

Entergy Operations, Inc.

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David N. Lorfing Manager-Licensing

March 8, 2007

U. S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, DC 20555

Subject:

Licensee Event Report 50-458 / 07-001-00

River Bend Station - Unit 1

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

File Nos.

G9.5, G9.25.1.3

RBG-46663 RBF1-07-0037

Ladies and Gentlemen:

In accordance with 10CFR50.73, enclosed is the subject Licensee Event Report. This document contains no commitments.

Sincerely,

David N. Lorfing

Manager - Licensing

DNL/dhw Enclosure

IE22

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cc: U. S. Nuclear Regulatory Commission Region IV 611 Ryan Plaza Drive, Suite 400 Arlington, TX 76011

> NRC Sr. Resident Inspector P. O. Box 1050 St. Francisville, LA 70775

INPO Records Center E-Mail

Mr. Jim Calloway Public Utility Commission of Texas 1701 N. Congress Ave. Austin, TX 78711-3326

Mr. Jeff Meyers Louisiana Department of Environmental Quality Office of Environmental Compliance P.O. Box 4312 Baton Rouge, LA 70821-4312

																		
NRC FOR	RM 366	U.S. NUCLEAR REGULATORY COMMISSION							APPROVE	D BY OMB:	NO. 3150-01	04	EXPIRES:	06/30/2007				
LICENSEE EVENT REPORT (LER)										Estimated burden per response to comply with this mandatory collection request: 50 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the Records and FOIA/Privacy Service Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0104), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may								
digits/characters for each block)										not conduct or sponsor, and a person is not required to respond to, the information collection.								
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4. TITLE Spec	ial Nu	uclear N	/lateria	l Inventory	Errc	or												
5. EVENT DATE			6. I	LER NUMBER	7. REPORT DATE			8. OTHER FACILITIE										
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02	06	2007	2007	- 001 -	00	03	08	2007	FACILITY					5000				
9. OPERATING MODE 11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR§: (Check all that apply)												apply)						
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FACILITY NAME David N. Lorfing, Manager – Licensing									TELEPHONE NUMBER (Include Area Code) 225-381-4157									
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14. SUPPLEMENTAL REPORT EXPECTED											(PECTED	MONTH	DAY	YEAR				
☐ YES (If yes, complete 15. EXPECTED SUBMISSION DATE)								SUBMISSION DATE										
ABSTRA	CT (Lim	it to 1400	spaces, i	i.e., approxima	itely 1	5 single-sp	oaced type	written li	nes)									

On February 6, 2007, at 6:15 p.m. CST, the determination was made that a non-irradiated traversing incore probe (TIP) was not in its expected storage location. According to the special nuclear material inventory records, the TIP was stored in a container in the radioactive waste building on the plant site. During an inspection of the container, the TIP could not be found. A subsequent investigation concluded that the TIP was likely shipped to the licensed disposal facility at Barnwell, SC in November 2000. A non-irradiated TIP typically contains approximately 0.75 milligrams of uranium-235, and has a contact dose reading of less than 0.5 millirem per hour. While the investigation indicates that the TIP was likely shipped to a licensed disposal facility, this condition is being conservatively reported in accordance with 10CFR20.2201(a)(1)(ii) as a loss of licensed material of a quantity greater than ten times the quantity specified in Appendix C of that part.

(1-2001)

LICENSEE EVENT REPORT (LER)

FAILURE CONTINUATION

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REPORTED CONDITION

During an inventory of non-fuel special nuclear material (SNM), it was found that traversing incore probe (TIP) no. TJVA6-788 was not in its expected location. Storage records indicated that the material was in a sealed container in the radioactive waste building. While the investigation indicates that the TIP was likely shipped to a licensed disposal facility, this condition is being conservatively reported in accordance with 10CFR20.2201(a)(1)(ii) as a loss of licensed material of a quantity greater than ten times the quantity specified in Appendix C of that part.

TIP TJVA6-788 was requisitioned from the site warehouse to replace a failed probe on March 13, 1997. During pre-installation checks, the new TIP failed a voltage check and was deemed unusable. The new TIP was moved to the source storage room in the Radiation Protection shop. On March 20, 1997, the new TIP was moved to the SNM storage area of the radioactive waste building.

On November 16, 2000, reactor engineers completed an inventory of SNM in the radioactive waste building storage area in preparation for shipping activities. Approximately twenty SNM items were sealed in drums to be inserted into transport containers. During this activity, the non-SNM parts (i.e., cables, connectors, etc.) of the TIP that failed in March 1997 were mistakenly identified as TIP TJVA6-788, based on the description and date on the radioactive materials tag, and were sealed in a drum. This drum was subsequently excluded from the shipment, and remained in the radioactive waste building. A review of annual SNM inventories conducted since 2000 confirmed that the drum remained sealed.

On February 6, 2007, preparations were being made for another SNM disposal shipment. An inventory of the drum that had been sealed in November 2000 found that TIP TJVA6-788 was not inside. An investigation of this issue was conducted. Based on that investigation, it is believed that TIP TJVA6-788 was shipped to the licensed disposal facility at Barnwell, SC, in November 2000.

DESCRIPTION OF LICENSED MATERIAL

TIP TJVA6-788 was originally received at the station in 1984. Specific data for that probe is not available, but certification data for a typical TIP was obtained from the current vendor. The material contained in a TIP is uranium oxide, with a total mass of approximately 0.9 milligrams. Of that quantity, approximately 0.75 milligrams is the isotope uranium-235. The total activity in a TIP is approximately 0.05 microcuries.

(1-2001)

LICENSEE EVENT REPORT (LER)

FAILURE CONTINUATION

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CORRECTIVE ACTIONS TO PREVENT RECURRENCE

Procedures for control of SNM will be revised to address:

- labeling / tagging of failed SNM items, specifically to include the item serial numbers,
- · conduct of annual inventories, and,
- methods of positive verification of presence of SNM.

These actions are being tracked in the station's corrective action program.

SAFETY SIGNIFICANCE

TIP TJVA6-788 had never been put into service, and thus had never been irradiated. The contact dose reading for a non-irradiated TIP is less than 0.5 millirem per hour. As the TIP was likely contained within the controlled waste process stream, it is reasonable to conclude that no exposure occurred in any unrestricted areas as a result of this event. Given the item's low activity and dose reading, its contribution to the dose received by any radiation workers involved in the waste handling process was very low.