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ACCESSION NBR:9101290229 CCESSION NBR:9101290229 DOC.DATE: 91/01/21 NOTARIZED: NO DOCKET # FACIL:50-244 Robert Emmet Ginna Nuclear Plant, Unit 1, Rochester G 05000244 AUTH.NAME AUTHOR AFFILIATION BACKUS, W.H. Rochester Gas & Electric Corp. MECREDY, R.C. Rochester Gas & Electric Corp. RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 90-018-00:on 901220, dropped control rod/turbine runback occurred during rod control exercises. Caused by degraded power bridge thyristor supporession filter capacitors. Capacitors replaced.W/910121 ltr.

DISTRIBUTION CODE: IE22T COPIES RECEIVED:LTR / ENCL / SIZE: 0 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

NOTES: License Exp date in accordance with 10CFR2, 2.109(9/19/72). 05000244

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ROCHESTER GAS AND ELECTRIC CORPORATION . 89 EAST AVENUE, ROCHESTER N.Y. 14649-0001

ROBERT C. MECREDY Vice President Ginna Nuclear Production

> 101290229 DR ADOCK

 TELEPHONE AREA CODE 718 546-2700

January 21, 1991

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

Subject: LER 90-018, Dropped Control Rod During Rod Control Exercises Causes Automatic Actuation of RPS (i.e. Turbine Runback) 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 required s 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 90-018 is hereby submitted.

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

Very truly yours, Robert C. Mecredv

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

Ginna USNRC Senior Resident Inspector

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The Control Room operators performed the appropriate actions of AP-TURB.2 (Automatic Turbine Runback) and AP-RCC.2 (RCC/RPI Malfunction) to stabilize the plant. Subsequently, at 1323 EST, the turbine was tripped manually to prevent reverse power to the generator. The Control Room operators then performed the appropriate actions of AP-TURB.1 (Turbine Trip Without Rx Trip Required).

At 1329 EST, with the reactor at approximately 6% full power and the "A" Main Feedwater Pump running feeding both Steam Generators (S/G) through the Main Feedwater Regulating Bypass valves, the "A" Main Feedwater Pump tripped on feed pump seal water low differential pressure. The motor driven auxiliary feedwater pumps started automatically (as designed) and reactor power was reduced to approximately 3% full power to ensure that required feedwater flow was within the capacity of the auxiliary feedwater pumps.

C FORM 364

NRC Form 384A 9-83)	LICE	INSEE EVENT REPOF	RT (LER) TEXT CONTIN	UATIC)N	U.S.	NUCLEAR REG APPROVED O EXPIRES -8/3	ME NO 3		
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The noisy incoming power supply is attributed to degraded thyristor capacitors in the power bridge circuit for the stationary, movable and lift coils. A review of Westinghouse Technical Bulletin (NSD-TB-74-16), was performed, and the power bridge circuitry was analyzed, supporting this conclusion.

C. · ROOT CAUSE:

The underlying cause of the degraded thyristor capacitors is attributed to decreased service life due to elevated operating temperatures for the capacitors.

IV. ANALYSIS OF EVENT

The 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)", in that the automatic turbine runback from . the dropped rod was an automatic actuation of the RPS.

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

NRC Form 366A (9-83)	LICENSEE	EVENT REPOP	RT (LER) TEXT CONTIN	UATION		ULATORY COMMISSION ME NO 3150-0104 1/85
FACILITY NAME (1)			DOCKET NUMBER (2)	LER NUM		PAGE (3)
•				VEAR - 5 SEQUE	ABER REVISION	
R.E. Ginna N	uclear Power	Plant	0 5 0 0 0 2 4	4 9 10 - 0 13	00-08-010	0 6 0 8
TEXT IN more spece is require	id, use addroonal NRC Form 30	5A'3J (17)	· A A A A A A A A A A		III	
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	•	1				
•	- D			-]]	www.awaata	for the
			luced automatica ctivity.of the o			tor the
	o Ali	l reactor	control and pro	tection s	ystems pe	rformed
	as		thus limiting t			
			is compared to			
	Analysis	G (UFSAR).	ion 15 of the G No assumption violated during	ns specifi	ed in Cha	
•			e, it can be co was assured at			oublic's
v.	CORRECT:	IVE ACTION				۲
		TION TAKEN RMAL STATUS	TO RETURN AFFE	ECTED SYST	ems to pr	e-event
	o	of Bank installe removed	trol problem wi "D" control rod ed test equipme and the rod con I to be operatio	ls was caus ent. Thi atrol syste	ed by pre is equipm am was tes	viously ent was
	Ο	control coils, for hot	ectricians meas rod J-10's sta and verified th shutdown condit nds existed.	tionary, m ne resista	movable a ince was	nd lift correct

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o The I&C Department checked coil polarity and verified there were no blown fuses. These activities confirmed that conditions which normally cause dropped rods, within the industry, did not exist for this event.

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NRC Form 386A (9-63)	ICENSEE ÉVENT REPOR	T (LER) TEXT CONTINU		NUCLEAR REGULATORY COMMISSION APPROVED OME NO 3150-0104 EXPIRES8/31/85
FACILITY NAME (1)		DOCKET NUMBER (2)	LER NUMBER (6	PAGE (3)
τ			YEAR	
R.E. Ginna Nuclear		0 5 0 0 0 2 4 4	90 - 018	-0100170F018
TEXT /// more space is required, use addroor	o To corre I&C Depa suppress supplyin	ect the cause o rtment replaced t sion filter cap ag power to the ls of Control Ro	the power bri acitors in stationary	idge thyristor the circuit
B .	As the underl premature ag	OR PLANNED TO P ying cause of th ing of the th ions are being p	e event was yristor cap	attributed to
	Cabinet	er bridge thyris 1 AC were repla ed from this cal	aced. (Cont	
	other p movable	er bridge thyri ower cabinets (and lift coils c ced during the r	feeding the	e stationary, ol rods) will
	replacem	l to set up a p ent of these thy time in service	ristor capa	citors, based
VI. <u>Ar</u>	DITIONAL INFORMA	TION		
A.	FAILED COMPON	ENTS:		-
,	Westinghouse 2383A34H01 (capacitors ha	capacitors invo Electric Con capacitor, .5 ad been previous Field Change Kit	cporation, ufd, 660 N sly install	part number /AC). These ed as a sub-

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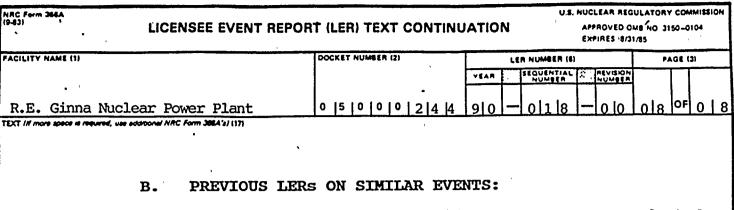
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NRC FORM 366A





A similar LER event historical search was conducted with the following results: No documentation of similar LER events with the same root cause at Ginna Station could be identified. However, LER 89-008 was a similar event with no known root cause.

C. SPECIAL COMMENTS:

None.

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