

**GPU Nuclear Corporation** 

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March 27, 1990 C311-90-2037

U. S. Nuclear Regulatory Commission Document Control Desk Washington, D.C. 20555

Dear Sir:

## Three Mile Island Nuclear Station Unit 1, (TMI-1) Operating License No. DPR-50 Docket No. 50-289 LER 90-003-00

This letter transmits Licensee Event Report (LER) No. 90-003-00 regarding an inadvertent isolation of the turbine bypass valves during plant heatup due to personnel error on February 27, 1990. Public health and safety were unaffected.

This LER is being submitted pursuant to 10 CFR 50.73, using the required NRC forms (attached). NRC Form 366 contains an abstract which provides a brief description of the event. For a complete understanding of the event, refer to the text of the report which appears on Form 366A.

Sincerely,

J'Broughton for

H. D. HUR111 Vice President & Director, TMI-1

HDH/RDW/spb

Attachment

- cc: R. Hernan
  - T. Martin
  - J. Stolz F. Young

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GPU Nuclear Corporation is a subsidiary of General Public Utilities Corporation

NAC Form 204 (6-5.)		LIC	ENSEE EVEN	T RE	PORT	(LER)	U.E. NUK AF ED	PIRES 8/31/06	TORY CONNUMBERON O 3150-0104	
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RUSSELL D. WEL	LS, TMI-1	LICENSI	ICENSEE CONTACT	R	LER (12)		AREA CODE 7   1  7	9 14 1 81	MBER -   8  6  9  3	
CAUSE SYSTEM COMPONENT	MANUFAC TURER	REPORTABLE TO NPRDS	EACH COMPONENT	CAUSE	SYSTEM	COMPONENT	MANUFAC. TURER	REPORTABLE TO NPROS	•	
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YES (II var. complate EXPECTED	SUPPLEM	ENTAL REPORT	EXPECTED (14)				EXPECTE SUBMISSIC DATE (16	D MONT	H DAY YEAR	
TMI-1 was in a condition. The which, pursuan four of the si operators disc turbine bypass due to a cond subsequently The root cause valve alignme MS-V-8A/B in procedure (i. maintenance a time. Howeve operators and condition as This event an operators. Ad requirement t temperature a	a heatup m he Reacton ht to Tech ix turbing covered th s valves. ition prob opened. e of this ht being n the close e., Proce ctivity, r, person senior 1 a deficie d its roo ditionall, hat the t	node on ' r Coolan nnical S e bypass hat Main Thus, hibited event w performe a positi dure 110 the MS-V nel perf icnesed ncy in a t cause y, a pro urbine b	February 2 t System ( pecificati valves be Steam Val this event by the pla as personn d on Febru on contrar 6-14). Du -8A/B valv orming and operators, ccordance will be re ocedural re oypass valv	7, 19 RCS) on (T oper ves M is r nt's el er ary 1 y to e to e to resp with viewe visic es ar	90 wi tempe ech. S-V-8 eport Tech. 7, 19 the r ror. 90 wi the so ewing ectiv admin ed wit	th the re rature wa Spec.) 3. At appr A/B were able per Specs. During t 90, opera equiremen ystem cor t permitt this pro ely) fail istrative ch auxilia effected isolated	actor in s greater 4.1.1.c, oximately closed wi 10CFR 50 Valves MS the Main S tions per ts of this figurations of the figurations of the figuratio	a shutd than 2 require y 0400 h hich iso .73(a)(2 S-V-8A/B Steam Sy rsonnel e valve on to su opened i.e.auxi entify t ments. tors and nce the increasi	cwn 50°F s that ours, lated the )(i)(B) were stem found alignment pport a at that liary his licensed previous ng RCS	

	LICENSEE EVENT RE	EPORT (LER) TEXT CONTIN	UATION	APPROVED O EXPIRES 8/3	NB NO. 3150-0104		
ADILITY NAME	(1)	DOCKET NUMBER (2)		R (6)	PAGE (3	3.	
			YFAR SEDUEN	ER NUMBER			
THREE N	AILE ISLAND, UNIT 1	0 0 0 0 0 0 2 8 9	910 - 010	3-90	01205	013	
	ISOLATION OF TURBI	LER 90-03 NE BYPASS VALVES DURING	PLANT HEATU	P			
1.	Plant Operating Condition	s Before the Event					
	TMI-1 was in a heatup mod (BR) cutage. The reactor	e following completion (A3/RCT)* was in a shu	of the cycle itdown condit	8 refueli ion.	ng		
11.	Status of Structures, Com start of the event and th	ponents, or Systems that contributed to the e	t were inope event	rable at t	<u>:he</u>		
	There were no components this event.	or systems out of servi	ce that cont	ributed to			
111.	Event Description						
	On February 17, 1990, Whi alignment (Reference Proc preparation for plant hea were found in the closed plant maintenance require to the valve lineup speci marked as a deficiency fo Administrative Procedure operations personnel who plant heatup did not reco because a deficiency was	edure 1106-14, "Main St tup, Main Steam Valves position and could not ments. The position of fied in the referenced or follow-up resolution 1101-G "Procedure Util reviewed valve lineup of gnize that MS-VBA/B we not identified for follow	Steam System team System") MS-VBA and M be opened du these valves procedure an pursuant to ization". As deficiencies re in the clo low-up.	in IS-VBB (SB) te to other was contr d was not a result, prior to sed posit	(V) hary		
	MS-V-8A/B are motor opera Room, which isolate the t Shortly before midnight of increased above 250°F in to 525°F." Technical Spe six turbine bypass valves (AB/-) temperature greated bypass valves were opened heatup rate. The Control bypass valves were opened existing plant condition. 1990, operators determined isolated the MS-V3 valves opened.	ated valves, controlled curbine bypass valves M on February 26, 1990, the accordance with Procedu- ecification 3.4.1.1.c rules be operable with the er than 250°F. During d in manual from the Cou l Room operators recogn d greater than their ex . Thus, at approximatel, ed that the MS-V8 valve s from steam flow. Subs	from the TMI S-V-3A throughe RCS temper ure 1102-1, ' equires that Reactor Coola plant heatup, ntrol Room to ized that the pected position y 0400 on Fel s were closed equently, MS	-1 Contro h F. rature was 'Plant Hea four of the four of the turbine turbine turbine or for the bruary 27, d which -V8A/B wer	tup he ine the e		
	This event is reportable condition prohibited by d determination that the to were isolated from steam MS-VBA/B could have been operators were not aware be relied on to promptly	pursuant to 10 CFR 50. the plant's Technical S urbine bypass valves we flow by the closure of opened quickly from th that the valves were c open the valves.	73(a)(2)(i)( pecification re not operal MS-V8A/B. e Control Ro losed, and t	B), due to , based on ble since Although om, the hus could	a the they not		

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION							
THREE MILE ISLAND, UNIT 1		DOCKET NUMBER (2)	LER N		PAGE (3)		
			VEAR BE	R			
		0 16 0 0 0 0 2 8 9	90-003-01		013 05 0		
111.	Event Description (Cont'd.)	2					
1ν.	licensed operators to also of the valve alignment pro- <u>Component Failure Data</u> No component failure was as	identify this discr cedure (i.e., Proced ssociated with the e	epancy du ure 1106- vent.	ring their ( 14).	review		
۷.	Automatic or Manually Initiated Safety System Responses No safety systems were initiated.						
V1.	Assessment of the Safety C	onsequences and Impl	ications	of the Even	t		
	There were no safety conse event. The MS-V8A and B v on operator assessment. F not require a rapid respon low, and the MS-V-3's were the RCS heatup rate. Thus	quences or implicati alves were opened fr rom a technical stan se to open, the core not a limiting cond , this event did not	ons as a om the Co dpoint, t decay he ition to result i	result of t ntrol Room he MS-V-8's at generati reduce or c n any techn	his based did on was ontrol ical o	r	

If the turbine bypass valves had been isolated while at 100% power and a reactor trip occurred coincident with a tube leak or rupture, the steam release path would have occurred via the atmospheric dump valves and the Main Steam Safety Valves. The projected dose to the public would still have been well within the limits of 10 CFR 100. Thus, this event did not jeopardize the health and safety of the public.

## VII. Previous Events of a Similar Nature

None.

## VIII. Corrective Actions Planned

To minimize the potential for similar type events, auxiliary operators and licensed operators will review this event in order to emphasize the need to follow proper administrative requirements.

Procedure 1102-1 was revised on March 2, 1990 to require, before exceeding 250°F reactor coolant temperature, verification that the turbine bypass valves are not isolated.

\* The Energy Industry Identification System (EIIS), System Identification (SI) and Component Function Identification (CFI) Codes are included in parentheses, "(SI/CFI)", where applicable, as required by 10 CFR 50.73 (b)(2)(ii)(F).