



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
612 EAST LAMAR BLVD, SUITE 400  
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March 3, 2010

Michael Perito  
Vice President, Operations  
Entergy Operations, Inc.  
River Bend Station  
5485 US Highway 61N  
St. Francisville, LA 70775

SUBJECT: ANNUAL ASSESSMENT LETTER - RIVER BEND STATION  
(REPORT 05000458/2010001)

Dear Mr. Perito:

On February 18, 2010, the NRC staff completed its performance review of River Bend Station. Our technical staff reviewed performance indicators for the most recent quarter and inspection results for the period from January 1 through December 31, 2009. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only – Security-Related Information" will include the security cornerstone review and resultant inspection plan.

Overall, River Bend Station operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter, as well as for the first three quarters of the assessment cycle, was within the 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). Therefore, we plan to conduct reactor oversight process baseline inspections at your facility.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through June 30, 2011. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the mid-cycle review.

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).

If circumstances arise which cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at (817) 860-8144 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA/**

Vincent G. Gaddy, Chief  
Reactor Projects Branch C  
Division of Reactor Projects

Docket: 50-458  
License: NPF-47

Enclosure:  
River Bend Station Inspection/Activity Plan

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SUNSI Rev Compl.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	ADAMS	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Reviewer Initials	VGG
Publicly Avail	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sensitive	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Sens. Type Initials	VGG
C:DRP/B	D:DRS	D:DRP	C:DRP/B		
VGaddy	RJCaniano	DDChamberlain	VGaddy		
<b>/RA/</b>	<b>/RA/</b>	<b>/RA/</b>	<b>/RA/</b>		
2/26/10	2/26/10	3/1/10	3/1/10		

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**River Bend**  
**Inspection / Activity Plan**  
**04/01/2010 - 06/30/2011**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>EB2-05T - TRIENNIAL FIRE PROTECTION</b>		<b>4</b>
1	04/05/2010	04/09/2010	IP 7111105T	Fire Protection [Triennial]	
1	04/19/2010	04/23/2010	IP 7111105T	Fire Protection [Triennial]	
			<b>EXAM - INITIAL EXAM</b>		<b>4</b>
1	04/19/2010	04/23/2010	X02443	INITIAL EXAM-RB (04/2010)	
			<b>EP-1 - BIENNIAL EP EXERCISE INSPECTION</b>		<b>3</b>
1	06/07/2010	06/11/2010	IP 7111401	Exercise Evaluation	
1	06/07/2010	06/11/2010	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	06/07/2010	06/11/2010	IP 71151-EP01	Drill/Exercise Performance	
1	06/07/2010	06/11/2010	IP 71151-EP02	ERO Drill Participation	
1	06/07/2010	06/11/2010	IP 71151-EP03	Alert & Notification System	
			<b>RS45 - RADIATION SAFETY</b>		<b>2</b>
1	05/24/2010	05/28/2010	IP 71124.04	Occupational Dose Assessment	
1	05/24/2010	05/28/2010	IP 71124.05	Radiation Monitoring Instrumentation	
1	05/24/2010	05/28/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	05/24/2010	05/28/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
			<b>BRQ - OPERATOR REQUAL INSP</b>		<b>3</b>
1	08/16/2010	08/20/2010	IP 7111111B	Licensed Operator Requalification Program	
			<b>RS12MCA - OCCUPATIONAL RADIATION SAFETY</b>		<b>2</b>
1	08/30/2010	09/03/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	08/30/2010	09/03/2010	IP 71124.02	Occupational ALARA Planning and Controls	
1	08/30/2010	09/03/2010	IP 7113011	Material Control and Accounting (MC&A)	
1	08/30/2010	09/03/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	08/30/2010	09/03/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
			<b>EXAM - INITIAL EXAM</b>		<b>3</b>
1	10/25/2010	10/29/2010	X02452	INITIAL EXAM- RB (11/2010)	
1	12/06/2010	12/17/2010	X02452	INITIAL EXAM- RB (11/2010)	
			<b>PSB2-08G - INSERVICE INSPECTION</b>		<b>3</b>
1	01/18/2011	01/28/2011	IP 7111108G	Inservice Inspection Activities - BWR	
			<b>EP1 - BIENNIAL EP PROGRAM INSPECTION</b>		<b>1</b>
1	02/07/2011	02/11/2011	IP 7111402	Radiological Environmental Monitoring Program	
1	02/07/2011	02/11/2011	IP 7111403	Emergency Response Organization Augmentation Testing	
1	02/07/2011	02/11/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	02/07/2011	02/11/2011	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	02/07/2011	02/11/2011	IP 71151-EP01	Drill/Exercise Performance	

This report does not include INPO and OUTAGE activities.  
This report shows only on-site and announced inspection procedures.

**River Bend**  
**Inspection / Activity Plan**  
**04/01/2010 - 06/30/2011**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>EP1 - BIENNIAL EP PROGRAM INSPECTION</b>		<b>1</b>
1	02/07/2011	02/11/2011	IP 71151-EP02	ERO Drill Participation	
1	02/07/2011	02/11/2011	IP 71151-EP03	Alert & Notification System	
			<b>RP678 - RADIATION SAFETY TEAM</b>		<b>3</b>
1	02/14/2011	02/18/2011	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	02/14/2011	02/18/2011	IP 71124.07	Public Radiation Safety	
1	02/14/2011	02/18/2011	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			<b>EB1-07 - TRIENNIAL HEAT SINK PERFORMANCE</b>		<b>1</b>
1	03/14/2011	03/18/2011	IP 7111107T	Heat Sink Performance	
			<b>TSB-52B - BIENNIAL PI&amp;R</b>		<b>1</b>
1	05/02/2011	05/20/2011	IP 71152B	Identification and Resolution of Problems	

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