DISTRIBUTION DEMONSTRATION SYSTEM ACCELERATED REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS) DOCKET # DOC.DATE: 89/07/19 NOTARIZED: NO ACCESSION NBR:8907280303 FACIL: 50-244 Robert Emmet Ginna Nuclear Plant, Unit 1, Rochester G 05000244 AUTHOR AFFILIATION AUTH.NAME Rochester Gas & Electric Corp. MECREDY, R.C. BACKUS, W.H. Rochester Gas & Electric Corp. RECIPIENT AFFILIATION RECIP.NAME R ł SUBJECT: LER 89-007-00:on 890619, safety injection pumps inoperability concerns due to flow meter calibration errors. D W/8 ltr. | ENCL / SIZE: DISTRIBUTION CODE: IE22T COPIES RECEIVED:LTR _ TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc. 05000244 NOTES:License Exp date in accordance with 10CFR2,2.109(9/19/72). Å COPIES RECIPIENT RECIPIENT COPIES D LTTR ENCL LTTR ENCL ID CODE/NAME ID CODE/NAME 1 1 PD1-3 PD PD1-3 LA 1 1 D JOHNSON, A 1 1 S 2 INTERNAL: ACRS MICHELSON ACRS WYLIE ACRS MOELLER 2 1 1 1 1 1 AEOD/DOA 1 AEOD/ROAB/DSP 2 2 AEOD/DSP/TPAB 1 1 IRM/DCTS/DAB 1 1 DEDRO 1 1 NRR/DEST/ADS 7E NRR/DEST/ESB 8D NRR/DEST/MEB 9H NRR/DEST/PSB 8D 0 1 NRR/DEST/ADE 8H 1 1 1 1 NRR/DEST/CEB 8H 1 1 . 1 1 1 . NRR/DEST/ICSB 7 1 1 1 NRR/DEST/MTB 9H 1 1 1 1 NRR/DEST/RSB 8E NRR/DEST/SGB 8D 1 1 1 1 1 1 NRR/DLPQ/PEB 10 NRR/DLPQ/HFB 10 NRR/DREP/RPB 10 2 2 NRR/DOEA/EAB 11 1 1 1 CREG_ELTE 02 1 1 1 NUDOCS-ABSTRACT 1 1 1 RES/DSR/PRAB 1 RES/DSIR/EIB R 1 1 RGN1 FILE 01 I 1 1 4 4 FORD BLDG HOY, A. EXTERNAL: EG&G WILLIAMS, S 1 L ST LOBBY WARD 1 1 LPDR 1 1 NRC PDR 1 1 NSIC MAYS,G 1 NSIC MURPHY, G.A 1 1

NOTE TO ALL "RIDS" RECIPIENTS:

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ACU-ESTER GAS AND ELECTRIC CORPORATION 💩 89 EAST AVENUE POPHESTER 🔊

July 19, 1989

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

Subject: LER 89-007, Safety Injection Pumps Inoperability Concerns Due To Flow Meter Calibration Errors Could Be Of Generic Concern To Nuclear Industry R.E. Ginna Nuclear Power Plant Docket No. 50-244

In accordance with 10 CFR 50.73, Licensee Event Report System, which permits and encourages Licensees to report significant events that may be of generic interest or concern even though they may not meet the criteria contained in 10 CFR 50.73, the attached Licensee event report LER 89-007 is hereby submitted.

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

Very truly yours,

Robert C. Medredy General Manager Nuclear Production

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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I. <u>PRE-EVENT PLANT CONDITIONS</u>

The unit was at approximately 99% steady state full power with no major activities in progress. Results and Test (R&T) personnel were in the Control Room discussing changes to periodic test procedure PT-2.1 (Safety Injection System Pumps) with the Control Room operators. These changes to PT-2.1 were necessary to reflect modifications made to the Safety Injection (SI) pumps minimum flow recirculation lines during the recent annual refueling and maintenance outage. This modification in part increased the size of the SI pumps recirculation lines to increase the recirculation flow for better pump reliability. During the post modification testing of the SI pumps, the "B" and "C" SI pumps exhibited problems meeting the design flow rates to the reactor coolant system as indicated on SI Because of the above indicated flow indicator FI-925. design flow rate delivery problems, the "B" and "C" SI pump minimum flow recirculation valves were throttled to 50 gpm to achieve the required design flow rates to the reactor coolant system. As the "A" SI pump did not exhibit problems achieving design flow rates to the Reactor Coolant System (RCS), its recirculation valve was locked full open.

II. <u>DESCRIPTION OF EVENT</u>

- A. DATES AND APPROXIMATE TIMES FOR MAJOR OCCURRENCES:
 - o June 19, 1989, 1440 EDST: Event date and time.
 - o June 19, 1989, 1440 EDST: Discovery date and time.
 - June 19, 1989, 1440 EDST: Started unit load reduction.
 - o June 19, 1989, 1515 EDST: Unusual Event declared.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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NRC FORM 364A

U.S. NUCLEAR REGULATORY COMMISSION APPROVED ONS NO. 3150-0104 EXPIRES \$731/05

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At approximately 1615 EDST, June 19, 1989 subsequent to the satisfactory testing and throttling of the "B" and "C" safety injection pumps minimum flow recirculation valves to 50 gpm, the "B" and "C" safety injection pumps were declared operable and the load reduction stopped.

With the "B" and "C" safety injection pumps declared operable and the load reduction stopped, the Operations Shift Supervisor, with approval and concurrence from the Plant Manager Ginna Station, and PORC declared the Unusual Event terminated at 1626 EDST, June 19, 1989 in accordance with SC-110, "Ginna Station Event Evaluation For Reducing the Classification". All offsite notifications were made of the Unusual Event termination and the plant was subsequently returned to approximately full power.

On June 21, 1989 at 1401 EDST with the reactor at approximately full power, periodic test procedure PT-2.1 (Safety Injection Pumps) was started for the monthly test of the safety injection pumps. The following is a sequence of important events that happened:

- The "A" SI pump was tested first and tested satisfactorily.
- At approximately 1544 EDST, upon starting the "B" SI pump for the test, the pump minimum flow recirculation flow rate was found to be 70 gpm. This was contrary to the required 50 gpm maximum flow rate. The recirculation flow rate was reset to 45 gpm per PT-2.1.
- At approximately 1637 EDST, upon starting the "C" SI pump for the test, the pump minimum flow recirculation flow rate was found to be 56 gpm. This was contrary to the required 50 gpm maximum flow rate. The recirculation flow rate was reset to 45 gpm per PT-2.1.

(AC Form 386A (9-43)	LICENSEE	EVENT REPOR	T (LER) TEXT CO	ONTINU	ATION	ł	U.S. NUCLEAR REG APPROVED O EXPIRES 8/3	ME NO. 31		,004
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NAC FORM 364A

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The second event was discovered during the monthly test of the safety injection pumps.

F. OPERATOR ACTION:

The major operator action during the events was to reduce plant load and subsequently take the unit off line and cool down to less than 350°F.

G. SAFETY SYSTEM RESPONSES:

None.

III. CAUSE OF EVENT

A. IMMEDIATE CAUSE:

The "B" and "C" SI pumps were thought to be inoperable because they could not meet their design flow rates to the RCS due to their recirc valves being full open rather than throttled as required.

- B. INTERMEDIATE CAUSE:
 - The "B" and "C" SI pump minimum flow recirculation valves were positioned full open rather than throttled as required.
 - With the pump minimum flow recirculation valves restored to the throttled position, subsequent pump testing failed to achieve repeatable pump recirculation flow results.

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C. ROOT CAUSE:

The underlying cause of the event resulted from incorrect calibration data, provided by the plant designer for the installed system. The calibration data provided for flow transmitters FT-924 and FT-925 did not correlate accurately with the installed flow orifice plates, FE-924 and FE-925.

IV. ANALYSIS OF EVENT

The event is being reported in accordance with 10 CFR 50.73 Licensee Event Report System, which permits and encourages Licensees to report significant events that may be of generic interest or concern even though they may not meet the criteria contained in 10 CFR 50.73.

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 deemed to be inoperable "B" and "C" SI pumps because:

 An analysis was performed using current calibration data, and it was determined that even with the "B" and "C" SI pumps minimum flow recirculation valves full open, the SI design flow rates to the RCS were still achieved. Thus the "B" and "C" SI pumps were never truly inoperable.

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

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