



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION IV
1600 E. LAMAR BLVD.
ARLINGTON, TX 76011-4511

March 2, 2016

William F. Maguire
Interim 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 05000458/2015006)**

Dear Mr. Maguire:

On February 17, 2016, the U.S. Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance review of the River Bend Station. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2015 through December 31, 2015. 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 determined the performance at the River Bend Station during the most recent quarter was within the Regulatory Response Column (Column 2) of the NRC's Reactor Oversight Process (ROP) Action Matrix because of one or more greater-than-green Security Cornerstone inputs as described in Inspection Report 05000458/2014406 dated September 24, 2014, (ML14268A573), and one White input in the Mitigating Systems Cornerstone as described in our letter dated September 10, 2015, (ML15253A352).

On October 7, 2015, the NRC completed a supplemental inspection to review the actions taken to address the performance issues associated with the greater-than-green Security Cornerstone input(s) referenced above. Based on the results of this inspection, as described in Inspection Report 05000458/2015409 dated November 2, 2015, (ML15306A420), the greater-than-green Security Cornerstone input(s) are not considered as an Action Matrix input as of the end of the fourth quarter of 2015.

On February 1, 2016, your staff notified the NRC of your readiness for our office to conduct a supplemental inspection to review the actions taken to address the performance issues associated with the White Mitigating Systems Cornerstone finding referenced above. Therefore, in addition to ROP baseline inspections, the NRC plans to conduct a supplemental inspection in accordance with Inspection Procedure 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area," beginning on March 21, 2016. The supplemental inspection will provide assurance that the root causes and contributing causes of risk-significant performance issues are understood; the extent of condition and extent of cause of risk-significant performance issues are identified; and, the corrective actions for risk-significant

performance issues are sufficient to address the root and contributing causes and prevent recurrence.

As discussed in previous assessment letters dated March 4, 2015, (ML15063A562), and September 1, 2015, (ML15243A564), the NRC also plans to conduct a supplemental inspection in accordance with Inspection Procedure 95001 to review the actions taken to address the performance issues associated with a White Unplanned Scrams with Complications PI, which was a White Action Matrix input from the fourth quarter of 2014 through the third quarter of 2015. The NRC has not yet received notification of your readiness for us to conduct this supplemental inspection.

The enclosed inspection plan lists the inspections scheduled through December 31, 2017. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. 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 security related inspections, which will be sent via separate, non-publicly available correspondence.

In response to the accident at Fukushima, the Commission issued Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events." This Order requires licensees to develop, implement, and maintain guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities following a beyond-design-basis external event. Additionally, the Commission issued Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation." This Order requires licensees to have a reliable means of remotely monitoring wide-range Spent Fuel Pool levels to support effective prioritization of event mitigation and recovery actions in the event of a beyond-design-basis external event. The NRC is conducting audits of licensee efforts towards compliance with these Orders. This audit includes an onsite component in order for the NRC to evaluate licensee plans for complying with the Orders, as described in site-specific submittals, and to receive and review information relative to associated open items. This onsite activity will occur in the months prior to a declaration of compliance for the first unit at each site, and will aid staff in development of an ultimate Safety Evaluation for the site. The date for the onsite component at your site is being coordinated with your staff. A site-specific audit plan for the visit will be provided in advance to allow sufficient time for preparations. Following the audit, and after the NRC staff receives the Final Compliance letter for the site, the Final Safety Evaluation will be issued. Then, the NRC staff will confirm through inspections the full implementation of the orders mentioned above by performing Temporary Instruction 191, "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans."

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390, "Public Inspections, Exemptions, Requests for Withholding," a copy of this letter, its enclosure, and your response (if any) will be available electronically for public inspection in the NRC's Public

W. Maguire

- 3 -

Document Room or from the Publicly Available Records (PARS) component of NRC's Agencywide Documents Access and Management 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/
Activity Plan

W. Maguire

- 3 -

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Docket No: 50-458
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Enclosure:
River Bend Station Inspection/
Activity Plan

ADAMS ACCESSION NUMBER: ML16061A414

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|---|---|---|---|--------------------|
| <input checked="" type="checkbox"/> SUNSI Review By: CHY | ADAMS: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Sensitive <input checked="" type="checkbox"/> Non-Sensitive | <input type="checkbox"/> Non-Publicly Available <input checked="" type="checkbox"/> Publicly Available | Keyword NRC-002 |
| OFFICE | BC:DRP/C | D:DRS | D:DRP | |
| NAME | GWarnick | AVegel | TPruett | |
| SIGNATURE | /RA/CYoung, for | /RA/ | /RA/RLantz, for | |
| DATE | 3/1/16 | 3/1/16 | 2/26/16 | |

OFFICIAL RECORD COPY

Letter to William Maguire from Troy Pruett, dated March 2, 2016

SUBJECT: ANNUAL ASSESSMENT LETTER FOR RIVER BEND STATION
(REPORT 05000458/2015006)

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River Bend
Inspection / Activity Plan
04/01/2016 - 12/31/2017

| Unit Number | Planned Dates | | Inspection Activity | Title | No. of Staff on Site |
|-------------|---------------|------------|--|---|----------------------|
| | Start | End | | | |
| | | | EXAM - INITIAL EXAM | | 4 |
| 1 | 08/15/2016 | 08/19/2016 | X02575 | INITIAL EXAM RIVER BEND STATION UNIT 1 (09/2016) | |
| 1 | 09/12/2016 | 09/16/2016 | X02575 | INITIAL EXAM RIVER BEND STATION UNIT 1 (09/2016) | |
| | | | EB2-05T - TRIENNIAL FIRE PROTECTION INSPECTION | | 4 |
| 1 | 04/11/2016 | 04/15/2016 | IP 7111105T | Fire Protection [Triennia] | |
| 1 | 04/25/2016 | 04/29/2016 | IP 7111105T | Fire Protection [Triennia] | |
| | | | ISFSI - ROUTINE ISFSI (ONE WEEK IN MONTH) | | 1 |
| 1 | 05/09/2016 | 05/13/2016 | IP 60855.1 | Operation of an Independent Spent Fuel Storage Installation at Operating Plants | |
| | | | RS 13 PI - RADIATION SAFETY | | 2 |
| 1 | 06/13/2016 | 06/17/2016 | IP 71124.01 | Radiological Hazard Assessment and Exposure Controls | |
| 1 | 06/13/2016 | 06/17/2016 | IP 71124.03 | In-Plant Airborne Radioactivity Control and Mitigation | |
| 1 | 06/13/2016 | 06/17/2016 | IP 71151-OR01 | Occupational Exposure Control Effectiveness | |
| 1 | 06/13/2016 | 06/17/2016 | IP 71151-PR01 | RETS/ODCM Radiological Effluent Occurrences | |
| | | | EP-2 - EP PERFORMANCE INDICATORS | | 2 |
| 1 | 06/27/2016 | 07/01/2016 | IP 71151-EP01 | Drill/Exercise Performance | |
| 1 | 06/27/2016 | 07/01/2016 | IP 71151-EP02 | ERO Readiness | |
| 1 | 06/27/2016 | 07/01/2016 | IP 71151-EP03 | Alert & Notification System Reliability | |
| | | | EP-3 - BIENNIAL EXERCISE INSPECTION | | 4 |
| 1 | 06/27/2016 | 07/01/2016 | IP 7111401 | Exercise Evaluation | |
| 1 | 06/27/2016 | 07/01/2016 | IP 7111404 | Emergency Action Level and Emergency Plan Changes | |
| | | | INSP - BIENNIAL REQUAL INSPECTION | | 2 |
| 1 | 08/29/2016 | 09/02/2016 | IP 7111111B | Licensed Operator Requalification Program | |
| | | | 71111.08 - INSERVICE INSPECTION | | 1 |
| 1 | 02/13/2017 | 02/17/2017 | IP 7111108G | Inservice Inspection Activities - BWR | |
| | | | RS 12 PI - RADIATION SAFETY | | 3 |
| 1 | 02/13/2017 | 02/17/2017 | IP 71124.01 | Radiological Hazard Assessment and Exposure Controls | |
| 1 | 02/13/2017 | 02/17/2017 | IP 71124.02 | Occupational ALARA Planning and Controls | |
| 1 | 02/13/2017 | 02/17/2017 | IP 71151-OR01 | Occupational Exposure Control Effectiveness | |
| 1 | 02/13/2017 | 02/17/2017 | IP 71151-PR01 | RETS/ODCM Radiological Effluent Occurrences | |
| | | | EB1-21T - RBS COMPONENT DESIGN BASIS INSPECTION | | 5 |
| 1 | 03/27/2017 | 04/28/2017 | IP 7111121 | Component Design Bases Inspection | |
| | | | TSB 52B - BIENNIAL PI&R | | 5 |
| 1 | 06/12/2017 | 06/16/2017 | IP 71152B | Problem Identification and Resolution | |

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

River Bend
Inspection / Activity Plan
04/01/2016 - 12/31/2017

| Unit Number | Planned Dates | | Inspection Activity | Title | No. of Staff on Site |
|-------------|---------------|------------|---|---|----------------------|
| | Start | End | | | |
| | | | TSB 52B - BIENNIAL PI&R | | 5 |
| 1 | 06/26/2017 | 06/30/2017 | IP 71152B | Problem Identification and Resolution | |
| | | | EP-1 - BIENNIAL EP PROGRAM INSPECTION | | 1 |
| 1 | 07/24/2017 | 07/28/2017 | IP 7111402 | Alert and Notification System Testing | |
| 1 | 07/24/2017 | 07/28/2017 | IP 7111403 | Emergency Preparedness Organization Staffing and Augmentation System | |
| 1 | 07/24/2017 | 07/28/2017 | IP 7111404 | Emergency Action Level and Emergency Plan Changes | |
| 1 | 07/24/2017 | 07/28/2017 | IP 7111405 | Correction of Emergency Preparedness Weaknesses and Deficiencies | |
| | | | EP-2 - EP PERFORMANCE INDICATOR VERIFICATION | | 1 |
| 1 | 07/24/2017 | 07/28/2017 | IP 71151-EP01 | Drill/Exercise Performance | |
| 1 | 07/24/2017 | 07/28/2017 | IP 71151-EP02 | ERO Readiness | |
| 1 | 07/24/2017 | 07/28/2017 | IP 71151-EP03 | Alert & Notification System Reliability | |
| | | | RS 5678 - RS TEAM | | 5 |
| 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 | |
| | | | EB1-07T - RBS HEAT SINK PERFORMANCE | | 1 |
| 1 | 09/18/2017 | 09/22/2017 | IP 7111107T | Heat Sink Performance | |
| | | | EB2-02 - LICENSE RENEWAL INSPECTION | | 4 |
| 1 | 11/27/2017 | 12/01/2017 | IP 71002 | License Renewal Inspection | |
| 1 | 12/11/2017 | 12/15/2017 | IP 71002 | License Renewal Inspection | |

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