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ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

FACIL:50	0-244 Robert Emmet AME AUTHOR A V.H. Rochester Bochester	Ginna Nucle	88/07/01 NOTARIZED ar Plant, Unit 1, R tric Corp. tric Corp. ON	: NO ochester G	DOCKET # 05000244
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NRC Form 306A (9-83)	LICENSEE	EVENT REPO	RT (LER) TEXT CONTINU		•	ULATORY COMMISSION ME NO. 3150-0104 1/85
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I. <u>PRE-EVENT PLANT CONDITIONS</u>

The unit was at approximately 98% full power with no major activities in progress. The "B" Containment Spray Pump was held for seal maintenance.

II. DESCRIPTION OF EVENT

A. EVENT:

On June 1, 1988 at 1932 EDST with the reactor at approximately 98% of full power, a reactor trip occurred due to low level in the "B" Steam Generator (i.e. steam generator level \leq 30%) coincident with steam flow, feedwater flow (SF/FF) mismatch (i.e. steam flow \geq 0.8E6 lbm/hr more than feedwater flow).

The cause of the low level plus SF/FF mismatch reactor trip was due to a fuse opening on the power supply to the "B" Steam Generator flow transmitter FT-476. This flow transmitter was supplying an input signal to the "B" Steam Generator level control system. The fuse opening caused the flow transmitter to fail low. As a result of this the "B" Steam Generator feedwater regulating valve opened more, increasing flow to the "B" Steam Generator and decreasing flow to the "A" Steam Generator. These flow changes plus the failed feedwater flow channel caused steam flow > feed flow alarms on both the "A" and "B" Steam Generators. The Control Room Operators. reacted to the alarms on the steam generators by placing both main feedwater regulating valves in manual to maintain steam generator levels per alarm response procedures.

NRC Form 306A				S. NUCLEAR REG	ULATORY COMMISSION
(9-43)	LICENSEE EVENT REPOR	RT (LER) TEXT CONTINU	ATION	APPROVED OF EXPIRES 8/31	ME NO. 3150-0104 1/85
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R.E. Ginna Nuc	lear Power Plant	0 5 0 0 0 2 4 4			
TEXT (<i>IX mere spece a researce</i> , ever e	The "B" Steam of high level feed Steam Generator designed. Aft decreased below Generator feedwa original position The combination and rapidly inc phenomena) cause	water isolation feedwater regul er the "B" S approximately ater regulating on prior to the of decreasing creasing feedwat ed the "B" Steam s level with th signal locked channel, caused equence of even e time of the 1	setpoint ating valve team Gene 65%, the valve reop high leve steam gene steam gene steam gene steam gene steam gene steam gene steam gene steam gene steam gene steam gene a reactor nts (appro FT-476 fai	and th ve clos rator "B" pened t l isola erator (i.e. s level am Gene the f trip. pximate lure to	e "B" ed as level Steam o its tion. level hrink to go rator ailed Due Ly 80 o the
	little time to d The Control Roo Emergency Operat Safety Injection to stabilize the Following the water levels do motor driven and pumps to start a 800 gpm to the gpm per steam g auxiliary feedwa was still operat feedwater flow t to the main fe manual versus au regulating valve	m Operators per ting Procedures a), and ES-0.1 (1 e plant. reactor trip, ecreased below the steam drive and deliver full steam generator enerator). In ater flow, the p ing providing ap o the steam gene edwater regulat to control, (i.e	formed the E-0 (Reac Reactor Tr both stea 17% causi en auxiliat flow of ap rs (approx addition t main feedw oproximate erators. T ing value	action tor Tr ip REsp m gene ng the ry feed oproxim timately to the vater s tater s to the vater s this was to bein in feed	ns of ip or onse) rator two water ately 400 above ystem main s due g in water

554°F if they were in auto, but since both regulating valves were in manual, they remained open). Because of the large volume of cool feedwater addition to the steam generators, the reactor coolant system was rapidly cooled and pressurizer pressure decrease the

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U.S. NUCLEAR REGULATORY COMMISSION NRC Form 306. (9.8.3) LICENSEE EVENT REPORT (LER) TEXT CONTINUATION APPROVED OME NO. 3150-0104 EXPIRES: 8/31/85 DOCKET NUMBER (2) PAGE (3) LER NUMBER (6) FACILITY NAME (1) NUMBER SEQUENTIAL YEAR 22 0 0 0 0 4 0 1 1 00 0 5 0 0 0 2 4 4 8 8 5 R.E. Ginna Nuclear Power Plant L use additional NAC Form 3864's/ (17) TEXT // more speek is ree the safety injection initiation value of \leq 1750 psig and pressurizer level decreased to 0% indicated. The safety injection initiation occurred approximately two minutes following the reactor trip. Due to the safety injection initiation, main feedwater addition to the steam generators was isolated and the reactor coolant system cooldown and depressurization rate was reduced significantly. As Emergency Operating Procedures actions continued, it was discovered that the main steam control valve (AOV-3425) to the 1A reheater had failed to close on turbine trip and was still supplying main steam to the 1A reheater. The main steam isolation valves were closed to isolate the above steam flow to the 1A reheater. This action terminated the cooldown and allowed recovery of reactor coolant system temperature, pressure and pressurizer level. Reactor coolant system pressure reached a low of approximately 1510 psig with no injection of water into the reactor coolant system. Following the safety injection initiation. the Control Room Operators performed the actions of Emergency Operating Procedures E-0, (Reactor Trip or Safety Injection), and ES-1.1 (SI Termination) followed by Normal Operating Procedure 0-2.1 (Normal Shutdown to Hot Shutdown) and stabilized the plant in hot shutdown. One procedural problem was identified regarding ES-1.1 (SI Termination). This problem was the need to change the method of flushing the high head safety injection pump lines following safety injection termination. With the present method, the boric acid storage tanks become diluted during the flush. This problem has already been addressed in draft Emergency Operating Procedure Upgrade rewrites and any further flushes will be accomplished using this new guidance.

NRC Form 306A (9-83)		ENT REPOR	T (LER) TEX		JATION		EGULATORY COMMISSI	-
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с.	DATES AN	ID APPROX	IMATE T	IMES FOF	R MAJOR	OCCURRENC	ES:	
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NRC Form 386A (9-83)	LICENSEE EVENT REPOR	T (LER) TEXT CONTINU	ATION	UCLEAR REGULATORY COMMISSION NPPROVED OMB NO, 3150-0104 EXPIRES: 8/31/85
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E.	METHOD OF DISCO	VERY:	•	vi
	The event was i indication in th	mmediately appar ne Control Room.		alarms and
F.	OPERATOR ACTION	:		
	Following the reperformed the ac E-0 (Reactor Tr (Reactor Trip Re	tions of Emergend	cy Operating	Procedures and ES-0.1
	Following the sa Room Operators Operating Proce Injection), and Normal Operating Hot Shutdown) an	performed the edures E-0 (Rea ES-1.1 (SI Terr g Procedure 0-2.	actions of actor Trip mination), f l (Normal S	Emergency or Safety ollowed by hutdown to
	Subsequent to Control Room Op isolation valve cooldown, due t valve failing to	perators closed es to terminat o the 1A reheat	the main s ce a prima	steam line ry system
III. <u>CA</u>	USE OF EVENT			
Α.	IMMEDIATE CAUSE:	:		
	The reactor trip Steam Generator SF/FF mismatch SF \geq 0.8E6 lbm/ system transien controlling "B" s	coincident with (i.e. steam gene 'hr more than F t caused by the	the "B" Steam erator level F) because o e failure l	n Generator <u><</u> 30% and of control ow of the
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(AC Form 306A 9-83)	,	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION	APPROVED OM8 NO. 3150-010 EXPIRES: 8/31/85
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_			88-0015-0p	017 OF 1 1 1
R.E. Ginna Nuclear	Power Plant			

TEXT (If more space is required, use adultional MRC Form 3864's) (1)

B. ROOT CAUSE:

The failure low of the controlling "B" Steam Generator feedwater flow channel FT-476 was due to a random failure of a fuse supplying the FT-476 flow transmitter power supply.

IV. ANALYSIS OF EVENT

This event is reportable in accordance with 10 CFR 50.73, Licensee Event Report System, item (a)(2)(iv) which requires reporting of, "any event or condition that resulted in manual or automatic actuation of any Engineered Safety Feature (ESF) including the Reactor Protection System (RPS)". The reactor trip resulting from the "B" Steam Generator low level coincident with the "B" Steam Generator SF/FF mismatch was an automatic actuation of the RPS and the subsequent safety injection initiation on low pressurizer pressure of \leq 1750 psig was an automatic actuation of the ESF.

An assessment was performed considering both the safety consequences and implications of these events with the following results and conclusions:

There were no safety consequences or implications attributed to the "B" Steam Generator low level coincident with the "B" Steam Generator SF/FF mismatch reactor trip, because;

- o The two reactor trip breakers opened as required.
- o All control and shutdown rods inserted as designed.
- o The reactor was rendered subcritical with proper shutdown margin as designed.
- o Both steam generator water levels were maintained on scale in the narrow range instrumentation thus assuring an adequate heat sink for decay heat removal.

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NAC Form 386A (9-83)		LICENS	EE EVENT REPO	RT (LER) TEXT CONTINU			ULATORY COMMISSION
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		b.	Isolation injection designed. safety ir undervolta electrical safety inj of this f	(Auxiliary Bui Valve 1A) clo initiation. Th This valve is o njection initiat ge on Bus 14. ly from the Main o ection reset. T ailure mode is velled to its s	sed with is closure designed to tion coinc MOV-4616 w Control Boa he safety s negligible	the s was n close dent vas reo rd foll signifi s since	with with pened owing cance > the
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NRC Form 386A 19-63)	LICENSEE EVENT REPOR	T (LER) TEXT CONTINU		DULATORY COMMISSION DMB NO. 3150-0104 DI/85
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с.	SPECIAL COMMENTS	: •		
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ROCHESTER GAS AND ELECTRIC CORPORATION . 89 EAST AVENUE, ROCHESTER, N.Y. 14649-0001

TELEPHONE AREA CODE 716 546-2700

July 1, 1988.

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

Subject: LER 88-005, Low Steam Generator Water Level Due To Blown Fuse in Controlling Feedwater Flow Channel Causes Reactor Trip and Subsequent Safety Injection R.E. Ginna Nuclear Power Plant Docket No. 50-244

In accordance with 10 CFR 50.73, Licensee Event Report System, item (a)(2)(iv) which requires a report of, "any event or condition that resulted in manual or automatic actuation of any Engineered Safety Feature (ESF) including the Reactor Protection System (RPS)", the attached Licensee Event Report LER 88-005 is hereby submitted.

This event has in no way affected the public's health and safety.

Very truly yours,

Bruce A. Snow Superintendent of Nuclear Production

xc:

U.S. Nuclear Regulatory Commission Region I 475 Allendale Road King of Prussia, PA 19406

Ginna USNRC Senior Resident Inspector