

South Texas Project Electric Generating Station P.O. Box 289 Wadsworth, Texas 77483

May 11, 2017 NOC-AE-17003479 10 CFR 50.73

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

## South Texas Project Unit 1 Docket No. STN 50-498 Licensee Event Report 2017-001-00 Unit 1 Failure of a Timing Relay During a Technical Specification Surveillance

Pursuant to 10 CFR 50.73(a)(2)(i)(B), STP Nuclear Operating Company (STPNOC) hereby submits the attached South Texas Project (STP) Unit 1 Licensee Event Report (LER) 2017-001-00 for a condition prohibited by Technical Specifications.

The event was of very low risk significance and no radioactive release occurred; therefore, there was no adverse effect on the health and safety of the public.

There are no commitments in this letter.

If there are any questions, please contact Rafael Gonzales at (361) 972-4779 or me at (361) 972-7344.

James Connolly Site Vice Procisi

rjg

Attachment: Unit 1 LER 2017-001-00

cc: (paper copy)

Regional Administrator, Region IV U.S. Nuclear Regulatory Commission 1600 East Lamar Boulevard Arlington, TX 76011-4511

Lisa M. Regner Senior Project Manager U.S. Nuclear Regulatory Commission One White Flint North (O8H04) 11555 Rockville Pike Rockville, MD 20852

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NRC FORM 366		U.S. NUCLEAR REGULATORY COMMISSION				N APPROVED BY OMB: NO. 3150-0104 EXPIRES: 03/31					3/31/2020				
(04-2017) (See N http	(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 fon http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1022/r3/)					<b>?)</b> block) his form <u>l/r3/</u> )	Estimated burden per response to comply with this mandatory collection request: 80 h Reported lessons learned are incorporated into the licensing process and fed back to indi Send comments regarding burden estimate to the Information Services Branch (T-2 F43), Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to Infocol Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory At NEOB-10202, (3150-0104), Office of Management and Budget, Washington, DC 20503. If a rr used to impose an information collection does not display a currently valid OMB control nu the NRC may not conduct or sponsor, and a person is not required to respond to, the inform collection.					: 80 hours. to industry. ? F43), U.S. Infocollects. tory Affairs, . If a means ttrol number, e information			
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	1		20.2201(b) 20.2203(a)(3)(i)			(a)(3)(i)		☐ 50.73(a)(2)(ii)(A)			☐ 50.73(a)(2)(viii)(A)				
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						12. LICENS	EE CON	TACT FO	r Thi	S LER					
	CONTACT	ales. Lice	ensina l	Engineer							TELEPHON (361) 9	E NUMBER (Inc 172-4779	clude Area	Code)	
		,	13	B. COMPLETE	E ONE LIN	NE FOR EAC	H COMP	ONENT FA	ILURE	DESCRIBED	IN THIS REPORT	Г			
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underv	oltage	e timing	relavs	in a Saf	etv rel	ated 4.16	6kV sv	vitchge	ar w	as greater	than the Te	echnical	Spec	fica	tion
allowa	lowable value. The relay was retested without making any changes to the relay timing or the test configuration														

allowable value. The relay was retested without making any changes to the relay timing or the test configuration. The second test resulted in a lower value that was within the Technical Specification allowable value but outside the acceptance criteria of the procedure. A third test (and subsequent follow-up testing) resulted in values that met Technical Specification limits. The associated channel was declared Operable.

On March 14, 2017, an engineer reviewed the surveillance results and questioned the reliability of the relay based on its behavior. The Control Room was contacted and the relay was replaced. Based on the engineer's analysis, the Shift Manager determined that the relay should not have been declared Operable on March 10. The Technical Specification Action Statement required the inoperable channel to be placed in the tripped condition within 72 hours. This Action was not met and is reportable as a condition prohibited by Technical Specifications per 10 CFR 50.73(a)(2)(i)(B). The event was of very low risk significance and no radioactive release occurred; therefore, there was no adverse effect on the health and safety of the public.

NRC FORM 36	66A	U.S. NUCLEAR REGULA	TORY COMMISSION	APPROVED BY OMB: NO. 3150-010	)4	EXPIRES:	3/31/2020
(See NUREG- http://www.nrc.	1022 .gov/	LICENSEE EVENT RI CONTINUATION S R, R.3 for instruction and guidance for reading-rm/doc-collections/nuregs/s	EPORT (LER) SHEET or completing this form taff/sr1022/r3/)	Estimated burden per response to comply wi lessons learned are incorporated into the comments regarding burden estimate to the Regulatory Commission, Washington, Infocollects.Resource@nrc.gov, and to the D NEOB-10202, (3150-0104), Office of Manag used to impose an information collection doe NRC may not conduct or sponsor, and a collection.	th this mandator e licensing proc Information Ser DC 205 esk Officer, Offic ement and Budg as not display a o person is not r	y collection request: 80 ho ess and fed back to i vices Branch (T-2 F43), 55-0001, or by e of Information and Reg et, Washington, DC 2050 jurrently valid OMB contr equired to respond to, th	burs. Reported industry. Send U.S. Nuclear e-mail to ulatory Affairs, (3. If a means of number, the he information
1. FACILITY N	NAM	E	2. DOCKET N	UMBER		3. LER NUMBER	1
South Texa	as L	Init 1	05000-498		YEAR	SEQUENTIAL NUMBER	REV NO.
					2017	- 001	- 00
NARRATIVE							
I.	De	scription of Event					
	A.	Reportable event classif Since Technical Specific CFR 50.73(a)(2)(i)(B).	ication cation 3.3.2, Acti	on 20A was not met, this	event is 1	eportable und	er 10
	B.	Plant operating conditio Prior to the event at 104 power.	ns prior to event 5 on March 10, 2	2017, Unit 1 was operating	g in Mode	e 1 at 100 perc	ent
	C.	Status of structures, syst and that contributed to t	tems, and composite the event	nents (SSCs) that were ine	operable	at the start of t	he even
		Other than the undervolt components that were in	tage relay being to the state of the state o	tested, there were no other tart of the event that contr	r systems ributed to	, structures, or the event.	
	D.	Narrative summary of th During a Technical Spec- timing relay (Undervolta Connectivity, system ide switchgear, was greater 1.93 seconds. The perfor- greater than the Technic consulted with the Elect relay component as allow	the event cification surveill age Agastat Timi entifier EB, comp than the Technic ormers of the surv al Specification a rical Maintenanc wed by the proce	ance, the as-found operating Relay, model number is bonent identifier 62), insta al Specification allowable veillance measured the as- allowable value. The Cone Supervisor and directed dure, and continue with the statement of the supervisor and statement	ing time ( ETR14D2 Illed in a value eq found tes trol Roor the perfo ne test.	(3.295 seconds 3A004, made l safety related ual to or less t at value and it n Unit Superv ormers to adjus	s) of a by TE 4160 kV han was isor st the
		Before continuing the su ensure the equipment wa to the testing equipment adjustment, and the resu performed with a result acceptance criteria of 1.7 results, (i.e., a value of 1 directions, during relay to	The maintenan as functioning co The maintenan It was 1.902 secco of 1.766 seconds 715 to 1.785 secco .766 seconds) ob retesting, no adju	spection of the testing equ rrectly. No issues were fo ce personnel retested the r onds. Due to the change in , which was within the pro- onds. Additional re-tests v otained. Contrary to Cont astments were made to the	tipment w und and t relay timi n value, a escribed a were perf rol Room timing re	vas performed no changes we ng, without in additional te as-left procedu formed with the Unit Supervise elay.	to ere made est was ire e same sor's
		The Surveillance Test w the component was decl	as completed and ared Operable.	d logged as satisfactory at	1202 on	March 10, 201	17, and

	66A U.S. NUCLEAR REGUL	ATORY COMMISSION	APPROVED BY OMB: NO. 3150-01	04	EXPIRES:	3/31/2020
*****	LICENSEE EVENT R CONTINUATION	EPORT (LER) SHEET	Estimated burden per response to comply w lessons learned are incorporated into th comments regarding burden estimate to the Regulatory Commission, Washingtor Infocollects.Resource@nrc.gov, and to the D	vith this mandator le licensing proc e Information Ser n, DC 205 Desk Officer, Offic	y collection request: 80 h cess and fed back to vices Branch (T-2 F43), 555-0001, or by ce of Information and Rec	industry. Seno U.S. Nuclea e-mail to pulatory Affairs
See NUREG	-1022, R.3 for instruction and guidance c.gov/reading-rm/doc-collections/nuregs	for completing this form /staff/sr1022/r3/)	NEOB-10202, (3150-0104), Office of Manaç used to impose an information collection do NRC may not conduct or sponsor, and a collection.	gement and Budg es not display a person is not r	et, Washington, DC 2050 currently valid OMB contr equired to respond to,	03. If a mean ol number, th the informatio
. FACILITY	NAME	2. DOCKET N	JMBER		3. LER NUMBER	
South Tex	as Unit 1	05000-498		YEAR	SEQUENTIAL NUMBER	REV NO.
				2017	- 001	- 00
	<ul> <li>Definition of discovery</li> <li>On March 14, 2017, an surveillance test for the based on the relay timin status with no adjustme Engineer's analysis, the declared Operable on N hours. Technical Specific The Shift Manager detereplaced. Technical Sp tripped condition within replaced, satisfactory of declared Operable.</li> </ul>	STP engineer con e relay and determ ng found outside T ents. The Control e Unit 1 Shift Mar March 10 and decla ification 3.3.2, Ac ermined that the re pecification 3.3.2, I n 72 hours. The fa	npleted a review of the co ined that the relay reliabil Fechnical Specification li Room was contacted and hager determined that the ared it inoperable on Mar tion 20A, was entered. Hay should have remained Action 20A, requires the ailed undervoltage timing eillance test was performed	ondition r lity was q mits and r l, based or relay sho rch 14, 20 d Inoperal channel to relay wa ed, and th	report docume (uestionable. 7 returned to Op n the System uld not have to 17 at 1500 ble on March o be placed in s subsequently	nting th This wa berable been 10 until the y was
II.	Event-Driven Information A. Safety Systems that Re This event did not initia	sponded ate any automatic	or manual safety system	responses	3.	
	B. Duration of Safety Syst The failed relay was de 99 hours prior to discov surveillance test results operable within 24 hou equipment was determined	tem Inoperability etermined to be ind very. The failed c s. Following disco rs. Based on the l ined to be capable	operable per Technical Sp omponent was discovered overy, the relay was repla ast successful surveillance of performing its safety t	becification d as a resur- ced and the ce test, the function is	ons for approx ult of reviewin he channel dec e last time the s September 2	imately ng clared 22, 2016
	C. Safety Consequences a During the event, the co- under voltage condition function of the system. performed as designed.	nd Implications of ondition of the sys n remained intact f If an actual unde	f the Event stem was in a 2 out of 4 le for a 2 out of 3 logic, and rvoltage condition occurr	ogic scher thus main red, the ot	me. Protection ntained the sat her relays wor	n for an fety uld have

NRC FORM 366A U.S. NUCLEAR REGULA	ATORY COMMISSION	APPROVED BY OMB: NO. 3150-010	4	EXPIRES:	3/31/2020
(See NUREG-1022, R.3 for instruction and guidance f	Estimated burden per response to comply with this mandatory collection request: 80 hours. Reporter essons learned are incorporated into the licensing process and fed back to industry. Sen comments regarding burden estimate to the Information Services Branch (T-2 F43), U.S. Nuclea Regulatory Commission, Washington, DC 20555-0001, or by e-mail the 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 mean 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 environment.				
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South Texas Unit 1	05000-498		TEAN	NUMBER	NO.
			2017	- 001	- 00
<ul> <li>III. Cause of the Event Based on the conditions ide manufacturer subject matter retained following the event recreated, and the failure m The causes for the event we 1. Unidentified Materia</li> <li>2. Less than adequate a</li> <li>3. Less than adequate a</li> <li>3. Less than adequate a</li> <li>The start of this event consist Technical Specification requester observed in subsequent reter</li> <li>The Electrical Maintenance on this task. The relay did to surveillance interval, and the from the supervisor as expected that further exponence procedure allowed the action</li> <li>In addition, the Control Roof adverse performance of the adjustment was made to the information was collected to surveillance rather than sim</li> </ul>	entified and using r expert, the cause it, and inspected v iode and mechanis ere the following: al Condition with questioning attitu questioning attitu questioning attitu isted of the under- uired value. Afte ests. The failed co e Supervisor did n not exhibit the rel- nis was not recogne- ertise was needed ons as performed, om staff displayed relay. When the e timing relay, bot o ensure that it was ply agreeing with	information collected dur e of the component failure with satisfactory results. T sm is not known. the failed component (i.e de by Electrical Maintena de by Operations Personn voltage relay as-found oper r retesting, the surveillance ondition could not be recre- ot exhibit sufficient questi- iability to perform within nized. Though the electric estioning attitude from the to proceed. In addition, a but the procedure intent w I an inadequate questioning information was shared w h individuals should have as appropriate to proceed of the results of the completion of the results of the completion	ing discus is not kn 'he failure - relay) nce Perso el erating tim e test tim eated upor ioning atti- limits thr ians did re supervise a misinter vas not man ng attitude with closi ted test.	ssions with th own. The rel could not be nnel ne being outsi ing improved n further testin itude when co ough the next equest clarific or would have pretation of th aintained. regarding the ontrol Room t d adequate ng out the	e relay ay was de the as ng. onsulted cation e hat no

NRC FORM 366A	U.S. NUCLEAR REGULA	TORY COMMISSION	APPROVED BY OMB: NO. 3150-010	4	EXPIRES: 3	3/31/2020	
(04-2017) <b>LICENSEE EVENT REPORT (LER)</b> <b>CONTINUATION SHEET</b> (See NUREG-1022, R.3 for instruction and guidance for completing this form http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1022/r3/)			Estimated burden per response to comply with this mandatory collection request: 80 hours. Reporte lessons learned are incorporated into the licensing process and fed back to industry. Sen comments regarding burden estimate to the Information Services Branch (T-2 F43), U.S. Nuclea Regulatory Commission, Washington, DC 20555-0001, or by e-mail the Infocollects.Resource@mrc.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 mean used to impose an information collection does not display a currently valid OMB control number, th NRC may not conduct or sponsor, and a person is not required to respond to, the informatio collection.				
1. FACILITY NAM	IE	2. DOCKET N	UMBER		3. LER NUMBER		
South Texas Unit 1		05000-498		YEAR 2017	sequential NUMBER - 001	rev no. <b>- 00</b>	
	rractive Actions				L.		

IV. Corrective Actions

The Table 1 below contains the corrective actions planned as a result of the event:

Corrective Actions	Description	Status
1	Relay was replaced and Surveillance Test completed Satisfactory. (Relay replaced by PM WAN 560042)	Complete
2	Perform one on one sessions with EM personnel involved in this event to determine the reason for the shortfall on questioning the reliability of the subject relay device and any other corrective actions required to include coaching opportunities.	Complete
3	Perform coaching session with individuals involved to ensure clear understanding of 0POP01- ZO-0011 procedure requirements	In process
4	Discuss event and refresh on procedure requirements of 0POP01-ZO-0011 with all Licensed Operations Personnel	In process

Table 1: Corrective Actions

NRC FORM	366A U.S. NUCLEAR REGULA	TORY COMMISSION	APPROVED BY OMB: NO. 3150-010	4	EXPIRES:	3/31/2020	
(04-2017)	LICENSEE EVENT RI	EPORT (LER) SHEET	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. Seru comments regarding burden estimate to the Information Services Branch (T-2 F43), U.S. Nuclea 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				
(See NURE) http://www.n	G-1022, R.3 for instruction and guidance for rc.gov/reading-rm/doc-collections/nuregs/s	r completing this form taff/sr1022/r3/)	used to impose an information collection does not display a currently valid OMB con NRC may not conduct or sponsor, and a person is not required to respond to collection.				
1. FACILITY	( NAME	2. DOCKET N	UMBER		3. LER NUMBER		
South Texas Unit 1		05000-498		YEAR	SEQUENTIAL NUMBER	REV NO.	
				2017	- 001	- 00	
V. VI.	<ul> <li>Previous Similar Events</li> <li>A review of similar events at STP was performed by reviewing the STP Corrective Action Program and Licensee Event Reports submitted for the previous 10 years. The review concluded that there have been many occurrences where the as-found condition of this or similarly functioning timing relays were found out of acceptance criteria or outside Technical Specification criteria. However all events involved the old model E7000 timers. It is important to note that the older model relays are diaphragm type designs, while the new relay timers are solid state designs. Since these timers were replaced (starting in 2012) this condition is the first case of its kind. In all occasions identified, the proper notifications and corrective actions were performed.</li> <li>A search for License Event Reports was performed that focused on events deemed similar reportable under 50.73(a)(2)(i)(B). Several events were found to meet this criteria, but none were directly applicable to this event.</li> <li>Additional Information</li> <li>The discovery date is March 14, 2017 when Unit 1 discovered the need to perform a reportability evaluation on the event. The event date is March 10, 2014, the date when the relay failed to pass the surveillance test. The report date is May 11, 2017, within 60 days after discovery of the event, as</li> </ul>						
	Dates and approximate time	s of occurrences:					
	3/10/17/1045: Surveillance inoperable for planned testin	l est commenced ng).	t for the Unit I EIB under	rvoltage r	elay (Relay de	eclared	
	3/10/17: Electrician's initia outside Technical Specificat	l as-found measu tion and Accepta	rement (3.295 Seconds) on nce Criteria (1.715 to 1.78	of the timi 35 second	ing relay was f s) per procedu	found ire.	
	3/10/17: Electrician notifica given to continue in accorda criteria).	ation and discuss ince with procedu	ion with Unit 1 Control R ure and make adjustments	oom Sup to within	ervisor. Direc band (accepta	tion ance	
	3/10/17: Electrician's retest 1.766 seconds). No adjustm	t of timing relay when twas made. N	was performed. (Retest 1: No issues identified with to	1.902 sec est equip	conds, retest 2- ment.	-9:	
	3/10/17: Electrician's discu continue with test and docur	ssion with Electr nent findings in (	ical Maintenance Supervi Condition Report.	sor. Dire	ection given to		
	3/10/17: Electrician request held on steps performed. A	ed Control Roon	n staff to log surveillance aware that no adjustment	as Satisfa was made	e.	sion	

NRC FORM 366A U.S. NUCLEAR REGULA	TORY COMMISSION	APPROVED BY OMB: NO. 3150-010	)4	EXPIRES:	3/31/2020	
(V4-2017) LICENSEE EVENT RE CONTINUATION S (See NUREG-1022, R.3 for instruction and guidance for http://www.nrc.gov/reading-rm/doc-collections/nuregs/s	EPORT (LER) SHEET or completing this form ttaff/sr1022/r3/)	Estimated burden per response to comply with this mandatory collection request: 80 hours. lessons learned are incorporated into the licensing process and fed back to induc comments regarding burden estimate to the Information Services Branch (T-2 F43), U.S. Regulatory Commission, Washington, DC 20555-0001, or by e-r Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulator NEOB-10202, (3150-0104), Office of Management and Budget, Washington, DC 20503. If used to impose an information collection does not display a currently valid OMB control nu. NRC may not conduct or sponsor, and a person is not required to respond to, the i collection.				
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South Texas Unit 1	05000-498		YEAR	SEQUENTIAL NUMBER	REV NO.	
			2017	- 001	- 00	
3/10/17 1202: Unit 1 E1B U 3/10/17: Condition Report 1 3/13/17 1045: Technical Sp 3/14/17: Review of Conditi recommendation made to th 3/14/17 1500: Shift manage inoperable, and Technical S 3/15/17 0246: Relay replace declared Operable.	Jndervoltage Cha 17-12616 docume pecification 3.3.2, on Report perfor e Control Room er concurrence wi pecification 3.3.2 ed, Surveillance	annel 4, including relay, d ented conditions as identi , Action 20A, time exceed med by STP Engineering to declare E1B Undervolt ith engineering recommer 2, Action 20A, entered Test re-preformed, and E1	leclared C fied durin led. (CR Acti age Chan ndation, re	Dperable. ng test. on 17-12616-1 nel 4 inoperab elay declared voltage Chann	l), and de. el 4	