

## LICENSEE EVENT REPORT (LER)

|  |        |           |   |                   |                 |       |                   |           |                |   |                      |   |                  |   |  |                     |   |                               |   |       |     |      |   |  |  |  |  |  |  |
|--|--------|-----------|---|-------------------|-----------------|-------|-------------------|-----------|----------------|---|----------------------|---|------------------|---|--|---------------------|---|-------------------------------|---|-------|-----|------|---|--|--|--|--|--|--|
| FACILITY NAME (1)<br>EDWIN I. HATCH, UNIT 2                                |        |           |   |                   |                 |       |                   |           |                | DOCKET NUMBER (2)<br>0 5 0 0 0 3 6 6      |                      |   |                  |   |  | PAGE (3)<br>1 OF 14 |   |                               |   |       |     |      |   |  |  |  |  |  |  |
| TITLE (4)<br>Failure of valves to pass Local Leak Rate Test                |        |           |   |                   |                 |       |                   |           |                |   |                      |   |                  |   |  |                     |   |                               |   |       |     |      |   |  |  |  |  |  |  |
| 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  | 1      | 1         | 7   | 8                 | 4               | 8     | 4                 | 0         | 0              | 4   | 0                    | 1 | 0                | 9 | 2  | 8                   | 8 | 4                             | 0 | 5     | 0   | 0    | 0 |  |  |  |  |  |  |
| OPERATING MODE (9)<br>4  |        |           | THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11) |                   |                 |       |                   |           |                |   |                      |   |                  |   |  |                     |   |                               |   |       |     |      |   |  |  |  |  |  |  |
| POWER LEVEL (10)<br>0 0 0  |        |           | 20.402(b)   |                   |                 |       | 20.405(c)         |           |                |   | 50.73(a)(2)(iv)      |   |                  |   | 73.71(b)   |                     |   |                               |   |       |     |      |   |  |  |  |  |  |  |
|  |        |           | 20.405(a)(1)(i)   |                   |                 |       | 50.36(c)(1)       |           |                |   | X 50.73(a)(2)(v)     |   |                  |   | 73.71(c)   |                     |   |                               |   |       |     |      |   |  |  |  |  |  |  |
|  |        |           | 20.405(a)(1)(ii)  |                   |                 |       | 50.36(c)(2)       |           |                |   | 50.73(a)(2)(vii)     |   |                  |   | OTHER (Specify in Abstract below and in Text, NRC Form 366A) |                     |   |                               |   |       |     |      |   |  |  |  |  |  |  |
|  |        |           | 20.405(a)(1)(iii)   |                   |                 |       | 50.73(a)(2)(i)    |           |                |   | 50.73(a)(2)(viii)(A) |   |                  |   |  |                     |   |                               |   |       |     |      |   |  |  |  |  |  |  |
|  |        |           | 20.405(a)(1)(iv)  |                   |                 |       | X 50.73(a)(2)(ii) |           |                |   | 50.73(a)(2)(viii)(B) |   |                  |   |  |                     |   |                               |   |       |     |      |   |  |  |  |  |  |  |
|  |        |           | 20.405(a)(1)(v)   |                   |                 |       | 50.73(a)(2)(iii)  |           |                |   | 50.73(a)(2)(x)       |   |                  |   |  |                     |   |                               |   |       |     |      |   |  |  |  |  |  |  |
| LICENSEE CONTACT FOR THIS LER (12)   |        |           |   |                   |                 |       |                   |           |                |   |                      |   |                  |   |  |                     |   |                               |   |       |     |      |   |  |  |  |  |  |  |
| NAME<br>Thomas L. Elton, Acting Supt. of Regulatory Compliance             |        |           |   |                   |                 |       |                   |           |                | TELEPHONE NUMBER<br>9 1 2 3 6 7 7 7 8 5 1 |                      |   |                  |   |  |                     |   |                               |   |       |     |      |   |  |  |  |  |  |  |
| COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13) |        |           |   |                   |                 |       |                   |           |                |   |                      |   |                  |   |  |                     |   |                               |   |       |     |      |   |  |  |  |  |  |  |
| CAUSE  | SYSTEM | COMPONENT | MANUFACTURER  | REPORTABLE TO NRC |                 | CAUSE | SYSTEM            | COMPONENT | MANUFACTURER   | REPORTABLE TO NRC                         |                      |   |                  |   |  |                     |   |                               |   |       |     |      |   |  |  |  |  |  |  |
| X  | S      | J         | I   | S                 | V               | R     | 3                 | 4         | 0              | Y   |                      | X | A                | D | I  | S                   | V | R                             | 3 | 4     | 0   | Y    |   |  |  |  |  |  |  |
| X  | S      | J         | I   | S                 | V               | R     | 3                 | 4         | 0              | Y   |                      | X | A                | D | I  | S                   | V | R                             | 3 | 4     | 0   | Y    |   |  |  |  |  |  |  |
| 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) (16)

While shutdown for a recirculation pipe replacement outage and during the performance of the "PRIMARY CONTAINMENT PERIODIC TYPE B AND C LEAKAGE TESTS" procedure (HNP-2-3952), as required by Tech. Specs. section 4.6.1.2.d, plant personnel determined that the results of numerous leakage tests for primary containment isolation valves were in excess of the limits specified in either Tech. Specs. sections 3.6.1.2. b or c, or the ASME SEC. XI criteria specified in HNP-2-3952, or 10CFR50, Appendix J, Paragraph III.C.3.b.

The cause for the unacceptable leakages is postulated to be the result of normal equipment wear.

The primary containment isolation valves (identified in the LER's text) were repaired, functionally tested satisfactorily, and returned to service prior to start up (start up commenced at approximately 03:36 CDT on 08/29/84).

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

This report is required by 10CFR50.73 (a)(2)(v)(C) and 10CFR50.73 (a)(2)(ii) due to the assumption that the plant did not meet the requirements of Tech. Specs. sections 3.6.1.2.b and 3.6.1.2.c, 10CFR50 Appendix J, Article III, A.1.d, and ASME section XI.

When the "PRIMARY CONTAINMENT PERIODIC TYPE B AND TYPE C LEAKAGE TESTS" procedure (HNP-2-3952) was performed, the plant was in cold shutdown for the recirculation pipe replacement outage.

A. At the time of discovery, plant personnel assumed that the leakage of the following tests was such that the plant could not meet the .60 La requirement of Tech. Specs. section 3.6.1.2.b.1. (Refer to Table 1 for "VALVE DESCRIPTION", "AS FOUND LEAKAGE", "AS LEFT LEAKAGE", and "REPAIR SUMMARY". The table is arranged in alphanumeric order by valve MPL number.)

1. On 01/17/84, RHR Return to Recirculation Isolation Valve (2E11-F015B) was tested.
2. On 01/17/84, Core Spray Inboard Isolation Valve (2E21-F005A) and Core Spray Isolation Check valve (2E21-F006A) (i.e., both valves in penetration X-16A) were tested.
3. On 01/19/84, RCIC Steam Supply Inboard Isolation valve (2E51-F007) and RCIC Steam Supply Outboard Isolation Valve (2E51-F008) were tested.
4. On 01/26/84, RHR Shutdown Cooling Suction Isolation Valve (2E11-F008) was tested.
5. On 01/28/84, Vent Purge Return Inboard Isolation valve (2T48-F319) and Vent Purge Return Outboard Isolation valve (2T48-F320) (i.e., both valves in penetration X-26) were tested.
6. On 01/31/84, Vacuum Relief Inboard Isolation Valve (2T48-F310) was tested.
7. On 01/31/84, Vent Purge Outlet Inboard Isolation Valve (2T48-F318) was tested.
8. On 02/01/84, LOCA H<sub>2</sub> Recombiner Inboard Isolation Valve (2T49-F002B) was tested.
9. On 02/01/84, H<sub>2</sub>/O<sub>2</sub> Sample Outboard Isolation valve (2P33-F010) was tested.
10. On 02/01/84, Vacuum Relief Inboard Isolation Valve (2T48-F309) and Vacuum Relief Outboard Isolation Valve (2T48-F324) were tested (one test for Penetration X-205). Following the repair and cleaning of Vent Purge Supply Inboard and Outboard Isolation Valves, 2T48-F307 and 2T48-F103, the X-205 penetration had an as-left leakage of 700 ACCM which was acceptable.

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

11. On 02/02/84, Drywell Differential Pressure System Discharge Inboard Isolation Valve (2T48-F209) was tested.
12. On 03/01/84, the CRW Pump Discharge Inboard Isolation Valve (2G11-F019) was tested.
13. On 03/02/84, TIP Drive Ball Inboard Isolation valve (2C51-J004A) was tested.
14. On 03/02/84, TIP Drive Ball Inboard Isolation valve (2C51-J004B) was tested.
15. On 03/02/84, TIP Drive Ball Inboard Isolation Valve (2C51-J004C) was tested.
16. On 03/02/84, TIP Drive Ball Inboard Isolation Valve (2C51-J004D) was tested.
17. On 03/02/84, TIP N<sub>2</sub> Purge Outboard Isolation Solenoid Valve (2C51-F3012) was tested.
18. On 03/02/84, Containment Spray Inboard Isolation Valve (2E11-F016A) was tested.
19. On 03/10/84, Containment Spray Isolation Valve (2E11-F028B) was tested.
20. On 03/05/84, Chemical Pump Discharge Outboard Isolation Valve (2G11-F852) was tested. The redundant valve was operable. Further investigation proved 2G11-F851 to be the cause of failure, thus 2E11-F852 was operable.
21. On 08/11/84, Drywell Pneumatic Return Inboard Isolation Check Valve (2P70-F091) was tested.
22. On 01/31/84, Vacuum Relief Inboard Isolation valve (2T48-F311) was tested.

B. At the time of discovery, plant personnel assumed that the leakage of the following tests was such that the plant could not meet the .009 La requirement of Tech. Specs. section 3.6.1.2.b.2.:

1. On 01/19/84, Dirty radwaste pump discharge outboard isolation valve (2G11-F004) was tested. The dirty radwaste pump discharge inboard isolation valve (2G11-F003) was found with an acceptable leakage of 20 ACCM; thus, this penetration remained leaktight.
2. On 02/10/84, Primary feedwater inboard isolation valve (2B21-F010A) was tested.
3. On 02/11/84, Primary feedwater outboard isolation valve (2B21-F077A) was tested. This leakage test failed due to the leakage of valve 2B21-F010A.
4. On 02/10/84, Primary feedwater inboard isolation valve (2B21-F010B) was tested.
5. On 02/12/84, Primary feedwater outboard isolation valve (2B21-F077B) was tested. This leakage test failed due to the leakage of valve 2B21-F010B.

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TEXT (If more space is required, use additional NRC Form 388A's) (17)

- C. At the time of discovery, plant personnel assumed that the leakage of the following test was such that the plant could not meet the 11.5 SCFH requirement of Tech. Specs. section 3.6.1.2.c.:

On 1/16/84, Primary leakage test on penetration X-7C showed a leakage rate of 30 SCFH. This tested the inboard MSIV (2B21-F022C), the outboard MSIV (2B21-F028C), and a MSIV leakage control system isolation valve (2E32-F001K). After the as-found test was performed, 2B21-F022C and 2B21-F028C were rebuilt as part of a pre-planned maintenance schedule. The X-7C penetration was retested on 5/30/84 with an as-found leakage rate of 0 SCFH.

- D. At the time of discovery, plant personnel assumed that the leakage of the following tests was such that the plant could not meet the requirements of the individual valve leakage rates specified as a result of ASME section XI:

1. On 01/20/84, the suction inboard isolation valves (2E11-F004A and 2E11-F030A) for the "A" RHR pump would not pressurize. Further investigation revealed that only the 2E11-F004A was leaking significantly.
2. On 01/26/84, the core spray test line inboard isolation valve (2E11-F007A) was tested.
3. On 01/19/84, the HPCI pump suction outboard isolation valve (2E41-F042) and the HPCI pump suction inboard isolation valve (2E41-F051) (i.e., both valves in penetration X-207) were found to have a combined leakage of 1600 ACCM. Further investigation revealed that only 2E41-F051 was leaking significantly.
4. On 01/20/84, the torus purification suction inboard isolation valve (2G51-F002) was tested.
5. On 01/27/84, the suction inboard isolation valves (2E11-F004B and 2E11-F030B) for the "B" RHR pump would not pressurize. Further investigation revealed that only the 2E11-F004B was leaking significantly.
6. On 02/04/84, the "A" RHR testable check valve (2E11-F050A) was tested.
7. On 02/04/84, the "B" RHR testable check valve (2E11-F050B) was tested.
8. On 02/29/84, the HPIC turbine exhaust inboard isolation valve (2E41-F021) and the HPCI turbine exhaust outboard isolation valve (2E41-F049) (i.e., both valves in penetration X-214) were found to have a combined leakage of 1750 ACCM. This leakage did not exceed the requirements of ASME section XI (1800 ACCM); however, on 07/09/84, the valves were overhauled and then successfully retested with an as-left leakage of 40 ACCM.
9. On 02/29/84, the RCIC turbine exhaust inboard isolation valve (2E51-F001) and the RCIC turbine exhaust outboard isolation valve (2E51-F040) (i.e., both valves in penetration X-212) would not pressurize.



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|------------------------|--|----------------|----------------------|--------------------|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
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|                        |  |                |                      |                    |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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TEXT (If more space is required, use additional NRC Form 305A's) (17)

E. At the time of discovery, plant personnel assumed that the leakage of the following test was such that the plant could not meet the requirements of 10CFR50 Appendix J, Article III. A 1.d.:

On 08/07/84, the Chilled Water Supply Isolation Valve (2P64-F045) and Chilled Water Supply Isolation Valve (2P64-F047) were tested.

NOTE: The component failure information data and the "IDENTIFICATION OF EACH FAILED COMPONENT" sheets are arranged in the same order as Table 1.

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U.S. NUCLEAR REGULATORY COMMISSION

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|---|---|----------------|----------------------|--------------------|----------|--|--|
| FACILITY NAME (1)<br><br>EDWIN I. HATCH, UNIT 2 | DOCKET NUMBER (2)<br><br>0 5 0 0 0 3 6 6 8 4 - 0 0 4 - 0 1 0 6 OF 1 4 | LER NUMBER (6) |                      |                    | PAGE (3) |  |  |
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TEXT (If more space is required, use additional NRC Form 366A's) (17)

IDENTIFICATION OF EACH FAILED COMPONENT

MPL NUMBER

MANUFACTURER

MODEL NUMBER

|              |                    |                         |
|--------------|--------------------|-------------------------|
| . 2B21-F010A | . Rockwell         | . Fig 970NTY(WCC)       |
| . 2B21-F010B | . Rockwell         | . Fig 970NTY(WCC)       |
| . 2B21-F022C | . Rockwell         | . 1612 JMMNTY           |
| . 2B21-F028C | . Rockwell         | . 1612 JMMNTY           |
| . 2C51-J004A | . General Electric | . 112C2391P001 Rev. 20. |
| . 2C51-J004B | . General Electric | . 112C2391P001 Rev. 20. |
| . 2C51-J004C | . General Electric | . 112C2391P001 Rev. 20. |
| . 2C51-J004D | . General Electric | . 112C2391P001 Rev. 20. |
| . 2C51-F3012 | . General Electric | . CAT 117C1             |
| . 2E11-F004A | . Walworth Comp.   | . Fig. S206WE           |
| . 2E11-F004B | . Walworth Comp.   | . Fig. S206WE           |
| . 2E11-F007A | . Walworth Comp.   | . Fig. S206WE           |
| . 2E11-F008  | . William Powell   | . 19023 WE              |
| . 2E11-F015B | . William Powell   | . 19023 WE              |
| . 2E11-F016A | . Walworth Comp.   | . 5281 WE               |
| . 2E11-F028B | . Walworth Comp.   | . 5206 WE               |
| . 2E11-F050A | . Rockwell         | . Fig. 970(WCC) JMMNTY. |
| . 2E11-F050B | . Rockwell         | . Fig. 970(WCC) JMMNTY. |
| . 2E21-F005A | . William Powell   | . Fig. 16023 WE         |
| . 2E21-F006A | . Rockwell         | . Fig. 970(WCC)JMMNTY   |

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

IDENTIFICATION OF EACH FAILED COMPONENT

MPL No.

MANUFACTURER

MODEL NO.

|            |                          |              |
|------------|--------------------------|--------------|
| 2E41-F021  | Atwood & Morrell & Comp. | DWG.21212-C  |
| 2E41-F049  | Walworth Comp.           | Fig. 5341    |
| 2E41-F051  | Fisher Controls Comp.    | Fig. 9120    |
| 2E51-F001  | Walworth                 | Fig. 5312    |
| 2E51-F007  | William Powell           | Fig. 19023   |
| 2G11-F004  | Pacific Valves           | 153G-7-WE-CC |
| 2G11-F019  | Pacific Valves           | 153G-7-WE-CC |
| 2G11-F852  | Hancock Mfg. Co.         | Type 950W    |
| 2G51-F002  | William Powell           | Fig. 1503WE  |
| 2P33-F010  | Fisher Controls Comp.    | 657-ES       |
| 2P64-F045  | Walworth Comp.           | Fig. 5275    |
| 2P70-F091  | Rockwell                 | Fig. 36274   |
| 2T48-F209  | Pacific Valves           | 1536-7-WE-CC |
| 2T48-F307  | Fisher Controls Comp.    | Fig. 9220    |
| 2T48-F103  | Fisher Controls Comp.    | Fig. 9220    |
| 2T48-F310  | Fisher Controls Comp.    | Fig. 9220    |
| 2T48-F311  | Fisher Controls Comp.    | Fig. 9220    |
| 2T48-F318  | Fisher Controls Comp.    | Fig. 9220    |
| 2T48-F319  | Fisher Controls Comp.    | Fig. 9220    |
| 2T48-F320  | Fisher Controls Comp.    | Fig. 9220    |
| 2T49-F002B | William Powell           | Fig. 1503 WE |

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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

| CAUSE | SYSTEM | COMPONENT | MANUFACTURER | REPORTABLE TO NRC |  | CAUSE | SYSTEM | COMPONENT | MANUFACTURER | REPORTABLE TO NRC |  |
|-------|--------|-----------|--------------|-------------------|--|-------|--------|-----------|--------------|-------------------|--|
| X     | J M    | I S V     | G O 8 0      | N                 |  | X     | J M    | I S V     | F 1 3 0      | N                 |  |
| X     | J M    | I S V     | G O 8 0      | N                 |  | X     | J M    | I S V     | W 0 3 0      | N                 |  |
| X     | J M    | I S V     | G O 8 0      | N                 |  | X     | J M    | I S V     | R 3 4 0      | Y                 |  |
| X     | J M    | I S V     | G O 8 0      | N                 |  | X     | J M    | I S V     | P 0 3 2      | N                 |  |
| X     | J M    | I S V     | G O 8 0      | N                 |  | X     | B B    | I S V     | F 1 3 0      | Y                 |  |
| X     | B O    | I S V     | W 0 3 0      | Y                 |  | X     | B B    | I S V     | F 1 3 0      | N                 |  |
| X     | B O    | I S V     | W 0 3 0      | Y                 |  | X     | N H    | I S V     | F 1 3 0      | Y                 |  |
| X     | B O    | I S V     | W 0 3 0      | Y                 |  | X     | N H    | I S V     | F 1 3 0      | Y                 |  |
| X     | B O    | I S V     | P 3 0 5      | Y                 |  | X     | B B    | I S V     | F 1 3 0      | Y                 |  |
| X     | B O    | I S V     | P 3 0 5      | Y                 |  | X     | B B    | I S V     | F 1 3 0      | Y                 |  |
| X     | B O    | I S V     | W 0 3 0      | Y                 |  | X     | B B    | I S V     | F 1 3 0      | Y                 |  |
| X     | B O    | I S V     | W 0 3 0      | Y                 |  | X     | J M    | I S V     | P 1 3 0      | N                 |  |
| X     | B O    | I S V     | R 3 4 0      | Y                 |  |       |        |           |              |                   |  |
| X     | B O    | I S V     | R 3 4 0      | Y                 |  |       |        |           |              |                   |  |
| X     | B G    | I S V     | P 3 0 5      | Y                 |  |       |        |           |              |                   |  |
| X     | B G    | I S V     | R 3 4 0      | Y                 |  |       |        |           |              |                   |  |
| X     | B J    | I S V     | A 5 8 5      | Y                 |  |       |        |           |              |                   |  |
| X     | B J    | I S V     | W 0 3 0      | Y                 |  |       |        |           |              |                   |  |
| X     | B J    | I S V     | F 1 3 0      | Y                 |  |       |        |           |              |                   |  |
| X     | B N    | I S V     | W 0 3 0      | Y                 |  |       |        |           |              |                   |  |
| X     | B N    | I S V     | P 3 0 5      | N                 |  |       |        |           |              |                   |  |
| X     | J M    | I S V     | P 3 0 5      | N                 |  |       |        |           |              |                   |  |
| X     | J M    | I S V     | P 3 0 5      | N                 |  |       |        |           |              |                   |  |
| X     | J M    | I S V     | H 0 3 7      | N                 |  |       |        |           |              |                   |  |
| X     | J M    | I S V     | P 3 0 5      | N                 |  |       |        |           |              |                   |  |



## 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 366 | 0500036684        | —              | 004               | —               | 01       | 09 | OF 14 |

TEXT (If more space is required, use additional NRC Form 386A's) (17)

## TABLE NUMBER 1

(sheet 1 of 6)

## PRIMARY CONTAINMENT PERIODIC TYPE B &amp; TYPE C LEAKAGE TESTS FAILURE SUMMARY

| VALVE DESCRIPTION  | AS<br>FOUND<br>LEAKAGE | AS<br>LEFT<br>LEAKAGE | REPAIR SUMMARY   |
|--|------------------------|-----------------------|--|
| 1. Primary Feedwater Inboard Isolation Valve 2B21-F010A ** | *                      | 40 accm               | installed new valve  |
| 2. Primary Feedwater Inboard Isolation Valve 2B21-F010B ** | *                      | 0                     | welded up steam cut on seat area; then machined seat; replaced hinge pins; then repacked valve |
| 3. Main Steam Inboard Isolation Valve 2B21-F022C ***       | 30 SCFH                | 0                     | rebuilt, and repacked valve  |
| 4. Main Steam Outboard Isolation Valve 2B21-F028C ***      | 30 SCFH                | 0                     | rebuilt, and repacked valve  |
| 5. Tip Drive Ball Valve Inboard Isolation 2C51-J004A **    | 750 accm               | 0                     | New ball valve installed   |
| 6. Tip Drive Ball Valve Inboard Isolation 2C51-J004B **    | 300 accm               | 0                     | New ball valve installed   |
| 7. Tip Drive Ball Valve Inboard Isolation 2C51-J004C **    | 2150 accm              | 0                     | New ball valve installed   |
| 8. Tip Drive Ball Valve Inboard Isolation 2C51-J004D **    | 2100 accm              | 0                     | New ball valve installed   |

\* Would not pressurize

\*\* Redundant isolation valve/ barrier in penetration was operable.

\*\*\* Both valves in penetration failed test.

\*\*\*\* ASME test only.

## 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 366 | 0500036684        | —              | 004               | —01             | 1        | 0 | OF 14 |

TEXT (If more space is required, use additional NRC Form 385A's) (17)

## TABLE NUMBER 1

(sheet 2 of 6)

## PRIMARY CONTAINMENT PERIODIC TYPE B &amp; TYPE C LEAKAGE TESTS FAILURE SUMMARY

| VALVE DESCRIPTION  | AS<br>FOUND<br>LEAKAGE | AS<br>LEFT<br>LEAKAGE | REPAIR SUMMARY   |
|--|------------------------|-----------------------|--|
| 9. Tip N <sub>2</sub> Purge Outboard Isolation<br>Solenoid Valve 2C51-F3012 ** | 60 accm                | 25 accm               | cleaned internals,<br>inspected seat and<br>orifices; then<br>reassembled                        |
| 10. RHR Pump Suction Inboard Isolation<br>Valve 2E11-F004A ****                | *                      | 350 accm              | machined seats,<br>aligned wedge and<br>repacked the valve                                       |
| 11. RHR Pump Suction Inboard Isolation<br>Valve 2E11-F004B ***                 | *                      | 230 accm              | polished seating<br>surfaces and wedge;<br>then repacked the<br>valve                            |
| 12. Core Spray Test Line Inboard Isolation<br>2E11-F007A ****                  | *                      | 30 accm               | cleaned and<br>repacked the valve  |
| 13. RHR Shutdown Cooling Suction Isolation<br>Valve 2E11-F008 **               | 3600 accm              | 50 accm               | repolished seats,<br>wedge, and cleaned<br>the pressure seal<br>area; then repacked<br>the valve |
| 14. RHR Return to Recirculation Isolation<br>Valve 2E11-F015B **               | 1950 accm              | 0                     | repolished seats,<br>wedge, and cleaned<br>the pressure seal<br>area                             |

\* Would not pressurize

\*\* Redundant isolation valve/ barrier in penetration was operable.

\*\*\* Both valves in penetration failed test.

\*\*\*\* ASME test only.

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

|   |   |                |                   |                 |          |  |  |
|---|---|----------------|-------------------|-----------------|----------|--|--|
| FACILITY NAME (1)<br><br>EDWIN I. HATCH, UNIT 366 | DOCKET NUMBER (2)<br><br>0 5 0 0 0 3 6 6 8 4 - 0 0 4 - 0 1 1 1 OF 1 4 | LER NUMBER (6) |                   |                 | PAGE (3) |  |  |
|   |   | YEAR           | SEQUENTIAL NUMBER | REVISION NUMBER |          |  |  |
|   |   |                |                   |                 |          |  |  |

TEXT (If more space is required, use additional NRC Form 386A's) (17)

## TABLE NUMBER 1

(sheet 3 of 6)

## PRIMARY CONTAINMENT PERIODIC TYPE B &amp; TYPE C LEAKAGE TESTS FAILURE SUMMARY

| VALVE DESCRIPTION   | AS<br>FOUND<br>LEAKAGE | AS<br>LEFT<br>LEAKAGE | REPAIR SUMMARY  |
|---|------------------------|-----------------------|---|
| 15. Containment Spray Inboard Isolation Valve 2E11-F016A **                   | 1000 accm              | 220 accm              | replaced disc, polished stem, and repacked the valve        |
| 16. RHR Test Line Isolation Valve 2E11-F028B **                               | 1200 accm              | 800 accm              | replaced packing and O rings                                |
| 17. RHR Testable Check Valve 2E11-F050A ****                                  | *                      | 0                     | replaced the entire valve                                   |
| 18. RHR Testable Check Valve 2E11-F050B ****                                  | *                      | 0                     | replaced the entire valve                                   |
| 19. Core Spray Inboard Isolation Valve 2E21-F005A ***<br>(PENETRATION X-16A)  | 1630 accm              | 20 accm               | cleaned wedge and seat, then repacked valve                 |
| 20. Core Spray Outboard Isolation Valve 2E21-F006A ***<br>(PENETRATION X-16A) | *                      | 1200 accm             | realigned hinge pin, repacked valve                         |
| 21. HPCI Turbine Exhaust Inboard Isolation Valve 2E41-F021 ****               | 1750 accm              | 40 accm               | polished seat and disc, repacked valve                      |
| 22. HPCI Turbine Exhaust Outboard Isolation Valve 2E41-F049 ****              | 1750 accm              | 40 accm               | cleaned valve, machined seat, repaired disc, repacked valve |

\* Would not pressurize

\*\* Redundant isolation valve/ barrier in penetration was operable.

\*\*\* Both valves in penetration failed test.

\*\*\*\* ASME test only.

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/86

|                          |                   |                |                   |                 |          |   |       |  |
|--------------------------|-------------------|----------------|-------------------|-----------------|----------|---|-------|--|
| FACILITY NAME (1)        | DOCKET NUMBER (2) | LER NUMBER (6) |                   |                 | PAGE (3) |   |       |  |
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| EDWIN I. HATCH, UNIT 366 | 05000366          | 84             | 004               | 01              | 1        | 2 | OF 14 |  |

TEXT (If more space is required, use additional NRC Form 388A's) (17)

TABLE NUMBER 1

(sheet 4 of 6)

## PRIMARY CONTAINMENT PERIODIC TYPE B &amp; TYPE C LEAKAGE TESTS FAILURE SUMMARY

| VALVE DESCRIPTION   | AS<br>FOUND<br>LEAKAGE | AS<br>LEFT<br>LEAKAGE | REPAIR SUMMARY  |
|---|------------------------|-----------------------|---|
| 23. HPCI Pump Suction Inboard Isolation<br>Valve 2E41-F051 ****     | 1600 accm              | 0                     | installed new liner,<br>flapper, shaft,<br>tapered pins;<br>replaced O rings,<br>and repacked valve |
| 24. RCIC Turbine Exhaust Inboard Isolation<br>valve 2E51-F001 ****  | *                      | 450 accm              | replaced disc seat,<br>replaced valve seat,<br>then repacked valve                                  |
| 25. RCIC Steam Supply Inboard Isolation<br>Valve 2E51-F007 **       | *                      | 30 accm               | wedge was not<br>hitting the seat<br>correctly.<br>Realigned and<br>repacked the valve              |
| 26. DRW Pump Discharge Outboard Isolation<br>Valve 2G11-F004 **     | *                      | less than<br>20 accm  | lapped wedge,<br>cleaned valve,<br>repacked valve   |
| 27. CRW Pump Discharge Inboard Isolation<br>valve 2G11-F019 **      | 750 accm               | 40 accm               | cleaned wedge and<br>repacked the valve   |
| 28. Chemical Pump Discharge Inboard<br>Isolation Valve 2G11-F852 ** | *                      | 25 accm               | cleaned the seat<br>and bonnet of the<br>blocking valve<br>(2G11-F851); then<br>repacked the valve  |

\* Would not pressurize

\*\* Redundant isolation valve/ barrier in penetration was operable.

\*\*\* Both valves in penetration failed test.

\*\*\*\* ASME test only.



## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO 3150-0104

EXPIRES 8/31/85

|   |   |                |                   |                 |          |  |  |
|---|---|----------------|-------------------|-----------------|----------|--|--|
| FACILITY NAME (1)<br><br>EDWIN I. HATCH, UNIT 366 | DOCKET NUMBER (2)<br><br>0 5 0 0 0 3 6 6 8 4 - 0 0 4 - 0 1 1 3 OF 1 4 | LER NUMBER (6) |                   |                 | PAGE (3) |  |  |
|   |   | YEAR           | SEQUENTIAL NUMBER | REVISION NUMBER |          |  |  |
|   |   |                |                   |                 |          |  |  |

TEXT (If more space is required, use additional NRC Form 368A's) (17)

TABLE NUMBER 1

(sheet 5 of 6)

## PRIMARY CONTAINMENT PERIODIC TYPE B &amp; TYPE C LEAKAGE TESTS FAILURE SUMMARY

| VALVE DESCRIPTION   | AS<br>FOUND<br>LEAKAGE | AS<br>LEFT<br>LEAKAGE | REPAIR SUMMARY   |
|---|------------------------|-----------------------|--|
| 29. Torus Purification Suction Inboard Isolation Valve 2G51-F002 ****                   | 300 accm               | 25 accm               | Cleaned and repacked valve   |
| 30. H <sub>2</sub> O <sub>2</sub> Sample Outboard Isolation Valve 2P33-F010 **          | 300 accm               | 20 accm               | Cleaned valve, replaced gaskets, and packing; then set up valve via a bench test |
| 31. Chilled Water Supply Isolation Valve 2P64-F045 **                                   | 2200 accm              | 120 accm              | Machined seat and globe; repacked valve  |
| 32. Drywell Pneumatic Return Inboard Isolation valve 2P70-F091 **                       | *                      | 190 accm              | cleaned and repacked the valve   |
| 33. Drywell Differential Pressure System Discharge Inboard Isolation Valve 2T48-F209 ** | 2200 accm              | 80 accm               | Replaced wedge and packing   |
| 34. Vent Purge Supply Inboard Isolation Valve 2T48-F307 ***<br>(PENETRATION X-25)       | 125 accm               | 0                     | Replaced O rings and glands, polished shaft, then repacked the valve             |
| 35. Vent Purge Supply Outboard Isolation Valve 2T48-F103 ***<br>(PENETRATION X-25)      | 3800 accm              | 700 accm              | Cleaned and repacked the valve   |

\* Would not pressurize

\*\* Redundant isolation valve/ barrier in penetration was operable.

\*\*\* Both valves in penetration failed test.

\*\*\*\* ASME test only.

## 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 366 | 0 5 0 0 0 3 6 6 8 4 - | 0 0 4 -        | 0 1 1             | 4               | OF       | 1 4 |  |

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

## TABLE NUMBER 1

(sheet 6 of 6)

## PRIMARY CONTAINMENT PERIODIC TYP B &amp; TYPE C LEAKAGE TESTS FAILURE SUMMARY

| VALVE DESCRIPTION   | AS<br>FOUND<br>LEAKAGE | AS<br>LEFT<br>LEAKAGE | REPAIR SUMMARY   |
|---|------------------------|-----------------------|--|
| 36. Vacuum Relief Inboard Isolation Valve<br>2T48-F310 **                             | 360 accm               | 80 accm               | Replaced "O" rings;<br>cleaned and<br>repacked the valve |
| 37. Vacuum Relief Inboard Isolation Valve<br>2T48-F311 **                             | 2200 accm              | 0                     | Replaced "O" rings;<br>cleaned and<br>repacked the valve |
| 38. Vent Purge Outlet Inboard Isolation<br>Valve 2T48-F318 **                         | 70 accm                | 0                     | Replaced "O" rings;<br>cleaned and<br>repacked the valve |
| 39. Vent Purge Return Inboard Isolation<br>Valve 2T48-F319 ***<br>(PENETRATION X-26)  | *                      | 0                     | Replaced "O" rings;<br>cleaned and<br>repacked the valve |
| 40. Vent Purge Return Outboard Isolation<br>Valve 2T48-F320 ***<br>(PENETRATION X-26) | 690 accm               | 0                     | Replaced "O" rings;<br>cleaned and<br>repacked the valve |
| 41. LOCA H <sub>2</sub> Recombiner Inboard Isolation<br>Valve 2T49-F002B **           | 350 accm               | 160 accm              | Cleaned, repolished<br>and repacked valve                |

\* Would not pressurize

\*\* Redundant isolation valve/ barrier in penetration was operable.

\*\*\* Both valves in penetration failed test.

\*\*\*\* ASME test only.

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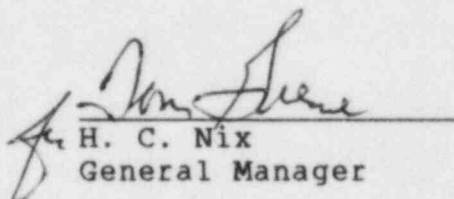
Edwin i. Hatch Nuclear Plant

September 28, 1984  
GM-84-862

PLANT E. I. HATCH  
Licensee Event Report  
Docket No. 50-366

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

Attached is Licensee Event Report No. 50-366/1984-04, Rev. 1. This report is required by 10 CFR 50.73(a)(2)(v)(C) and 10 CFR 50.73(a)(2)(ii).

  
H. C. Nix  
General Manager

*JCC*  
HCN/TLE/djs

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