Organizational Changes

- RBS General Manager – Don Vinci
- RBS Engineering Director – Harry Goodman
- ANO SG Replacement Director – Bruce Williams
- ANO NSA Director – Thomas Marlow
- Oversight Director – Dennis Matheny
- Training Director – Charles Dieckmann
- Joe DeRoy temporarily assigned to a special project



## EOI/NRC November 2005 Agenda

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# **RIVER BEND STATION PERFORMANCE INSIGHTS**

**Presented by  
Peter Alter  
Senior Resident Inspector  
River Bend Station**



## **PERFORMANCE INSIGHTS FROM OVERSIGHT PROCESS**

- **Maintenance Practices**
- **Equipment Unavailability**
- **Troubleshooting**



# PERFORMANCE INSIGHTS FROM EVENTS

- **Plant Scram**
- **Problem Identification and Resolution**
- **Hurricane Katrina/Rita Preparations and Responses**



**River Bend Station**

**Peter Alter**

NRC Region IV, Senior Resident

**Paul Hinnenkamp**

Site Vice President, Operations

## **Accomplishments / Challenges**

- **Performance Improvement Strategy**
  - Leadership Effectiveness and Alignment
  - Corrective Action and Self-assessment
  - Human Performance
  - Training for Performance Improvement
  - Equipment Reliability
  - Operational Excellence

## **Focus on the Future**

- **Equipment Reliability**
  - Unit Reliability Team/Maintenance Ownership
  - Preventative Maintenance Optimization
  - Vulnerability Reviews (SPV/Scram)
- **Maintenance & Work Management**
  - Coordination & execution
  - Failure modes and analysis
  - Safety System Unavailability



**EOI/NRC November 2005 Agenda**

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9:00 - 9:30	Organization Changes and Other Topics of Interest	Art Howell (NRC/RIV) Dave Terao (NRC/NRR) John McGaha (EOI)
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**GRAND GULF  
NUCLEAR STATION  
PERFORMANCE INSIGHTS**

**Presented by  
Geoff Miller  
Senior Resident Inspector  
Grand Gulf Nuclear Station**





## **PERFORMANCE INSIGHTS FROM OVERSIGHT PROCESS**

- **Maintaining Design Margins**
- **Human Performance Errors**



## **MAINTAINING DESIGN MARGINS**

- **Standby Service Water System Basins**
- **Plant Service Water System (Radial Wells)**
- **Air Operated Containment Isolation Valves**



## **HUMAN PERFORMANCE ERRORS**

- **Plant Service Water Pump Trip**
- **Partial Loss of Component Cooling Water**
- **Division II Standby Diesel Generator Alarm Panel**



## **PERFORMANCE INSIGHTS FROM EVENTS**

- **Reactor Scram Due to Partial Loss of Offsite Power**
- **Partial Loss of Component Cooling Water**
- **Hurricane Katrina/Rita Preparations and Responses**



## Grand Gulf

### **George Williams**

Site Vice President, Operations

### **Geoff Miller**

NRC Region IV, Senior Resident



## **Accomplishments / Challenges**

- Safe Effective Outage (1RF14)
- Plant Performance
- Switchyard Upgrades
- Operations Training INPO Accreditation
- Management / Supervision Engagement
- Human Performance / Operations Performance
- Strong Corrective Action & Assessment



## Focus on the Future

- Margin Recovery/Equipment Reliability
  - Kaowool
  - SSW Basins
  - Plant Air System Upgrade
  - Radial Wells
  - Feedwater Heater Bay Cable Replacement
  - AOV
  
- Dry Cask Storage Implementation
  
- Human Performance
  - Operations High Impact Training



### EOI/NRC November 2005 Agenda

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# **ARKANSAS NUCLEAR ONE PERFORMANCE INSIGHTS**

**Presented by Rick Deese  
Senior Resident Inspector  
Arkansas Nuclear One**



## **PERFORMANCE INSIGHTS FROM OVERSIGHT PROCESS**

- **Substantive Cross-Cutting Issue in PIR**
- **Fire Protection Issues**
- **Communications**





## **Substantive Cross-Cutting Issue in PIR**

- **Problem Identification**
- **Prioritizing and Evaluating  
Conditions**
- **Corrective Action Implementation**



## **Fire Protection Issues**

- **Alternate Shutdown Actions to Prevent  
Emptying Pressurizer**
- **Unit 1 Sprinkler System**



## **Communications**

- **Work Affecting Doors**
- **Scaffolding Issues**
- **Emergency Cooling Pond**



## **PERFORMANCE INSIGHTS FROM EVENTS**

- **Procedure Quality**
- **Control Room Emergency Ventilation Issues**



## **Procedure Quality**

- **Unit 2 Dropped Control Element Assembly**
- **Unit 1 Main Feedwater Block Valve Failure**
- **Unit 1 Asymmetric Rod Fault Recovery**



## **Control Room Emergency Ventilation Issues**

- **Unplanned Initiations**
- **Technical Specification Issues**
- **Design Control Issues**





## Arkansas Nuclear One

### **Jeff Forbes**

Site Vice President, Operations

### **Rick Deese**

NRC Region IV, Senior Resident



## Accomplishments / Challenges

- Safety culture improvements
- Equipment Reliability
- Fire Protection recovery plan
- Operations Training accreditation renewal



## Focus on the Future

- Corrective Action Program
- Fire Protection - NFPA-805 Conversion
- Equipment Reliability
- Leadership Effectiveness / Human Performance
- Operations High Impact Training



### EOI/NRC November 2005 Agenda

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# **WATERFORD 3 PERFORMANCE INSIGHTS**

**Presented by Mike Hay  
Senior Resident Inspector  
Waterford Steam Electric Station Unit 3**



## **PERFORMANCE INSIGHTS FROM OVERSIGHT PROCESS**

### **Corrective Action Challenges**

- **Repetitive MFIV Issues**
- **Essential Chillers**
- **Main Steam Leaks**



## **PERFORMANCE INSIGHTS FROM OVERSIGHT PROCESS**

### **Corrective Action Successes**

- **Main Feedwater Isolation Valves**
- **EGCS Voiding Issues**
- **Alloy 600 PWSCC**



## **PERFORMANCE INSIGHTS FROM EVENTS**

### **Procedural Issues**

- **RCS Venting During Drain Down – Vacuum Drawn in RCS**
- **ILRT Procedure – Void Drawn in Vessel Head**
- **Containment Closure Following Loss of Shutdown Cooling**



# PERFORMANCE INSIGHTS FROM EVENTS

## Hurricane Katrina/Rita Preparations and Responses



### Waterford 3

#### **Joe Venable**

Site Vice President, Operations

#### **Mike Hay**

NRC Region IV, Senior Resident

## Accomplishments / Challenges

- Safety Performance
  - Zero lost time accidents and four OSHA recordables
  - CR Generation, 2005 (4454) / 04 (4236) / 03 (4022)
  - No automatic scram since February 13, 2001
- Plant operational performance
  - TS LCO entries and Maintenance Backlog
  - Successful implementation Power Uprate
  - Successful response to Hurricane Katrina

## Focus on the Future

- Strengthen leadership and human performance in operations
- Increase rigor in procedures (high focus on operations and maintenance)
- Make Equipment Reliability paramount in improved equipment performance
- Maintain questioning attitude and conservative decision making at all levels of organization
- Plan and execute Refuel 14 in 2006

### EOI/NRC November 2005 Agenda

8:30 - 9:00	Introduction / Objectives	Bruce Mallett (NRC/RIV) Bill Campbell (EOI) Luis Reyes (NRC/EDO)
9:00 - 9:30	Organization Changes and Other Topics of Interest	Art Howell (NRC/RIV) Dave Terao (NRC/NRR) John McGaha (EOI)
9:30 - 10:15	Plant Presentations – RBS	Peter Alter (NRC/SRI) Paul Hinnenkamp (EOI)
10:15 - 10:30	Break	
10:30 - 11:15	Plant Presentations – GGNS	Geoff Miller (NRC/SRI) George Williams (EOI)
11:15 - 12:00	Plant Presentations – ANO	Rick Deese (NRC/SRI) Jeff Forbes (EOI)
12:00 - 12:30	Lunch	
12:30 - 1:15	Plant Presentations - W3	Mike Hay (NRC/SRI) Joe Venable (EOI)
<b>1:15 - 1:30</b>	<b><i>Plant Presentation – Cooper</i></b>	<b><i>Randy Edington (CNS)</i></b>
1:30 - 3:15	General Discussion Topics	Bruce Mallett (NRC/RIV) Bill Campbell (EOI) Luis Reyes (NRC/EDO)
3:15 - 3:30	Closing Remarks /Adjourn	

## Cooper Nuclear Station

**Randy Edington**

Site Vice President,  
Chief Nuclear Officer

**Scott Schwind**

NRC Region IV, Senior Resident

## **Accomplishments/Challenges**

- Regulatory
- Corrective Action Program
- Human Performance
- Industry Recognition
- Equipment Reliability
- Security

## **Focus on the Future**

- Corrective Action Program
- Human Performance
- Equipment Reliability
- Refueling Outage Preparation & Execution
- Leadership Alignment & Engagement



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## General Discussion Topics

- **Fire Protection - Steps Entergy is taking to resolve issues at sites and actions NRC is taking with regard to manual actions**
- **PWR containment sump and impact of sludge research results**
- **Lessons-Learned from response to Hurricanes Katrina and Rita**
- **Entergy's assessment of how cross-cutting issue process is working in the ROP**
- **Nuclear power plant security and emergency planning**
- **EDG's and other equipment being taken out of service for long LCO's and the evaluation of risk-alignment on best practice in this area**
- **SCWE Initiatives**
- **New Reactors – GG and RBS**