



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION IV
1600 EAST LAMAR BOULEVARD
ARLINGTON, TEXAS 76011-4511

February 28, 2024

Phil Hansett, 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
05000458/2023006

Dear Phil Hansett:

The U.S. Nuclear Regulatory Commission (NRC) has completed its end-of-cycle performance assessment of River Bend Station, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2023, through December 31, 2023. 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 baseline inspection program was completed at your facility as defined in Inspection Manual Chapter 2515, "Light-Water Reactor Inspection Program - Operations Phase."

The NRC determined the performance at River Bend Station during the most recent quarter was within the Regulatory Response Column, the second highest performance column of the NRC's Reactor Oversight Process (ROP) Action Matrix. This conclusion was based on a single inspection finding having low-to-moderate safety significance (White) in the Emergency Preparedness Cornerstone originating in the third quarter of 2023, and all performance indicators (PIs) within the expected range (Green).

The enclosed inspection plan lists the inspections scheduled through December 31, 2025. 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.

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 Jeffery E. Josey at 817-200-1148 with any questions you have regarding this letter.

Sincerely,



Signed by Miller, Geoffrey
on 02/28/24

Geoffrey B Miller, Director
Division of Operating Reactor Safety

Docket No. 05000458
License No. NPF-47

Enclosure:
Inspection Plan

Distribution:
[Include ROPAssessment.Resource@nrc.gov.]

ANNUAL ASSESSMENT LETTER FOR RIVER BEND STATION - REPORT
05000458/2023006 - DATED FEBRUARY 28, 2024

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DOCUMENT NAME: RBS ANNUAL ASSESSMENT LETTER 2023

ADAMS ACCESSION NUMBER:

☒ SUNSI Review

ADAMS:

☐ Non-Publicly Available☒ Non-Sensitive

Keyword:

By:

☒ Yes ☐ No☒ Publicly Available☐ Sensitive

NRC-002

OFFICE	SPE:DORS/PBC	SPE:DORS/PBC	BC:DORS/PBC	D:DORS		
NAME	MBloodgood	WSchaupt	JJosey	GMiller		
SIGNATURE	MRB4	WTS1	JEJ1	GMB		
DATE	02/14/24	02/14/24	02/15/24	02/28/24		

OFFICIAL RECORD COPY

Site Inspection Activity Plan

07200049 - River Bend (ISFSI)

01/01/2024 - 12/31/2025

Unit	Start	End	Activity	CAC	Title	Staff Count
River Bend ISFSI (Part 72) Loading Inspection (multiple weeks, dry runs, 72.212, first loading)						3
	6/1/2024	8/31/2024	IP 60854	001000	Preoperational Testing Of An ISFSI	
	6/1/2024	8/31/2024	IP 60855	001001	Operation Of An ISFSI	
	6/1/2024	8/31/2024	IP 60856	001003	Review of 10 CFR 72.212(b) Evaluations	

Site Inspection Activity Plan

River Bend

01/01/2024 - 12/31/2025

Unit	Start	End	Activity	CAC	Title	Staff Count
IP95001 Radiation Monitor Supplemental (White)						2
1	1/2/2024	2/23/2024	IP 71152	000748	Problem Identification and Resolution (PI&R)	
1	1/2/2024	2/23/2024	IP 71153	000749	Follow Up of Events and Notices of Enforcement Discretion	
1	1/2/2024	2/23/2024	IP 95001	000938	Supplemental Inspection Response to Action Matrix Column 2 (Regulatory Response) Inputs	
RP 1,4,PI						2
1	3/25/2024	3/29/2024	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	3/25/2024	3/29/2024	IP 71124.04	000728	Occupational Dose Assessment	
1	3/25/2024	3/29/2024	IP 71151	001397	Performance Indicator Verification	
Security Equipment (.04), Security Training (.07)						2
1	3/25/2024	3/29/2024	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1	3/25/2024	3/29/2024	IP 71130.07	000739	Security Training	
EP Exercise & PI Inspection (2024) - RBS						4
1	6/24/2024	6/28/2024	IP 71114.01	000716	Exercise Evaluation	
1	6/24/2024	6/28/2024	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1	6/24/2024	6/28/2024	IP 71151	001397	Performance Indicator Verification	
RP 6,7						2
1	7/8/2024	7/12/2024	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1	7/8/2024	7/12/2024	IP 71124.07	000731	Radiological Environmental Monitoring Program	
RBS 2024 BRQ						3
1	9/8/2024	9/14/2024	IP 71111.11B	000704	Licensed Operator Regualification Program and Licensed Operator Performance	
Commercial Grade Dedication Inspection - River Bend Station						3
1	9/9/2024	9/13/2024	IP 71111.21N.03	001808	Commercial Grade Dedication	
1	9/23/2024	9/27/2024	IP 71111.21N.03	001808	Commercial Grade Dedication	
Security Access Control (.02), Security Plan Changes (.09), Security PIV (71151)						1
1	10/7/2024	10/11/2024	IP 71130.02	000734	Access Control	
1	10/7/2024	10/11/2024	IP 71130.09	001656	Security Plan Changes	
1	10/7/2024	10/11/2024	IP 71151	001338	Performance Indicator Verification	
Target Set Inspection (71130.14)						1
1	10/21/2024	10/22/2024	IP 71130.14	000743	Review of Power Reactor Target Sets	
MC&A - Material Control and Accounting						1
1	11/12/2024	11/15/2024	IP 71130.11	000742	Material Control and Accounting (MC&A)	
RBS 2024 INITIAL EXAM						5

Site Inspection Activity Plan

1	10/6/2024	10/12/2024	OV	000956	FB-OR-ONSITE VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1	11/17/2024	11/23/2024	EXAD	000500	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	
Cyber Security Inspection - RBS						4
1	2/10/2025	2/14/2025	IP 71130.10	000741	Cybersecurity	
RP 1,3,PI - RBS						2
1	2/24/2025	2/28/2025	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	2/24/2025	2/28/2025	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1	2/24/2025	2/28/2025	IP 71151	000746	Performance Indicator Verification	
Inservice Inspection- RBS						1
1	3/3/2025	3/12/2025	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	
License Renewal 71003- RBS (Phase 2)						5
1	5/5/2025	5/9/2025	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
1	5/19/2025	5/23/2025	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
RBS 2025 Biennial PI&R						4
1	5/19/2025	5/23/2025	IP 71152B	000747	Problem Identification and Resolution	
1	6/2/2025	6/6/2025	IP 71152B	000747	Problem Identification and Resolution	
Security Access Control (71130.02), Security Plan Changes (71130.09), Security PIV (71151)						1
1	6/23/2025	6/27/2025	IP 71130.02	000734	Access Control	
1	6/23/2025	6/27/2025	IP 71130.09	001656	Security Plan Changes	
1	6/23/2025	6/27/2025	IP 71151	001338	Performance Indicator Verification	
EP 2025 Program Inspection - RBS						1
1	7/14/2025	7/18/2025	IP 71114.02	000717	Alert and Notification System Testing	
1	7/14/2025	7/18/2025	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1	7/14/2025	7/18/2025	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1	7/14/2025	7/18/2025	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1	7/14/2025	7/18/2025	IP 71151	001397	Performance Indicator Verification	
RP 5,8 - RBS						2
1	8/4/2025	8/8/2025	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1	8/4/2025	8/8/2025	IP 71124.08	000732	Radioactive Solid Waste Processing & Radioactive Material Handling, Storage, & Transportation	
Age-Related Degradation Inspection - River Bend Station						3
1	9/8/2025	9/12/2025	IP 71111.21N.04	001832	Age-Related Degradation	
1	9/22/2025	9/26/2025	IP 71111.21N.04	001832	Age-Related Degradation	
FORCE-ON-FORCE PLANNING AND EXERCISE WEEKS - RB						5
1	9/29/2025	10/3/2025	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1	10/20/2025	10/24/2025	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
RBS 2025 INITIAL EXAM						4

Site Inspection Activity Plan

1	10/19/2025	10/25/2025	OV	000956	FB-OR-ONSITE VALIDATION OF INITIAL LICENSE EXAMINATION (OV)
1	11/16/2025	11/22/2025	EXAD	000500	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)