

Entergy Operations, Inc. P. O. Box 756 Port Gibson, MS 39150

James Nadeau Manager, Regulatory Assurance Grand Gulf Nuclear Station Tel. (601) 437-2103

GNRO-2017/00026

April 25, 2017

U.S. Nuclear Regulatory Commission Attn: Document Control Desk Washington, DC 20555-0001

SUBJECT: Licensee Event Report LER 2017-002-00, Loss of Secondary Containment and Inoperability of the Standby Gas Treatment System Grand Gulf Nuclear Station, Unit 1 Docket No. 50-416 Renewed License No. NPF-29

Dear Sir or Madam:

Attached is Licensee Event Report LER 2017-002-00, Loss of Secondary Containment and Inoperability of the Standby Gas Treatment System. This report is being submitted in accordance with Title 10 Code of Federal Regulations 50.73(a)(2)(v)(C).

This letter contains no new commitments. If you have any questions or require additional information, please contact James Nadeau at 601-437-2103.

Parrel Modeaus Sincerely,

JJN/ram

Attachment: Licensee Event Report (LER) 2017-002-00

cc: see next page

GNRO-2017/00026 Page 2 of 2

> U.S. Nuclear Regulatory Commission ATTN: Mr. Siva Lingam, NRR/DORL (w/2) Mail Stop OWFN 8 B1 Rockville, MD 20852-2738

NRC Senior Resident Inspector Grand Gulf Nuclear Station Port Gibson, MS 39150

U. S. Nuclear Regulatory Commission ATTN: Mr. Kriss Kennedy, NRR/DORL (w/2) Mail Stop OWFN 8 B1 Washington, DC 20555-0001

NRC FORM 366			U.S. NUCLEAR REGULATORY COMMISSION					APPROVED BY OMB: NO. 3150-0104 EXPIRES: 10/31/2020								
(04-2017)			LICENSEE EVENT REPORT (LER) (See Page 2 for required number of digits/characters for each block) (See NUREG-1022, R.3 for instruction and guidance for completing this					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 Information Services Branch (T-2 F43), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by 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.								
form http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1022/r3/)																
1. FACIL	ITY NAM	E							2. DOCKET NUMBER 3. PAGE							
		ar Station,	Unit 1						05000 416				1 OF 3			
4. TITLE																
Loss of Secondary Containment and Inoperability of the Standby Gas Treatment Systems. 5. EVENT DATE 6. LER NUMBER 7. REPORT DATE 8. OTHER FACILITIES INVOLVED									/FD							
MONTH	DAY	YEAR	VEAR SEQUENTIAL REV					FACILITY N				DOCKET NUMBER				
				NUI	MBER NO.					FACILITY NA				<u></u>	DOCKET NUMBER	
2	28	2017	2017 - 002 - 00				04	25	201		N/A 05000 N/A				00 N/A	
	11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check all that apply) 9. OPERATING MODE 0.2201(b) 0.2203(a)(3)(i) 0.5073(a)(2)(ii)(A) 0.5073(a)(2)(iii)(A)															
9. OPEH/	ATING ING	DDE	20.2201(b)			20.2203(a)(3)(i)					50.73(a)(2)(ii)(A)			50.73(a)(2)(viii)(A)		
	MODE 1		20.2201(d)			20.2203(a)(3)(ii)			-		50.73(a)(2)(ii)(B)			50.73(a)(2)(viii)(B)		
		ļ	20.2203(a)(1)			20.2203(a)(4)				<u> </u>	$\Box 50.73(a)(2)(iii)$			$\Box 50.73(a)(2)(ix)(A)$		
		ļ	\Box 20.2203(a)(2)(i)			\Box 50.36(c)(1)(i)(A)				$\Box 50.73(a)(2)(iv)(A)$				□ 50.73(a)(2)(x) □ 73.71(a)(4)		
	ER LEVE		20.2203(a)(2)(ii)			50.36(c)(1)(ii)(A)				50.73(a)(2)(v)(A) 50.73(a)(2)(v)(B)				73.71(a)(4)		
10.1 0.00		L	20.2203(a)(2)(iii)			☐ 50.36(c)(2) ☐ 50.46(a)(3)(ii)				1 50.73(a)(2)(V)(B) 2 50.73(a)(2)(V)(C)				\Box 73.77(a)(5)		
	100	ł	$\square 20.2203(a)(2)(v)$ $\square 20.2203(a)(2)(v)$			50.73(a)(2)(i)(A)				□ 50.73(a)(2)(v)(D)				73.77(a)(2)(i)		
		I	20.2203(a)(2)(v)			⊠ 50.73(a)(2)(i)(B)				50.73(a)(2)(vii)			☐ 73.77(a)(2)(ii)			
							50.73(a)(2)(i)(C)			OTHER Specify in Abstract below						
			<u> </u>		12. LI		NSEE CONT		OR TH		_				-	
FACILITY N James N		/anager,	Regulatory /	Assura	ance							TELEPHON (601) 43			ude Area	Code)
		1	13. COMPL	ETE C	ONE LINE FOR	EA	СН СОМРО	NENT F	AILUR	ie d	ESCRIBE	D IN THIS R	EPOR	т		
CAUSE SYSTEM		YSTEM	COMPON	JENT	MANU- FACTURER	R	EPORTABLE TO EPIX	CA	CAUSE		SYSTEM	COMPONENT		MANU- FACTURER		REPORTABLE TO EPIX
x		NG					Ν	N	i/A		N/A	N/A		N/A		N/A
	I	14. S	UPPLEME	NTAL		ЕСТ	ED	14			15. EXP	ECTED	MC	DNTH	DAY	YEAR
🛛 YES	YES (If yes, complete 15. EXPECTED SUBMISSION DATE)								SUBMISSION DATE			9	29	2017		
ABSTRAC	CT (Limit to	1400 spac	es, i.e., appro	oximate	y 15 single-space	ed t	ypewritten line	is)		1.					<u></u>	
ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) On March 24, 2017, it was determined that the A Standby Gas Treatment System (SGTS A) was not operating as expected. The investigation into the event revealed the Single Nest Power Supply had failed resulting in loss of flow control. It was determined the power supply had been replaced and the technical specification limiting condition for operation exited on February 23, 2017. The A SGTS was not run between replacement of the power supply and the time of discovery condition on March 24, 2017. Additionally, the B SGTS was removed from service for planned corrective and preventative maintenance on February 28, 2017 and returned to service on March 3, 2017. This condition is reportable as a loss of safety function in accordance with 10 CFR 50.73(a)(2)(v)(C) for the time period both the A and B SGTSs were inoperable. The condition is also reportable as a condition prohibited by technical specifications in accordance with 10 CFR 50.73(a)(2)(i)(B) for the A SGTS train being inoperable for a period great than allowed by technical specifications. The cause of this event has been determined to be within the control system of the Single Nest Power Supply. Investigation into the specific cause continues and this licensee event report will be update. Corrective actions included the replacement and testing of the power supply with the initiation of a causal investigation. There were no actual nuclear safety consequences or radiological consequences. No Technical Specification Safety Limits were violated.																

NRC FORM 366A U.S. NUCLEAR REGULATO (6-2016)	DRY COMMISSION		OVED BY OMB: NO. 3150		EXPIRES: 3/31/2020				
LICENSEE EVENT REPO CONTINUATION SH (See NUREG-1022, R.3 for instruction and guidance http://www.nrc.gov/reading-rm/doc-collections/nuree	HEET	Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fad back to industry. Send comments regarding burden estimate to the Information Services Branch (T-2 F43), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-1022, (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.							
1. FACILITY NAME	2. DOCKET			3. LER NUMBER	.				
Grand Gulf Nuclear Station, Unit 1	05000 416		YEAR	SEQUENTIAL NUMBER	REV. NO.				
NARRATIVE				2017 - 002 - 00					
NARRATIVE 2017 - 002 - 00 DESCRIPTION On March 24, 2017, while operating the A Standby Gas Treatment System (SGTS A) the SGTS Flow Recorder was indicated a downscale reading. The Plant Data System computer points indicated a flow mismatch between the available indications of approximately 5000 cubic feet per minute (CFM). Due to the mismatch indications and the downscale reading the surveillance was terminated and Standby Gas "A" was returned to standby. The investigation of the identified conditions determined the failure of the systems was the Single Nest Power Supply. Failure of this power supply would result in a loss of the associated train's flow control. The investigation revealed that the power supply would result in a loss of the associated train's flow control. The investigation revealed that the power supply are replaced and the technical specification limiting condition for operation exited on February 23, 2017. The A SGTS was not run between replacement of the power supply and the time of discovery condition on March 24, 2017. Prior to the power supply being replaced the system had been successfully tested and therefore it was determined that this condition could only have been present since the installation of the new Power Supply was completed on February 23, 2017. The investigation further revealed that the B SGTS was removed from service for planned corrective and preventative maintenance on February 28, 2017 and returned to service on March 3, 2017. The above described condition rendered the A SGTS inoperable and also resulted in a period when both SGTSs were inoperable during the same time period. REPORTABILITY This condition is also reportable as a loss of safety function in accordance wi									
	Pa	ge 2 ol	f 3						

NRC FORM (6-2016)	366A U.S. NUCLEAR REGULAT LICENSEE EVENT REP CONTINUATION SI (See NUREG-1022, R.3 for instruction and guidam http://www.nrc.gov/reading-rm/doc-collections/nure	ORT (LER) HEET œ for completing this form	Estima Report industr F43), I Infocol Regula Washi display	APPROVED BY OMB: NO. 3150-0104 EXPIRES: 3/31/2020 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 Information Services Branch (T-2 F43), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by 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.						
	1. FACILITY NAME	2. DOCKET		3. LER NUMBER						
Grand Gulf Nuclear Station, Unit 1		05000 410		YEAR	SEQUENTIAL NUMBER	REV. NO.				
		05000 416		2017 - 002 - 00						

NARRATIVE

CORRECTIVE ACTIONS

The defective power supply was replaced and tested satisfactory.

The event was entered into the Grand Gulf Nuclear Station corrective action program and a causal investigation was initiated.

SAFETY SIGNIFICANCE

There were no actual nuclear safety consequences or radiological consequences as a result of this power supply failure. No Technical Specification Safety Limits were violated.

PREVIOUSLY SIMILAR EVENTS

LER 2015-002-00 Loss of Secondary Containment Differential Pressure During Drawdown Testing LER 2015-003-00 Technical Specification Surveillance on Primary Containment Isolation Valves LER 2016-003-00 Loss of Secondary Containment Safety Function During Routine Roof Inspection

The identified licensee event reports were reviewed and it has been determined that the causes and corrective actions for the previously identified events were sufficiently different that they could not have predicted or prevented the occurrence of this event.