

LICENSEE EVENT REPORT (LER)

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|--|----------|-----------|--|---------------------|-----------------|----------|------------------|-----------|----------------|---|--------------------------|----------|------------------|----------|--|----------|----------|------------------|--|--|--|
| FACILITY NAME (1) EDWIN I. HATCH, UNIT I | | | | | | | | | | DOCKET NUMBER (2) 0 5 0 0 0 3 2 1 1 | | | | | PAGE (3) OF 0 3 | | | | | | |
| TITLE (4) RWCU ISOLATION ON HIGH TEMPERATURE | | | | | | | | | | | | | | | | | | | | | |
| EVENT DATE (5) | | | LER NUMBER (6) | | | | REPORT DATE (7) | | | OTHER FACILITIES INVOLVED (8) | | | | | | | | | | | |
| MONTH | DAY | YEAR | YEAR | SEQUENTIAL NUMBER | REVISION NUMBER | MONTH | DAY | YEAR | FACILITY NAMES | | | | DOCKET NUMBER(S) | | | | | | | | |
| | | | | | | | | | | | | | 0 5 0 0 0 | | | | | | | | |
| 0 | 4 | 0 | 3 | 8 | 5 | 8 | 5 | 0 | 1 | 9 | 0 | 0 | 5 | 0 | 2 | 8 | 5 | 0 5 0 0 0 | | | |
| OPERATING MODE (9) | | | THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11) | | | | | | | | | | | | | | | | | | |
| 1 | | | 20.402(b) | | | | 20.406(c) | | | | X 60.73(a)(2)(iv) | | | | 73.71(b) | | | | | | |
| POWER LEVEL (10) | | | 20.406(a)(1)(i) | | | | 60.36(c)(1) | | | | 60.73(a)(2)(v) | | | | 73.71(c) | | | | | | |
| 1 0 0 | | | 20.406(a)(1)(ii) | | | | 60.36(c)(2) | | | | 60.73(a)(2)(vii) | | | | OTHER (Specify in Abstract below and in Text, NRC Form 365A) | | | | | | |
| | | | 20.406(a)(1)(iii) | | | | 60.73(a)(2)(i) | | | | 60.73(a)(2)(viii)(A) | | | | | | | | | | |
| | | | 20.406(a)(1)(iv) | | | | 60.73(a)(2)(ii) | | | | 60.73(a)(2)(viii)(B) | | | | | | | | | | |
| | | | 20.406(a)(1)(v) | | | | 60.73(a)(2)(iii) | | | | 60.73(a)(2)(x) | | | | | | | | | | |
| LICENSEE CONTACT FOR THIS LER (12) | | | | | | | | | | | | | | | | | | | | | |
| NAME | | | | | | | | | | TELEPHONE NUMBER | | | | | | | | | | | |
| Steven B. Tipps, Superintendent of Regulatory Compliance | | | | | | | | | | 9 1 2 3 6 7 1 7 8 5 1 | | | | | | | | | | | |
| COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13) | | | | | | | | | | | | | | | | | | | | | |
| CAUSE | SYSTEM | COMPONENT | MANUFACTURER | REPORTABLE TO NPRDS | | CAUSE | SYSTEM | COMPONENT | MANUFACTURER | REPORTABLE TO NPRDS | | | | | | | | | | | |
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| SUPPLEMENTAL REPORT EXPECTED (14) | | | | | | | | | | EXPECTED SUBMISSION DATE (15) | | MONTH | DAY | YEAR | | | | | | | |
| YES (If yes, complete EXPECTED SUBMISSION DATE) | | | | | | | | | | X NO | | | | | | | | | | | |

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (18)

These three events (described in the narrative) are unplanned actuations of the reactor water cleanup (RWCU) system pump suction primary containment isolation valves (1G31-F001 and 1G31-F004). These isolations occurred as a result of high ambient temperature in the "1A" and "1B" RWCU pump rooms. RWCU pump suction valves 1G31-F001 and 1G31-F004 are engineered safety features (ESF); consequently, their unplanned actuations are reportable per 10CFR 50.73(a)(2)(iv).

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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 | | |
| EDWIN I. HATCH, UNIT 1 | 0500032185 | 01 | 9 | 0 | 02 | OF 03 |

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

This 30 day LER is required by 10CFR50.73(a)(2)(iv) because these events show that unplanned actuations of engineered safety features (ESF) occurred.

1. First Event:

At approximately 1035 CST on 04/03/85, with the plant operating at 2436 MWt (approximately 100% power), operations personnel received the following annunciation: "AMBIENT TEMPERATURE HIGH."

After an investigation, plant personnel determined that the reactor water cleanup (RWCU) pump suction outboard primary containment isolation valve (1G31-F004) had isolated on high ambient temperature in the "1B" RWCU pump room.

After further investigation, plant personnel determined that the high ambient temperature was caused by a leaking shaft seal on the "1B" RWCU pump (1G31-C001B). The shaft seal was replaced on 04/15/85 per the "RWCU RECIRC. PUMP MAINTENANCE" procedure (HNP-1-6222). The "1B" RWCU pump (1G31-C001B) will be satisfactorily functionally tested per the "REACTOR WATER CLEANUP SYSTEM" procedure (HNP-1325) prior to returning it to service.

2. Second Event:

At approximately 1230 CST on 04/05/85, with the plant operating at 2430 MWt (approximately 100% power), operations personnel received the following annunciation: "AMBIENT TEMPERATURE HIGH."

After an investigation, plant personnel determined that the RWCU pump suction inboard primary containment isolation valve (1G31-F001) had isolated on high ambient temperature in the "1A" RWCU pump room.

Further investigation by plant personnel failed to determine the cause of the high ambient temperature in the "1A" RWCU pump room; consequently, RWCU pump 1G31-C001A was returned to service at approximately 1440 CST on 04/05/85 in an effort to determine the cause of the high ambient temperature (refer to third event).

3. Third Event:

At approximately 2325 CST on 04/05/85 with the plant operating at 2221 MWt (approximately 91% power), operations personnel received the following annunciation: "AMBIENT TEMPERATURE HIGH."

After an investigation, plant personnel determined that the RWCU pump suction inboard primary containment isolation valve (1G31-F001) had isolated on high ambient temperature in the "1A" RWCU pump room.

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APPROVED OMB NO. 3150-0104
EXPIRES 8/31/85

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| EDWIN I. HATCH, UNIT I | 0500032185 | — | 019 | — | 00 | 3 | OF 3 |

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

Following further investigation, plant personnel determined that the high ambient pump room temperature was caused by leaking vent valves (1G31-F008A and 1G31-F009A) for the "1A" RWCU pump (1G31-C001A). Both vent valves were subsequently securely torqued closed to stop the leakage.

Additionally, temperature switch 1G31-N600C, which responds to ambient temperature inside the "1A" RWCU pump room, was found to have a trip setpoint of 129.9 degrees F. The normal setpoint for 1G31-N600C is 130 degrees F (plus or minus 10 degrees F); therefore, plant personnel recalibrated temperature switch 1G31-N600C and raised its setpoint to 135 degrees F. per the "TRANSMATION 610 AND 630 TEMPERATURE SWITCH" procedure (HNP-1-5235). This was done to permit a higher temperature in the pump room without an isolation occurring.

Subsequent to tightening the RWCU pump drain valves and adjusting the trip setpoint on temperature switch 1G31-N600C, RWCU pump 1G31-C001A was satisfactorily returned to service at approximately 0300 CST on 04/06/85.

Following each of the above events, an LCO was promptly initiated which required an inline conductivity measurement of reactor coolant at least once every four hours per Tech. Specs. section 4.6.F.2.a.1.

Similar events of the past are described in the following LERs: 50-321/1984-010 on 08/20/84; 50-366-1984-007 on 09/08/84; 50-366/1984-031 on 10/31/84.

Short term plans to prevent recurrence of these events are to revise the "REACTOR WATER CLEANUP SYSTEM" procedures (HNP-1-1325 and HNP-2-1325) to give greater details in the process of placing the RWCU pumps in service.

Long range plans to prevent recurrence of these events are to replace one existing RWCU pump in each unit with a new RWCU pump of a design which has no pump shaft seal. The new RWCU pump will then serve as a primary pump, and the remaining pump which employs shaft seals will be used as a secondary pump.

These events had no actual or potential safety consequences, nor was the health and safety of the public affected by these events.

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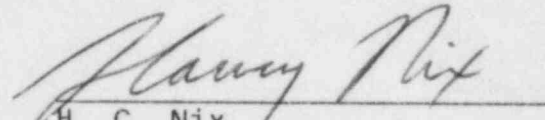
Edwin I. Hatch Nuclear Plant

May 2, 1985
GM-85-390

PLANT E. I. HATCH
Licensee Event Report
Docket No. 50-321

United States Nuclear Regulatory Commission
Document Control Desk
Washington, D. C. 20555

Attached is Licensee Event Report No. 50-321/1985-019. This report is required by 10CFR 50.73(a)(2)(iv).


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