

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) EDWIN I. HATCH, UNIT 1 DOCKET NUMBER (2) 0 5 0 0 0 3 2 1 PAGE (3) 1 OF 1 5

TITLE (4) Failure of components 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)												
1	0	8	8	4	8	4	0	1	7	0	1	0	2	0	6	8	5	0	5	0	0	0

OPERATING MODE (9) 5 THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)

20.402(b)	20.406(c)	50.73(a)(2)(iv)	73.71(b)
20.406(a)(1)(i)	50.36(c)(1)	X 50.73(a)(2)(v)	73.71(c)
20.406(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
20.406(a)(1)(iii)	50.73(a)(2)(i)	50.73(a)(2)(viii)(A)	
20.406(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)	
20.406(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
T. E. Elton Acting Supt. of Regulatory Compliance	9 1 2 3 6 7 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
X	S B	I S V C 6 8 4		Y	X	S B	I S V A 5 8 5		Y
X	S B	I S V A 5 8 5		Y	X	S B	I S V A 5 8 5		Y

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO X

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

While shutdown for refueling outage and during the performance of the "PRIMARY CONTAINMENT PERIODIC TYPE B AND C LEAKAGE TESTS" procedure (HNP-1-3952) as required by Tech. Specs. section 4.7.A.2.g and 4.7.A.2.h, 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 4.7.A.2.g, 4.7.A.2.h, or the ASME Sec. XI criteria specified in HNP-1-3952, or 10CFR 50, Appendix J Paragraph III.C.3.b.

The cause of the unacceptable leakage is postulated to be the result of normal equipment wear. The primary containment isolation valves (identified in the LER's text) were repaired, satisfactorily functionally tested, and returned to service prior to plant start-up which commenced approximately 0410 CST on 01-08-85.

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

This report is required by 10CFR 50.73(a)(2)(ii) and 10CFR 50.73(a)(2)(v)(C) due to the assumption that the plant did not meet the requirements of Tech. Specs. sections 4.7.A.2.e(1) and 4.7.A.2.f; 10CFR 50 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-1-3952) was performed, the plant was in cold shutdown for a refueling outage.

A. At the time of discovery, plant personnel assumed that the leakage tests were such that the plant could not meet the 0.6La requirements of Tech. Specs. section of 4.7.A.2.g (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 10-08-84 Radwaste Equipment Drain, Containment Drain, Containment Isolation Valve 1G11-F019 was tested.
2. On 10-08-84 HPCI Turbine Exhaust Inboard Isolation Valve 1E41-F021 was tested.
3. On 10-08-84 RHR Pump Suction Torus Isolation Valve 1E11-F004A was tested.
4. On 10-08-84 Drywell Pneumatic Containment Isolation Valve 1P70-F020 was tested.
5. On 10-08-84 torus penetration X-201B was tested.
6. On 10-09-84 RHR Containment Spray Outboard Isolation Valve 1E11-F016B was tested.
7. On 10-09-84 RHR Suppression Pool Spray Outboard Isolation Valve 1E11-F028B was tested.
8. On 10-09-84 LPCI Pressure Relief Valve 1E11-F025B was tested.
9. On 10-09-84 RHR Steam Supply Pressure Relief Valve 1E11-F097 was tested.
10. On 10-09-84 RHR Pump Minimum Flow Torus Isolation Valve 1E11-F007B was tested.
11. On 10-09-84 Torus Purge Inlet Outboard Isolation Valve 1T48-F309 at penetration X-25 was tested.
12. On 10-09-84 Drywell Purge Outlet Isolation Valve 1T48-320 at penetration X-26 was tested.
13. On 10-12-84 Main Steam Line Drain Valve 1B21-F016 was tested.
14. On 10-12-84 Core Spray Pump Torus Outboard Suction Isolation Valve 1E21-F001B was tested.
15. On 10-12-84 Torus Isolation Vacuum Breaker Valve 1E51-F104 was tested.
16. On 10-12-84 Torus Purge Inlet Outboard Isolation Valve 1T48-F311 was tested.

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17. On 10-12-84 Core Spray Pump Torus Suction Outboard Isolation Valve 1E21-F001A was tested.
18. On 10-12-84 Torus Purge Inlet Outboard Isolation Valve 1T48-F324 at penetration X-25 was tested.
19. On 10-18-84 Drywell and Torus Containment and Purge Supply Isolation Valve 1T48-F103 was tested.
20. On 10-18-84 RHR Suppression Pool Spray Outboard Isolation Valve 1E11-F028A was tested.
21. On 10-18-84 HPCI Test Bypass Valve 1E41-F008 was tested.
22. On 10-18-84 Plant Service Water Drywell Return Valve 1P41-F050 was tested.
23. On 11-05-84 TIP Inboard Isolation Valves 1C51-J004A, 1C51-J004C, and 1C51-J004D were tested.
24. On 11-05-84 H₂O₂ Analyzer Containment Isolation Valve 1P33-F014 was tested.
25. On 11-05-84 Drywell Purge Outlet Inboard Isolation Valve 1T48-F319 was tested.
26. On 11-04-84 Drywell Purge Outlet Outboard Isolation Valves 1T48-F334B and 1T48-F335A were tested.
27. On 11-05-84 Containment Purge and Inerting Bypass Outboard Isolation Valve 1T48-F340 and inboard isolation valve 1T48-F341 were tested.
28. On 11-16-84 RCIC turbine exhaust torus isolation valve 1E51-F040 was tested.
29. On 11-16-84 Recirculation Pump Seal Water Containment Isolation Valves 1B31-F013A and 1B31-F013B were tested.
30. On 11-21-84 Recirculation Pump Seal Water Containment Isolation Valves 1B31-F017A and 1B31-F017B were tested.
31. On 11-21-84 Torus Pump Outlet Outboard Isolation Valve 1T48-F326 was tested.
32. On 12-14-84 Core Spray Pump Minimum Flow Bypass Valve 1E21-F031A was tested.
33. On 12-14-84 HPCI Steam Supply Inboard Isolation Valve 1E41-F002 and HPCI steam supply outboard isolation valve 1E41-F003 were tested. Both valves are in penetration X-11.

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B. 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 4.7.A.2.h.

On 10-08-84 plant personnel tested the following Main Steam Line Isolation Valves: 1B21-F022A, 1B21-F022B, 1B21-F022C, 1B21-F022D, 1B21-F028A, and 1B21-F028C. The valves were forced to leak to the extent that neither of them would pressurize. After the test was performed, the valves were repaired as part of a pre-planned maintenance schedule (refer to Table 1).

C. At the time of discovery, plant personnel assumed that the leakage of the following tests were 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 10-09-84 the RHR Condenser to Torus Discharge Isolation Valve 1E11-F011B was tested and found to leak to the extent that its leakage was too great to be measured.
2. On 10-18-84 LPCI Outboard Containment Isolation Valve 1E11-F015A was tested and found to have 1000 ACCM leakage.
3. On 10-18-84 RWCU Return Isolation Valve 1G31-F041 was tested and found to leak to the extent that its leakage was too great to be measured.

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

IDENTIFICATION OF EACH FAILED COMPONENT

<u>MPL NUMBER</u>	<u>MANUFACTURER</u>	<u>MODEL NUMBER</u>
1B21-F016	Crane Valve Company	776U
1B21-F022A	Atwood and Morrill Company	DWG.21049-H
1B21-F022B	Atwood and Morrill Company	DWG.21049-H
1B21-F022C	Atwood and Morrill Company	DWG.21049-H
1B21-F022D	Atwood and Morrill Company	DWG.21049-H
1B21-F028A	Atwood and Morrill Company	DWG.21049-H
1B21-F028C	Atwood and Morrill Company	DWG.21049-H
1B31-F013A	Velan Valve Corporation	P1-0068-N-12
1B31-F013B	Velan Valve Corporation	P1-0068-N-12
1B31-F017A	Velan Valve Corporation	P1-0068-N-12
1B31-F017B	Velan Valve Corporation	P1-0068-N-12
1C51-J004A	General Electric	136B 1302
1C51-J004C	General Electric	136B 1302
1C51-J004D	General Electric	136B 1302
1E11-F004A	Walworth Company	5206
1E11-F007B	Walworth Company	5206
1E11-F011B	Walworth Company	5206
1E11-F015A	Crane Valve Company	LIST 900
1E11-F016B	The William Powell Company	FIG. 3051
1E11-F025B	J. E. Longergan Company	IX1 1/2 LCT-20
1E11-F028A	Walworth Company	5106
1E11-F028B	Walworth Company	5106
1E11-F097	J. E. Longergan Company	Model D-10L

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IDENTIFICATION OF EACH FAILED COMPONENT

<u>MPL NUMBER</u>	<u>MANUFACTURER</u>	<u>MODEL NUMBER</u>
1E21-F001A	The William Powell Company	1523-WE
1E21-F001B	The William Powell Company	1523-WE
1E21-F031A	Walworth Company	5206-WE
1E41-F002	Crane Valve Company	776-U
1E41-F003	Crane Valve Company	776-U
1E41-F008	William Powell Company	FIG.19051-WE
1E41-F021	Atwood and Morrill Company	DWG.21212-C
1E51-F104	Velan Valve Corporation	W7-2SHB-2TS
1E51-F040	The William Powell Company	FIG..1561A-WE
1G11-F019	Pacific Valves	153G-7WE.CC
1G31-F042	The William Powell Company	19051Y-WE
1P33-F014	Fisher Controls Company	657-ES
1P41-F050	Crane Valve Company	47 1/2 XUF
1P70-F020	Velan Valve Corporation	P1-0068-N-9
1T48-F103	Fisher Controls Company	FIG. 9200
1T48-F309	Fisher Controls Company	FIG. 9220
1T48-F311	Fisher Controls Company	FIG. 9200
1T48-F319	Fisher Controls Company	FIG. 9200
1T48-F320	Fisher Controls Company	FIG. 9200
1T48-F324	Fisher Controls Company	FIG. 9220
1T48-F326	Fisher Controls Company	FIG. 9200

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IDENTIFICATION OF EACH FAILED COMPONENT

<u>MPL NUMBER</u>	<u>MANUFACTURER</u>	<u>MODEL NUMBER</u>
1T48-F334B	Copes-Vulcan, Inc.	D100-60
1T48-F335A	Copes-Vulcan, Inc.	D100-60
1T48-F340	Target Rock Corporation	73K002
1T48-F341	Target Rock Corporation	73K002
X-201B	Pathway Bellows	P090

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

TABLE NUMBER 1

PRIMARY CONTAINMENT PERIODIC TYPE B & TYPE C LEAKAGE TESTS FAILURE SUMMARY

VALVE DESCRIPTION	AS FOUND LEAKAGE	AS LEFT LEAKAGE	REPAIR SUMMARY
1. Main steam line drain valve 1B21-F016 **	*	35 accm	Resurfaced and machined valve wedge.
2. Main steam line isolation valve 1B21-F022A ***	*	11 SCFH	Replaced valve's inner poppet.
3. Main steam line isolation valve 1B21-F022B **	*	10.5 SCFH	Machined and lapped inner poppet seats and outer poppet seats.
4. Main steam line isolation valve 1B21-F022C ***	*	3 SCFH	Ground and lapped poppet seats (inner, outer)
5. Main steam line isolation valve 1B21-F022D **	*	7.63 SCFH	Lapped poppet seats (inner and outer poppet)
6. Main steam line isolation valve 1B21-F028A ***	*	11 SCFH	Machined main poppet surfaces and lapped inner and outer poppet.
7. Main steam line isolation valve 1B21-F028C ***	*	3 SCFH	Machined main poppet seat. Lapped seats of inner and outer poppet.
8. Recirculation pump seal water containment isolation 1B31-F013A **	2200 accm	0 accm	Lapped valve piston and seat.

- * Would not pressurize
- ** Redundant isolation valve/barrier in penetration was operable.
- *** Both valves in penetration failed test.
- **** ASME test only.

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

TABLE NUMBER 1

PRIMARY CONTAINMENT PERIODIC TYPE B & TYPE C LEAKAGE TESTS FAILURE SUMMARY

VALVE DESCRIPTION	AS FOUND LEAKAGE	AS LEFT LEAKAGE	REPAIR SUMMARY
9. Recirculation pump seal water containment isolation valve 1B31-F013B **	2200 accm	0 accm	Lapped valve piston and seat.
10. Recirculation pump seal water containment isolation valve 1B31-F017A	218 accm	0 accm	Lapped valve piston and seal.
11. Recirculation pump seal water containment valve 1B31-F017B **	1100 accm	0 SCFH	Lapped valve piston and seat.
12. Tip drive inboard isolation valve 1C51-J004A **	2150 accm	0 accm	Replaced valve
13. Tip drive inboard isolation valve 1B21-J004C **	2200 accm	0 accm	Replaced valve
14. Tip drive inboard isolation valve 1C51-J004D **	65 accm	0 accm	Replaced valve
15. RHR pump suction torus Isolation 1E11-F004A **	1050 accm	327 accm	Replaced both valve seat rings machined wedge.

- * Would not pressurize
- ** Redundant isolation valve/barrier in penetration was operable.
- *** Both valves in penetration failed test.
- **** ASME test only.

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TABLE NUMBER 1

PRIMARY CONTAINMENT PERIODIC TYPE B & TYPE C LEAKAGE TESTS FAILURE SUMMARY

VALVE DESCRIPTION	AS FOUND LEAKAGE	AS LEFT LEAKAGE	REPAIR SUMMARY
16. RHR pump minimum flow torus isolation valve 1E11-F007B **	> 2200 accm	0 accm	Replaced bevel gear in valve operator
17. RHR condenser to torus discharge isolation valve 1E11-F011B ****	* accm	250 accm	Machined valve seats and valve wedge
18. LPCI outboard containment isolation valve 1E11-F015A ****	1000 accm	20 accm	Polished valve seats and valve wedge
19. RHR containment spray outboard isolation valve 1E11-F016B **	* accm	120 accm	Machined valve seat and disc
20. LPCI pressure relief valve 1E11-F025B **	50 accm	0 accm	Lapped valve disc and nozzle. Replaced valve stem
21. Suppression pool spray outboard isolation valve 1E11-F028A **	* accm	210 accm	Polished valve seats and replaced valve gate
22. RHR suppression pool spray outboard isolation valve 1E11-F028B **	> 2200 accm	200 accm	Polished valve seats and cleaned valve internals

- * Would not pressurize
- ** Redundant isolation valve/barrier in penetration was operable.
- *** Both valves in penetration failed test.
- **** ASME test only.

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TABLE NUMBER 1

PRIMARY CONTAINMENT PERIODIC TYPE B & TYPE C LEAKAGE TESTS FAILURE SUMMARY

VALVE DESCRIPTION	AS FOUND LEAKAGE	AS LEFT LEAKAGE	REPAIR SUMMARY
23. RHR steam supply relief valve 1E11-F097 **	> 200 accm	20 accm	Lapped feather and nozzle
24. Core spray pump torus suction outboard isolation valve 1E21-F001A **	*	110 accm	Line pressure caused by failure of 1E21-F019
25. Core spray pump torus suction outboard valve 1E21-F001B **	* accm	150 accm	Cleaned valve internals polished valve seat rings
26. Core spray pump minimum flow bypass valve 1E21-F031A **	> 2200 accm	20 accm	Polished valve seat rings
27. HPCI steam supply inboard isolation valve 1E41-F002	> 2200 accm	20 accm	Polished valve seats and valve wedge
28. HPCI steam supply outboard isolation valve 1E41-F003 ***	> 2200 accm	20 accm	Cleaned valve internals. Polished valve seats and wedge
29. HPCI test bypass to condensate storage valve 1E41-F008	* accm	30 accm	Cleaned valve internals
30. HPCI turbine exhaust inboard isolation valve 1E41-F021 **	* accm	940 accm	Ground and polished valve disc seats

- * Would not pressurize
- ** Redundant isolation valve/barrier in penetration was operable.
- *** Both valves in penetration failed test.
- **** ASME test only.

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TABLE NUMBER 1

PRIMARY CONTAINMENT PERIODIC TYPE B & TYPE C LEAKAGE TESTS FAILURE SUMMARY

VALVE DESCRIPTION	AS FOUND LEAKAGE	AS LEFT LEAKAGE	REPAIR SUMMARY
31. Torus isolation vacuum breaker 1E51-F104	570 accm	60 accm	Lapped valve disc and cleaned valve seats
32. RCIC turbine exhaust torus isolation valve 1E51-F040 **	*	130 accm	Replaced valve seat and polished valve body seat ring
33. Radwaste equipment drain containment isolation valve 1G11-F019 **	* accm	0 accm	Disassembled valve, removed debris and cleaned valve seat
34. RWCU return isolation valve 1G31-F042 ****	* accm	0 accm	Polished valve seat and valve disc
35. H ₂ O ₂ containment isolation valve 1P33-F014	* accm	0 accm	Cleaned valve internals and polished valve plug seat surfaces
36. Plant service water drywell return isolation valve 1P41-F050 **	700 accm	125 accm	Polished valve seats and machined seat surface of valve wedge
37. Drywell pneumatic containment isolation valve 1P70-F020	800 accm	0 accm	Removed and cleaned valve internals
38. Drywell and torus supply isolation valve 1T48-F103 **	> 4400 accm	625 accm	Replaced T-ring and inner valve body "O" ring

- * Would not pressurize
- ** Redundant isolation valve/barrier in penetration was operable.
- *** Both valves in penetration failed test.
- **** ASME test only.

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TABLE NUMBER 1

PRIMARY CONTAINMENT PERIODIC TYPE B & TYPE C LEAKAGE TESTS FAILURE SUMMARY

VALVE DESCRIPTION	AS FOUND LEAKAGE	AS LEFT LEAKAGE	REPAIR SUMMARY
39. Torus purge inlet inboard isolation valve 1T48-F309	> 4400 accm	625 accm	Removed and cleaned valve internals
40. Torus purge inlet outboard isolation valve 1T48-F311 **	> 2200 accm	20 accm	Installed new butterfly shaft seals
41. Drywell purge outlet inboard isolation valve 1T48-F319 **	* accm	24 accm	Replaced T-ring and valve "O" ring
42. Drywell purge outlet isolation valve H16024 1T48-F320 **	* accm	24 accm	Replaced shaft "O" rings and cleaned valve internals
43. Torus purge inlet outboard isolation valve 1T48-F324 **	> 4400 accm	625 accm	Replaced all "O" rings and T-ring. Cleaned valve internals
44. Torus purge outlet outboard isolation valve 1T48-F326 **	200 accm	0 accm	Replaced T-ring and O rings. Cleaned valve internals
45. Drywell purge outlet outboard isolation valve 1T48-F334B	205 accm	20 accm	Polished valve plug and cleaned valve internals
46. Drywell purge outlet inboard isolation valve 1T48-F335A **	160 accm	45 accm	Installed new shaft seat. Replaced valve cage and spacer

- * Would not pressurize
- ** Redundant isolation valve/barrier in penetration was operable.
- *** Both valves in penetration failed test.
- **** ASME test only.

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PRIMARY CONTAINMENT PERIODIC TYPE B & TYPE C LEAKAGE TESTS FAILURE SUMMARY

VALVE DESCRIPTION	AS FOUND LEAKAGE	AS LEFT LEAKAGE	REPAIR SUMMARY
47. Containment bypass outboard isolation valve 1T48-F340 ***	1100 accm	0 accm	Cleaned valve internals
48. Containment bypass inboard isolation valve 1T48-F341 ***	1100 accm	0 accm	Cleaned valve internals
49. Torus penetration X-201B **	* accm	0 accm	Rewelded test connection

- * Would not pressurize
- ** Redundant isolation valve/barrier in penetration was operable.
- *** Both valves in penetration failed test.
- **** ASME test only.

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TEXT (If more space is required, use additional NRC Form 355A's) (17)

IDENTIFICATION OF EACH FAILED COMPONENT

<u>MPL NUMBER</u>	<u>MANUFACTURER</u>	<u>MODEL NUMBER</u>
1B21-F016	Crane Valve Company	776U
1B21-F022A	Atwood and Morrill Company	DWG.21049-H
1B21-F022B	Atwood and Morrill Company	DWG.21049-H
1B21-F022C	Atwood and Morrill Company	DWG.21049-H
1B21-F022D	Atwood and Morrill Company	DWG.21049-H
1B21-F028C	Atwood and Morrill Company	DWG.21049-H
1B31-F013A	Velan Valve Corporation	P1-0068-N-12
1B31-F013B	Velan Valve Corporation	P1-0068-N-12
1B31-F017A	Velan Valve Corporation	P1-0068-N-12
1B31-F017B	Velan Valve Corporation	P1-0068-N-12
1C51-J004A	General Electric	136B 1302
1C51-J004C	General Electric	136B 1302
1C51-J004D	General Electric	136B 1302
1E11-F004A	Walworth Company	5206
1E11-F007B	Walworth Company	5206
1E11-F011B	Walworth Company	5206
1E11-F015A	Crane Valve Company	LIST 900
1E11-F016A	The William Powell Company	FIG. 3051
1E11-F025B	J. E. Longergan Company	IX1 1/2 LCT-20
1E11-F028A	Walworth Company	5106
1E11-F028B	Walworth Company	5106
1E11-F097	J. E. Longergan Company	Model D-10L

Georgia Power Company
Post Office Box 439
Baxley, Georgia 31513
Telephone 912 367-7781
912 537-9444



Georgia Power

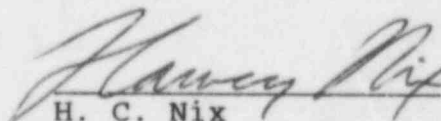
Edwin I. Hatch Nuclear Plant

February 6, 1985
GM-84-93

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. 50-321/1984-017, Rev. 1. This report is required by 10 CFR 50.73(a)(2)(v)(C) and 10CFR 50.73(a)(2)(ii).


H. C. Nix
General Manager

HCN/TLE/djs

xc: R. J. Kelly
R. E. Conway
J. T. Beckham, Jr.
P. D. Rice
K. M. Gillespie
S. B. Tipps
R. D. Baker
Control Room
Document Control

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