



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION IV  
1600 E. LAMAR BLVD  
ARLINGTON, TX 76011-4511

March 1, 2017

Mr. William F. Maguire  
Site Vice President  
Entergy Operations, Inc.  
River Bend Station  
5485 U.S. Highway 61N  
St. Francisville, LA 70775

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR RIVER BEND STATION  
(REPORT 05000458/2016006)**

Dear Mr. Maguire:

On February 15, 2017, the U.S. Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance assessment of River Bend Station, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2016, through December 31, 2016. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. The NRC concluded that overall performance at your facility preserved public health and safety.

The NRC determined the performance at River Bend Station during the most recent quarter was within the Licensee Response Column, the highest performance category of the NRC's Reactor Oversight Process (ROP) Action Matrix, because all inspection findings had very low safety significance (i.e., Green), and all PIs were within the expected range (i.e., Green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through December 31, 2018. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include the plan for security-related inspections, which will be sent via separate, non-publicly available correspondence.

Additionally, as reflected in the enclosure, during this period the NRC staff will complete Temporary Instruction 2515/191, "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/ Staffing/Multi-Unit Dose Assessment Plans." This inspection will be conducted at River Bend Station to confirm the station's full implementation of Commission Orders EA-12-049 and EA-12-051.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter 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).

Please contact Greg Warnick at 817-200-1144 with any questions you have regarding this letter.

Sincerely,

*/RA/*

Troy Pruett, Director  
Division of Reactor Projects

Docket No. 50-458  
License No. NPF-47

Enclosure:  
River Bend Station Inspection Plan

ANNUAL ASSESSMENT LETTER FOR RIVER BEND STATION REPORT (05000458/2016006)  
- DATED MARCH 1, 2017

DISTRIBUTION:

Regional Administrator (Kriss.Kennedy@nrc.gov)  
Deputy Regional Administrator (Scott.Morris@nrc.gov)  
DRP Director (Troy.Pruett@nrc.gov)  
DRP Deputy Director (Ryan.Lantz@nrc.gov)  
DRS Director (Anton.Vegel@nrc.gov)  
DRS Deputy Director (Jeff.Clark@nrc.gov)  
Senior Resident Inspector (Jeffrey.Sowa@nrc.gov)  
Resident Inspector (Brian.Parks@nrc.gov)  
RBS Administrative Assistant (Lisa.Day@nrc.gov)  
Branch Chief, DRP/C (Greg.Warnick@nrc.gov)  
Senior Project Engineer (Cale.Young@nrc.gov)  
Project Engineer (Michael.Stafford@nrc.gov)  
Public Affairs Officer (Victor.Dricks@nrc.gov)  
Project Manager (Lisa.Regner@nrc.gov)  
Team Leader, DRS/IPAT (Thomas.Hipschman@nrc.gov)  
Project Engineer, DRS/IPAT (Eduardo.Uribe@nrc.gov)  
RITS Coordinator (Marisa.Herrera@nrc.gov)  
ACES (R4Enforcement.Resource@nrc.gov)  
Regional Counsel (Karla.Fuller@nrc.gov)  
Senior Congressional Affairs Officer (Jenny.Weil@nrc.gov)  
RIV Congressional Affairs Officer (Angel.Moreno@nrc.gov)  
RIV/ETA: OEDO (Jeremy.Bowen@nrc.gov)  
RIV RSLO (Bill.Maier@nrc.gov)  
Director, DIRS, NRR (Chris.Miller@nrc.gov)  
Deputy Director, DIRS, NRR (Michael.King2@nrc.gov)  
Director, DORL, NRR (Anne.Boland@nrc.gov)  
Deputy Director, DORL, NRR (Kathryn.Brock@nrc.gov)  
Director, NSIR (Brian.Holian@nrc.gov)  
Acting Director, DPR, NSIR (Stephanie.Coffin@nrc.gov)  
DRP Branch Chiefs (R4DRP-BC@nrc.gov)  
DRS Branch Chiefs (R4DRS-BC@nrc.gov)  
ROPreports.Resource@nrc.gov  
ROPAssessment.Resource@nrc.gov

ADAMS ACCESSION NUMBER: ML17059D527

<input checked="" type="checkbox"/> SUNSI Review By: GWarnick/dll		ADAMS <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive		Keyword: NRC-002
OFFICE	RIV/C	RIV/DRS:D	RIV/DRP:D					
NAME	GWarnick	AVegel	TPruett					
SIGNATURE	/RA/	/RA JClark for/	/RA/					
DATE	2/27/16	2/25/17	2/27/17					

OFFICIAL RECORD COPY

**River Bend**  
**Inspection / Activity Plan**  
 01/01/2017 - 12/31/2018

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			<b>71111.08 - INSERVICE INSPECTION</b>		<b>1</b>
1	02/06/2017	02/10/2017	IP 7111108G	Inservice Inspection Activities - BWR	
			<b>RS 12 PI - RADIATION SAFETY</b>		<b>2</b>
1	02/06/2017	02/10/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	02/06/2017	02/10/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1	02/06/2017	02/10/2017	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	02/06/2017	02/10/2017	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			<b>TSB 52B - BIENNIAL PI&amp;R</b>		<b>8</b>
1	04/10/2017	04/14/2017	IP 71152B	Problem Identification and Resolution	
1	04/24/2017	04/28/2017	IP 71152B	Problem Identification and Resolution	
			<b>TI-191 - MITIGATING STRATEGIES/SFP INST FOR BDBEE</b>		<b>4</b>
1	05/22/2017	05/26/2017	IP 2515/191	Inspection of Licensee's Responses to Order EA-12-049, EA-12-051 & EP Info Request March 12, 2012	
			<b>EP-1 - BIENNIAL EP PROGRAM INSPECTION</b>		<b>1</b>
1	05/22/2017	05/26/2017	IP 7111402	Alert and Notification System Testing	
1	05/22/2017	05/26/2017	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	05/22/2017	05/26/2017	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	05/22/2017	05/26/2017	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
			<b>EP-2 - EP PERFORMANCE INDICATOR VERIFICATION</b>		<b>1</b>
1	05/22/2017	05/26/2017	IP 71151-EP01	Drill/Exercise Performance	
1	05/22/2017	05/26/2017	IP 71151-EP02	ERO Readiness	
1	05/22/2017	05/26/2017	IP 71151-EP03	Alert & Notification System Reliability	
			<b>EB1-21M - RBS COMPONENT DESIGN BASIS INSPECTION</b>		<b>4</b>
1	06/12/2017	06/30/2017	IP 7111121M	Component Design Bases Inspection (Teams)	
			<b>RS 5678 - RS TEAM</b>		<b>4</b>
1	08/21/2017	08/25/2017	IP 71124.05	Radiation Monitoring Instrumentation	
1	08/21/2017	08/25/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	08/21/2017	08/25/2017	IP 71124.07	Radiological Environmental Monitoring Program	
1	08/21/2017	08/25/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			<b>EB1-07T - RBS HEAT SINK PERFORMANCE</b>		<b>2</b>
1	09/18/2017	09/22/2017	IP 7111107T	Heat Sink Performance	
			<b>EXAM - INITIAL EXAM</b>		<b>8</b>
1	05/21/2018	05/25/2018	X02622	INITIAL EXAM RB(6/18)	
1	06/25/2018	07/03/2018	X02622	INITIAL EXAM RB(6/18)	

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

**River Bend**  
**Inspection / Activity Plan**  
**01/01/2017 - 12/31/2018**

Unit Number	Planned Dates Start      End	Inspection Activity	Title	No. of Staff on Site
<b>RS 24 - RAD SAFETY</b>				<b>2</b>
1	01/22/2018    01/26/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1	01/22/2018    01/26/2018	IP 71124.04	Occupational Dose Assessment	
<b>EB2-02 - LICENSE RENEWAL INSPECTION</b>				<b>4</b>
1	03/26/2018    03/30/2018	IP 71002	License Renewal Inspection	
1	04/09/2018    04/13/2018	IP 71002	License Renewal Inspection	
<b>EP-1 - EP EXERCISE INSPECTION</b>				<b>4</b>
1	06/25/2018    06/29/2018	IP 7111401	Exercise Evaluation	
1	06/25/2018    06/29/2018	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	06/25/2018    06/29/2018	IP 71151-EP01	Drill/Exercise Performance	
1	06/25/2018    06/29/2018	IP 71151-EP02	ERO Readiness	
1	06/25/2018    06/29/2018	IP 71151-EP03	Alert & Notification System Reliability	
<b>BRQ - BRQ</b>				<b>3</b>
1	08/27/2018    08/31/2018	IP 7111111B	Licensed Operator Requalification Program	
<b>EB1-17T - RBS 50.59 CHANGES, TESTS, EXPERIMENTS</b>				<b>3</b>
1	09/10/2018    09/14/2018	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
<b>RS 13PI - RAD SAFETY</b>				<b>2</b>
1	11/05/2018    11/09/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	11/05/2018    11/09/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	11/05/2018    11/09/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	11/05/2018    11/09/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	

Comments:

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