

Entergy Operations, Inc. River Bend Station 5485 U. S. Highway 61N St. Francisville, LA 70775 Fax 225 635 5068

RBG-46276

May 12, 2004

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

- SUBJECT: River Bend Station, Unit 1 Docket No. 50-458 Supplement to Amendment Request License Amendment Request (LAR) 2001-43, "High Energy Line Break Analysis Method"
- REFERENCES: (1) Letter RBG-45940 to USNRC from P. D. Hinnenkamp dated May 14, 2002

(2) Letter RBG-45985 to USNRC from R. J. King dated June 27, 2002

(3) Letter RBG-46124 to USNRC from R. J. King dated July 9, 2003

(4) Letter RBG-46250 to USNRC from R. J. King dated April 7, 2004

Dear Sir or Madam:

By letter (Reference 1), Entergy Operations, Inc. (Entergy) proposed a change to the method of analysis for the High Energy Line Breaks in the subcompartments inside and outside of containment. The change submitted for NRC review and approval involved the use of the GOTHIC code for this analysis. Reference (2) was in response to discussions with the NRC during June 2002, reference (3) was in response to discussions with the NRC during January of 2003 and reference (4) was in response to discussions during January and February of 2004.

In reference (4) a commitment was made to perform analysis of the High Energy Line Break (HELB) using the guidance in the Standard Review Plan Section (SRP) 6.2.1.2 with additional conservatism for breaks involving highly subcooled fluid. During further conversations with the NRC staff, concerns over the control of this commitment were raised.

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To address these concerns RBS will include the commitment in the Updated Safety Analysis Report (USAR) thereby placing any changes to these additional conservatisms under the 10 CFR 50.59 rule.

The original no significant hazards considerations included in Reference 1 is not affected by the information contained in this supplemental letter. The revised commitment is listed in the Attachment to this letter.

If you have any questions or require additional information, please contact Barry Burmeister at 225-381-4148.

I declare under penalty of perjury that the foregoing is true and correct. Executed on May 12, 2004.

Sincerely,

R. J. King Director – Nuclear Safety Assurance

BMB

Attachment: Commitment

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

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

Mr. Michael K. Webb U.S. Nuclear Regulatory Commission M/S OWFN 0-7 D1 11555 Rockville Pike Rockville, MD 20852-2738

Mr. Prosanta Chowdhury Louisiana Dept. of Environmental Quality Office of Environmental Compliance Surveillance Division Radiological Emergency Planning & Response Unit P.O. Box 4312 Baton Rouge, LA. 70821-4312

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Attachment

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RBG-46276

List of Regulatory Commitments

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## List of Regulatory Commitments

The following table identifies those actions committed to by Entergy in this document. Any other statements in this submittal are provided for information purposes and are not considered to be regulatory commitments.

	TYPE (Check and)		SCHEDULED
COMMITMENT			
COMMENT	ACTION	COMPLIANCE	Required)
In performing high energy line break analyses, RBS will assume homogenous equilibrium conditions and 100% water entrainment for all breaks unless it is more conservative to not employ these assumptions as in the case of breaks involving fluid which is initially highly subcooled. This analysis will be accomplished by disabling the forced equilibrium (i.e., enabling thermal hydraulic non-equilibrium model) and enabling the drop-liquid conversion model in GOTHIC. RBS will include the commitment in the Updated Safety Analysis Report (USAR)		X	Within 60 days of amendment issuance