



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

July 21, 2006

EA-06-103

Paul D. Hinnenkamp  
Vice President - Operations  
Entergy Operations, Inc.  
River Bend Station  
5485 US Highway 61N  
St. Francisville, LA 70775

SUBJECT: MEETING SUMMARY DISCUSSING RIVER BEND STATION  
APPARENT VIOLATION

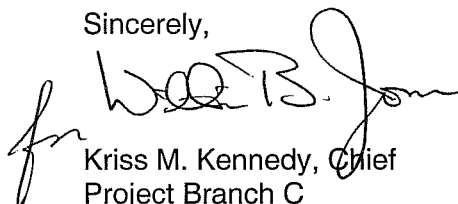
Dear Mr. Hinnenkamp:

This refers to the Regulatory Conference conducted at the NRC Region IV Office, Arlington, Texas, on July 20, 2006. The meeting attendance list and a copy of the presentation are included as Enclosures 1 and 2.

In accordance with Section 2.390 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and its enclosures will be available electronically for public inspection in the NRC's Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Webb 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,

  
for  
Kriss M. Kennedy, Chief  
Project Branch C  
Division of Reactor Projects

Docket: 50-458  
License: NPF-47

Entergy Operations, Inc.

- 2 -

Enclosures:

1. Attendance List
2. NRC Presentation Slides

cc w/enclosures:

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- 3 -

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 Senior Resident Inspector **(PJA)**  
 Branch Chief, DRP/C **(KMK)**  
 Senior Project Engineer, DRP/C **(WCW)**  
 Team Leader, DRP/TSS **(RLN1)**  
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 Branch Chief, DRS/OB **(ATG)**  
 R. Kahler, NSIR **(REK)**  
 K. S. Fuller, RC/ACES **(KSF)**  
 M. R. Johnson, D:OE **(MRJ1)**  
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☒ Publicly Available ☐ Non-Publicly Available ☐ Sensitive ☒ Non-Sensitive

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WCWalker;df	KMKennedy			
<u>WCWae</u>	<u>WJ</u>			
7/24/06	7/24/06			

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## MEETING ATTENDANCE

LICENSEE/FACILITY	Entergy Operations, Inc. River Bend Station
DATE/TIME	July 20, 2006; 12:30 p.m.
LOCATION	Region IV Arlington, TX Training Conference Room
NAME (PLEASE PRINT)	ORGANIZATION
ROBERT BIGGS	ENTERGY RIVER BEND STATION
MITCH CONNER	ENTERGY RIVER BEND STATION
RICK KING	ENTERGY RIVER BEND STATION
KENNETH HIGGINSBOTHAM	ENTERGY RIVER BEND STATION
John McCann	ENTERGY Nuclear North east
Joe Leavines	Entergy - River Bend Station
PAUL HINNENKAMP	ENTERGY
WAYNE WALKER	USNRC - RIV
PETER ALTER	USNRC - RBS - RI
Michael J Miller	US NRC - RBS - RI
Michael Vassquez	USNRC RIV
ARTHUR HOWELL	USNRC RIV
Bruce Mallett	USNRC RTI

# MEETING ATTENDANCE

LICENSEE/FACILITY	Entergy Operations, Inc. River Bend Station
DATE/TIME	July 20, 2006; 12:30 p.m.
LOCATION	Region IV Arlington, TX Training Conference Room
NAME (PLEASE PRINT)	ORGANIZATION
KERRY KENNEDY	USNRC, Region IV
ANTHONY GODY	USNRC / RIV / OB
ROBERT KAHLE	USNR / NSIR / DPR
JOHN COSTELLO	DOMINION GENERATION VIA TELEPHONE

ENCLOSURE 2

# River Bend Station Regulatory Conference



July 20, 2006

# River Bend Station Seismic Monitoring Instrumentation Regulatory Conference

Arlington, TX

July 20, 2006

July 20, 2006



# Agenda

Introduction	R. King
Overview	P. Hinnenkamp
Operations	K. Higginbotham
Regulatory Assessment	R. King
Closing Remarks	P. Hinnenkamp

July 20, 2006

# Overview

**Paul Hinnenkamp**  
Vice President, Operations

July 20, 2006

# RBS Perspective

- Process and instrumentation were available to properly classify a seismic event to protect the health and safety of the public.
- The process has worked.
- Process needed improvement and those improvements have been made.
- Issue not risk significant.

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# Description of Process

Ken Higginbotham  
Asst. Operations Manager

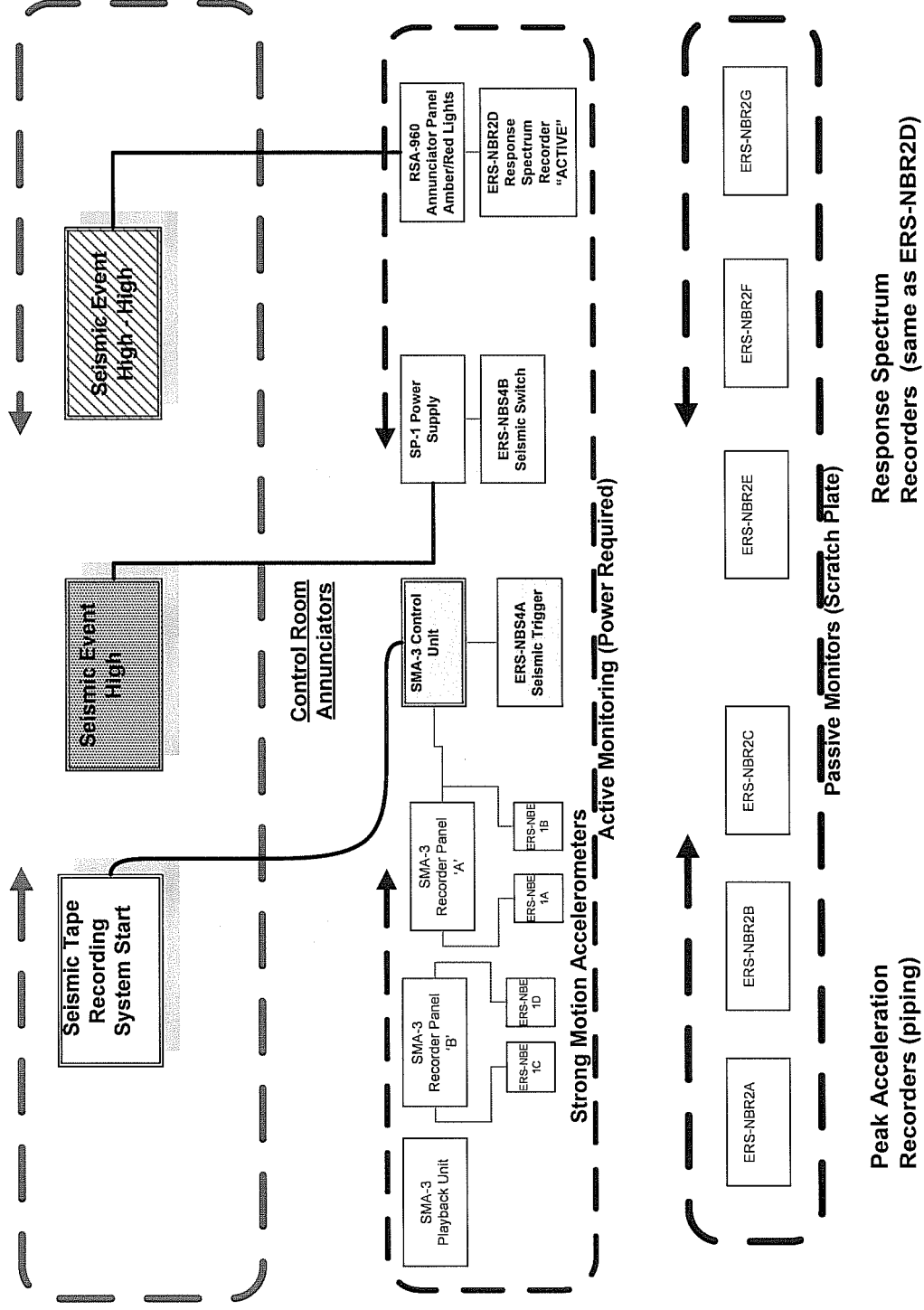
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# Topics

- Seismic Instrumentation
- Description of Process
- Past Experience (OE)

July 20, 2006

# Seismic Instrumentation



# Process

- Upon indication of Seismic Activity, Control Room personnel would:
  - Refer to Alarm Response Procedures
    - Request support from I&C to read scratch plates
    - Refer to Emergency Implementing Procedures
    - Contact the National Earthquake Information Center per STP
  - Call for additional resources
- Emergency Director would know the magnitude of the seismic event and declare appropriate EAL.
- Classroom and Simulator training reinforces these behaviors

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# Past Experience Validates Process

- Historical Performance (OE)
  - October 16, 1999 – Earthquake in California (Control Room Log)
  - November 3, 2002 – Earthquake near McKinley Park, Alaska (CR 2002-1723)
  - June 6, 2004 – Seismic Event High/High alarm (CR 2004-1606)
  - June 9, 2004 – Seismic Event High/High alarm (CR 2004-1630)
- Expected behaviors were demonstrated during these events

July 20, 2006



# Process Improvements

- AOP-0028, Seismic Event implemented 5/06
  - Consolidated previous process requirements
  - Improved efficiency

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# Regulatory Assessment/Conclusions

Rick King

Director, Nuclear Safety Assurance

July 20, 2006

# Regulatory Assessment

## “Significance”

- Utilizing the Failure to Comply Flow Chart of IMC 0609 Appendix ‘B’, the station believes that we have demonstrated that this finding does not rise to a failure or degradation of the risk significant planning standard [10CFR50.54 (b) (4)] because the unavailability of the seismic monitor would not prevent declaration of an SAE.
  - Other seismic instrumentation and means were available to permit classification albeit delayed.
  - Training and procedures provide adequate measures
  - Actual OE demonstrates proper behaviors
  - Other EALs would result in a NOUE, ALERT and SAE (related to actual plant damage)
- Issue is not risk significant

# Conclusion

- The program can be implemented as designed and approved.
- Actual performance demonstrates behaviors that show RBS will take actions to classify emergencies properly.
- The station recognizes that our process could be enhanced; however, RBS has improved our processes making them more efficient.
- NRC raised valid concerns applicable to industry
- Finding does not represent a significance of greater than green.

July 20, 2006

# Closing Remarks

Paul Hinnenkamp  
Vice President, Operations

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