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NRC Form 365 (9-83) E	U.S. NUCLEAR REGULATORY COMMISSION APPROVED OM& NO. 3150-0104 LICENSEE EVENT REPORT (LER) EXPIRES: \$/31/68						
FACILITY NAME (1)		_			DO	CKET NUMBER (2)	PAGE (3)
Nine Mi TITLE (4)	<u>le Point Unit a</u>	2			10	50000	
Enginee	red Safety Feat	tures Actuat	ion due t	D Elect	rician Bur	nping a Re	lay
EVENT DATE (5)	LER NUMBER (6	AEF	PORT DATE (7)		OTHER FA	CILITIES INVOLVE	D (8)
MONTH DAY YEAR	YEAR WWWBER	NUMBER MONTH	DAY YEAR	4	N/A	s 00	
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OPERATING	THIS REPORT IS SUBMITTED	PURSUANT TO THE R	EQUIREMENTS OF	10 CFR §: /C	theck one or more of	the following) (11)	
MODE (9) 4 POWER LEVEL (10) 0 0 0	20.402(b) 20.405(e)(1)(i) 20.405(e)(1)(ii) 20.405(e)(1)(iii) 20.405(e)(1)(iii) 20.405(e)(1)(iv) 20.405(e)(1)(v)	20.405(/ 50.36(e) 50.38(e) 50.73(a) 60.73(a) 50.73(a)	e))(1))(2))(2)(i) }(2)(ii))(2)(iii)		50,73(e)(2)(iv) 50,73(e)(2)(v) 50,73(e)(2)(vii) 50,73(e)(2)(viii)(A) 50,73(e)(2)(viii)(A) 50,73(e)(2)(xii)(B)		73.71(b) 73.71(c) OTHER (Specify in Abstract palow and in Text, NRC Form J65A)
		LICENSEE	CONTACT FOR TH	IS LER (12)			
· Robert	G. Randall, Su	pervisor Tec DNE LINE FOR EACH CO	hnical Su	pport RE DESCRIBE	D IN THIS REPORT	AREA CODE 3 1 5 3	14 19 1 - 12 A 14 15
CAUSE SYSTEM COMP	DNENT MANUFAC- TURER	REPORTABLE TO NPRDS	CAU	E SYSTEM	COMPONENT	MANUFAC- TURER	REPORTABLE
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			8D (14)				
YES (If yes, complete E	XPECTED SUBMISSION DATE		X NO	-,		EXPECTED SUBMISSION DATE (15)	
ABSTRACT (Limit to 1400 up While i subsequ initiat electri buildin relay. momenta inches fans ru exhaust gauge). recircu emergen secured require allowed commence restore returne	<pre>ecent.i.e. opproximately Villeen n cold shutdown ent standby gas ion (signal on cians were repa g ventilation The bumped re ry false reactor fans on an act Subsequently lation and GTS cy recirculatio the systems di d in Mode 4). emergency rec ed yet). Appre- id to service. ive actions wi el via trainin care and atten B707140371 E PDR ADDCK 0 </pre>	in on February to on February to treatment by occurred airing a defe (HVR) panel in lay caused by building pri- tual low diff secondary initiation on and GTS i ue to painti To restore irculation a oximately 25 ecirculation 11 be to rem g of their r tion to safe 5000410 PDR	y 2, 1987 system (G due to pe ective con when an e oth runnin high Diff andby sup essure de ferential containme signals fo nitiation ng in the and contri- nd GTS to minutes and GTS to minutes	a seco (S) and ersonne itrol s lectric g HVR erentia oly fan creased pressu nt isol ol occur reacto ol reac auto i later, were se electri lity to ant imp	ndary cont emergency l error. witch at t ian accide supply far l Pressure auto star to the po re signal ation with t. However red becaus or building tor build initiate (preactor build))))	ainment i v recircul Niagara M the local entally but is to trip e (DP) sig ting and oint of tr (-3.0 inc memergenc , no auto se Operati g (GTS ope ing DP, NM bainting h uilding DP normal HV Instrumen lant equip	solation and ation system ohawk (NMPC) reactor mped a on a nal (+3.0 both exhaust ipping both hes water y matic ons had rability not IPC operators ad not was 'R was

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VRC Form 366A 9-831 LICENSEE EVENT F	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION					
ACILITY NAME (1)	OOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)			
		YEAR SEQUENT'AL PEV SION				
Nine Mile Point Unit 2	0 15 0 0 0 0 4 1 1 0	0 a 7 - 0 0 7 - a 1	0,20₣0 3			

I. DESCRIPTION OF EVENT

While in cold shutdown on February 2, 1987 a secondary containment isolation and subsequent standby gas treatment system (GTS) and emergency recirculation system initiations occurred due to personnel error. Niagara Mohawk (NMPC) electrical maintenance personnel were in the process of repairing a defective reactor building unit heater control switch at the local reactor building ventilation (HVR) panel. Upon entering the HVR panel to inspect the damaged switch, an electrician accidentally bumped the trip button on a relay, causing both running HVR supply fans to trip at 08:43:34. Investigation revealed the most probable cause for the supply fans trip is bumping the relay associated with reactor building high differential pressure trip (+3.0 inches water gauge).

Despite the standby HVR supply fan automatically starting on the running fans trip signal, reactor building differential pressure began decreasing (two exhaust fans and one supply fan running). At 08:44:17 both running exhaust fans automatically tripped on reactor building low differential pressure (-3.0 inches water gauge), bringing in the Division I and II secondary containment isolation and emergency recirculation and GTS initiation signals at 08:44:19 and 08:44:21 (low air flow above and below refuel floor). Emergency recirculation and GTS did not automatically initiate, however, because the systems had been secured by Operations due to painting inside the reactor building. These actions were in accordance with plant Technical Specifications, which do not require GTS to be operable in Mode 4 (cold shutdown).

NMPC licensed operators discovered the GTS initiating signals sealed in by observation of control room annunciation and computer alarms. Immediate corrective actions taken were to restore and control the reactor building differential pressure by allowing emergency recirculation and GTS to automatically initiate at 08:49:19 (painting had not commenced yet). Once the reactor building differential pressure began to normalize, both systems were manually secured at 09:10:36. At that time, normal reactor building ventilation was returned to service.

II. CAUSE OF EVENT

A special test was conducted to determine if personnel error (accidental bumping of a supply fan relay) was the cause of Engineered Safety Features (ESF) actuation. The scenario that perpetrated the sequence of events was duplicated for the special test. Results proved that momentarily bumping the trip button on the relay associated with high differential pressure led to secondary containment isolation and emergency recirculation and GTS automatic initiation signals.

Therefore, the root cause of this event is cognitive personnel error. The NMPC electrician did not exercise sufficient care when entering the panel. The area of the panel he was entering was relatively small and the switch to be inspected could only be physically reached by bending over or kneeling. However, sufficient caution would have prevented accidental bumping of equipment inside the panel. In addition, no unusual characteristics of the work location (e.g., heat, noise, etc.) directly contributed to the personnel error.

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FACILITY NA	FACILITY NAME (1)		DOCKET NUMBER (2)	LEA NUMBER				3 (6)		- T	PAGE (3)			
				YEAR SEQUENTS			A	AEV SIC	1	.	Γ			
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	III.	ANALYSIS OF EVENT								¢				
	This event has no adverse safety consequences for the following reasons: 1. The unit is in cold shutdown and has never gone critical.													
- N	2. The secondary containment isolated and, when enabled, standby gas treatment and emergency, recirculation systems initiated as designed. However, they are not required to be operable in Mode 4 per Technical Specifications.													
	Althou of the shutdo differ certa	ugh initiation of these ESF e unit was never jeopardized own, these ESF systems will rential pressure and minimiz in postulated accidents.	systems was an opera . During operating assist in controllin e the release of rac	ationa condi ng the lioact	al iti e r civ	ch or ea e	allo is o ictor mat	enge ther r bu eria	the thar tildir dur	e sa 1 co 1g 1ng	fety 1d			
	IV.	CORRECTIVE ACTIONS												
	NMPC plant personnel are trained to exercise proper care when working on or handling plant equipment. To prevent recurrence of a similar event, the details of this incident will be discussed with all electrical maintenance and Instrument and Control personnel via training. Training Modification Recommendations have been submitted to the appropriate training departments so that personnel will be reminded of their responsibility to perform their duties with proper care and attention to safety and plant impact.													
	۷.	ADDITIONAL INFORMATION		•										
-	A. Identification of Components Referred to in this LER													
	Compor	nent	IEEE 803 EIIS Fur	3 nct [.]					IEI Sy:	IE 8 stem	05 ID			
	Standi Second Emerge Norma	by Gas Treatment System (GTS dary Containment Isolation ency Recirculation System 1 Reactor Building Ventilati) N/A N/A N/A on (HVR) N/A							BH VC VC VC				
Ĩ	в.	Previous Similar Events												
		None												

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