

ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9108050066 DOC. DATE: 91/07/29 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 91-006-00: on 910629, EDG A started automatically due to
 apparent undervoltage signal from Bus 14 undervoltage
 monitoring sys. Root cause not determined. Bus 14 energized &
 EDG declared operable. W/910729 ltr.

DISTRIBUTION CODE: IE22T COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 7
 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 A

RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL
PD1-3 LA	1 1	PD1-3 PD	1 1
JOHNSON, A	1 1		
INTERNAL: ACNW	2 2	AEOD/DOA	1 1
AEOD/DSP/TPAB	1 1	AEOD/ROAB/DSP	2 2
NRR/DET/ECMB 9H	1 1	NRR/DET/EMEB 7E	1 1
NRR/DLPQ/LHFB10	1 1	NRR/DLPQ/LPEB10	1 1
NRR/DOEA/OEAB	1 1	NRR/DREP/PRPB11	2 2
NRR/DST/SELB 8D	1 1	NRR/DST/SICB8H3	1 1
NRR/DST/SPLB8D1	1 1	NRR/DST/SRXB 8E	1 1
REG FILE 02	1 1	RES/DSIR/EIB	1 1
RGN1 FILE 01	1 1		
EXTERNAL: EG&G BRYCE, J.H	3 3	L ST LOBBY WARD	1 1
NRC PDR	1 1	NSIC MURPHY, G.A	1 1
NSIC POORE, W.	1 1	NUDOCS FULL TXT	1 1

Cert No P729548021

NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK,
 ROOM P1-37 (EXT. 20079) TO ELIMINATE YOUR NAME FROM DISTRIBUTION
 LISTS FOR DOCUMENTS YOU DON'T NEED!

FULL TEXT CONVERSION REQUIRED.
 TOTAL NUMBER OF COPIES REQUIRED: LTTR 31 ENCL 31

Asy





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

ROBERT C. MECREDDY
Vice President
Ginna Nuclear Production

TELEPHONE
AREA CODE 716 546-2700



July 29, 1991

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

Subject: LER 91-006, Apparent Voltage Drop on Safeguards
480 Volt Bus 14 Causes an Automatic Start of the
"A" Emergency Diesel Generator
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 91-006 is hereby submitted.

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

Very truly yours,

Robert C. Mecreddy
Robert C. Mecreddy

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

Ginna USNRC Senior Resident Inspector

9108050066 910729
PDR ADOCK 05000244
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020083

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PN 29 548 0.21
IF22
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<div style="display: flex; justify-content: space-between;"> <div>NRC Form 308 10-831</div> <div>U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3100-0104 EXPIRES-8/31/85</div> </div> <h2 style="text-align: center;">LICENSEE EVENT REPORT (LER)</h2>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO 3150-0104

EXPIRES: 8/31/85

FACILITY NAME (1) R.E. Ginna Nuclear Power Plant	DOCKET NUMBER (2) 0 5 0 0 0 2 4 4	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
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TEXT in more space is required, use additional NRC Form 366A's (17)

I. PRE-EVENT PLANT CONDITIONS

The plant was at approximately 98% steady state full power with no major activities in progress.

II. DESCRIPTION OF EVENT

A. DATES AND APPROXIMATE TIMES OF MAJOR OCCURRENCES:

- o June 29, 1991, 1754 EDST: Event Date and Time
- o June 29, 1991, 1754 EDST: Discovery Date and Time
- o June 29, 1991, 2013 EDST: "A" Emergency Diesel Generator stopped and realigned for Auto-standby

B. EVENT:

On June 29, 1991 at 1754 EDST, with the reactor at approximately 98% full power, the Control Room received the following alarms: L-14 (Bus 14 Undervoltage - Safeguards) and J-24 (Emergency Diesel Gen 1A Panel). The Control Room operators immediately verified proper voltage on Bus 14 and that the normal power supply breaker was closed. The Control Room operators also verified that the "A" Emergency Diesel Generator had started and displayed proper voltage and frequency. By design, the "A" Emergency Diesel Generator did not close into Bus 14, as the bus voltage was normal and Bus 14 was still being supplied by its normal power supply.



LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO 3150-0104

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TEXT (If more space is required, use additional NRC Form 366A's) (17)

Subsequently, Auxiliary operators were dispatched to check the Bus 14 Undervoltage Monitoring System cabinets and the operation of the "A" Emergency Diesel Generator. The operation of the "A" Emergency Diesel Generator was found to be normal. No undervoltage trip targets were observed on Bus 14 or Bus 18 (both these buses are fed by the "A" Emergency Diesel Generator).

During this event, routine activities were occurring at off-site Station 204. At approximately the same time as the apparent undervoltage condition occurred on Bus 14, a 34.5 kv capacitor bank was being removed from service. This is a routine action to correct off-site voltage situations. Station 204 feeds Circuit 751, which was the normal off-site power supply to Buses 14 and 18.

Control Room operators notified higher supervision and the Nuclear Regulatory Commission of the event.

To prove operability of the Undervoltage Monitoring System, the Results and Test (R&T) Department performed Periodic Test procedure PT-9.1 (Undervoltage Protection 480 Volt Safeguards Busses) on Bus 14. After PT-9.1 was successfully completed, the "A" Emergency Diesel Generator was stopped and realigned for Auto-standby.

C. INOPERABLE STRUCTURES, COMPONENTS, OR SYSTEMS THAT CONTRIBUTED TO THE EVENT:

None.

D. OTHER SYSTEMS OR SECONDARY FUNCTIONS AFFECTED:

None.

E. METHOD OF DISCOVERY:

The events were immediately apparent due to alarms and indications in the Control Room.



LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO 3150-0104

EXPIRES: 8/31/85

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TEXT (If more space is required, use additional NRC Form 366A's) (17)

F. OPERATOR ACTION:

Following the Bus 14 Undervoltage Alarm and the "A" Emergency Diesel Generator automatic start, the Control Room operators immediately verified proper voltage on Bus 14 via the normal power supply and that the "A" Emergency Diesel Generator displayed proper voltage and frequency.

Subsequently, Auxiliary operators were dispatched to check the Bus 14 undervoltage monitoring system and "A" Emergency Diesel Generator operation. The "A" Emergency Diesel Generator operation was normal and no undervoltage trip targets were observed on Bus 14 or Bus 18.

The "A" Emergency Diesel Generator was subsequently stopped and realigned for Auto-standby.

G. SAFETY SYSTEM RESPONSES:

The "A" Emergency Diesel Generator automatically started and displayed proper voltage and frequency.

III. CAUSE OF EVENT

A. IMMEDIATE CAUSE:

The automatic actuation of the "A" Emergency Diesel Generator was due to an apparent undervoltage signal from the Bus 14 undervoltage monitoring system.

B. ROOT CAUSE:

The underlying cause of the apparent undervoltage signal from the Bus 14 undervoltage monitoring system is not positively determined at this time.



LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO 3150-0104

EXPIRES: 8/31/85

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TEXT (If more space is required, use additional NRC Form 365A's) (17)

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)". The starting of the "A" Emergency Diesel Generator was an automatic actuation of an ESF system.

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

There were no operational or safety consequences or implications attributed to the starting of the "A" Emergency Diesel Generator because:

- o The "A" Emergency Diesel Generator operated as designed.
- o Both Bus 14 power supplies (i.e. normal and emergency) were either in use or available throughout the event.
- o The Bus 14 undervoltage monitoring system operation was in the conservative direction, (i.e. the operation actuated the automatic start of the "A" Emergency Diesel Generator).

Based on the above, it can be concluded that the public's health and safety was assured at all times.

V. CORRECTIVE ACTION

A. ACTION TAKEN TO RETURN AFFECTED SYSTEMS TO PRE-EVENT NORMAL STATUS:

- o The R&T Department successfully completed PT-9.1 on Bus 14 and the "A" Emergency Diesel Generator was stopped and aligned for Auto-standby.



LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO 3150-0104

EXPIRES: 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
R.E. Ginna Nuclear Power Plant	0 5 0 0 0 2 4 4	9 1	—	0 0 6	—	0 0	0 6 OF 0 6

TEXT (If more space is required, use additional NRC Form 366A's) (17)

B. ACTION TAKEN OR PLANNED TO PREVENT RECURRENCE:

- o As the underlying cause of the event has not been determined at this time, investigations will continue to positively determine the underlying cause of this event. Any further corrective actions will depend on the results of these investigations.
- o Electrical system monitoring records have been reviewed, and indicate that removal of the capacitor bank resulted in a small and routine voltage transient.
- o Electrical system monitoring has been increased on Circuit 751.
- o The interface between the undervoltage monitoring system and diesel start circuitry will continue to be evaluated, to determine if the undervoltage system is reacting as designed for small voltage fluctuations.

VI. ADDITIONAL INFORMATION

A. FAILED COMPONENTS:

None.

B. PREVIOUS LERS ON SIMILAR EVENTS:

A similar LER event historical search was conducted with the following results: No documentation of similar LER events with an undetermined root cause at Ginna Station could be identified.

C. SPECIAL COMMENTS:

None.

