Entergy

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Eric W. Olson
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RBG-47449

March 12, 2014

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

Subject: Licensee Event Report 50-458 / 2014-002-00
River Bend Station – Unit 1
Docket No. 50-458
License No. NPF-47

RBF1-14-0034

Dear Sir or Madam:

In accordance with 10 CFR 50.73, enclosed is the subject Licensee Event Report. This document contains no commitments. If you have any questions, please contact Mr. Joseph Clark at 225-381-4177.

Sincerely,

Eric W. Olson

EWO/dhw

Enclosure

IE22
NRR

cc: U. S. Nuclear Regulatory Commission
Region IV
1600 East Lamar Blvd.
Arlington, TX 76011-4511

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

INPO
(via ICES reporting)

Central Records Clerk
Public Utility Commission of Texas
1701 N. Congress Ave.
Austin, TX 78711-3326

Department of Environmental Quality
Office of Environmental Compliance
Radiological Emergency Planning and Response Section
JiYoung Wiley
P.O. Box 4312
Baton Rouge, LA 70821-4312

NRC FORM 366 (01-2014) U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0104 EXPIRES: 01/31/2017

Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the FOIA, Privacy and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@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 not conduct or sponsor, and a person is not required to respond to, the information collection.

LICENSEE EVENT REPORT (LER)

(See Page 2 for required number of digits/characters for each block)

1. FACILITY NAME	2. DOCKET NUMBER	3. PAGE
River Bend Station - Unit 1	05000 458	1 OF 2

4. TITLE

Operations Prohibited by Technical Specifications for Reactor Pressure Vessel Pressure / Temperature Limits

5. EVENT DATE			6. LER NUMBER			7. REPORT DATE			8. OTHER FACILITIES INVOLVED	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REV NO.	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER
										05000
01	16	2014	2014	- 002	- 00	03	12	2014	FACILITY NAME	DOCKET NUMBER
										05000

9. OPERATING MODE	11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: *(Check all that apply)*			
1	☐ 20.2201(b)	☐ 20.2203(a)(3)(i)	☐ 50.73(a)(2)(i)(C)	☐ 50.73(a)(2)(vii)
	☐ 20.2201(d)	☐ 20.2203(a)(3)(ii)	☐ 50.73(a)(2)(ii)(A)	☐ 50.73(a)(2)(viii)(A)
	☐ 20.2203(a)(1)	☐ 20.2203(a)(4)	☐ 50.73(a)(2)(ii)(B)	☐ 50.73(a)(2)(viii)(B)
	☐ 20.2203(a)(2)(i)	☐ 50.36(c)(1)(i)(A)	☐ 50.73(a)(2)(iii)	☐ 50.73(a)(2)(ix)(A)
10. POWER LEVEL	☐ 20.2203(a)(2)(ii)	☐ 50.36(c)(1)(ii)(A)	☐ 50.73(a)(2)(iv)(A)	☐ 50.73(a)(2)(x)
	☐ 20.2203(a)(2)(iii)	☐ 50.36(c)(2)	☐ 50.73(a)(2)(v)(A)	☐ 73.71(a)(4)
100	☐ 20.2203(a)(2)(iv)	☐ 50.46(a)(3)(ii)	☐ 50.73(a)(2)(v)(B)	☐ 73.71(a)(5)
	☐ 20.2203(a)(2)(v)	☐ 50.73(a)(2)(i)(A)	☐ 50.73(a)(2)(v)(C)	☐ OTHER
	☐ 20.2203(a)(2)(vi)	☑ 50.73(a)(2)(i)(B)	☐ 50.73(a)(2)(v)(D)	Specify in Abstract below or in NRC Form 366A

12. LICENSEE CONTACT FOR THIS LER

FACILITY NAME	TELEPHONE NUMBER *(Include Area Code)*
Joseph A. Clark	(225) 381-4177

13. COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT

CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX
na									

14. SUPPLEMENTAL REPORT EXPECTED	15. EXPECTED SUBMISSION DATE	MONTH	DAY	YEAR
☐ YES *(If yes, complete 15. EXPECTED SUBMISSION DATE)* ☑ NO				

ABSTRACT *(Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)*

On January 16, 2014, a final review of industry operating experience determined that the station's practice of allowing reactor pressure vessel (RPV) pressure to become negative during plant startup constituted a violation of Technical Specifications (TS). The plant was operating at 100 percent power at the time of this determination. Negative RPV pressure is not bounded by TS 3.4.11, Reactor Coolant System Pressure and Temperature Limits. As such, this condition constitutes operations prohibited by TS, and is being reported in accordance 10CFR50.73(a)(2)(i)(B). This condition occurred due to a failure to recognize that a negative RPV pressure is not allowed by the TS. Consequently, the practice was incorporated into the plant startup procedure and operator training. Interim action was taken to modify the use of the plant startup procedure. Subsequently, a revision to the procedure was developed and instituted. An engineering determined that the RPV remained within the established material stress margins. The RPV also remained within established margins with regard to brittle fracture of the RPV ferritic materials. As such, this condition was of minimal significance to the health and safety of the public.

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NARRATIVE

REPORTED CONDITION

On January 16, 2014, a final review of industry operating experience determined that the station's practice of allowing reactor pressure vessel (RPV) pressure to become negative during plant startup constituted a violation of Technical Specifications (TS). The plant was operating at 100 percent power at the time of this determination. Negative RPV pressure is not bounded by TS 3.4.11, Reactor Coolant System Pressure and Temperature Limits. As such, this condition constitutes operations prohibited by TS, and is being reported in accordance 10CFR50.73(a)(2)(i)(B).

CAUSAL ANALYSIS

This condition occurred due to a failure to recognize that a negative RPV pressure is not allowed by the TS. As a consequence, the practice was incorporated into the plant startup procedure and operator training.

CORRECTIVE ACTIONS

Interim action was taken in the issuance of an Operations Standing Order to modify the use of the plant startup procedure. Subsequently, a revision to the procedure was developed and instituted.

SAFETY SIGNIFICANCE

An engineering evaluation of this condition found that, during the past three years (the period of applicability for this reporting criterion), five plant startups were performed in which the RPV pressure was allowed to become negative, with maximum values ranging from -1 psig to -16 psig. An average pressure of -12 psig was assumed for the purposes of assessing the effects on RPV integrity. The lowest reactor coolant temperature recorded during those startups was 122F. This evaluation determined that the RPV remained within the established material stress margins. The RPV also remained within established margins with regard to brittle fracture of the RPV ferritic materials. As such, this condition was of minimal significance to the health and safety of the public.