



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
WASHINGTON, D.C. 20555-0001

December 6, 2017

Mr. William F. Maguire
Site Vice President
Entergy Operations, Inc.
River Bend Station, Unit 1
5485 U.S. Highway 61 N
St. Francisville, LA 70775

SUBJECT: RIVER BEND STATION, UNIT 1 - SUMMARY OF THE LICENSE RENEWAL APPLICATION REVIEW SEVERE ACCIDENT MITIGATION ALTERNATIVES SITE AUDIT (EPID L-2017-LNE-0026)

Dear Mr. Maguire:

A review team consisting of staff from the U.S. Nuclear Regulatory Commission (NRC or the staff) and an NRC contractor from Pacific Northwest National Laboratories participated in a severe accident mitigation alternatives (SAMA) site audit from October 23-25, 2017, at River Bend Station, Unit 1 (RBS), as part of the license renewal application environmental review. The goal of the audit was to review documentation and gather information to ensure that the environmental requirements for license renewal, as codified in Title 10 of the *Code of Federal Regulations* Part 51 were met. A letter dated October 13, 2017 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML17284A100) was sent to you containing an audit plan. The enclosure is a list of those who participated in the audit.

The audit began on October 23, 2017, with an entrance meeting to introduce participants and discuss audit logistics. Next, participants discussed the following topics relative to the SAMA analysis: (1) Level 1 internal events Probabilistic Risk Assessment (PRA), (2) Level 2 model PRA, (3) external events, (4) Level 3 consequence analysis, (5) identification and screening of potential SAMAs, (6) cost-benefit analysis of SAMAs, and (7) potential lower cost alternative SAMAs.

At the conclusion of the site audit, the NRC staff summarized the status of the review with Entergy representatives during the exit meeting. Most of the NRC's questions identified in the audit plan or during the audit were answered through the conduct of the audit. Those that were not will be answered by Entergy, as it responds to a request for additional information (RAI) letter (ADAMS Accession No. ML17317A002).

W. F. Maguire

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If you have any questions on this matter, please contact David Drucker by telephone at 301-415-6223 or by e-mail at David.Drucker@nrc.gov.

Sincerely,

/RA/

Eric R. Oesterle, Chief
License Renewal Projects Branch
Division of Materials and License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-458

Enclosure: As stated

cc w/encls: Distribution via Listserv

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VDricks, RIV OPA
AMoreno, OCA
SBurnell, OPA
Rbuckle@entergy.com
Lpott90@entergy.com
alacey@entergy.com

ADAMS Accession No.: ML17324A506

OFFICE	PM:MRPB:DMLR	LA: MRPB:DMLR	BC: MRPB:DMLR
NAME	DDrucker	YEdmonds	EOesterle
DATE	12/5/2017	11/29/2017	12/6/2017

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**RIVER BEND STATION, UNIT 1
LICENSE RENEWAL APPLICATION REVIEW
SEVERE ACCIDENT MITIGATION ALTERNATIVES SITE AUDIT
October 23–25, 2017**

PARTICIPANT

Jerry Dozier
Ben Beasley
Steve Short
Bob Schmidt
Rick Buckley
Paul A. Sicard
Lori Potts
Gary Smith
Jeffrey Leary

ORGANIZATION

U.S. Nuclear Regulatory Commission (NRC)
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