

REPORT OF THE 1985 INSERVICE INSPECTION

AT

BRUNSWICK STEAM ELECTRIC PLANT UNIT 1
SOUTHPORT, NC 28461-0429

CAROLINA POWER AND LIGHT COMPANY
RALEIGH, NORTH CAROLINA

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1.0 INTRODUCTION

- 1.1 THIS REPORT SUMMARIZES THE 1985 INSERVICE INSPECTION (ISI) PERFORMED AT CAROLINA POWER AND LIGHT COMPANY'S BRUNSWICK STEAM ELECTRIC PLANT (BSEP) UNIT 1. THIS INSPECTION CONSTITUTES THE FIFTH REGULARLY SCHEDULED ISI OUTAGE FOR UNIT 1 AND WAS PERFORMED IN THE THIRD FORTY MONTH PERIOD OF THE FIRST INTERVAL UNDER INSPECTION PROGRAM B AS DEFINED IN THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), BOILER AND PRESSURE VESSEL CODE, SECTION XI (DIVISION 1), EDITION 1977 THROUGH THE SUMMER 1978 ADDENDA.
- 1.2 THE FOLLOWING GENERAL EXAMINATION METHODS WERE UTILIZED TO PERFORM EXAMINATIONS ON THE FOLLOWING COMPONENTS.
 - 1.2.1 REACTOR PRESSURE VESSEL (RPV)
 - 1.2.1.1 MANUAL VOLUMETRIC AND/OR SURFACE TESTING (AS REQUIRED BY TABLE IWB-2500-1) OF CIRCUMFERENTIAL AND MERIDONAL HEAD WELDS (B-A), SHELL TO FLANGE AND HEAD TO FLANGE WELDS (B-A), NOZZLE TO VESSEL AND NOZZLE INNER RADIUS WELDS (B-D), NOZZLE TO SAFE END WELDS (B-F), VESSEL SUPPORTS (B-H), PRESSURE RETAINING BOLTING (B-G-1), AND CONTROL ROD DRIVE HOUSING WELDS (B-O).
 - 1.2.1.2 VISUAL EXAMINATION OF VESSEL INTERIOR (B-N-1), INTERIOR ATTACHMENTS AND CORE SUPPORT STRUCTURES (B-N-2), AND PARTIAL PENETRATION WELDS (B-E).
 - 1.2.2 PIPING, PUMP AND VALVE PRESSURE BOUNDARY AND THEIR SUPPORTS
 - 1.2.2.1 MANUAL VOLUMETRIC AND/OR SURFACE TESTING ON CLASS 1 (B-F, B-J), AND CLASS 2 (C-F) PIPING WELDS.
 - 1.2.2.2 SURFACE TESTING ON INTEGRAL ATTACHMENTS FOR CLASS 1 (B-K-1) AND CLASS 2 (C-E) PIPING AND PUMP SUPPORTS.
 - 1.2.2.3 VISUAL EXAMINATION OF CLASS 1 AND CLASS 2 PIPING SUPPORTS (B-K-2, C-E) AND VALVE BODY INTERNAL SURFACES (B-M-2).

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1.2.3 PLANT MODIFICATIONS ON CLASS 1, 2, AND 3 COMPONENTS
(NIS-2).

1.3 THE ABOVE EXAMINATIONS WERE PERFORMED WITH APPROVED NON-
DESTRUCTIVE EXAMINATION METHODS AND PROCEDURES IN ACCOR-
DANCE WITH SECTION XI OF THE ASME BOILER AND PRESSURE
VESSEL CODE, EDITION 1977 THROUGH THE SUMMER 1978 ADDENDA.

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2.0 SUMMARY OF CLASS I EXAMINATIONS

| CATEGORY | ITEM NO. | SYSTEM | SIZE | DESCRIPTION |
|----------|----------|--------|------|---|
| B-A | B1.21 | RPV | 231" | 1 CIRC. SEAM (TOP HEAD) |
| | B1.22 | | | 1 CIRC. SEAM (BOTTOM HEAD) 6 MERID. SEAMS (TOP HEAD) |
| | B1.30 | | | 6 MERID. SEAMS (BOTTOM HEAD) |
| | B1.40 | | | *1 CIRC. SEAM (PARTIAL) *1 CIRC. SEAM (TOP HEAD PARTIAL) |

*NOTE: FOR B1.30 AND B1.40 PARTIAL (COMPLETED 100% OF UNINSPECTED AREAS)

| | | | | |
|-------|--------|--------|---------|-------------------------------|
| B-D | B3.90 | RPV | 231" | 5 RPV TO NOZZLE WELDS |
| | B3.100 | | | 6 NOZZLE INNER RADII |
| B-E | B4.12 | RPV | 2" | VT-2 RPV DRAIN NOZZLE N-15 |
| | B4.13 | CRD | - | VT-2 CRD NOZZLES |
| | B4.14 | INSTR. | - | VT-2 INSTRUMENT NOZZLES |
| B-F | B5.10 | RPV | VARIOUS | 3 NOZZLE TO SAFE END |
| B-G-1 | B6.10 | RPV | - | **NUTS 23 THROUGH 64 |
| | B6.20 | | - | **STUDS 23 THROUGH 64 |
| | B6.30 | | - | STUDS 14, 15, 16, 17 & 18 |
| | B6.40 | | - | **LIGAMENTS 23 THROUGH 64 |

**NOTE: NUTS, STUDS AND LIGAMENTS 1 THROUGH 22 PREVIOUSLY EXAMINED

| | | | | |
|-----|-------|------------|------|--|
| B-H | B8.10 | RPV | 231" | SUPPORT SKIRT 4 SEISMIC LUGS (PARTIAL) |
| B-J | B9.11 | RPV (FW) | 12" | 4 NOZZLE TO TRANSITION PIECE |
| | | RPV | 6" | 3 NOZZLE TO FLANGE |
| | | RPV (VENT) | 4" | 1 B21-VENT-1 |
| | | MS | 24" | 12 CIRC. WELDS |
| | | | 6" | 2 CIRC. WELDS |
| | | FW | 18" | 6 CIRC. WELDS |
| | | | 12" | 5 CIRC. WELDS |

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| CATEGORY | ITEM NO. | SYSTEM | SIZE | DESCRIPTION | | |
|----------|--|--------|---------|----------------|--|--|
| (CONT'D) | | | | | | |
| B-J | B9.11 | RHR | 24" | 5 CIRC. WELDS | | |
| | | | 20" | 1 CIRC. WELD | | |
| | | | 4" | 7 CIRC. WELDS | | |
| | | HPCI | 14" | 3 CIRC. WELDS | | |
| | | | 10" | 3 CIRC. WELDS | | |
| | | | 10" | 10 CIRC. WELDS | | |
| | | CS | RCIC | 4" | 2 CIRC WELDS | |
| | | | | RR | 4" | 2 CIRC. WELDS |
| | | | | | B9.12 | MS |
| | | RR | MS | 28" | 4 LONG. WELDS | |
| | | | | 12" | 3 LONG. WELDS | |
| | | | | B9.21 | MS | 3" |
| | | RCIC | MS | 3" | 4 CIRC. WELDS | |
| | | | | B9.31 | MS | 24"X6" |
| | | B-K-1 | B9.32 | RPV | 2" | 2 CIRC. WELDS (INSTR) |
| SBLC | 1.5" | | | | 4 CIRC. WELDS | |
| | RR | | | 2" | 5 CIRC. WELDS (RPV DRAIN) | |
| FW | | | | B10.10 | 12" | 1 INTEGRAL ATTACHMENT (ALL LUGS) |
| | RR | | | | 28" | 4 INTEGRAL ATTACHMENTS (ALL LUGS/ATTACHMENTS) |
| | | | | | RHR | 24" |
| | CS | | | | 10" | 1 INTEGRAL ATTACHMENT (ALL LUGS/ATTACHMENTS) |
| | HPCI | | | | 10" | 1 INTEGRAL ATTACHMENT (ALL LUGS) |
| RR | B10.20 | | | - | 3 INTEGRAL ATTACHMENTS (RECIRC PUMP CASING) | |
| B-K-2 | B11.10 AND B11.20 AND B11.30 | | | RHR | VARIOUS | 38 SUPPORTS |
| | | RWCU | VARIOUS | 15 SUPPORTS | | |
| | | RCIC | VARIOUS | 19 SUPPORTS | | |
| | | CS | VARIOUS | 20 SUPPORTS | | |
| | | FW | VARIOUS | 49 SUPPORTS | | |
| | | SBLC | VARIOUS | 14 SUPPORTS | | |
| | | HPCI | VARIOUS | 14 SUPPORTS | | |
| | | MS | VARIOUS | 84 SUPPORTS | | |
| | | RR | VARIOUS | 38 SUPPORTS | | |
| | | JPI | VARIOUS | 2 SUPPORTS | | |
| B-M-2 | B12.40 | FW | 18" | 1 VALVE BODY | | |
| | | MS | 24" | 1 VALVE BODY | | |

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| CATEGORY | ITEM NO. | SYSTEM | SIZE | DESCRIPTION |
|----------|----------|---------|------|-------------------------|
| B-N-1 | B13.10 | RPV | NA | VESSEL INTERIOR |
| B-N-2 | B13.20 | RPV | NA | INTERIOR ATTACHMENTS |
| | B13.21 | RPV | NA | CORE SUPPORT STRUCTURES |
| B-O | B14.10 | CRD | NA | 2 CRD HOUSING WELDS |
| B-P | ALL | VARIOUS | NA | REFER TO SECTION 5.0 |

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3.0 SUMMARY OF CLASS 2 EXAMINATIONS

| CATEGORY | ITEM NO. | SYSTEM | SIZE | DESCRIPTION |
|---------------------------|----------|---------|-------------|--|
| C-A | C1.10 | RHR | 55" | 2 RHR HEAT EXCHANGER SHELL WELDS |
| | C1.20 | | | 1 RHR HEAT EXCHANGER HEAD WELD |
| C-B | C2.20 | RHR | 55" | 2 NOZZLE TO VESSEL (EXCLUDING NOZZLE INNER RADIUS) |
| C-C | C3.10 | RHR | 55" | 4 INTEGRAL ATTACHMENTS |
| C-E (EXEMPT, SEE NOTE) | C3.40 | FW | NA | 1 INTEGRAL ATTACHMENT |
| | | RHR | NA | 1 INTEGRAL ATTACHMENT |
| | C3.40 | RHR | VARIOUS | 17 INTEGRAL ATTACHMENTS |
| | | HPCI | VARIOUS | 4 INTEGRAL ATTACHMENTS |
| | | CS | VARIOUS | 2 INTEGRAL ATTACHMENTS |
| | C3.50 | MS | VARIOUS | 42 SUPPORTS |
| | AND | FW | VARIOUS | 27 SUPPORTS |
| | C3.60 | RHR | VARIOUS | 350 SUPPORTS |
| | | CS | VARIOUS | 52 SUPPORTS |
| | | CRD | VARIOUS | 29 SUPPORTS |
| | HPCI | VARIOUS | 74 SUPPORTS | |
| | RCIC | VARIOUS | 6 SUPPORTS | |

NOTE: ASME CODE INTERPRETATION RECEIVED DURING INSPECTION DEFINING APPLICABILITY OF "T" FOR STANCHIONS CAUSING RE-EVALUATION OF C-E C3.40 REQUIREMENTS

| | | | | | | |
|-----|-------|-----|---------------|---------------|-----|---------------|
| C-F | C5.11 | RHR | 20" | 6 CIRC. WELDS | | |
| | | | 16" | 4 CIRC. WELDS | | |
| | | | 14" | 1 CIRC. WELD | | |
| | | | 12" | 5 CIRC. WELDS | | |
| | | | 10" | 2 CIRC. WELDS | | |
| | | | 8" | 2 CIRC. WELDS | | |
| | | | 6" | 8 CIRC. WELDS | | |
| | | | | HPCI | 20" | 4 CIRC. WELDS |
| | | | | RCIC | 8" | 3 CIRC. WELDS |
| | | | | CS | 12" | 2 CIRC. WELDS |
| | | | | | 10" | 2 CIRC. WELDS |
| | | | C5.21 | HPCI | 14" | 5 CIRC. WELDS |
| | | | | | 10" | 4 CIRC. WELDS |
| | | | | MS | 24" | 2 CIRC. WELDS |
| | | 16" | 2 CIRC. WELDS | | | |
| | | 8" | 1 CIRC. WELD | | | |

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| CATEGORY | ITEM NO. | SYSTEM | SIZE | DESCRIPTION |
|----------|----------|---------|--------|----------------------|
| C-F | C5.21 | FW | 30" | 2 CIRC. WELDS |
| | | | 20" | 1 CIRC. WELD |
| | | | 18" | 3 CIRC. WELDS |
| | | | 16" | 3 CIRC. WELDS |
| | | | 8" | 1 CIRC. WELD |
| | | | NB | 10" |
| | C5.31 | MS | 24"x8" | 1 BRANCH CONNECTION |
| C-H | ALL | VARIOUS | NA | REFER TO SECTION 5.0 |

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4.0 SUMMARY OF AUGMENTED EXAMINATIONS

| AUGMENTED EXAM. | CATEGORY | ITEM NO. | SYSTEM | SIZE | DESCRIPTION |
|--|----------|----------|--------|------|--------------------------------------|
| POST-IHSI UT FOR IGSCC (GENERIC LETTER 84-11) | B-J | 89.11 | RR | 28" | 31 CIRC. WELDS |
| | | | | 22" | 10 CIRC. WELDS |
| | | | RHR | 12" | 34 CIRC. WELDS |
| | | | | 24" | 2 CIRC. WELDS |
| | | | | 20" | 2 CIRC. WELDS |
| OVERLAY EXAMS (GENERIC LETTER 84-11) | B-J | 89.11 | RR | 28" | 3 OVERLAYS |
| | | | | 12" | 2 OVERLAYS |
| INCONEL BUTTER (IEN 84-41) | B-F | 85.10 | RR | 28" | 1 CIRC. WELD |
| | | | | 12" | 9 CIRC. WELDS |
| | | | JPI | 4" | 1 CIRC. WELD |
| JET PUMP BEAMS (IEB 80-07) | B-N-1 | B13.10 | RPV | NA | 10 JET PUMP BEAMS (UT) |
| RR SAFE ENDS (NUREG 0313) | NA | NA | RR | 12" | 10 SAFE ENDS |
| JET PUMP SENSING LINE AND BRACKETS (GE SIL 420) | B-N-1 | B13.10 | RPV | | ALL ACCESSIBLE LINES AND BRACKETS |

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5.0 SUMMARY OF PRESSURE TESTING

5.1 CLASS 1

A SYSTEM HYDROSTATIC TEST WAS PERFORMED ON THE REACTOR COOLANT PRESSURE BOUNDARY (RCPB) CLASS 1 COMPONENTS. THIS EXAM SERVED TO PRESERVICE TEST ALL COMPONENTS MODIFIED BY PLANT MODIFICATIONS.

5.2 CLASS 2

5.2.1 THE FOLLOWING CLASS 2 SYSTEMS HAD A TEN YEAR HYDROSTATIC TEST PERFORMED:

- A. DRYWELL DRAINS
- B. CONTROL ROD DRIVE HYDRAULIC SYSTEM (CRD)
- C. CONTROL ROD DRIVE ACCUMULATORS (CRD)
- D. FEEDWATER SYSTEM (FW)
- E. MAIN STEAM SYSTEM (MS)

5.2.2 QUARTERLY FUNCTIONAL TESTING WAS PERFORMED ON THE FOLLOWING SYSTEMS (OR PORTIONS THEREOF)

- A. RESIDUAL HEAT REMOVAL SYSTEM (RHR)
- B. CORE SPRAY SYSTEM (CS)
- C. HIGH PRESSURE COOLANT INJECTION SYSTEM (HPCI)
- D. REACTOR CORE ISOLATION COOLING SYSTEM (RCIC)
- E. STANDBY LIQUID CONTROL SYSTEM (SBLC)
- F. REACTOR WATER CLEAN-UP SYSTEM (RWCU)

5.2.3 A SYSTEM PNEUMATIC TEST WAS PERFORMED FOR THE EIGHTEEN MONTH REQUIREMENT ON THE STANDBY GAS TREATMENT SYSTEM (SBGT).

5.3 CLASS 3

5.3.1 A SYSTEM HYDROSTATIC TEST WAS PERFORMED ON THE CLASS 3 PORTION OF THE HPCI SYSTEM. ALSO, A SYSTEM HYDROSTATIC TEST WAS PERFORMED ON THE CLASS 3 REACTOR BUILDING CLOSED COOLING WATER SYSTEM. THESE HYDROSTATIC TESTS ARE FOR THE TEN YEAR INTERVAL REQUIREMENT.

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5.3.2 SYSTEM FUNCTIONAL TESTS WERE PERFORMED FOR THE FORTY
MONTH REQUIREMENT ON THE FOLLOWING SYSTEMS:

- A. FUEL POOL COOLING (FPC)
- B. TORUS KEEP FILL
- C. CONTAINMENT ATMOSPHERIC DILUTION (CAD)

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6.0 ABSTRACT OF CONDITIONS NOTED AND CORRECTIVE ACTION TAKEN

6.1 CLASS 1 COMPONENTS

- 6.1.1 INDICATIONS WERE NOTED DURING THE ULTRASONIC EXAMINATION OF THE REACTOR PRESSURE VESSEL HEAD AND FLANGE WELDS. ALL INDICATIONS WERE ACCEPTABLE IN ACCORDANCE WITH IWB-3000 OF SECTION XI. NO CORRECTIVE ACTION REQUIRED.
- 6.1.2 A LINEAR INDICATION WAS REVEALED ON RPV STUD 18 DURING A FLUORESCENT MAGNETIC PARTICLE EXAMINATION. A PENETRANT EXAMINATION WAS CONDUCTED IN THE SAME AREA OF THE INDICATION AND RESULTED IN "NO REPORTABLE INDICATION." THE LINEAR INDICATION WAS DETERMINED TO BE A NONRELEVANT SURFACE ANOMOLY BASED ON THE PENETRANT EXAMINATION RESULTS. CONDITION WAS ACCEPTED AS IS BY CP&L.
- 6.1.3 A LINEAR BASE METAL INDICATION WAS DISCOVERED DURING A MAGNETIC PARTICLE EXAMINATION OF WELD 1E21CS-10"-B4 (CORE SPRAY DISCHARGE B LOOP). THE INDICATION WAS EVALUATED AS AN ACCEPTABLE MANUFACTURING DEFECT (LESS THAN FIVE PERCENT THRU WALL) AFTER REMOVAL BY ADDITIONAL SURFACE PREPARATION. INDICATION REMOVAL WAS VERIFIED BY A FOLLOW UP MAGNETIC PARTICLE EXAMINATION.
- 6.1.4 TWO ROUNDED LIQUID PENETRANT INDICATIONS WERE REVEALED DURING EXAMINATION OF WELD 1E51RCIC-3"-6. THE INDICATIONS WERE EVALUATED AS A SINGLE INDICATION (DUE TO THEIR CLOSE PROXIMITY), WHICH DID NOT EXCEED THE INDICATION SIZE ALLOWED BY TABLE IWB-3514-2. NO CORRECTIVE ACTION REQUIRED.
- 6.1.5 DURING A DIRECT VISUAL EXAMINATION OF THE FEEDWATER SPARGERS, SEVERAL SMALL CRACKS WERE DETECTED EMANATING FROM THE SPARGER FLOW HOLES. A FRACTURE MECHANICS EVALUATION BY GENERAL ELECTRIC DETERMINED THESE INDICATIONS TO BE ACCEPTABLE AS IS FOR ANOTHER OPERATING CYCLE. CP&L WILL CONTINUE TO MONITOR THE EXISTING INDICATIONS DURING THE NEXT REFUELING OUTAGE FOR ANY DETRIMENTAL CHANGES IN LENGTH OR CONFIGURATION. NO CORRECTIVE ACTION REQUIRED AT THIS TIME.

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6.1.6 FOLLOWING THE INDUCTION HEAT IMPROVEMENT PROGRAM FOR IGSCC, AXIAL AND/OR CIRCUMFERENTIAL INDICATIONS WERE DETECTED BY LEAKAGE AND/OR ULTRASONIC TESTING. THE FOLLOWING WELDS WERE IDENTIFIED TO CONTAIN IGSCC (NOT PREVIOUSLY IDENTIFIED):

1. 1B32RECIRC-12"-AR-A2
2. 1B32RECIRC-12"-AR-A3
3. 1B32RECIRC-12"-AR-B3
4. 1B32RECIRC-12"-AR-C2
5. 1B32RECIRC-12"-AR-C3
6. 1B32RECIRC-12"-AR-D2
7. 1B32RECIRC-12"-AR-D3
8. 1B32RECIRC-12"-AR-D4
9. 1B32RECIRC-12"-AR-E3
10. 1B32RECIRC-12"-BR-F2
11. 1B32RECIRC-12"-BR-G2
12. 1B32RECIRC-12"-BR-G3
13. 1B32RECIRC-12"-BR-G4
14. 1B32RECIRC-12"-BR-H2
15. 1B32RECIRC-12"-BR-H3
16. 1B32RECIRC-12"-BR-J2
17. 1B32RECIRC-12"-BR-J3
18. 1B32RECIRC-12"-BR-K2
19. 1B32RECIRC-12"-BR-K3
20. 1B32RECIRC-12"-BR-K4
21. 1B32RECIRC-28"-A4
22. 1B32RECIRC-28"-B4
23. 1B32RECIRC-4"-A10

ALL WELDS CONTAINING IGSCC WERE OVERLAID AS A CORRECTIVE MEASURE. THE NUCLEAR REGULATORY COMMISSION WAS INFORMED, INDEPENDENT OF THIS REPORT, OF EACH CASE LISTED ABOVE. ALL OVERLAYS RECEIVED VOLUMETRIC, SURFACE, AND HYDROSTATIC TESTING PRIOR TO RETURN OF THE UNIT TO SERVICE.

6.1.7 FIVE PREVIOUSLY OVERLAID WELDS (CONTAINING IGSCC) HAD SURFACE RECONDITIONING PERFORMED TO IMPROVE ULTRASONIC TESTING. ADDITIONAL WELD METAL WAS ADDED TO THE EXISTING OVERLAYS TO PRODUCE A SMOOTHER SURFACE. THE FOLLOWING OVERLAID WELDS WERE RECONDITIONED:

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- 6.1.7 1. 1B32RECIRC-28"-A14
2. 1B32RECIRC-28"-A15
3. 1B32RECIRC-28"-B8
4. 1B32RECIRC-12"-BR-H4
5. 1B32RECIRC-12"-AR-E2

VOLUMETRIC, SURFACE AND HYDROSTATIC TESTING WAS PERFORMED AFTER THE OVERLAYS WERE RECONDITIONED AND WERE FOUND ACCEPTABLE (WITH EXCEPTION NOTED BELOW IN 6.1.8). NO FURTHER CORRECTIVE ACTION REQUIRED AT THIS TIME.

- 6.1.8 DURING A LIQUID PENETRANT EXAMINATION OF THE OVERLAY FOR WELD 1B32RECIRC-28"-A14, LINEAR INDICATIONS WERE DISCOVERED ON VALVE 1B32-F031A ADJACENT TO THE EDGE OF WELD OVERLAY. THE INDICATIONS WERE EVALUATED TO BE TEARS ASSOCIATED WITH STRESSES FROM THE WELDING AND THERMAL STRESSES ON A CASTING SURFACE. THE INDICATIONS WERE REMOVED BY GRINDING AND REMOVAL WAS VERIFIED BY LIQUID PENETRANT EXAMINATION PRIOR TO REPAIR WELDING. A FINAL LIQUID PENETRANT EXAMINATION WAS PERFORMED ON THE WELD REPAIR AREA AND NO REPORTABLE INDICATIONS WERE NOTED. NO FURTHER CORRECTIVE ACTION REQUIRED.
- 6.1.9 WELD 1B32RECIRC-28"-B12 WAS REPORTED PREVIOUSLY AS CONTAINING IGSCC. DURING THE ULTRASONIC TESTING PERFORMED TO SIZE THE INDICATION, IT WAS DETERMINED THAT WELD GEOMETRY HAD BEEN INCORRECTLY IDENTIFIED AS IGSCC. THE DETERMINATION WAS MADE BY EPRI QUALIFIED PERSONNEL. AN INDEPENDENT THIRD PARTY EPRI QUALIFIED VENDOR CONFIRMED THIS DETERMINATION.
- 6.1.10 DURING THE COMPONENT SUPPORT EXAMINATIONS, VARIOUS SUPPORTS WERE IDENTIFIED AS REQUIRING MAINTENANCE FOR SUCH ITEMS AS LOOSE OR MISSING LOCKNUTS, COTTER PINS NOT CORRECTLY BENT, ETC. THESE CONDITIONS WERE DOCUMENTED AND CORRECTED BY TROUBLE TICKETS. THE CORRECTED CONDITIONS WERE VERIFIED BY VISUAL RE-EXAMINATION. NO FURTHER CORRECTIVE ACTION REQUIRED.
- 6.1.11 DURING THE PERFORMANCE OF THE CLASS 1 HYDROSTATIC PRESSURE TEST, LEAKAGE WAS OBSERVED FROM VARIOUS MECHANICAL COMPONENTS, I.E., VALVE PACKING, SEALS, FLANGED CONNECTIONS, ETC. EACH LEAKING COMPONENT WAS DOCUMENTED AND A TROUBLE TICKET WAS WRITTEN FOR EACH LEAK IDENTIFIED. AFTER THE NECESSARY REPAIRS WERE COMPLETED, THE RE-

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6.1.11 PAIRED AREAS WERE RE-EXAMINED DURING THE INSERVICE PRESSURE TEST (PT-80.2) REQUIRED PRIOR TO THE UNIT'S RETURN TO SERVICE. NO FURTHER CORRETIVE ACTION WAS REQUIRED.

6.2 CLASS 2 COMPONENTS

6.2.1 DURING MAGNETIC PARTICLE EXAMINATION (MT) OF WELD 1-MS37-4-SWC TWO LINEAR INDICATIONS (1 BASE METAL, 1 WELD METAL) WERE DETECTED. BOTH INDICATIONS WERE REMOVED AFTER ADDITIONAL WELD CONDITIONING. THE AREAS OF REMOVAL WERE RE-EXAMINED BY MT WITH NO REPORTABLE INDICATIONS FOUND. NO FURTHER CORRECTIVE ACTION REQUIRED.

6.2.2 A LIQUID PENETRANT EXAMINATION OF PIPE TO STANCHION WELD 1E15-4-FW9FS394 REVEALED AN INDICATION EXCEEDING THE CODE ALLOWABLE SIZE. THE INDICATION WAS REMOVED BY GRINDING AND WELD REPAIR WAS NECESSARY. A FINAL PENETRANT EXAM REVEALED NO REPORTABLE INDICATIONS. NO FURTHER CORRECTIVE ACTION REQUIRED.

6.2.3 DURING PERFORMANCE OF THE CLASS 2 HYDROSTATIC PRESSURE TESTING, LEAKAGE WAS OBSERVED FROM VARIOUS MECHANICAL SOURCES, I.E., FLANGED CONNECTIONS, VALVE PACKING, ETC. EACH LEAKING COMPONENT WAS DOCUMENTED VIA TROUBLE TICKET AND REPAIRED AS NECESSARY. NO FURTHER CORRECTIVE ACTION REQUIRED.

6.2.4 TWO COMPONENT SUPPORTS ON THE HPCI SYSTEM WERE VISUALLY IDENTIFIED AS DAMAGED AS FOLLOWS:

1E4160PG55 - SEVERELY BENT
1E4160PG57 - SUPPORT SHEARED

BOTH SUPPORTS ARE IN CLOSE PROXIMITY TO EACH OTHER ON LINE 60-14-904 (HPCI INJECTION LINE TO FW). AN EVALUATION WAS PERFORMED, INCLUDING REVIEW OF THE OPERATING HISTORY OF THE HPCI SYSTEM. THE CONDITION FOUND WAS NOT ATTRIBUTED TO AN OPERATING TRANSIENT WITHIN THE SYSTEM. THE SUPPORTS WERE REPLACED AND VISUALLY RE-EXAMINED AND FOUND TO BE ACCEPTABLE PRIOR TO THE SYSTEM'S RETURN TO SERVICE. THE DAMAGED SUPPORTS WERE SENT TO CP&L'S HARRIS SITE FOR EVALUATION. NO FURTHER CORRECTIVE ACTION REQUIRED AT THIS TIME.

CAROLINA POWER AND LIGHT COMPANY, RALEIGH, NC
BRUNSWICK STEAM ELECTRIC PLANT, UNIT 1 SOUTHPORT, NC
COMMERCIAL DATE MARCH 17, 1977

- 6.2.5 VISUAL EXAMINATION OF COMPONENT SUPPORT 1FW8FH32 REVEALED THAT THE SUPPORTING BOLT WAS BENT. THE PROBLEM WAS ATTRIBUTED TO A HYDRAULIC TRANSIENT. THE BENT BOLT WAS REPLACED. ADDITIONAL NDE ON THE SUPPORT AND EXAMINATION OF ADJACENT SUPPORTS REVEALED NO ADDITIONAL INDICATIONS. THESE ARE CURRENTLY SCHEDULED FOR EXAMINATION EACH COLD SHUTDOWN TO DETERMINE POSSIBLE REOCCURENCE. NO FURTHER CORRECTIVE ACTION REQUIRED.
- 6.2.6 DURING A VISUAL EXAMINATION OF SUPPORTS 1E11109PG162 AND 1E1112PG159 SHEARED BOLTING WAS REPORTED. THE BOLTS THAT SERVE AS SUPPORT POINTS FOR THESE PIPE GUIDES WERE SHEARED DURING A SYSTEM TRANSIENT. THE DEFECTIVE BOLTS WERE REPLACED AND VISUAL RE-EXAMINATIONS WERE PERFORMED AND FOUND ACCEPTABLE. NO FURTHER CORRECTIVE ACTION REQUIRED.

CAROLINA POWER AND LIGHT COMPANY, RALEIGH, NC
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7.0 INSPECTION CHECKLISTS

| INSPECTION CHECKLIST NUMBER | PAGE |
|-----------------------------|-------------------|
| 1-RPV-1 THROUGH 7 | 7-2 THROUGH 7-8 |
| 1-STUD-1 THROUGH 4 | 7-9 THROUGH 7-12 |
| 1-LIG-1 THROUGH 3 | 7-13 THROUGH 7-15 |
| 1-NUT-1 THROUGH 3 | 7-16 THROUGH 7-18 |
| 1-INTERNAL-1 | 7-19 |
| 1-MS-1 THROUGH 5 | 7-20 THROUGH 7-24 |
| 1-FW-1 THROUGH 4 | 7-25 THROUGH 7-28 |
| 1-RR-1 THROUGH 2 | 7-29 THROUGH 7-30 |
| 1-RHR-1 THROUGH 4 | 7-31 THROUGH 7-34 |
| 1-HX-1 | 7-35 |
| 1-CS-1 THROUGH 3 | 7-36 THROUGH 7-38 |
| 1-HPCI-1 THROUGH 3 | 7-39 THROUGH 7-41 |
| 1-RCIC-1 THROUGH 2 | 7-42 THROUGH 7-43 |
| 1-SBLC-1 | 7-44 |
| 1-NB-1 | 7-45 |
| 1-INSTR-1 | 7-46 |
| 1-INTEGRAL-1 THROUGH 3 | 7-47 THROUGH 7-49 |
| 1-AUG-1 THROUGH 4 | 7-50 THROUGH 7-53 |
| 1-AUG-IHSI-1 THROUGH 6 | 7-54 THROUGH 7-59 |
| 1-SMPL. EXP.-1 | 7-60 |

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 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RPV
 CATEGORY: B-A

IC NO. 1-RPV-1
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|-------------------|-------|-----------|------------|-----------|-----------|----------|
| CLOSURE HEAD B | PL-PL | A-2 | UT | 45-B | 5-22-85 | |
| AA | LS | A-2 | UT | 45-B | 5-23-85 | |
| AB | LS | A-2 | UT | 45-B | 5-23-85 | |
| AC | LS | A-2 | UT | 45-B | 5-23-85 | |
| AD | LS | A-2 | UT | 45-B | 5-24-85 | |
| AE | LS | A-2 | UT | 45-B | 5-24-85 | |
| AF | LS | A-2 | UT | 45-B | 5-24-85 | |
| C | PL-F | A-2 | UT | 45-B | 5-22-85 | |
| BOTTOM HEAD G1 | LS | A-2 | UT | 45-B | 5-29-85 | |
| G2 | LS | A-2 | UT | 45-B | 5-29-85 | |
| G3 | LS | A-2 | UT | 45-B | 5-30-85 | |
| G4 | LS | A-2 | UT | 45-B | 5-30-85 | |
| G5 | LS | A-2 | UT | 45-B | 5-30-85 | |
| G6 | LS | A-2 | UT | 45-B | 5-30-85 | |
| H | PL-SH | A-2 | UT | 45-B | 5-04-85 | |

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 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RPV
 CATEGORY: B-A

IC NO. 1-RPV-2
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|------|-----------|------------|-----------|-----------|----------|
| RPV F | SH-F | A-1 | UT | 47-B | 5-07-85 | |
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 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RPV
 CATEGORY: B-D

IC NO. 1-RPV-3
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|--------------------|------|-----------|------------|-----------|-----------|----------|
| RPV N16A | N-V | A-1 | UT | 47-B | 5-08-85 | |
| N16A | NIR | A-1 | UT | 78-B | 5-07-85 | |
| N16B | N-V | A-1 | UT | 47-B | 5-08-85 | |
| N16B | NIR | A-1 | UT | 78-B | 5-07-85 | |
| BOTTOM HEAD N10 | N-V | A-2 | UT | 47-B | 5-09-85 | |
| N10 | NIR | A-2 | UT | 78-B | 5-10-85 | |
| TOP HEAD N6A | N-V | A-2 | UT | 45-B | 5-24-85 | |
| N6A | NIR | A-2 | UT | 78-B | 5-25-85 | |
| N6B | N-V | A-2 | UT | 45-B | 5-25-85 | |
| N6B | NIR | A-2 | UT | 78-B | 5-25-85 | |
| N7 | NIR | A-2 | UT | 78-B | 5-25-85 | |

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UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RPV
CATEGORY: B-F

IC NO. 1-RPV-4
REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|------|-----------|------------|-----------|-----------|----------|
| N16A-SE | N-SE | A-1 | PT | NA | 5-11-85 | |
| N16B-SE | N-SE | A-1 | PT | NA | 5-11-85 | |
| N10-SE | N-SE | A-2 | PT | NA | 5-14-85 | |
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CAROLINA POWER & LIGHT COMPANY
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 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RPV
 CATEGORY: B-J

IC NO. 1-RPV-4
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|------|-----------|------------|-----------|-----------|----------|
| N6A-1 | N-F | A-2 | MT | NA | 4-26-85 | |
| | | | UT | 34-B | 5-24-85 | |
| N6B-1 | N-F | A-2 | MT | NA | 4-26-85 | |
| | | | UT | 34-B | 5-24-85 | |
| B21-VENT-1 | F-P | A-2 | MT | NA | 5-23-85 | |
| N7-1 | N-F | A-2 | MT | NA | 5-16-85 | |
| | | | UT | 35-B | 5-25-85 | |
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CAROLINA POWER & LIGHT COMPANY
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 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RPV
 CATEGORY: B-H

IC NO. 1-RPV-6
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|-------------------|---------|-----------|------------|-----------|-----------|----------|
| SUPPORT SKIRT | V-SKIRT | A-2 | MT | NA | 4-23-85 | |
| SEISMIC LUG @ 45 | V-LUG | A-1 | PT | NA | 5-14-85 | |
| SEISMIC LUG @ 135 | V-LUG | A-1 | PT | NA | 5-14-85 | |
| SEISMIC LUG @ 225 | V-LUG | A-1 | PT | NA | 5-14-85 | |
| SEISMIC LUG @ 315 | V-LUG | A-1 | PT | NA | 5-04-85 | |
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CAROLINA POWER & LIGHT COMPANY
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BRUNSWICK STEAM ELECTRIC PLANT
SOUTHPORT, NC 28461
UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RPV
CATEGORY: B-0

IC NO. 1-RPV-7
REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|-------------|-----------|------------|-----------|-----------|----------|
| 22-8 | CRD HOUSING | A-63 | PT | NA | 6-11-85 | |
| 22-7 | CRD HOUSING | A-63 | PT | NA | 6-11-85 | |
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CAROLINA POWER & LIGHT COMPANY
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 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RPV
 CATEGORY: B-G-1

IC NO. 1-STUD-1
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|------|-----------|------------|-----------|-----------|----------|
| * RPV-STUD-23 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-24 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-25 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-26 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-27 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-28 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-29 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-30 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-31 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-32 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-33 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-34 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-35 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-36 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-37 | STUD | A-2 | UT | 27-B | 4-16-85 | |

* STUDS 1-22 DONE PREVIOUSLY (UT ONLY) 7-9

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 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RPV
 CATEGORY: B-G-1

IC NO. 1-STUD-2
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|------|-----------|------------|-----------|-----------|----------|
| RPV-STUD-38 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-39 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-40 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-41 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-42 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-43 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-44 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-45 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-46 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-47 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-48 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-49 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-50 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-51 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-52 | STUD | A-2 | UT | 27-B | 4-16-85 | |

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 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RPV
 CATEGORY: B-G-1

IC NO. 1-STUD-3
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|------|-----------|------------|-----------|-----------|----------|
| RPV-STUD-53 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-54 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-55 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-56 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-57 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-58 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-59 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-60 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-61 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-62 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-63 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| RPV-STUD-64 | STUD | A-2 | UT | 27-B | 4-16-85 | |
| * RPV-STUD-14 | STUD | A-2 | MT | NA | 6-01-85 | |
| * RPV-STUD-15 | STUD | A-2 | MT | NA | 6-01-85 | |
| * RPV-STUD-16 | STUD | A-2 | MT | NA | 6-01-85 | |

* STUDS 1-22 DONE PREVIOUSLY (UT ONLY) 7-11

CAROLINA POWER & LIGHT COMPANY
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BRUNSWICK STEAM ELECTRIC PLANT
SOUTHPORT, NC 28461
UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RPV
CATEGORY: B-G-1

IC NO. 1-STUD-4
REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|------|-----------|------------|-----------|-----------|----------|
| * RPV-STUD-17 | STUD | A-2 | MT | NA | 6-01-85 | |
| * RPV-STUD-18 | STUD | A-2 | MT | NA | 6-01-85 | |
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* STUDS 1-22 DONE PREVIOUSLY (UT ONLY)

CAROLINA POWER & LIGHT COMPANY
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 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RPV
 CATEGORY: B-G-1

IC NO. 1-LIG-1
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|------|-----------|------------|-----------|-----------|----------|
| * RPV-LIG-22-23 | LIG | A-2 | UT | 27-B | 4-15-84 | |
| RPV-LIG-23-24 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-24-25 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-25-26 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-26-27 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-27-28 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-28-29 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-29-30 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-30-31 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-31-32 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-32-33 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-33-34 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-34-35 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-35-36 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-36-37 | LIG | A-2 | UT | 27-B | 4-15-85 | |

* LIGAMENTS 1-2 THROUGH 21-22 DONE PREVIOUSLY 7-13

CAROLINA POWER & LIGHT COMPANY
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 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RPV
 CATEGORY: B-G-1

IC NO. 1-LIG-2
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|------|-----------|------------|-----------|-----------|----------|
| RPV-LIG-37-38 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-38-39 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-39-40 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-40-41 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-41-42 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-42-43 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-43-44 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-44-45 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-45-46 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-46-47 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-47-48 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-48-49 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-49-50 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-50-51 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-51-52 | LIG | A-2 | UT | 27-B | 4-15-85 | |

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SYSTEM: RPV
 CATEGORY: B-G-1

IC NO. 1-LIG-3
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|------|-----------|------------|-----------|-----------|----------|
| RPV-LIG-52-53 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-53-54 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-54-55 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-55-56 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-56-57 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-57-58 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-58-59 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-59-60 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-60-61 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-61-62 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-62-63 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-63-64 | LIG | A-2 | UT | 27-B | 4-15-85 | |
| RPV-LIG-64-1 | LIG | A-2 | UT | 27-B | 4-15-85 | |

CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RPV
 CATEGORY: B-G-1

IC NO. 1-NUT-1
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|------|-----------|------------|-----------|-----------|----------|
| * RPV-NUT-23 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-24 | NUT | A-2 | MT | NA | 6-01-85 | |
| RPV-NUT-25 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-26 | NUT | A-2 | MT | NA | 6-01-85 | |
| RPV-NUT-27 | NUT | A-2 | MT | NA | 6-01-85 | |
| RPV-NUT-28 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-29 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-30 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-31 | NUT | A-2 | MT | NA | 6-01-85 | |
| RPV-NUT-32 | NUT | A-2 | MT | NA | 6-01-85 | |
| RPV-NUT-33 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-34 | NUT | A-2 | MT | NA | 6-01-85 | |
| RPV-NUT-35 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-36 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-37 | NUT | A-2 | MT | NA | 6-02-85 | |

* NUTS 1 THROUGH 22 DONE PREVIOUSLY 7-16

CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RPV
 CATEGORY: B-G-1

IC NO. 1-NUT-2
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|------|-----------|------------|-----------|-----------|----------|
| RPV-NUT-38 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-39 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-40 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-41 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-42 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-43 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-44 | NUT | A-2 | MT | NA | 6-01-85 | |
| RPV-NUT-45 | NUT | A-2 | MT | NA | 6-01-85 | |
| RPV-NUT-46 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-47 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-48 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-49 | NUT | A-2 | MT | NA | 6-01-85 | |
| RPV-NUT-50 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-51 | NUT | A-2 | MT | NA | 6-01-85 | |
| RPV-NUT-52 | NUT | A-2 | MT | NA | 6-01-85 | |

CAROLINA POWER & LIGHT COMPANY
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 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RPV
 CATEGORY: B-G-1

IC NO. 1-NUT-3
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|------|-----------|------------|-----------|-----------|----------|
| RPV-NUT-53 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-54 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-55 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-56 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-57 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-58 | NUT | A-2 | MT | NA | 6-01-85 | |
| RPV-NUT-59 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-60 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-61 | NUT | A-2 | MT | NA | 6-02-85 | |
| RPV-NUT-62 | NUT | A-2 | MT | NA | 6-01-85 | |
| RPV-NUT-63 | NUT | A-2 | MT | NA | 6-01-85 | |
| RPV-NUT-64 | NUT | A-2 | MT | NA | 6-01-85 | |

CAROLINA POWER & LIGHT COMPANY
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SYSTEM: RPV - INTERNALS
 CATEGORY: B-N-1, B-N-2

IC NO. 1-INTERNALS-1
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTO | EXAM DATE | COMMENTS |
|--------------------|---------|-----------|---------------|--------------|--------------|----------|
| CORE SPRAY SPARGER | SPARGER | NA | VT | NA | 6-20-85 | |
| RPV INTERNALS | ALL | NA | VT | NA | 6-27-85 | |
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CAROLINA POWER & LIGHT COMPANY
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 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: MS (B21)
 CATEGORY: B-J

IC NO. 1-MS-1
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|-----------------------|-------------|-----------|------------|-----------|-----------|----------|
| 1-B21-PS-24-A-12 | 24" P-E | A-3 | MT | NA | 4-06-85 | |
| | | | UT | 19-B | 4-17-85 | |
| 1-B21-PS-24-A-13 | 24" E-P | A-3 | PT | NA | 4-17-85 | |
| | | | UT | 19-B | 4-17-85 | |
| 1-B21-PS-24-A-18 | 24" FH-P | A-3 | MT | NA | 4-09-85 | |
| | | | UT | 19-B | 4-13-85 | |
| 1-B21-PS-24-A-12-LD-1 | 24" IALS | A-3 | MT | NA | 4-06-85 | |
| | | | UT | 19-B | 4-17-85 | |
| 1-B21-PS-24-A-12-LD-0 | 24" OALS | A-3 | MT | NA | 4-06-85 | |
| | | | UT | 19-B | 4-17-85 | |
| 1-B21-PS-24-A-13-LU-1 | 24" IALS | A-3 | MT | NA | 4-17-85 | |
| | | | UT | 19-B | 4-17-85 | |
| 1-B21-PS-24-A-13-LU-0 | 24" OALS | A-3 | MT | NA | 4-06-85 | |
| | | | UT | 19-B | 4-17-85 | |
| 1-B21-PS-24-D-10 | 24" P-E | A-9 | MT | NA | 4-25-85 | |

CAROLINA POWER & LIGHT COMPANY
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 BRUNSWICK STEAM ELECTRIC PLANT
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 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: MS (B21)
 CATEGORY: B-J

IC NO. 1-MS-2
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|-----------------------|-----------------|-----------|------------|-----------|-----------|----------|
| 1-B21-PS-24-D-10 | 24" P-E | A-9 | UT | 19-B | 5-02-85 | |
| 1-B21-PS-24-B-17 | 24" FH-P | A-5 | MT | NA | 4-09-85 | |
| | | | UT | 19-B | 4-13-85 | |
| 1-B21-PS-24-B-18 | 24" P-V | A-5 | MT | NA | 4-09-85 | |
| | | | UT | 19-B | 4-12-85 | |
| 1-B21-PS-24-D-10-LU-1 | 24" IALS | A-9 | MT | NA | 4-25-85 | |
| | | | UT | 19-B | 5-02-85 | |
| 1-B21-PS-24-D-10-LU-0 | 24" OALS | A-9 | MT | NA | 4-25-85 | |
| | | | UT | 19-B | 5-02-85 | |
| 1-B21-PS-24-B-8-BC-A | 24"X6" P-SWP | A-5 | MT | NA | 5-27-85 | |
| | | | UT | 19-B | 5-28-85 | |
| 1-B21-PS-24-C-8 | 24" E-P | A-7 | MT | NA | 5-21-85 | |
| | | | UT | 19-B | 5-21-85 | |

CAROLINA POWER & LIGHT COMPANY
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 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: MS (B21)
 CATEGORY: B-J

IC NO. 1-MS-3
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|--------------------------|-------------|-----------|------------|-----------|-----------|----------|
| 1-B21-PS-24-C-17 | 24" FH-P | A-7 | MT | NA | 4-09-85 | |
| | | | UT | 19-B | 4-13-85 | |
| 1-B21-PS-24-C-18 | 24" P-V | A-7 | MT | NA | 4-09-85 | |
| | | | UT | 19-B | 4-13-85 | |
| 1-B21-PS-24-C-7- LD-1 | 24" IALS | A-7 | MT | NA | 4-19-85 | |
| | | | UT | 19-B | 4-22-85 | |
| 1-B21-PS-24-C-7- LD-0 | 24" OALS | A-7 | MT | NA | 4-19-85 | |
| | | | UT | 19-B | 4-22-85 | |
| 1-B21-PS-24-C-8- LU-1 | 24" IALS | A-7 | MT | NA | 4-19-85 | |
| | | | UT | 19-B | 4-22-85 | |
| 1-B21-PS-24-C-8- LU-0 | 24" OALS | A-7 | MT | NA | 4-19-85 | |
| | | | UT | 19-B | 4-22-85 | |
| 1-B21-PS-24-D-5 | 24" P-P | A-9 | MT | NA | 4-30-85 | |
| | | | UT | 19-B | 5-02-85 | |
| 1-B21-PS-24-D-11 | 24" P-P | A-9 | MT | NA | 4-06-85 | |

CAROLINA POWER & LIGHT COMPANY
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 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: MS (B21)
 CATEGORY: B-J

IC NO. 1-MS-4
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|--------------------|-------------|-----------|------------|-----------|-----------|----------|
| 1-B21-PS-24-D-11 | 24" P-P | A-9 | UT | 19-B | 4-18-85 | |
| 1-B21-PS-24-D-18 | 24" FH-P | A-9 | MT | NA | 4-15-85 | |
| | | | UT | 19-B | 4-13-85 | |
| 1-B21-PS-D-8-SRB-1 | 6" WOL-P | A-10 | MT | NA | 4-17-85 | |
| | | | UT | 21-B | 4-22-85 | |
| 1-B21-PS-D-8-SRB-2 | 6" P-P | A-10 | MT | NA | 4-17-85 | |
| | | | UT | 21-B | 4-23-85 | |
| 1-B21-PS-3-8 | 3" FH-P | A-48 | MT | NA | 4-11-85 | |
| 1-B21-PS-3-9 | 3" P-V | A-48 | MT | NA | 4-11-85 | |
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CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: MS
 CATEGORY: C-F

IC NO. 1-MS-5
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|-----------------|-----------|------------|--------------|-----------|----------|
| 1-MS-40-3-SW-A | 24" P-E | MS-407 | MT | NA | 6-06-85 | |
| | | | UT | 19-B | 6-07-85 | |
| 1-MS-33A-4-FW-7 | 24" P-P | MS-411 | MT | NA | 5-24-85 | |
| | | | UT | 19-B | 6-04-85 | |
| 1-MS-37-4-SW-B | 24"x8" P-WOL | MS-412 | MT | NA | 6-07-85 | |
| 1-MS-37-4-SW-C | 8" RED-P | MS-412 | MT | NA | 6-07-85 | |
| | | | UT | 73-B | 6-11-85 | |
| 1-MS-78-9-FW-57 | 16" E-P | MS-505 | MT | NA | 5-24-85 | |
| | | | UT | 64-B 62-B | 5-30-85 | |
| 1-MS-78-11-SW-A | 16" P-T | MS-505 | MT | NA | 5-24-85 | |
| | | | UT | 64-B 62-B | 5-30-85 | |

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SYSTEM: FW (B21)
 CATEGORY: B-J

IC NO. 1-FW-1
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|-------------|-----------|------------|-----------|-----------|----------|
| 1-B21-FW-18-A-11 | 18" P-E | A-21 | MT | NA | 4-17-85 | |
| | | | UT | 17-B | 4-18-85 | |
| 1-B21-FW-18-A-12 | 18" E-P | A-21 | MT | NA | 5-20-85 | |
| | | | UT | 17-B | 5-27-85 | |
| 1-B21-FW-18-A-13 | 18" P-V | A-21 | MT | NA | 4-17-85 | |
| | | | UT | 17-B | 4-18-85 | |
| 1-B21-FW-18-B-3 | 18" P-FH | A-22 | MT | NA | 4-09-85 | |
| | | | UT | 17-B | 4-13-85 | |
| 1-B21-FW-18-B-6 | 18" E-E | A-22 | MT | NA | 4-18-85 | |
| | | | UT | 17-B | 4-18-85 | |
| 1-B21-FW-18-B-7 | 18" E-P | A-22 | MT | NA | 5-28-85 | |
| | | | UT | 17-B | 5-30-85 | |
| 1-B21-FW-12-A-5 | 12" E-P | A-23 | MT | NA | 4-19-85 | |
| | | | UT | 15-B | 4-28-85 | |
| 1-B21-FW-12-A-6 | 12" P-E | A-23 | MT | NA | 5-27-85 | |

CAROLINA POWER & LIGHT COMPANY
 PO BOX 1557, RALEIGH, NC 27602
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 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: FW (B21)
 CATEGORY: B-J

IC NO. 1-FW-2
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|-------------|-----------|------------|-----------|-----------|----------|
| 1-B21-FW-12-A-6 | 12" P-E | A-23 | UT | 15-B | 5-28-85 | |
| 1-B21-FW-12-C-6 | 12" P-E | A-25 | PT | NA | 4-17-85 | |
| | | | UT | 15-B | 4-24-85 | |
| 1-B21-FW-12-C-7 | 12" E-P | A-25 | MT | NA | 4-17-85 | |
| | | | JT | 15-B | 4-24-85 | |
| 1-B21-FW-12-D-1 | 12" T-E | A-26 | MT | NA | 4-24-85 | |
| | | | UT | 15-B | 4-23-85 | |
| 1-B21-FW-12-A-8 | 12" SE-N | A-23 | MT | NA | 5-11-85 | |
| 1-B21-FW-12-B-11 | 12" SE-N | A-24 | MT | NA | 5-11-85 | |
| 1-B21-FW-12-C-12 | 12" SE-N | A-25 | MT | NA | 5-11-85 | |
| 1-B21-FW-12-D-8 | 12" SE-N | A-26 | MT | NA | 5-11-85 | |

CAROLINA POWER & LIGHT COMPANY
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SYSTEM: FW (B21)
 CATEGORY: C-F

IC NO. 1-FW-3
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|------------|-----------|------------|-----------|-----------|----------|
| 1-FW-30-8-SW-B | 20" E-E | FW-301 | MT | NA | 5-23-85 | |
| | | | UT | 65-B | 5-23-85 | |
| 1-FW-28-8-SW-A | 30" E-P | FW-302 | MT | NA | 5-10-85 | |
| | | | UT | 67-B | 5-16-85 | |
| 1-FW-A1-33-SW-2A | 8" P-E | FW-302 | MT | NA | 5-10-85 | |
| | | | UT | 74-B | 5-17-85 | |
| 1-FW-39-8-FW-55 | 30" E-E | FW-402 | MT | NA | 5-13-85 | |
| | | | UT | 67-B | 5-16-85 | |
| 1-FW-42-8-SW-A | 18" E-P | FW-501 | MT | NA | 5-10-85 | |
| | | | UT | 17-B | 5-16-85 | |
| 1-FW-53-9-FW-60 | 18" P-F | FW-504 | MT | NA | 5-10-85 | |
| | | | UT | 17-B | 5-16-85 | |
| 1-FW-56-9-SW-A | 18" E-P | FW-505 | MT | NA | 5-24-85 | |
| | | | UT | 17-B | 6-08-85 | |
| 1-FW-60-10-FW-79 | 16" T-E | FW-601 | MT | NA | 5-13-85 | |

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SYSTEM: FW (B21)
 CATEGORY: C-F

IC NO. 1-FW-4
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|------------|-----------|------------|-----------|-----------|----------|
| 1-FW-60-10-FW-79 | 16" T-E | FW-601 | UT | 64-B | 5-28-85 | |
| 1-FW-65-10-SW-A | 16" E-P | FW-602 | MT | NA | 5-10-85 | |
| | | | UT | 64-B | 5-15-85 | |
| 1-FW-69-10-SW-A | 16" P-E | FW-603 | MT | NA | 6-07-85 | |
| | | | UT | 64-B | 6-10-85 | |
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CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RR (B32)
 CATEGORY: B-J

IC NO. 1-RR-1
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|----------------------------|----------|-----------|------------|-----------|-----------|----------|
| 1-B32-RECIRC-28-A-14LD-1 | 28" IALS | A-27 | PT | NA | 4-22-85 | |
| 1-B32-RECIRC-28-A-14LD-0 | 28" OALS | A-27 | PT | NA | 4-22-85 | |
| 1-B32-RECIRC-28-A-15LU-1 | 28" IALS | A-27 | PT | NA | 4-22-85 | |
| 1-B32-RECIRC-28-A-15LU-0 | 28" OALS | A-27 | PT | NA | 4-22-85 | |
| 1-B32-RECIRC-12-AR-E-2LD-1 | 12" IALS | A-31 | PT | NA | 4-22-85 | |
| 1-B32-RECIRC-12-AR-E-2LD-0 | 12" OALS | A-31 | PT | NA | 4-22-85 | |
| 1-B32-RECIRC-12-BR-H-4LU | 12" LS | A-32 | PT | NA | 4-22-85 | |
| 1-B32-RECIRC-4-B-8 | 4" P-E | A-33 | PT | NA | 4-08-85 | |
| | | | UT | 2-B | 4-19-85 | |
| 1-B32-RECIRC-4-B-9 | 4" E-P | A-33 | PT | NA | 4-08-85 | |
| | | | UT | 2-B | 4-19-85 | |
| 1-B32-RECIRC-2-DRAIN-23 | 2" P-V | A-62 | PT | NA | 5-18-85 | |
| 1-B32-RECIRC-2-DRAIN-22 | 2" V-P | A-62 | PT | NA | 5-18-85 | |
| 1-B32-RECIRC-2-DRAIN-21 | 2" P-V | A-62 | PT | NA | 5-18-85 | |
| 1-B32-RECIRC-2-DRAIN-20 | 2" E-P | A-62 | PT | NA | 5-18-85 | |

CAROLINA POWER & LIGHT COMPANY
PO BOX 1551, RALEIGH, NC 27602
BRUNSWICK STEAM ELECTRIC PLANT
SOUTHPORT, NC 28461
UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RR (B32)
CATEGORY: B-J

IC NO. 1-RR-2
REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|-------------------------|-----------|-----------|------------|-----------|-----------|----------|
| 1-B32-RECIRC-2-DRAIN-17 | 2" P-E | A-62 | PT | NA | 5-18-85 | |
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CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RHR (E11)
 CATEGORY: B-J

IC NO. 1-RHR-1
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|-------------|-----------|------------|-----------|-----------|----------|
| 1-E11-24-A-2 | 24" V-FH | A-36 | MT | NA | 5-08-85 | |
| | | | UT | 20-B | 5-09-85 | |
| 1-E11-24-A-3 | 24" P-E | A-36 | MT | NA | 4-06-85 | |
| | | | UT | 20-B | 4-15-85 | |
| 1-E11-24-A-4 | 24" E-P | A-36 | MT | NA | 4-06-85 | |
| | | | UT | 20-B | 4-06-85 | |
| 1-E11-24-B-5 | 24" P-E | A-37 | MT | NA | 4-06-85 | |
| | | | UT | 20-B | 4-08-85 | |
| 1-E11-24-B-6 | 24" E-P | A-37 | MT | NA | 4-06-85 | |
| | | | UT | 20-B | 4-17-85 | |
| 1-E11-20-A-11 | 20" FH-P | A-38 | MT | NA | 5-08-85 | |
| | | | UT | 6-B | 5-09-85 | |
| 1-E11-4-DISCH-3 | 4" P-FH | A-39 | MT | NA | 6-05-85 | |
| | | | UT | 11B | 6-06-85 | |
| 1-E11-4-DISCH-12 | 4" P-E | A-39 | MT | NA | 5-04-85 | |

CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RHR (E11)
 CATEGORY: B-J

IC NO. 1-RHR-2
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|-----------|-----------|------------|-----------|-----------|----------|
| 1-E11-4-DISCH-12 | 4" P-E | A-39 | UT | 11-B | 5-08-85 | |
| 1-E11-4-DISCH-13 | 4" E-P | A-39 | MT | NA | 5-04-85 | |
| | | | UT | 11-B | 5-09-85 | |
| 1-E11-4-DISCH-21 | 4" P-E | A-39A | MT | NA | 5-06-85 | |
| | | | UT | 11-B | 5-08-85 | |
| 1-E11-4-DISCH-22 | 4" P-E | A-39A | MT | NA | 5-06-85 | |
| | | | UT | 11-B | 5-08-85 | |
| 1-E11-4-DISCH-23 | 4" P-E | A-39A | MT | NA | 5-06-85 | |
| | | | UT | 11-B | 5-08-85 | |
| 1-E11-4-DISCH-24 | 4" P-E | A-39A | MT | NA | 5-06-85 | |
| | | | UT | 11-B | 5-08-85 | |
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CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RHR (E11)
 CATEGORY: C-F

IC NO. 1-RHR-3
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|---------------------|------------------|-----------|------------|-----------|-----------|----------|
| 1-E11-14-2-SW-C | 20" P-T | E11-201 | MT | NA | 4-08-85 | |
| 1-E11-5-9-SW-D | 20" P-T | E11-204 | MT | NA | 4-03-85 | |
| 1-E11-25-111-SW-B | 8" WOL-P | E11-301 | MT | NA | 4-08-85 | |
| 1-E11-26-2-SW-A | 20" E-E | E11-301 | MT | NA | 4-08-85 | |
| 1-E11-71-68-FW-98 | 20" T-P | E11-701 | MT | NA | 6-08-85 | |
| 1-E11-65-68-SW-A | 20" T-P | E11-702 | MT | NA | 5-22-85 | |
| 1-E11-284-68-FW-105 | 6" WOL-CAP | E11-702 | MT | NA | 5-22-85 | |
| 1-E11-64A-112-SW-B | 8" T-P | E11-703 | MT | NA | 5-22-85 | |
| 1-E11-64-21-FW-89 | 14" P-V | E11-703 | MT | NA | 5-22-85 | |
| 1-E11-87-77-FW-119 | 16" P-V | E11-902 | MT | NA | 6-07-85 | |
| 1-E11-94-14-SW-D | 16" T-P | E11-1101 | MT | NA | 4-03-85 | |
| 1-E11-106-13-SW-A | 16" P-E | E11-1101 | MT | NA | 4-03-85 | |
| 1-E11-95-46-SW-C | 16" E-P | E11-1101 | MT | NA | 4-03-85 | |
| 1-E11-109-56-FW-155 | 20" HX- NOZ-E | E11-1201 | MT | NA | 4-10-85 | |
| 1-E11-138-47-SW-B | 12" P-RED | E11-1601 | MT | NA | 5-08-85 | |

CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RHR (E11)
 CATEGORY: C-F

IC NO. 1-RHR-4
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|-----------------------|---------------|-----------|------------|-----------|-----------|----------|
| 1-E11-138-47-SW-D | 6" RED-RED | E11-1601 | MT | NA | 5-08-85 | |
| 1-E11-144-47-FW-194 | 12" P-E | E11-1602 | MT | NA | 3-28-85 | |
| 1-E11-144-47-SW-A | 12" E-P | E11-1602 | MT | NA | 3-28-85 | |
| 1-E11-147-48-FW-196 | 6" P-V | E11-1701 | MT | NA | 5-08-85 | |
| 1-E11-158-18-SW-A | 12" E-P | E11-1802 | MT | NA | 4-15-85 | |
| 1-E11-156-18-FW-RHRE6 | 12" P-E | E11-1802 | MT | NA | 4-15-85 | |
| 1-E11-FF-73-FW-351 | 6" WOL-V | E11-2801 | MT | NA | 4-04-85 | |
| 1-E11-251-73-FW-352 | 6" V-E | E11-2801 | MT | NA | 4-04-85 | |
| 1-E11-257-53-FW-360 | 6" P-E | E11-2901 | MT | NA | 4-09-85 | |
| 1-E11-262-53-FW-371 | 6" P-E | E11-2902 | MT | NA | 4-08-85 | |
| 1-E11-267-120-SW-C | 10" T-P | E11-2902 | MT | NA | 4-08-85 | |
| 1-E11-267-50-SW-A | 6" E-RED | E11-2902 | MT | NA | 4-08-85 | |
| 1-E11-268-120-FW-370 | 10" P-T | E11-2904 | MT | NA | 4-09-85 | |

CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RHR/HEAT EXCHANGER (E11)
 CATEGORY: C-A, C-B & C-C (SEE COMMENTS)

IC NO. 1-HX-1
 REVISION 1

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------------|------------|-----------|------------|-----------|-----------|----------|
| 1-E11-HX-1A-SW-C5 | CIRC (H-S) | E11-1150 | UT | 71-B | 3-30-85 | C-A |
| | | | UT | 72-B | 3-29-85 | |
| 1-E11-HX-1A-SW-C4 | CIRC (S-S) | E11-1150 | UT | 71-B | 3-30-85 | C-A |
| | | | UT | 72-B | 3-29-85 | |
| 1-E11-HX-1A-SW-C3 | CIRC (S-F) | E11-1150 | UT | 72-B | 3-30-85 | C-A |
| 1-E11-HX-1A-SW-N3 | N-V | E11-1150 | MT | NA | 3-28-85 | C-B |
| | | | UT | 71-B | 4-01-85 | |
| 1-E11-HX-1A-SW-N4 | V-N | E11-1150 | MT | NA | 3-28-85 | C-B |
| | | | UT | 72-B | 3-30-85 | |
| 1-E11-HX-1A-SW-SUP-0 | SUP | E11-1150 | MT | NA | 3-28-85 | C-C* |
| 1-E11-HX-1A-SW-SUP-90 | SUP | E11-1150 | MT | NA | 3-28-85 | C-C* |
| 1-E11-HX-1A-SW-SUP-180 | SUP | E11-1150 | MT | NA | 3-28-85 | C-C* |
| 1-E11-HX-1A-SW-SUP-270 | SUP | E11-1150 | MT | NA | 3-28-85 | C-C* |

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CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: CS (E21)
 CATEGORY: B-J

IC NO. 1-CS-1
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|-------------|-----------|------------|-----------|-----------|----------|
| 1-E21-10-A-4 | 10" P-FH | A-40 | MT | NA | 4-30-85 | |
| | | | UT | 13-B | 5-07-85 | |
| 1-E21-10-A-5 | 10" FH-P | A-40 | MT | NA | 4-29-85 | |
| | | | UT | 13-B | 5-03-85 | |
| 1-E21-10-A-21R | 10" E-E | A-40 | MT | NA | 4-25-85 | |
| | | | UT | 13-B | 4-30-85 | |
| 1-E21-10-A-22R | 10" E-P | A-40 | MT | NA | 4-25-85 | |
| | | | UT | 13-B | 4-30-85 | |
| 1-E21-10-A-23R | 10" P-P | A-40 | MT | NA | 4-25-85 | |
| | | | UT | 13-B | 4-30-85 | |
| 1-E21-10-B-3 | 10" E-FH | A-41 | MT | NA | 5-15-85 | |
| | | | UT | 13-B | 5-15-85 | |
| 1-E21-10-B-4 | 10" P-P | A-41 | MT | NA | 4-18-85 | |
| | | | UT | 13-B | 5-31-85 | |
| 1-E21-10-B-6 | 10" E-V | A-41 | MT | NA | 4-18-85 | |

CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: CS (E21)
 CATEGORY: B-J

IC NO. 1-CS-2
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|------------|-----------|------------|-----------|-----------|----------|
| 1-E21-10-B-6 | 10" E-V | A-41 | UT | 13-B | 4-18-85 | |
| 1-E21-10-B-8 | 10" P-E | A-41 | MT | NA | 4-18-85 | |
| | | | UT | 13-B | 4-18-85 | |
| 1-E21-10-B-9 | 10" E-P | A-41 | MT | NA | 4-18-85 | |
| | | | UT | 13-B | 4-18-85 | |
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CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: CS (E21)
 CATEGORY: C-F

IC NO. 1-CS-3
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|--------------|-----------|------------|-----------|-----------|----------|
| 1-E21-10-29-FW-9 | 10" V-P | E21-302 | MT | NA | 5-29-85 | |
| 1-E21-43-6-SW-A | 12" P-E | E21-501 | MT | NA | 6-06-85 | |
| 1-E21-39-28-SW-D | 10" RED-P | E21-502 | MT | NA | 5-29-85 | |
| 1-E21-30-6-SW-D | 12" P-E | E21-504 | MT | NA | 6-08-85 | |
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CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: HPCI (E41)
 CATEGORY: B-J

IC NO. 1-HPCI-1
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|--------------|-----------|------------|-----------|-----------|----------|
| 1-E41-14-3 | 14" P-E | A-42 | MT | NA | 5-23-85 | |
| | | | UT | 16-B | 5-23-85 | |
| 1-E41-14-10 | 14" P-E | A-42 | MT | NA | 4-09-85 | |
| | | | UT | 16-B | 4-13-85 | |
| 1-E41-14-11 | 14" E-T | A-42 | MT | NA | 4-09-85 | |
| | | | UT | 16-B | 4-13-85 | |
| 1-E41-10-10 | 10" P-E | A-43 | MT | NA | 4-29-85 | |
| | | | UT | 16-B | 4-30-85 | |
| 1-E41-10-11 | 10" E-P | A-43 | MT | NA | 4-29-85 | |
| | | | UT | 16-B | 4-30-85 | |
| 1-E41-10-20 | 10" P-PEN | A-43 | MT | NA | 5-01-85 | |
| | | | UT | 16-B | 5-02-85 | |

CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: HPCI (E41)
 CATEGORY: C-F

IC NO. 1-HPCI-2
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|-------------------|--------------|-----------|------------|-----------|-----------|----------|
| 1-E41-47-6-SW-A | 20" P-E | E41-101 | MT | NA | 6-05-85 | |
| 1-E41-6-6-SW-B | 20" RED-P | E41-101 | MT | NA | 5-10-85 | |
| 1-E41-2-6-FW-3 | 20" E-V | E41-102 | MT | NA | 6-07-85 | |
| 1-E41-1-6-FW-2 | 20" V-RED | E41-102 | MT | NA | 6-07-85 | |
| 1-E41-20-2-SW-A | 14" E-P | E41-401 | MT | NA | 5-10-85 | |
| | | | UT | 75-B | 5-13-85 | |
| 1-E41-20-2-FW-27 | 14" PU-E | E41-401 | MT | NA | 5-10-85 | |
| | | | UT | 75-B | 5-13-85 | |
| 1-E41-25-21-FW-40 | 10" P-T | E41-501 | MT | NA | 4-16-85 | |
| | | | UT | 14-B | 4-18-85 | |
| 1-E41-24-61-SW-A | 10" P-T | E41-501 | MT | NA | 4-16-85 | |
| | | | UT | 14-B | 6-07-85 | |
| 1-E41-30-61-SW-F | 10" P-CAP | E41-502 | MT | NA | 5-10-85 | |
| | | | UT | 14-B | 5-14-85 | |
| 1-E41-41-60-SW-D | 14" E-T | E41-601 | MT | NA | 4-16-85 | |

CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RCIC (E51)
 CATEGORY: B-J

IC NO. 1-RCIC-1
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|-------------------|------------|-----------|------------|-----------|-----------|----------|
| 1-E51-4-DISCH-8 | 4" P-E | A-44 | MT | NA | 4-09-85 | |
| | | | UT | 12-B | 4-13-85 | |
| 1-E51-4-DISCH-9 | 4" E-P | A-44 | MT | NA | 4-09-85 | |
| | | | UT | 12-B | 4-13-85 | |
| 1-E51-3-SUPPLY-6 | 3" P-E | A-45 | PT | NA | 4-25-85 | |
| 1-E51-3-SUPPLY-7 | 3" E-P | A-45 | MT | NA | 4-25-85 | |
| 1-E51-3-SUPPLY-22 | 3" FH-P | A-45 | MT | NA | 5-13-85 | |
| 1-E51-3 SUPPLY-23 | 3" P-V | A-45 | MT | NA | 5-13-85 | |
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CAROLINA POWER & LIGHT COMPANY
 PO BOX 1591, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: MS/SRV LINES (NB)
 CATEGORY: C-F

IC NO. 1-NB-1
 REV. 1-N-0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|--------------------|------------|-----------|------------|-----------|-----------|----------|
| 1-NB-A10-27-FW-184 | 10" E-P | NB-601 | MT | NA | 6-03-85 | |
| | | | UT | 13-B | 6-04-85 | |
| 1-NB-A10-27-FW-185 | 10" P-E | NB-601 | MT | NA | 6-05-85 | |
| | | | UT | 13-B | 6-04-85 | |
| 1-NB-A12-34-FW-192 | 10" E-P | NB-601 | MT | NA | 6-03-85 | |
| | | | UT | 13-B | 6-04-85 | |
| 1-NB-A12-34-FW-193 | 10" P-E | NB-601 | MT | NA | 6-03-85 | |
| | | | UT | 13-B | 6-04-85 | |
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CAROLINA POWER & LIGHT COMPANY
 PO BOX 155, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

RHR (E11), HPCI (E41), RR (B32),
 SYSTEM: CS (E21), FW (B21)
 CATEGORY: B-K-1

IC NO. 1-INTEGRAL-1
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|-----------------------------|---------------|-----------|------------|-----------|-----------|----------|
| 1-E41-10-7HL | 10" 8 LUGS | A-43 | MT | NA | 5-03-85 | |
| 1-B32-RECIRC-28-A-16HL-1 | 28" 6 LUGS | A-27 | PT | NA | 6-07-85 | |
| 1-B32-RECIRC-28-A-16HL-2 | 28" 6 LUGS | A-27 | PT | NA | 6-07-85 | |
| 1-B32-RECIRC-28-B-PUMP-1PHL | 28" 3 LUGS | A-56 | PT | NA | 6-08-85 | |
| 1-B32-RECIRC-28-B-PUMP-2PHL | 28" 5 LUGS | A-56 | PT | NA | 6-08-85 | |
| 1-B32-RECIRC-28-B-PUMP-3PHL | 28" 5 LUGS | A-56 | PT | NA | 6-08-85 | |
| 1-E11-24-A-5PS | 24" LUG | A-36 | MT | NA | 4-09-85 | |
| 1-E21-10-A-12RHL | 10" LUG | A-40 | MT | NA | 4-30-85 | |
| 1-B21-FW-12-D-4HL | 12" 8 LUGS | A-26 | MT | NA | 5-31-85 | |
| 1-B32-RECIRC-28"-B-16HL-1 | 28" 6 LUGS | A-28 | PT | NA | 6-05-85 | |
| 1-B32-RECIRC-28"-B-16HL-2 | 28" 6 LUGS | A-28 | PT | NA | 6-05-85 | |
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CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RHR (E11), CS (E21), HPCI (E41)
 CATEGORY: C-E

IC NO. 1-INTEGRAL-2
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|-------------------------|--------------|-----------|------------|-----------|-----------|----------|
| 1-E11-17-2-FW-2VS132 | STANCH. | E11-201 | MT | NA | 4-12-85 | |
| 1-E11-19-2-FW-2VS130 | STANCH. | E11-201 | MT | NA | 4-12-85 | |
| 1-E11-12-2-FW-2PG136 | STANCH. | E11-202 | MT | NA | 4-08-85 | |
| 1-E11-10-3-FW-3FS141 | STANCH. | E11-202 | MT | NA | 4-09-85 | |
| 1-E11-5-4-FW-9FS394 | STANCH. | E11-204 | PT | NA | 9-04-85 | |
| 1-E11-26-2-FW-2PG152 | 2 STANCH. | E11-301 | MT | NA | 4-08-85 | |
| 1-E11-106-13-FW-13FS1 | STANCH. | E11-1101 | MT | NA | 4-03-85 | |
| 1-E11-265-50-FW-50SS597 | 8 LUGS | E11-2903 | MT | NA | 3-29-85 | |
| 1-E21-2-40-FW-40FS90 | STANCH. | E21-101 | MT | NA | 6-06-85 | |
| 1-E21-2-40-FW-40PG1 | STANCH. | E21-101 | MT | NA | 6-11-85 | |
| 1-E41-12-59-FW-59PG24 | STANCH. | E41-301 | MT | NA | 6-05-85 | |
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CAROLINA POWER & LIGHT COMPANY
 PO BOX 1491, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: JET PUMP BEAMS
 CATEGORY: AUG

IC NO. 1-AUG-1
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|---------------------|------|-----------|------------|-----------|-----------|----------|
| JET PUMP BEAM @ 30 | BEAM | NA | UT | GE SUPPL. | 6-17-85 | |
| JET PUMP BEAM @ 60 | BEAM | NA | UT | GE SUPPL. | 6-17-85 | |
| JET PUMP BEAM @ 90 | BEAM | NA | UT | GE SUPPL. | 6-17-85 | |
| JET PUMP BEAM @ 120 | BEAM | NA | UT | GE SUPPL. | 6-17-85 | |
| JET PUMP BEAM @ 150 | BEAM | NA | UT | GE SUPPL. | 6-17-85 | |
| JET PUMP BEAM @ 210 | BEAM | NA | UT | GE SUPPL. | 6-17-85 | |
| JET PUMP BEAM @ 240 | BEAM | NA | UT | GE SUPPL. | 6-17-85 | |
| JET PUMP BEAM @ 300 | BEAM | NA | UT | GE SUPPL. | 6-17-85 | |
| JET PUMP BEAM @ 330 | BEAM | NA | UT | GE SUPPL. | 6-17-85 | |
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CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: INCONEL BUTTER
 CATEGORY: AUG

IC NO. 1-AUG-2
 REVISION

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|-------------------------|----------------|-----------|------------|-----------|-----------|----------|
| 1-B32-RECIRC-28"-B-1 | INCONEL BUTTER | A-28 | UT | 58-B | 4-08-85 | |
| 1-B32-RECIRC-12"-AR-A-6 | INCONEL BUTTER | A-31 | UT | 53-B | 4-05-85 | |
| 1-B32-RECIRC-12"-AR-B-6 | INCONEL BUTTER | A-31 | UT | 53-B | 4-05-85 | |
| 1-B32-RECIRC-12"-AR-C-6 | INCONEL BUTTER | A-31 | UT | 53-B | 4-05-85 | |
| 1-B32-RECIRC-12"-AR-D-6 | INCONEL BUTTER | A-31 | UT | 53-B | 4-06-85 | |
| 1-B32-RECIRC-12"-BR-F-6 | INCONEL BUTTER | A-32 | UT | 53-B | 4-06-85 | |
| 1-B32-RECIRC-12"-BR-G-6 | INCONEL BUTTER | A-32 | UT | 53-B | 4-05-85 | |
| 1-B32-RECIRC-12"-BR-K-6 | INCONEL BUTTER | A-32 | UT | 53-B | 4-08-85 | |
| 1-JPI-4"-N8B | INCONEL BUTTER | A-1 | UT* | 36-B | 4-09-85 | |
| 1-B32-RECIRC-12"-BR-E-6 | INCONEL BUTTER | A-32 | UT | 53-B | 4-15-85 | |
| 1-B32-RECIRC-12"-BR-H-6 | INCONEL BUTTER | A-32 | UT | 53-B | 4-15-85 | |
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* SPECIAL SHOES REQUIRED

CAROLINA POWER & LIGHT COMPANY
 PO BOX 551, RALEIGH, NC 27602
 BRUNNEN STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RR
 CATEGORY: AUG

NO. 1-AUG-3
 REVISION 0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------|------|-----------|------------|-----------|-----------|----------|
| RR 12" SE @ 30 | SE | A-30 | UT | 49-B | 4-06-85 | |
| RR 12" SE @ 60 | SE | A-30 | UT | 49-B | 4-06-85 | |
| RR 12" SE @ 90 | SE | A-30 | UT | 49-B | 4-06-85 | |
| RR 12" SE @ 120 | SE | A-30 | UT | 49-B | 4-06-85 | |
| RR 12" SE @ 150 | SE | A-30 | UT | 49-B | 4-06-85 | |
| RR 12" SE @ 210 | SE | A-31 | UT | 49-B | 4-08-85 | |
| RR 12" SE @ 240 | SE | A-31 | UT | 49-B | 4-08-85 | |
| RR 12" SE @ 270 | SE | A-31 | UT | 49-B | 4-06-85 | |
| RR 12" SE @ 300 | SE | A-31 | UT | 49-B | 4-08-85 | |
| RR 12" SE @ 330 | SE | A-31 | UT | 49-B | 4-08-85 | |
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CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RR
 CATEGORY: B-J AUG

NO. 1-AUG-4
 REVISION

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|------------------------|-----------------|-----------|------------|---------------|-----------|----------|
| 1-B32-RECIRC-28-A-14 | (O.L.) V-E | A-27 | PT | NA | 3-22-85 | |
| | | | UT | 102 R.O.L. | 8-19-85 | |
| 1-B32-RECIRC-28-A-15 | (O.L.) E-P | A-27 | PT | NA | 8-16-85 | |
| | | | UT | 102 R.O.L. | 8-23-85 | |
| 1-B32-RECIRC-28-B-8 | (O.L.) E-V | A-28 | PT | NA | 8-14-85 | |
| | | | UT | 102 R.O.L. | 8-21-85 | |
| 1-B32-RECIRC-12-BR-H-4 | (O.L.) P-EXT | A-32 | PT | NA | 8-12-85 | |
| | | | UT | 100 R.O.L. | 8-15-85 | |
| 1-B32-RECIRC-12-AR-E-2 | (O.L.) P-E | A-31 | PT | NA | 8-08-85 | |
| | | | UT | 100 R.O.L. | 8-17-85 | |

CAROLINA POWER & LIGHT COMPANY
 PO BOX 199 RALEIGH, NC 27602
 BRUNNEN CRUISE ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RR
 CATEGORY: B-J

IC NO. 1-AUG-1HS
 REVISION

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|---------------------|-------|-----------|------------|-----------|-----------|----------|
| 1B32RECIRC-12-AR-A1 | SWP-P | A-31 | UT | 5-B | 5-23-85 | |
| 1B32RECIRC-12-AR-A2 | P-E | A-31 | UT | 5-B | 5-11-85 | |
| 1B32RECIRC-12-AR-A3 | E-P | A-31 | UT | 5-B | 6-06-85 | |
| 1B32RECIRC-12-AR-B1 | SWP-P | A-31 | UT | 5-B | 5-23-85 | |
| 1B32RECIRC-12-AR-B3 | E-P | A-31 | UT | 5-B | 6-09-85 | |
| 1B32RECIRC-12-AR-C1 | R-P | A-31 | UT | 5-B | 6-03-85 | |
| 1B32RECIRC-12-AR-C2 | P-E | A-31 | UT | 5-B | 6-09-85 | |
| 1B32RECIRC-12-AR-C3 | E-P | A-31 | UT | 5-B | 5-22-85 | |
| 1B32RECIRC-12-AR-C4 | P-EXT | A-31 | UT | 5-B | 6-09-85 | |
| 1B32RECIRC-12-AR-D1 | SWP-P | A-31 | UT | 5-B | 5-26-85 | |
| 1B32RECIRC-12-AR-D2 | P-E | A-31 | UT | 5-B | 6-10-85 | |
| 1B32RECIRC-12-AR-D3 | E-P | A-31 | UT | 5-B | 5-11-85 | |
| 1B32RECIRC-12-AR-D4 | P-EXT | A-31 | UT | 5-B | 6-18-85 | |
| 1B32RECIRC-12-AR-E1 | SWP-P | A-31 | UT | 5-B | 5-26-85 | |
| 1B32RECIRC-12-AR-E3 | E-P | A-31 | UT | 5-B | 5-31-85 | |

CAROLINA POWER & LIGHT COMPANY
 PO BOX 155, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28460
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RR
 CATEGORY: B-J

IC NO. 1-AUG-IHS1-2
 REVISION 2

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|---------------------|-------|-----------|------------|-----------|-----------|----------|
| 1B32RECIRC-12-AR-E4 | P-EXT | A-31 | UT | 5-B | 6-08-85 | |
| 1B32RECIRC-12-BR-F1 | SWP-P | A-32 | UT | 5-B | 5-26-85 | |
| 1B32RECIRC-12-BR-F2 | P-E | A-32 | UT | 5-B | 5-24-85 | |
| 1B32RECIRC-12-BR-F3 | E-P | A-32 | UT | 5-B | 5-29-85 | |
| 1B32RECIRC-12-BR-G1 | SWP-P | A-32 | UT | 5-B | 6-11-85 | |
| 1B32RECIRC-12-BR-G2 | P-E | A-32 | UT | 5-B | 5-21-85 | |
| 1B32RECIRC-12-BR-G3 | E-P | A-32 | UT | 5-B | 5-21-85 | |
| 1B32RECIRC-12-BR-G4 | P-EXT | A-32 | UT | 5-B | 6-08-85 | |
| 1B32RECIRC-12-BR-H1 | R-P | A-32 | UT | 5-B | 5-24-85 | |
| 1B32RECIRC-12-BR-H2 | P-E | A-32 | UT | 5-B | 5-21-85 | |
| 1B32RECIRC-12-BR-H3 | E-P | A-32 | UT | 5-B | 5-21-85 | |
| 1B32RECIRC-12-BR-J1 | SWP-P | A-32 | UT | 5-B | 5-24-85 | |
| 1B32RECIRC-12-BR-J2 | P-E | A-32 | UT | 5-B | 5-22-85 | |
| 1B32RECIRC-12-BR-J3 | E-P | A-32 | UT | 5-B | 5-31-85 | |
| 1B32RECIRC-12-BR-J4 | P-EXT | A-32 | UT | 5-B | 6-08-85 | |

CAROLINA POWER & LIGHT COMPANY
 P.O. BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RR
 CATEGORY: B-J

IC NO. 1-AUG-1981-1
 REV. 01

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|---------------------|-------|-----------|------------|-----------|-----------|----------|
| 1B32RECIRC-12-BR-K1 | SWP-P | A-32 | UT | 5-B | 5-24-85 | |
| 1B32RECIRC-12-BR-K2 | P-E | A-32 | UT | 5-B | 5-12-85 | |
| 1B32RECIRC-12-BR-K3 | E-P | A-32 | UT | 5-B | 5-23-85 | |
| 1B32RECIRC-12-BR-K4 | P-EXT | A-32 | UT | 5-B | 5-23-85 | |
| 1B32RECIRC-28-A2 | SE-P | A-28 | UT | 9-B | 6-20-85 | |
| 1B32RECIRC-28-A3 | P-E | A-28 | UT | 9-B | 6-14-85 | |
| 1B32RECIRC-28-A5 | P-T | A-28 | UT | 9-B | 6-14-85 | |
| 1B32RECIRC-28-A6 | T-P | A-28 | UT | 9-B | 6-14-85 | |
| 1B32RECIRC-28-A7 | P-E | A-28 | UT | 9-B | 6-14-85 | |
| 1B32RECIRC-28-A8 | E-V | A-28 | UT | 9-B | 6-20-85 | |
| 1B32RECIRC-28-A9 | V-P | A-28 | UT | 9-B | 6-13-85 | |
| 1B32RECIRC-28-A10 | P-E | A-28 | UT | 9-B | 6-13-85 | |
| 1B32RECIRC-28-A11 | E-PU | A-28 | UT | 9-B | 6-13-85 | |
| 1B32RECIRC-28-A12 | PU-P | A-28 | UT | 9-B | 6-19-85 | |
| 1B32RECIRC-28-A13 | P-V | A-28 | UT | 9-B | 6-19-85 | |

CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RR
 CATEGORY: B-J

IC NO. 1-4/5-1H51-4
 ON 2

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|-------------------|------|-----------|------------|-----------|-----------|----------|
| 1B32RECIRC-28-A16 | P-T | A-28 | UT | 9-B | 6-14-85 | |
| 1B32RECIRC-28-A17 | T-CR | A-28 | UT | 46-B | 6-19-85 | |
| 1B32RECIRC-28-A18 | CR-R | A-28 | UT | 46-B | 6-03-85 | |
| 1B32RECIRC-28-B2 | SE-P | A-29 | U | 9-B | 6-01-85 | |
| 1B32RECIRC-28-B3 | P-E | A-29 | UT | 9-B | 6-20-85 | |
| 1B32RECIRC-28-B5 | P-P | A-29 | UT | 9-B | 5-15-85 | |
| 1B32RECIRC-28-B6 | P-P | A-29 | UT | 9-B | 6-12-85 | |
| 1B32RECIRC-28-B9 | V-P | A-29 | UT | 9-B | 6-12-85 | |
| 1B32RECIRC-28-B10 | P-E | A-29 | UT | 9-B | 6-13-85 | |
| 1B32RECIRC-28-B11 | E-PU | A-29 | UT | 9-B | 6-13-85 | |
| 1B32RECIRC-28-B13 | P-V | A-29 | UT | 9-B | 6-13-85 | |
| 1B32RECIRC-28-B15 | E-P | A-29 | UT | 9-B | 6-13-85 | |
| 1B32RECIRC-28-B16 | P-T | A-29 | UT | 9-B | 6-13-85 | |
| 1B32RECIRC-28-B17 | T-CR | A-29 | UT | 46-B | 6-18-85 | |
| 1B32RECIRC-22-AM1 | V-P | A-29 | UT | 7-B | 6-06-85 | |

CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27607
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RR
 CATEGORY: B-1

IC NO. 1-AUG-IHS1-5
 REVISION 2

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|----------------------|------|-----------|------------|-----------|-----------|----------|
| 1B32RECIRC-22-AM2 | P-V | A-29 | UT | 7-B | 6-18-85 | |
| 1B32RECIRC-22-AM3 | V-P | A-29 | UT | 7-B | 6-05-85 | |
| 1B32RECIRC-22-AM4 | P-CR | A-29 | UT | 7-B | 6-18-85 | |
| 1B32RECIRC-22-AM5 | CR-P | A-29 | UT | 7-B | 6-04-85 | |
| 1B32RECIRC-22-AM6 | P-C | A-29 | UT | 7-B | 6-18-85 | |
| 1B32RECIRC-22-BM1 | C-P | A-30 | UT | 7-B | 6-18-85 | |
| 1B32RECIRC-22-BM2 | P-CR | A-30 | UT | 7-B | 6-17-85 | |
| 1B32RECIRC-22-BM3 | CR-P | A-30 | UT | 7-B | 6-17-85 | |
| 1B32RECIRC-22-BM5 | P-V | A-30 | UT | 7-B | 6-18-85 | |
| 1E11RHR-24-DISCH-A12 | V-T | A-36 | UT | 9-B | 6-21-85 | |
| 1E11RHR-24-DISCH-B13 | V-T | A-37 | UT | 9-B | 6-21-85 | |
| 1E11RHR-20-SUCT-A1 | T-P | A-38 | UT | 6-B | 5-31-85 | |
| 1E11RHR-20-SUCT-A2 | P-V | A-38 | UT | 6-B | 6-11-85 | |
| 1B32RECIRC-28-A4 | E-P | A-27 | UT | 9-B | 6-14-85 | |
| 1B32RECIRC-28-B4 | E-P | A-28 | UT | 9-B | 6-12-85 | |

CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 1, COMMERCIAL DATE 03/17/77

SYSTEM: RR
 CATEGORY: B

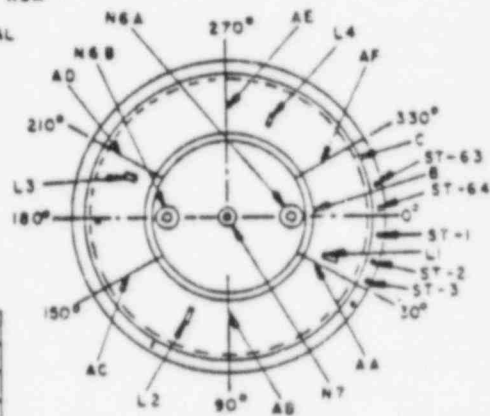
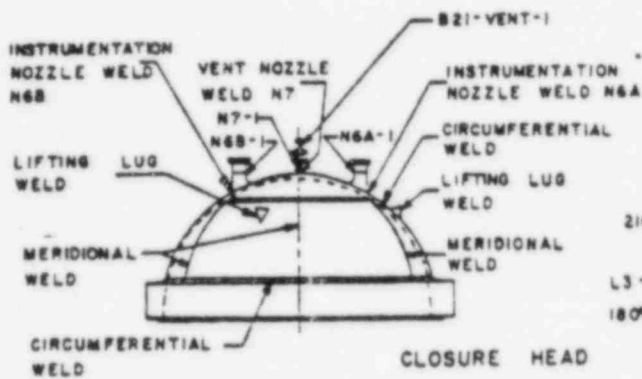
1-AUG-1981-4
 REV 1.0

| COMPONENT NUMBER | TYPE | ISOMETRIC | EXAM METH. | UT CALSTD | EXAM DATE | COMMENTS |
|-------------------|------|-----------|------------|-----------|-----------|----------|
| 1B32RECIRC-28-B7 | P-E | A-28 | UT | 9-B | 5-28-85 | |
| 1B32RECIRC-28-B12 | PU-P | A-28 | UT | 9-B | 6-13-85 | |
| 1B32RECIRC-28-B14 | V-E | A-28 | UT | 9-B | 5-28-85 | |
| 1B32RECIRC-28-B18 | CR-R | A-28 | UT | 46-B | 6-18-85 | |
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CAROLINA POWER AND LIGHT COMPANY, RALEIGH, NC
BRUNSWICK STEAM ELECTRIC PLANT, UNIT 1 SOUTHPORT, NC
COMMERCIAL DATE MARCH 17, 1977

8.0 DRAWINGS

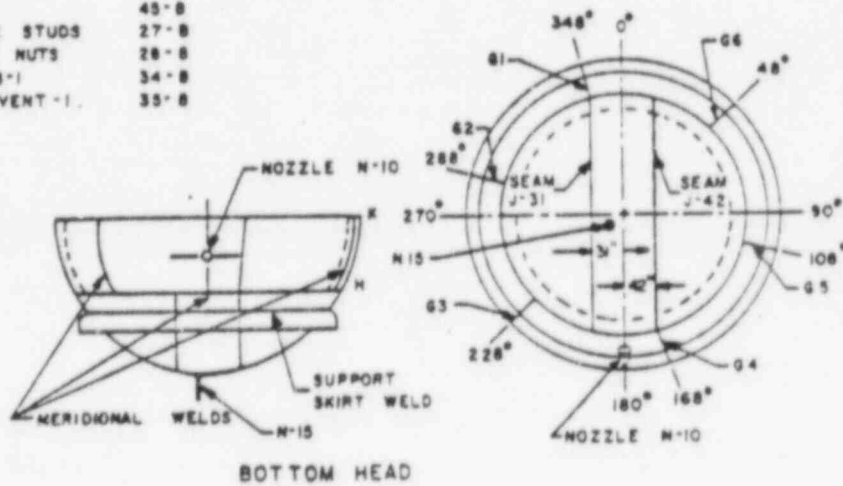
| ISOMETRIC NUMBER | PAGE |
|------------------------------|-------------------|
| CLASS 1 RPV | 8-2 THROUGH 8-3 |
| CLASS 1 MS | 8-4 THROUGH 8-8 |
| CLASS 1 FW | 8-9 THROUGH 8-14 |
| CLASS 1 RR | 8-15 THROUGH 8-21 |
| CLASS 1 RHR | 8-22 THROUGH 8-26 |
| CLASS 1 CS | 8-27 THROUGH 8-28 |
| CLASS 1 HPCI | 8-29 THROUGH 8-30 |
| CLASS 1 RCIC | 8-31 THROUGH 8-32 |
| CLASS 1 MS (DRAIN) | 8-33 |
| CLASS 1 RR (PUMP) | 8-34 |
| CLASS 1 RR (RPV DRAIN LINES) | 8-35 |
| CLASS 1 CRD HOUSING | 8-36 |
| CLASS 1 SBLC | 8-37 |
| CLASS 1 RPV INSTR. | 8-38 THROUGH 8-39 |
| CLASS 2 RHR | 8-40 THROUGH 8-66 |
| CLASS 2 CS | 8-67 THROUGH 8-71 |
| CLASS 2 HPCI | 8-72 THROUGH 8-81 |
| CLASS 2 RCIC | 8-82 |
| CLASS 2 FW | 8-83 THROUGH 8-91 |
| CLASS 2 MS | 8-92 THROUGH 8-95 |
| CLASS 2 NB | 8-96 |



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|-----------------------|-----------------|
| MERIDIONAL WELDS | AA THROUGH AF |
| CIRCUMFERENTIAL WELDS | B AND C |
| LIFTING LUG WELDS | L1 THROUGH L4 |
| NOZZLE TO HEAD WELDS | N6A, N6B AND N7 |

STANDARDS

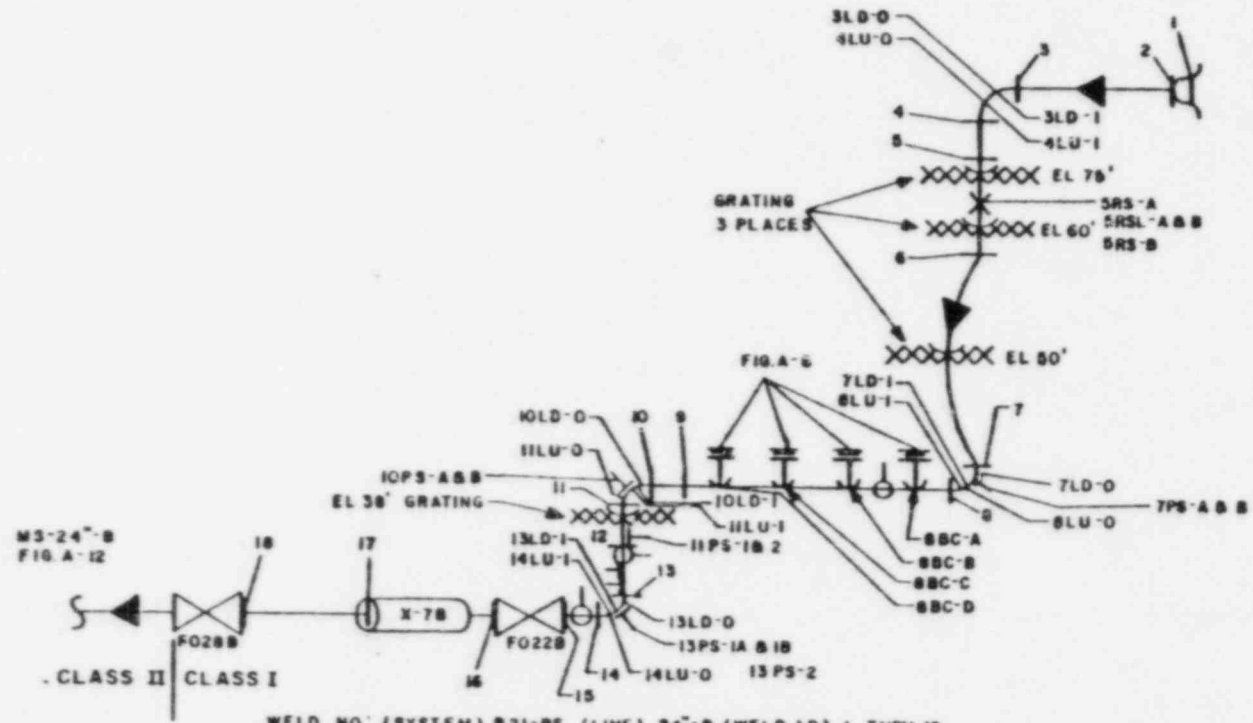
| | |
|-------------------|-------|
| RPV HEAD | 45° B |
| RPV CLOSURE STUDS | 27° B |
| RPV CLOSURE NUTS | 28° B |
| N6A-1 & N6B-1 | 34° B |
| N7-1 & B21-VENT-1 | 35° B |



CF&L R'IE'GH,NC
 ESEP 1 SOJHPORT,NC
 5-17-77

A-2

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 BSEP 1 SOUTHPORT, NC
 3-17-77



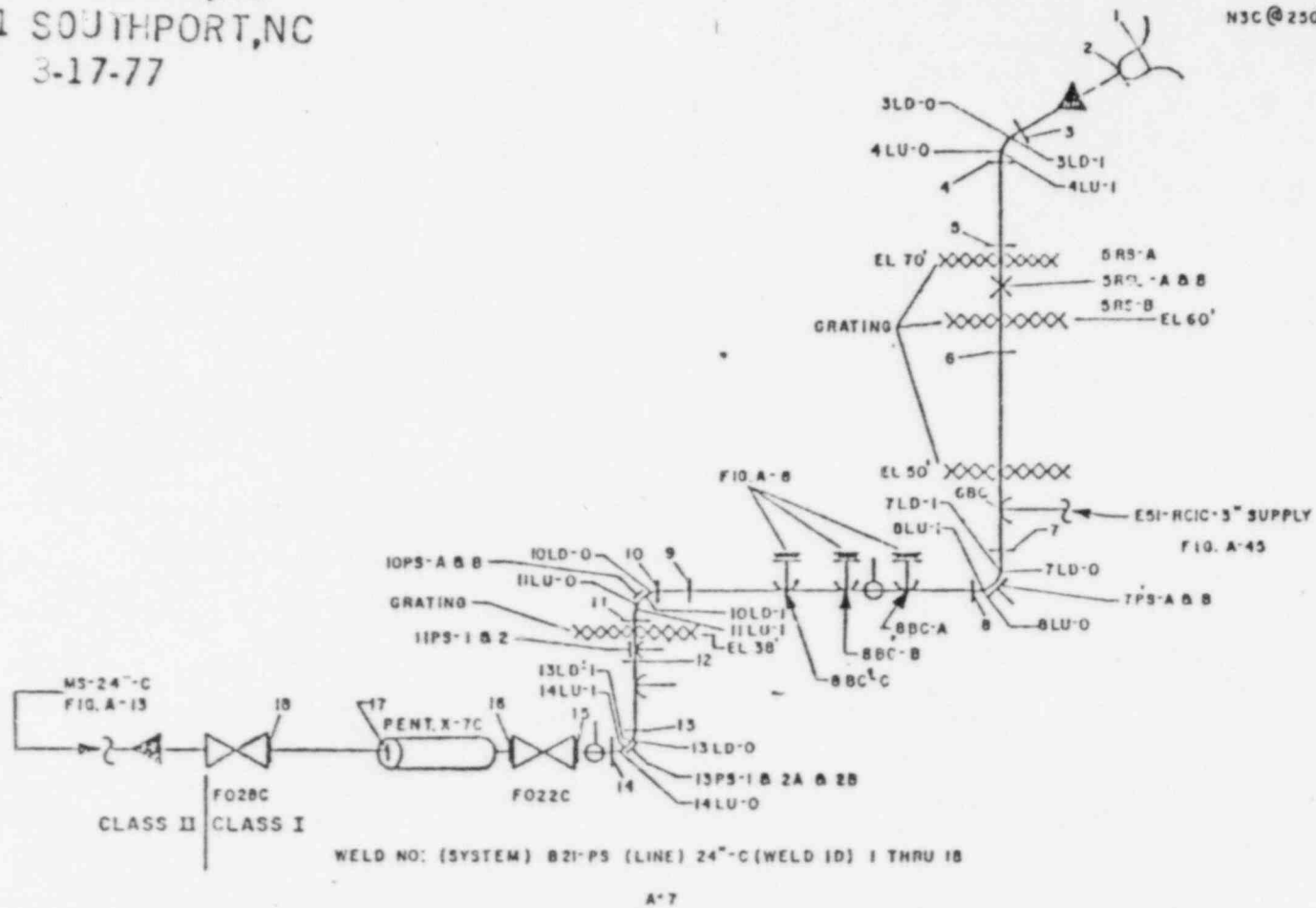
N38
 @ 105°

8-5

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | B & R REF. DRWG. | DATE |
|-------------|-------|----------|-------------------|------------------|----------------------|------------------------------|---------|
| BRUNSWICK I | 24"-B | CS | 1.37 | 24" | 18-B | B & R FSM 400 SHEET 2 & 7 | 5-31-76 |
| | | CS | 0.75 | RS | 22-B | | |

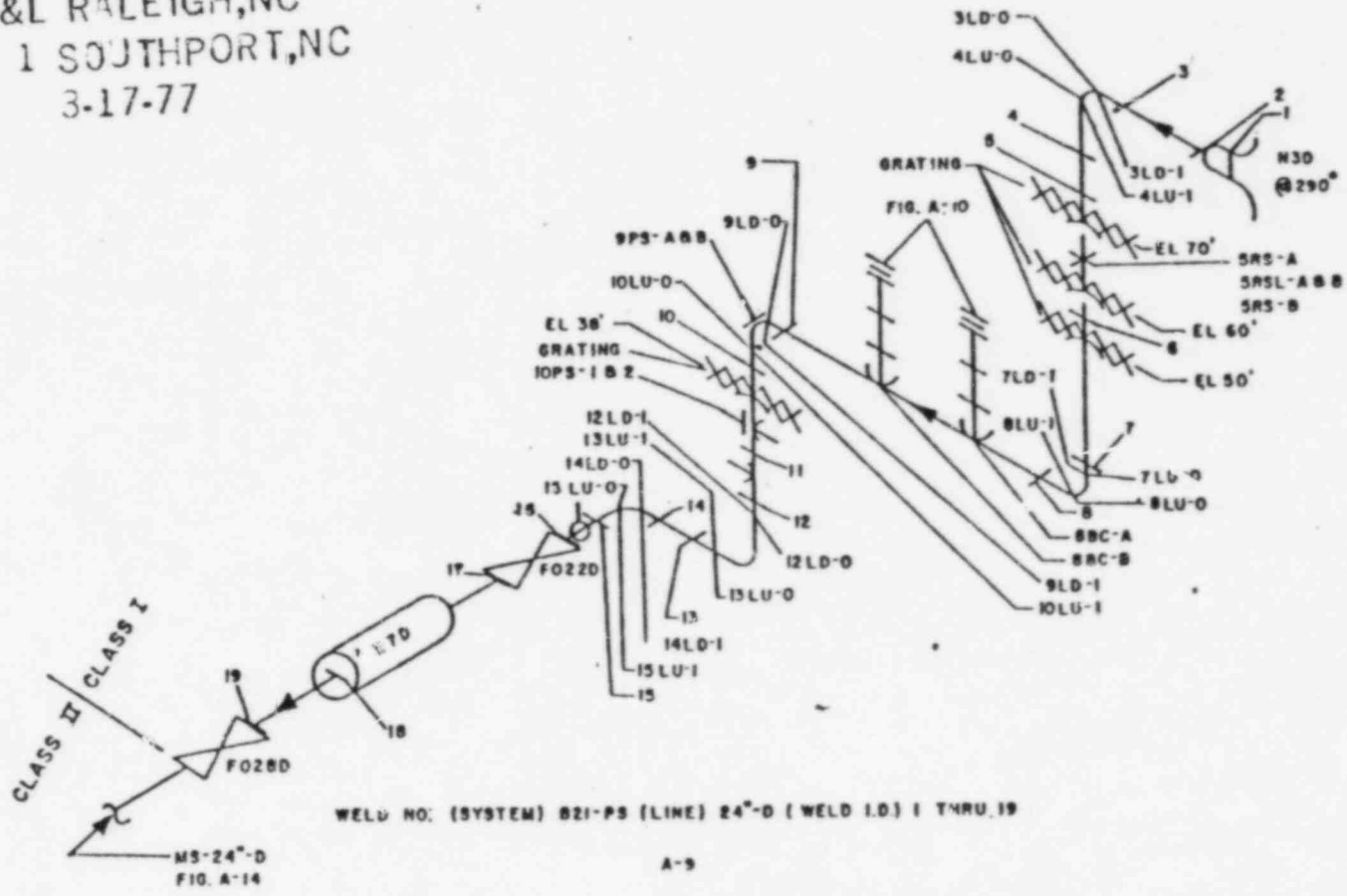
CP&L RALEIGH, NC
 BSEP 1 SOUTHPORT, NC
 3-17-77

N3C@250°



| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | BBB REF. DRWG. | DATE |
|-------------|------|----------|-------------------|------------------|----------------------|----------------------------|--------|
| BRUNSWICK I | 24-C | CS | 1.250" | 24" | 19-B | BBB FSM 400 SHEET 3 B 6 | 6-1-76 |
| | | CS | 0.75 | RS | 22-B | | |

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 BSEP 1 SOUTHPORT, NC
 3-17-77



WELD NO. (SYSTEM) 821-PS (LINE) 24"-D (WELD I.D.) 1 THRU 19

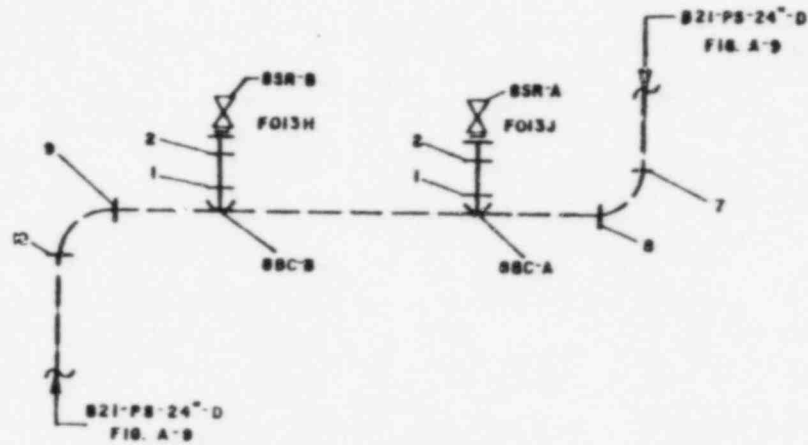
A-9

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | B & R REF. DRWG. | DATE |
|-------------|-------|----------|-------------------|------------------|----------------------|------------------------------|--------|
| BRUNSWICK I | 24"-D | C3 C5 | 1.218" 0.75" | 24" RS | 19-B 22-B | B & R FSM 400 SHEET 4 & 5 | 6-1-76 |

8-7

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 3-17-77

36' LEVEL

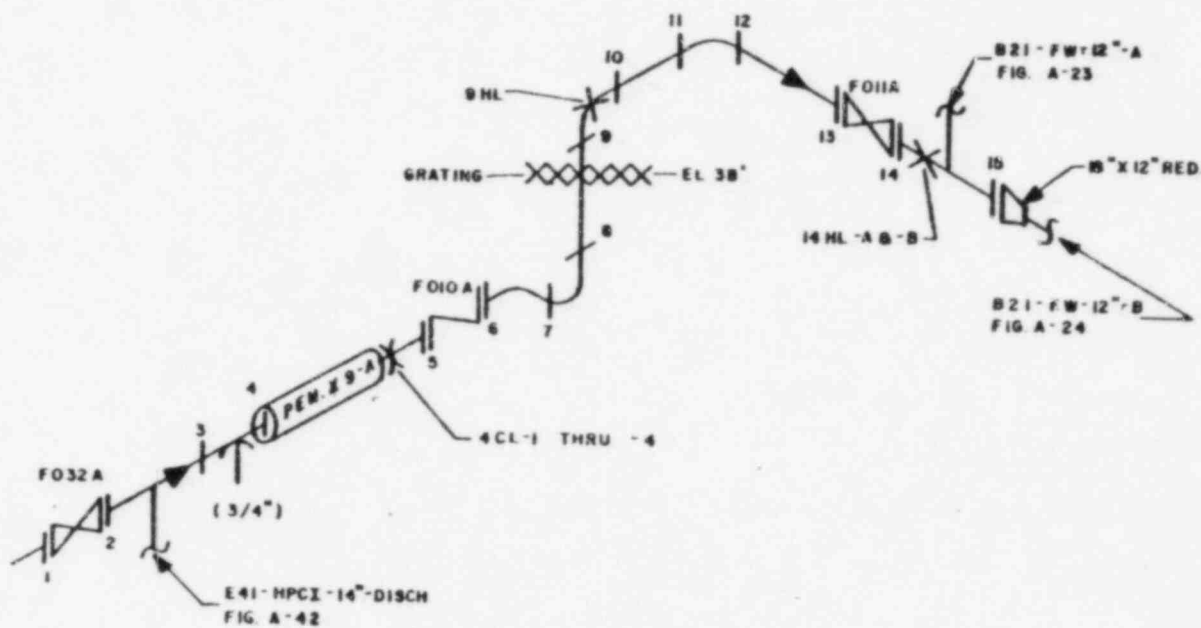


WELD NO. (SYSTEM) B21-PS-Q LOOP (LINE) 6" BSR-A AND B (WELD I.D.) 1 AND 2

A-10

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | BSR REF. DRWG. | DATE |
|-------------|-----------------|----------|-------------------|------------------|----------------------|----------------------------|--------|
| BRUNSWICK I | 6" BSR-A THRU B | CS | 0.719" | 6" | Z1-B | BSR FSM 400 SHEET 4 & 5 | 6-2-76 |

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 3-17-77

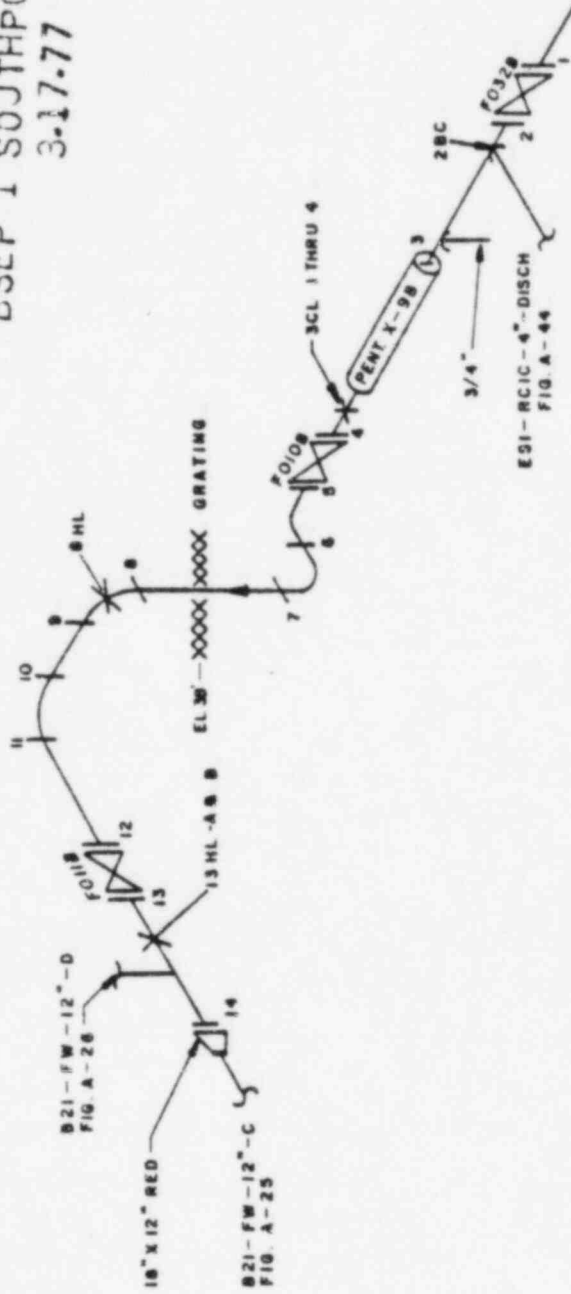


WELD NO: (SYSTEM) B21-FW (LINE) 18\"-A (WELD I.D.) 1 THRU 15

A-21

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | B & R REF. DWG | DATE |
|-------------|--------|----------|-------------------|------------------|----------------------|----------------|--------|
| BRUNSWICK I | 18\"-A | CS | 1.375" | 18" | 17-B | B & R FSM 416 | 6-4-76 |
| | | CS | 2.50" | TEES | 33-B | | |

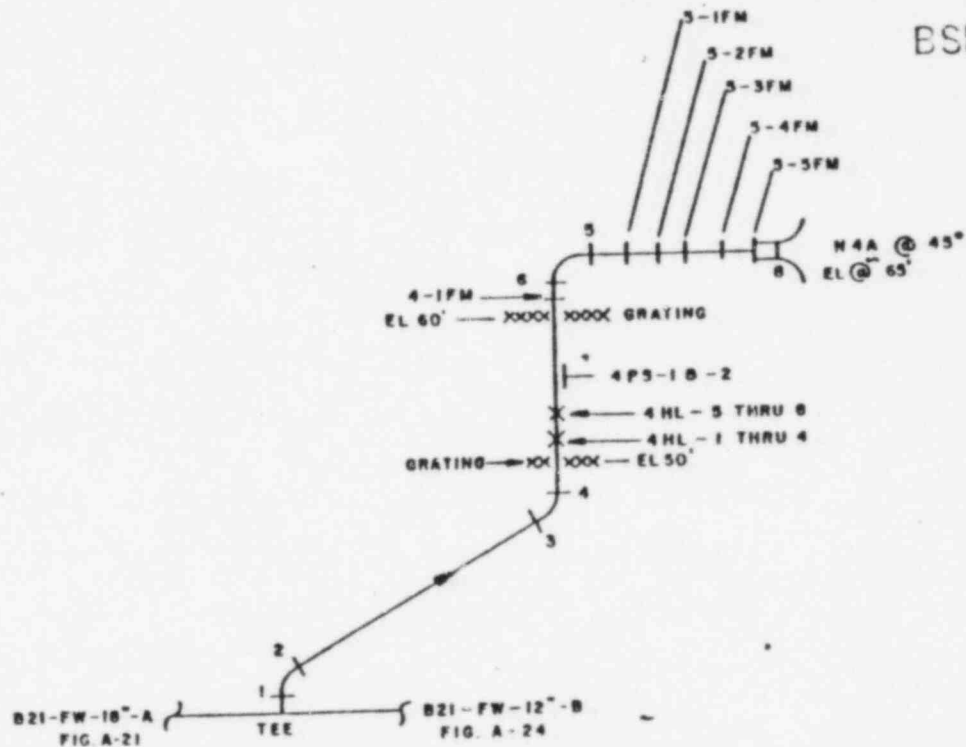
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 BSEP I SOUTHPORT, NC
 3-17-77



WELD No. (SYSTEM) 021-FW (LINE) 18"-B (WELD ID) 1 THRU 14
 A-22

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | B & R REF | DWG | DATE |
|-------------|-------|----------|-------------------|------------------|----------------------|-----------|---------|--------|
| BRUNSWICK I | 18"-B | CS | 1.375 | 18" | 17-B | B & R | FSM-416 | 6-1-76 |
| | | CC | 2.50 | 13; 13HL & -14 | 33-B | B & R | | |

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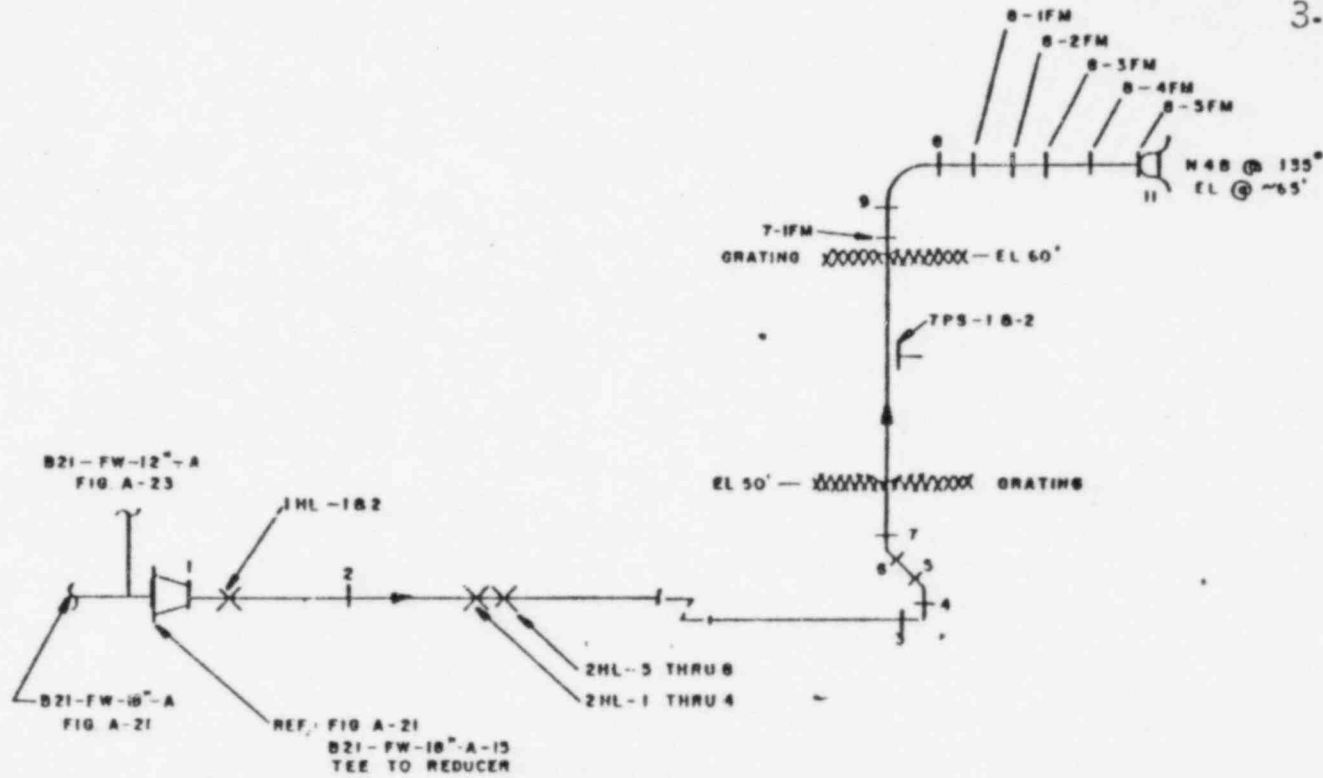


WELD No. (SYSTEM) B21-FW (LINE) 12-A (WELD ID) 1 THRU 8
 A-23

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | B & R REF DWG | DATE |
|-------------|------|----------|-------------------|------------------|----------------------|---------------|---------|
| BRUNSWICK I | 12-A | CS | 0.844" | 12" | 15-B | B & R FSM 416 | 8-1-76 |
| | | SS | 0.844" | 12" | 45-B | B & R FSM 410 | 8-16-76 |
| | | INCONEL | | 13.75" | 40-B | | 8-16-76 |

11-8

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 3-17-77

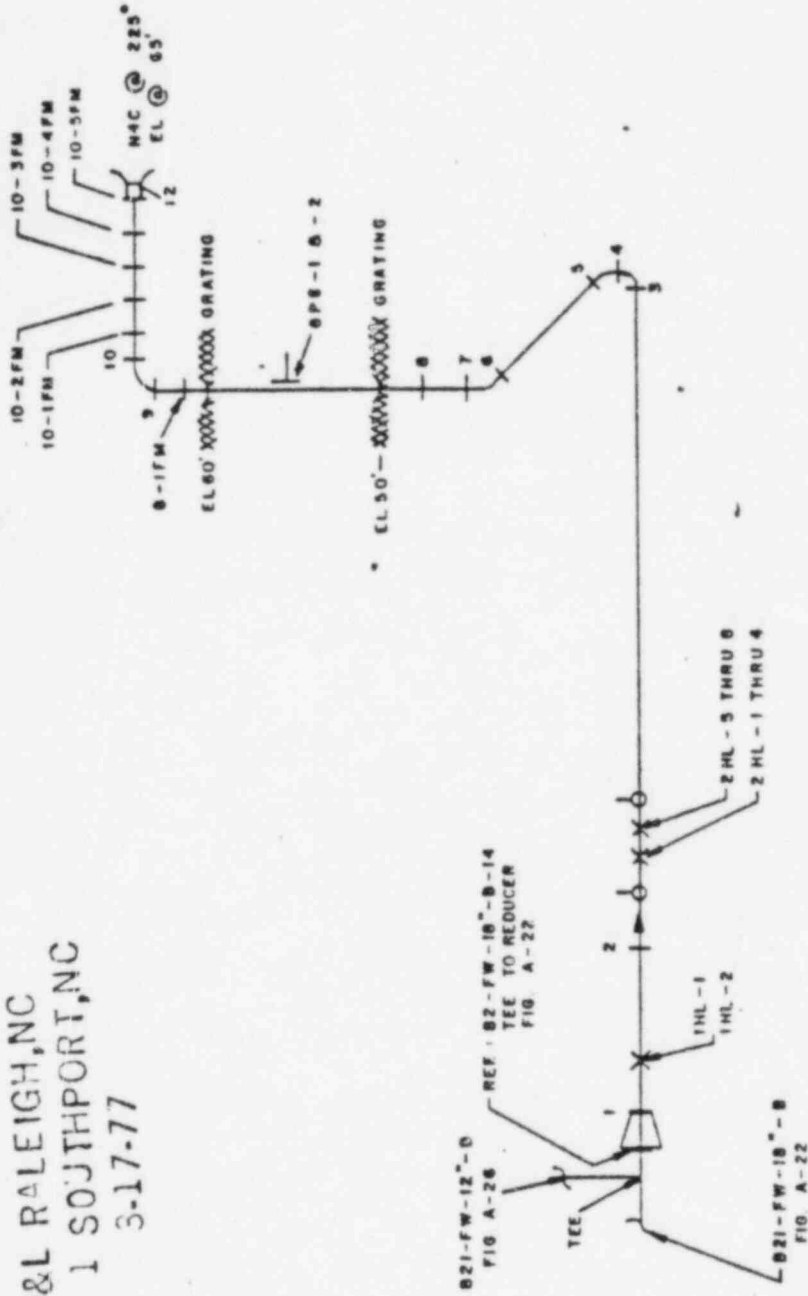


WELD No.: (SYSTEM) B21-FW (LINE) 12"-B (WEL. I.D.) 1 THRU 11
 A-24

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | B & R REF. DWG | DATE |
|-------------|-------|----------|-------------------|------------------|----------------------|-----------------|---------|
| BRUNSWICK I | 12"-B | CS | 0.844" | 12" | 15-B | B & R F 3 M 415 | 8-1-76 |
| | | SS | 0.844" | 12" | 43-B | B & R F 3 M 410 | 8-10-76 |
| | | INCONEL | | 13.75" | 32-B | | 8-15-76 |

8-12

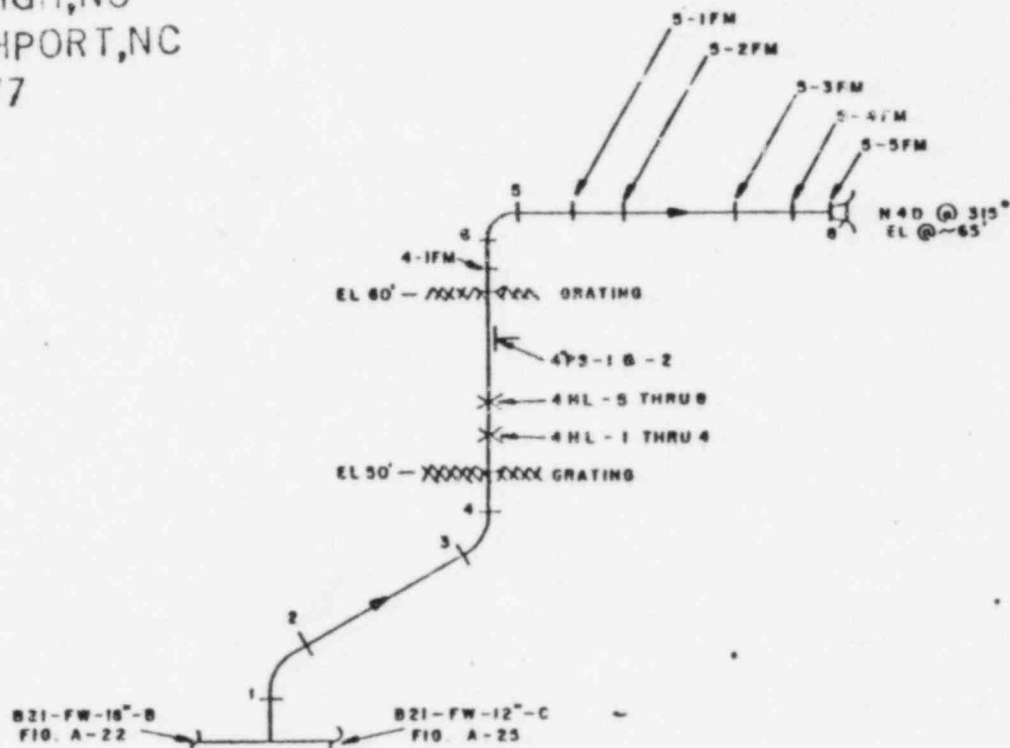
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 BSEP 1 SOUTHPORT, NC
 3-17-77



WELD No. (SYSTEM) B21-FW (LINE) 12"-C (WELD I.D.) 1 THRU 12
 A-25

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | B B R REF DWG | DATE |
|-------------|-------|----------|-------------------|------------------|----------------------|---------------|---------|
| BRUNSWICK 1 | 12"-C | CS | 0 844" | 12" | 15-B | B B R FSM 418 | 6-1-76 |
| | | INCOREL | 0 844" | 13.75" | 48-B | B B R FSM 410 | 6-18-76 |

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 3-17-77

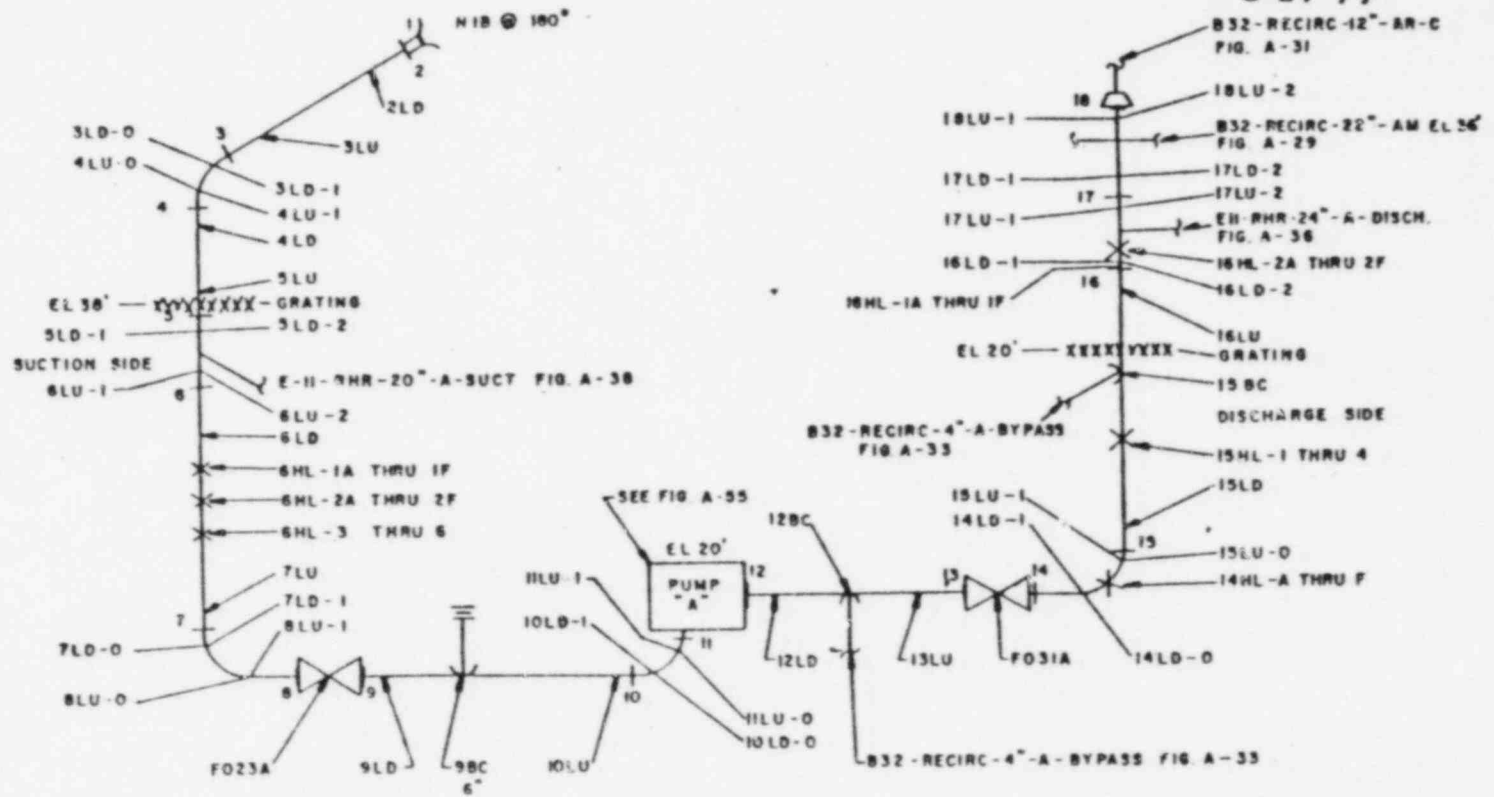


WELD No: (SYSTEM) B21-FW (LINE) 12'-D (WELD I.D.) 1 THRU 8
 A-26

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | B & R REF DWG. | DATE |
|-------------|-------|----------|-------------------|------------------|----------------------|----------------|---------|
| BRUNSWICK I | 12'-D | CS | 0.844" | 12" | 15-B | B & R FSM 416 | 6-2-75 |
| | | SS | 0.844" | 12" | 43-B | B & R FSM 410 | 8-16-76 |
| | | INCOEL | | 13.75" | 48-B | | 9-16-76 |

8-14

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 3-17-77

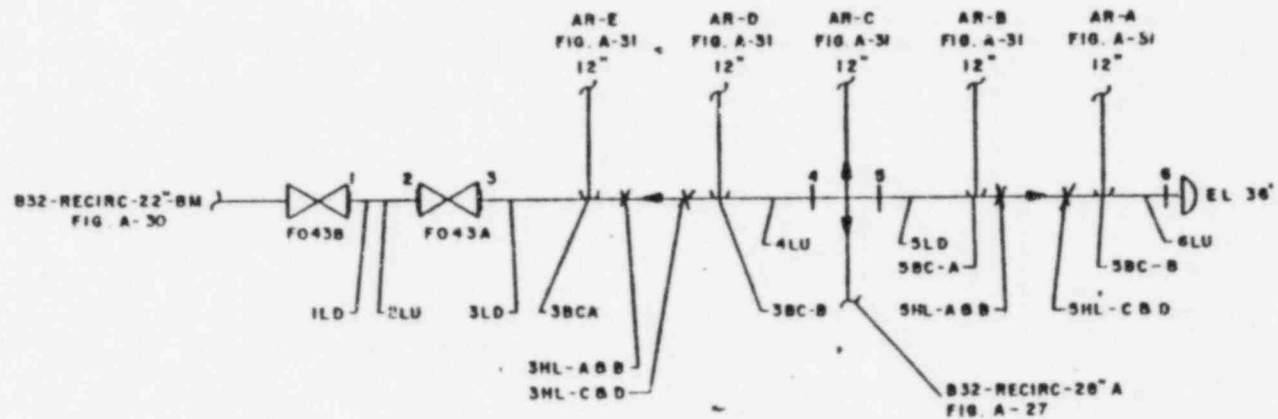


WELD No. (SYSTEM) B32-RECIRC (LINE) 28"-A (WELD I.D.) 1 THRU 18
 A-27

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | B & R REF DWG | DATE |
|-------------|-------|----------|-------------------|------------------|----------------------|-----------------------------|--------|
| BRUNSWICK I | 28"-A | SS | 1.51" | 28" | 9-B | B & R FSM 402 SHEET 1B 2 | 6-2-76 |
| | | SS | 3.0" | 28" TEES/CROSS | 46-B | | |

8-15

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 3-17-77

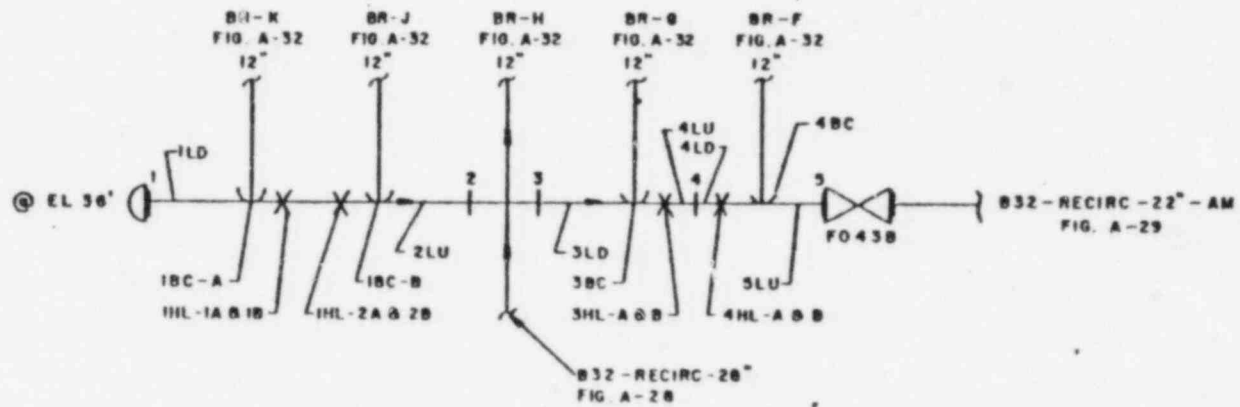


WELD No. (SYSTEM) B-32 RECIRC (LINE) 22"-AM (WELD ID) 1 THRU 8
 A-29

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | B&R REF. DWG. | DATE |
|-------------|--------|----------|-------------------|------------------|----------------------|---------------------------|--------|
| BRUNSWICK I | 22"-AM | SS | 1.030" | 22" | 7-B | B&R FSM 402 SHEET 10 2 | 8-3-76 |

8-17

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 3-17-77

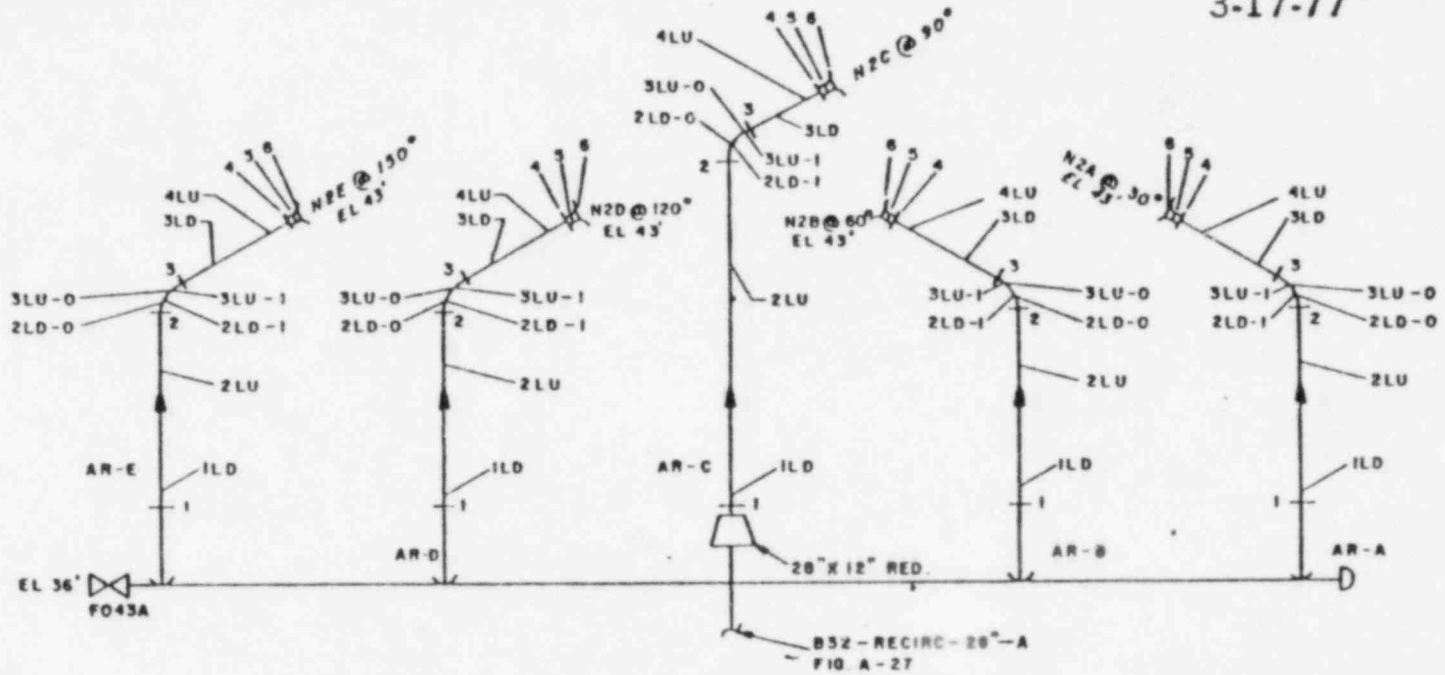


WELD No. (SYSTEM) B-32-RECIRC. (LINE) 22"-BM (WELD I.D.) (THRU B
 A-30

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | BBR REF DWG. | DATE |
|-------------|--------|----------|-------------------|------------------|----------------------|----------------------------|--------|
| BRUNSWICK I | 22"-BM | SS | 1.038" | 22" | 7-B | BBR FSM 401 SHEET 1 & 2 | 6-4-76 |

81-8

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 3-17-77

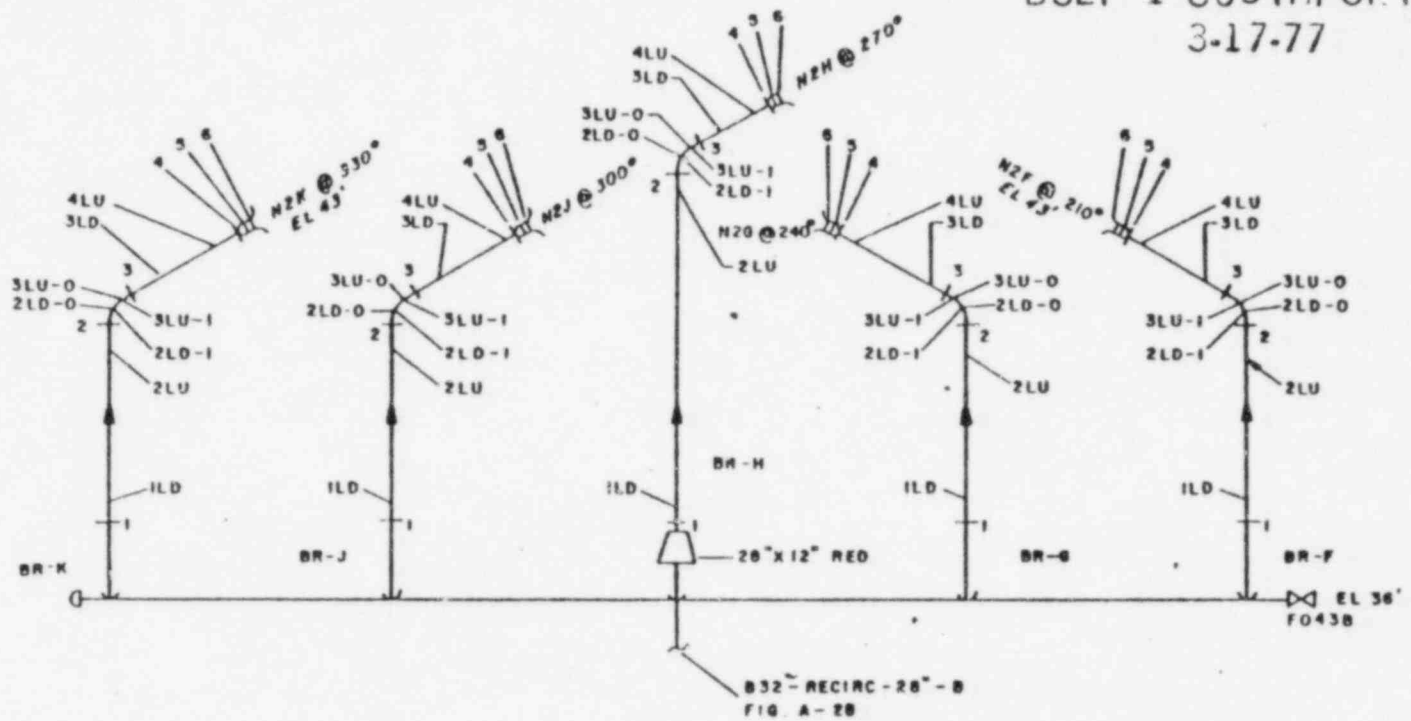


WELD No (SYSTEM) B52-RECIRC (LINE) 12"-AR-A,-B,-C,-D,-E (WELD I.D.) 1 THRU 8
 A-31

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | B & R REF. DWG. | DATE |
|-------------|----------------------|----------|-------------------|------------------|----------------------|------------------------------|--------|
| BRUNSWICK I | 12"-AR-A,-B,-C,-D,-E | SS SS | 0.631" 0.644" | 12" N-SE | 5-B 43-B | B & R FSN 402 SHEET 1 & 2 | 6-5-76 |

61-8

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 3-17-77



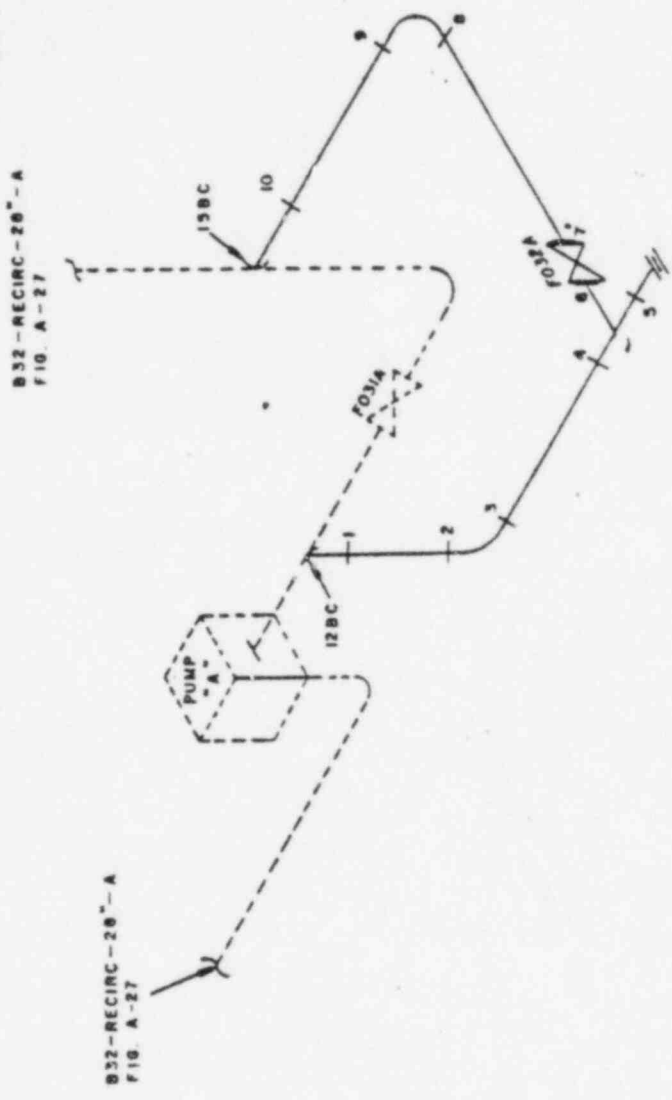
WELD No. (SYSTEM) B32 RECIRC (LINE) 12\"-BR-F, G-H-J-K
 (WELD ID.) 1 THRU 6

A-52

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | B & R REF DWG | DATE |
|-------------|-------------------|----------|-------------------|------------------|----------------------|---------------|--------|
| BRUNSWICK I | 12\"-BRF, G-H-J-K | SS | 0.631" | 12" | 5-B | B & R FSM 401 | C-3-75 |
| | | SS | 0.844" | N-SE | 43-B | SHEET 1 & 2 | |

8-20

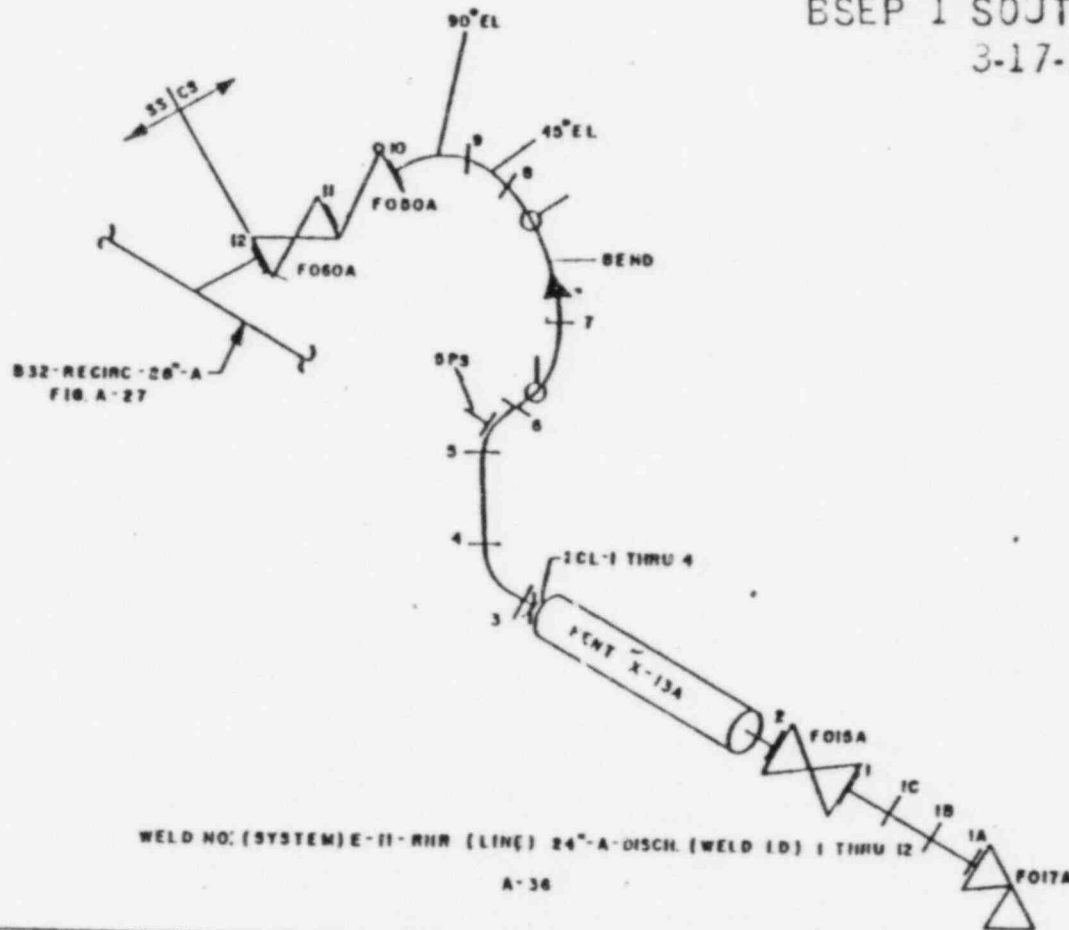
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 3-17-77



WELD No: (SYSTEM) B32-RECIRC (LINE) 4"-A-BYPASS (WELD I.D.) 1 THRU 10
 A-33

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | BGR REF. DWG. | DATE |
|-------------|-------------|----------|-------------------|------------------|----------------------|----------------------------|--------|
| BRUNSWICK I | 4"-A-BYPASS | SS | 0.337" | 4" | 2-B | BGR FSM 402 SHEET 1 B.2 | 6-4-76 |

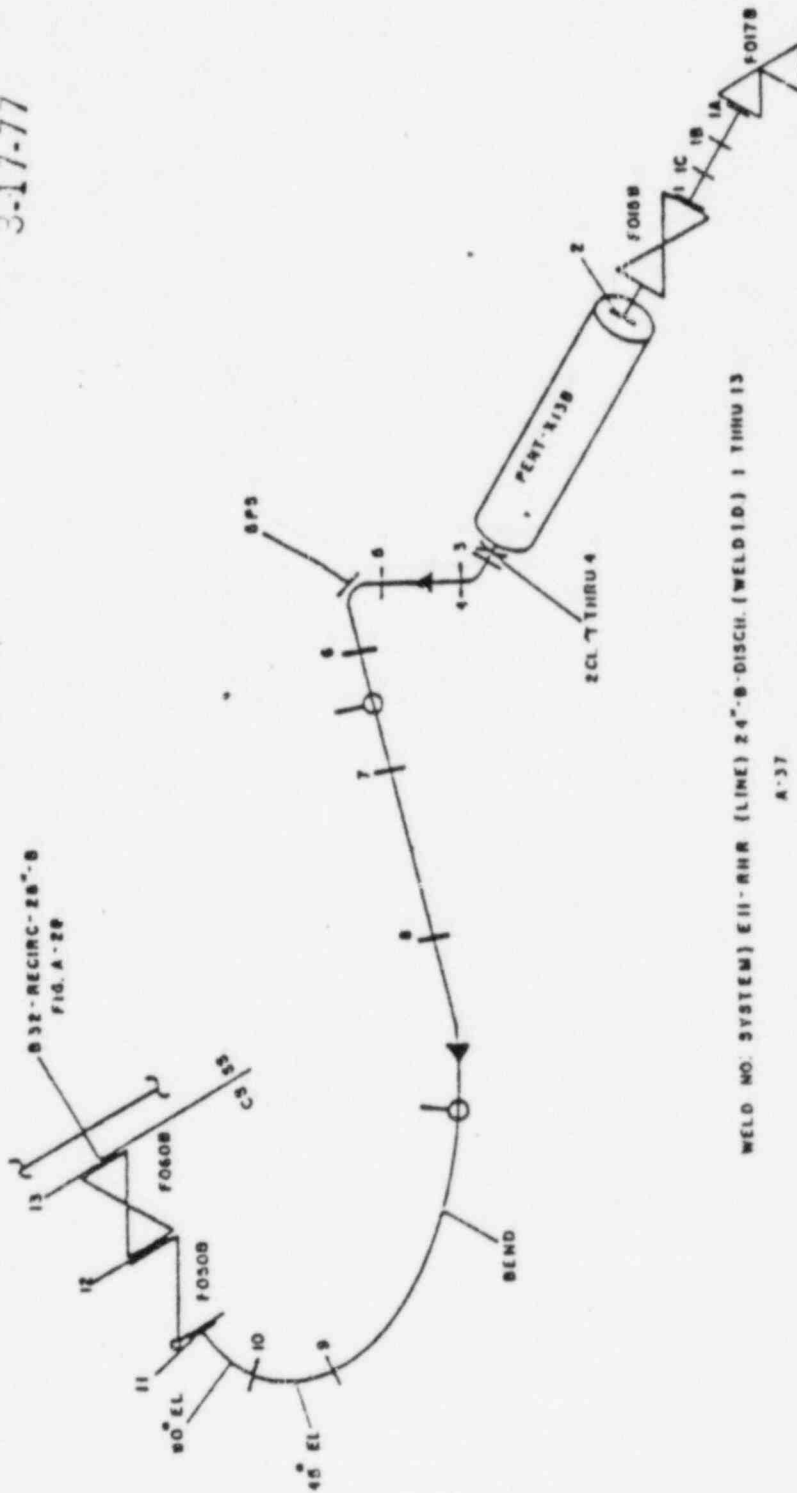
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 3-17-77



WELD NO. (SYSTEM) E-11-RHR (LINE) 24-A-DISCH. (WELD ID) 1 THRU 12
 A-36

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | SS R REF. DWG. | DATE |
|-------------|------------|----------|-------------------|------------------|----------------------|----------------|--------|
| BRUNSWICK I | 24-A-DISCH | CS | 1.531 | 24" | 20-B | DR FSM 404 | 8-4-76 |
| | | SS | 1.151 | 28" | 9-B | | |

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 3-17-77

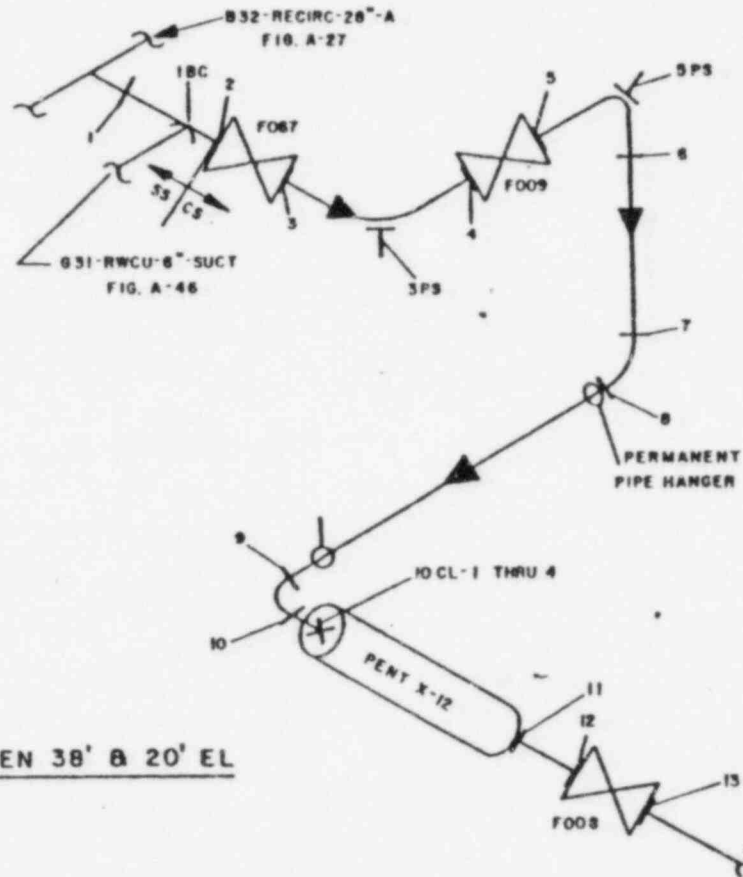


B 32-RECIRC-28"-B
 FIG. A-29

WELD NO. SYSTEM) E11-RHR (LINE) 24"-B-DISCH. (WELDED) I THRU 13
 A-37

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STAND. NO | B B F REF DWG. | DATE |
|-------------|--------------|----------|-------------------|------------------|-----------------------|----------------|--------|
| BRUNSWICK I | 24"-B-DISCH. | CS | 1.631" | 24" | 20-B | B B R FSM 403 | 8-5-75 |
| | | SS | 1.151" | 28" | 9-B | | |

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 3-17-77



BETWEEN 38' & 20' EL

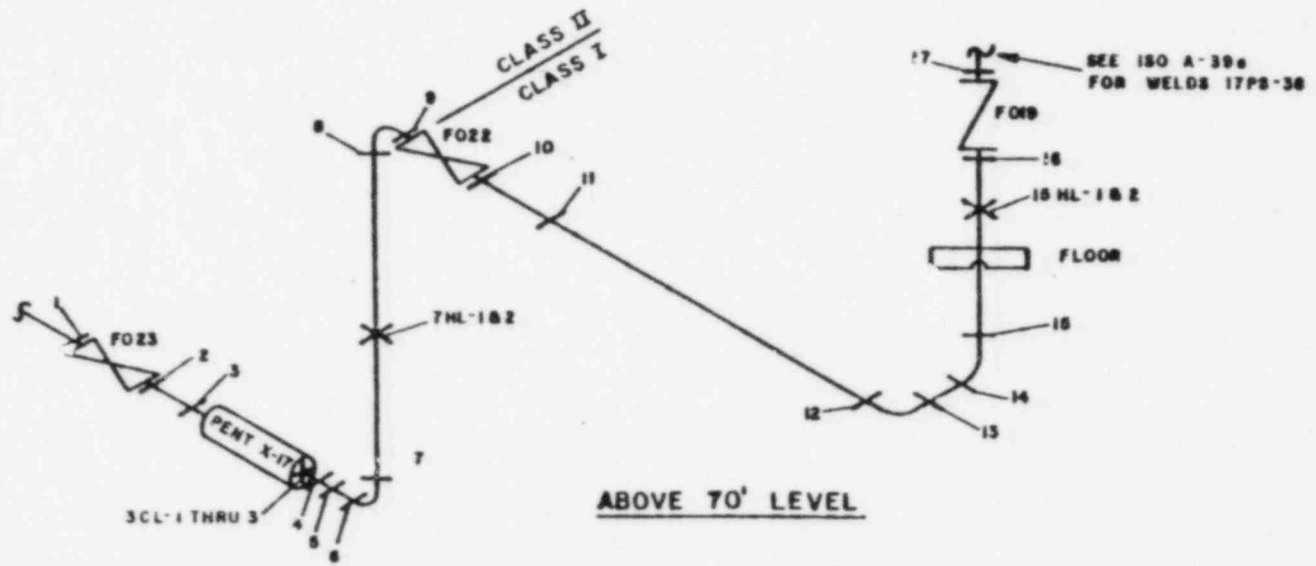
WELD NO: (SYSTEM)E11-RIR (LINE)20\"/>

A-38

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | d & R REF DWG. | DATE |
|-------------|--------|----------|-------------------|------------------|----------------------|----------------|------|
| BRUNSWICK I | 20\"/> | | | | | | |

B-24

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 3-17-77

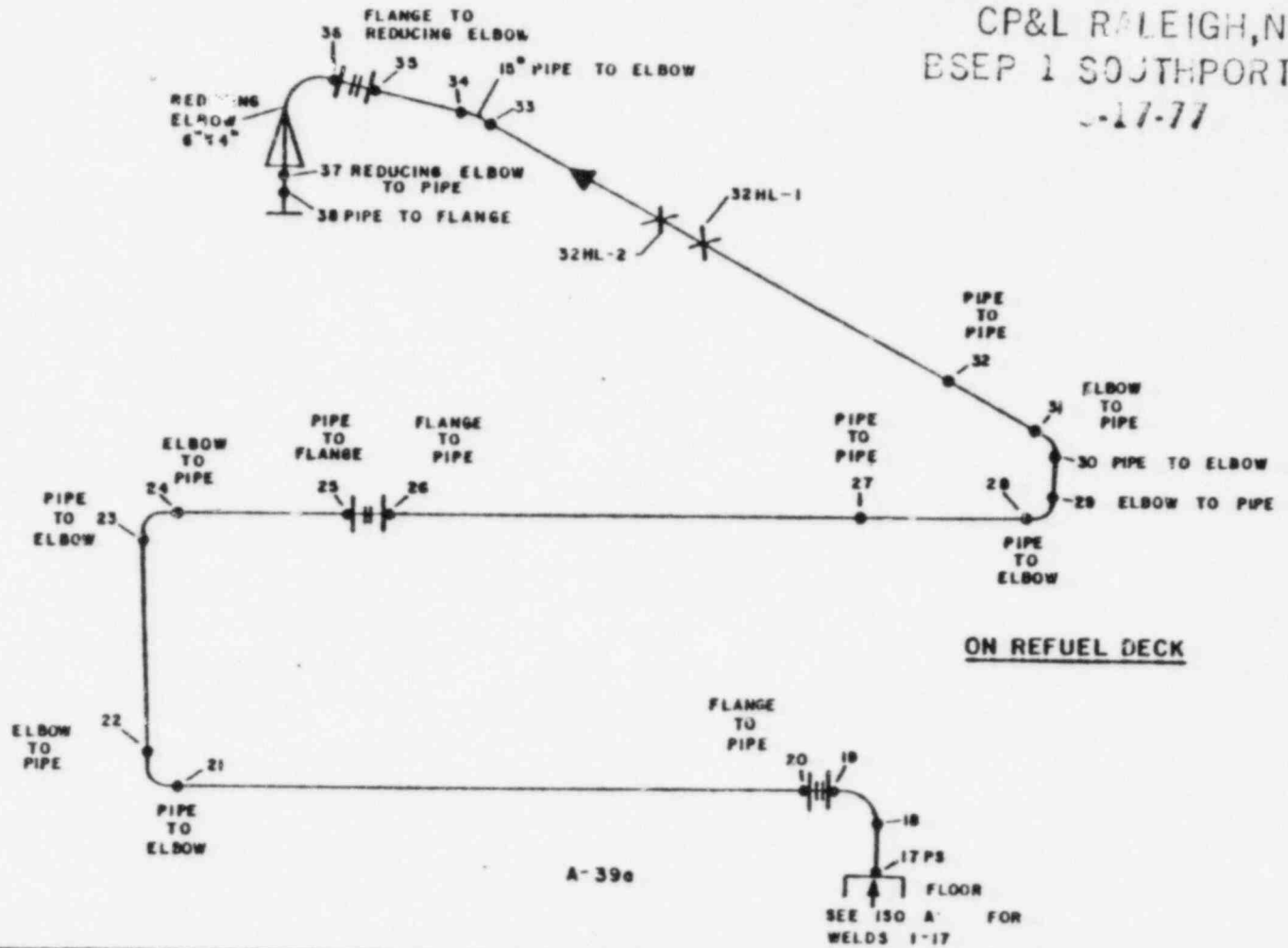


WELD NO: (SYSTEM) EII-RHR (LINE) 4" DISCH. (WELD I.D.) 1 THRU 17

A-39

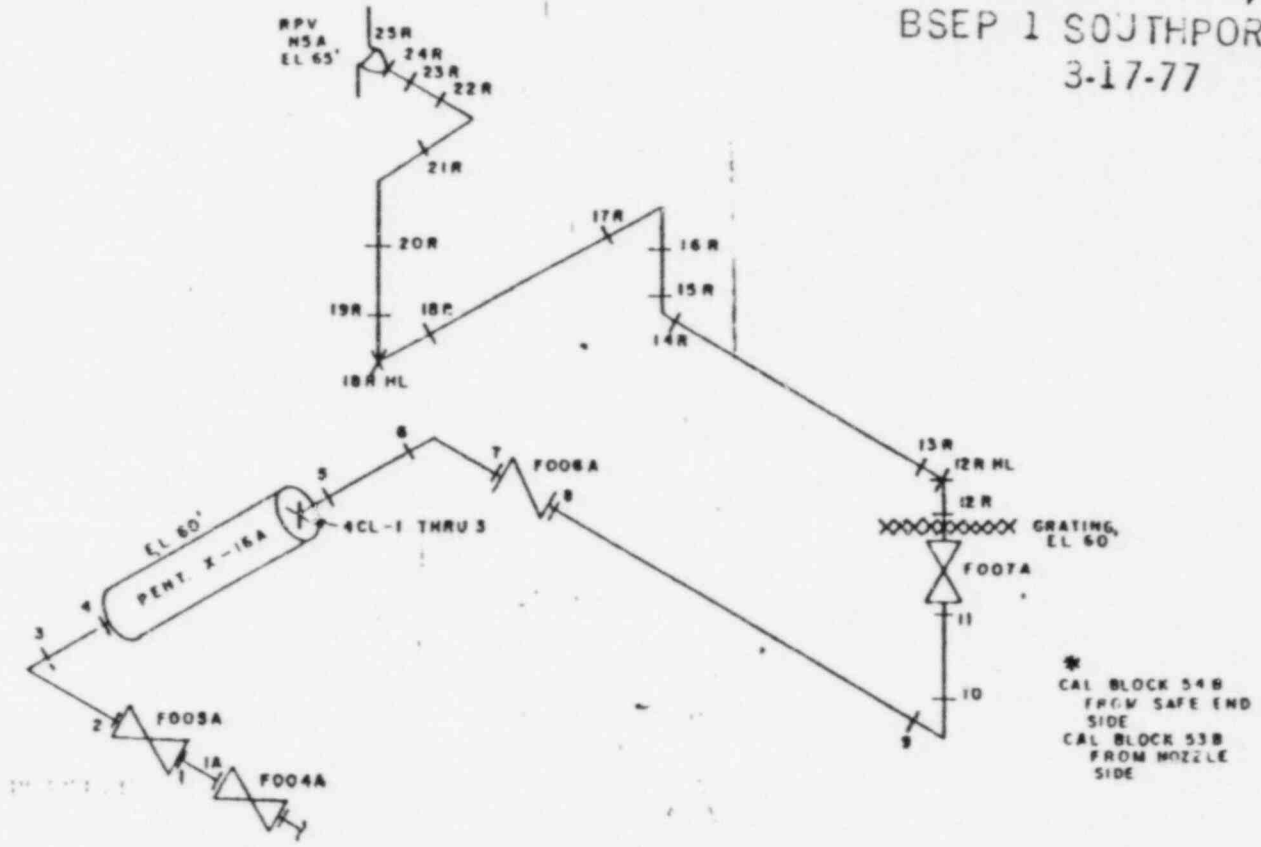
| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | B & R REF. DWG. | DATE |
|-------------|----------|----------|-------------------|------------------|----------------------|-----------------|--------|
| BRUNSWICK I | 4" DISCH | CS | 0.337" | 4" | 11-B | B & R FSM 406 | 6-4-76 |
| | | CS | 0.438" | 6" | 12-B | | |

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 -17-77



| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | BBR REF. DWG. | DATE |
|-------------|-----------|----------|-------------------|------------------|----------------------|---------------|--------|
| BRUNSWICK I | 4" DISCH. | CB | 0.337" | 4" | 11-B | BBR FSM 406 | 6-4-76 |
| | | CS | .435" | 6" | 12-B | | |

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 BSEP 1 SOUTHPORT, NC
 3-17-77



* CAL BLOCK 54B
 FROM SAFE END
 SIDE
 CAL BLOCK 53B
 FROM NOZZLE
 SIDE

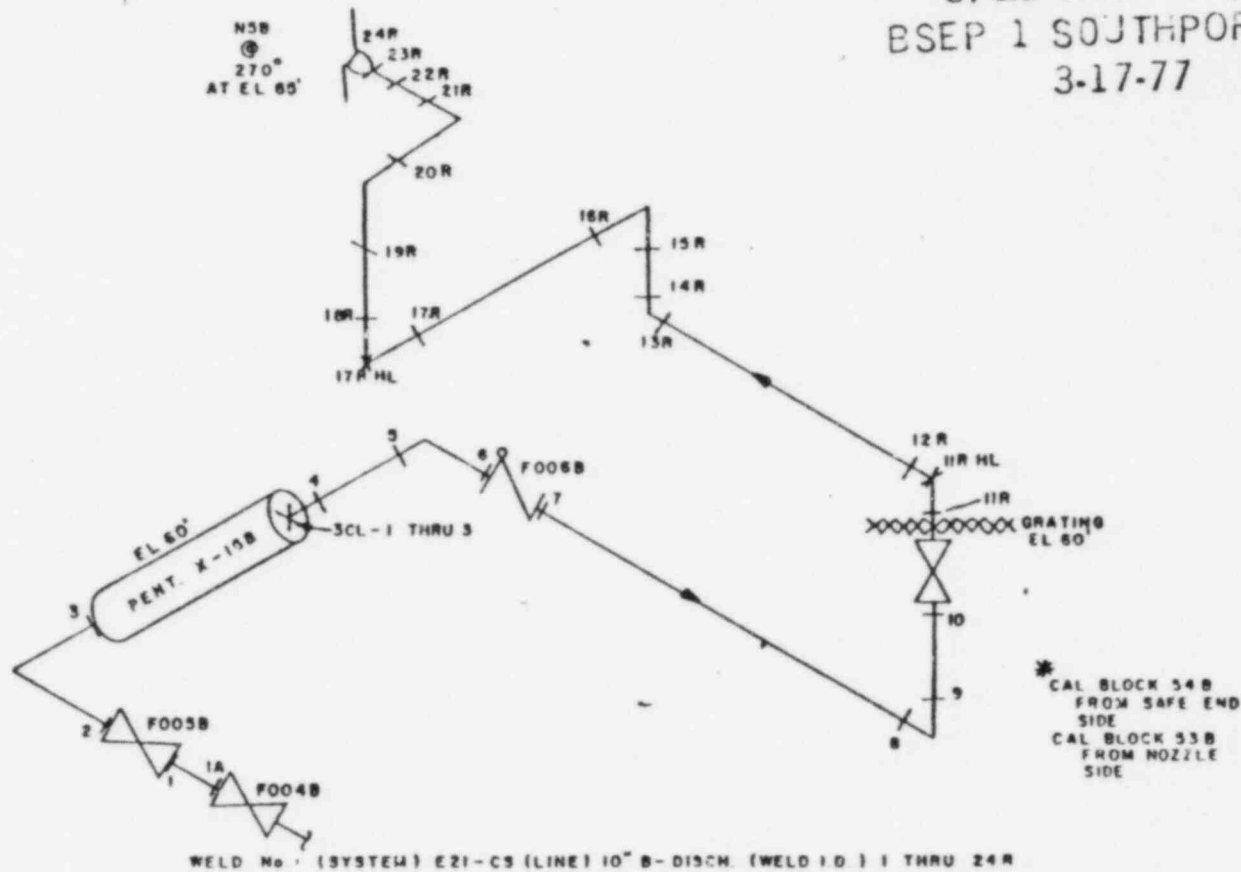
WELD No. (SYSTEM) E21-CS (LINE) 10" A-DISCH. (WELD I.D.) 1 THRU 25R
 A-40

8-27

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIFICATION STANDARD | BBR REF. DWG. | DATE |
|-------------|------------------|----------|-------------------|------------------|-----------------------|---------------|--------|
| BRUNSWICK I | 10" - A - DISCH. | CS | 0.593" | 10" | 13-B | NBR FSM 410 | 8-7-76 |
| | | CS | 0.594" | 10" | 52-B* | | |

8-28

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 3-17-77

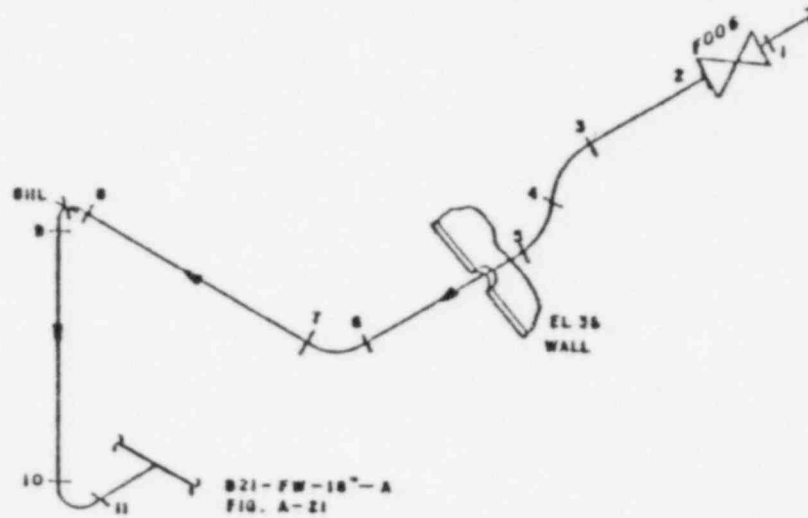


A-41

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | B&R REF DWG. | DATE |
|-------------|-----------------|----------|-------------------|------------------|----------------------|--------------|--------|
| BRUNSWICK I | 10" B-DISCHARGE | CS CS | 0.593" 0.594" | 10" 10" | 13-B 52-B | B&R FSM 411 | 6-7-76 |

VALID THROUGH 07-23-85

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 3-17-77



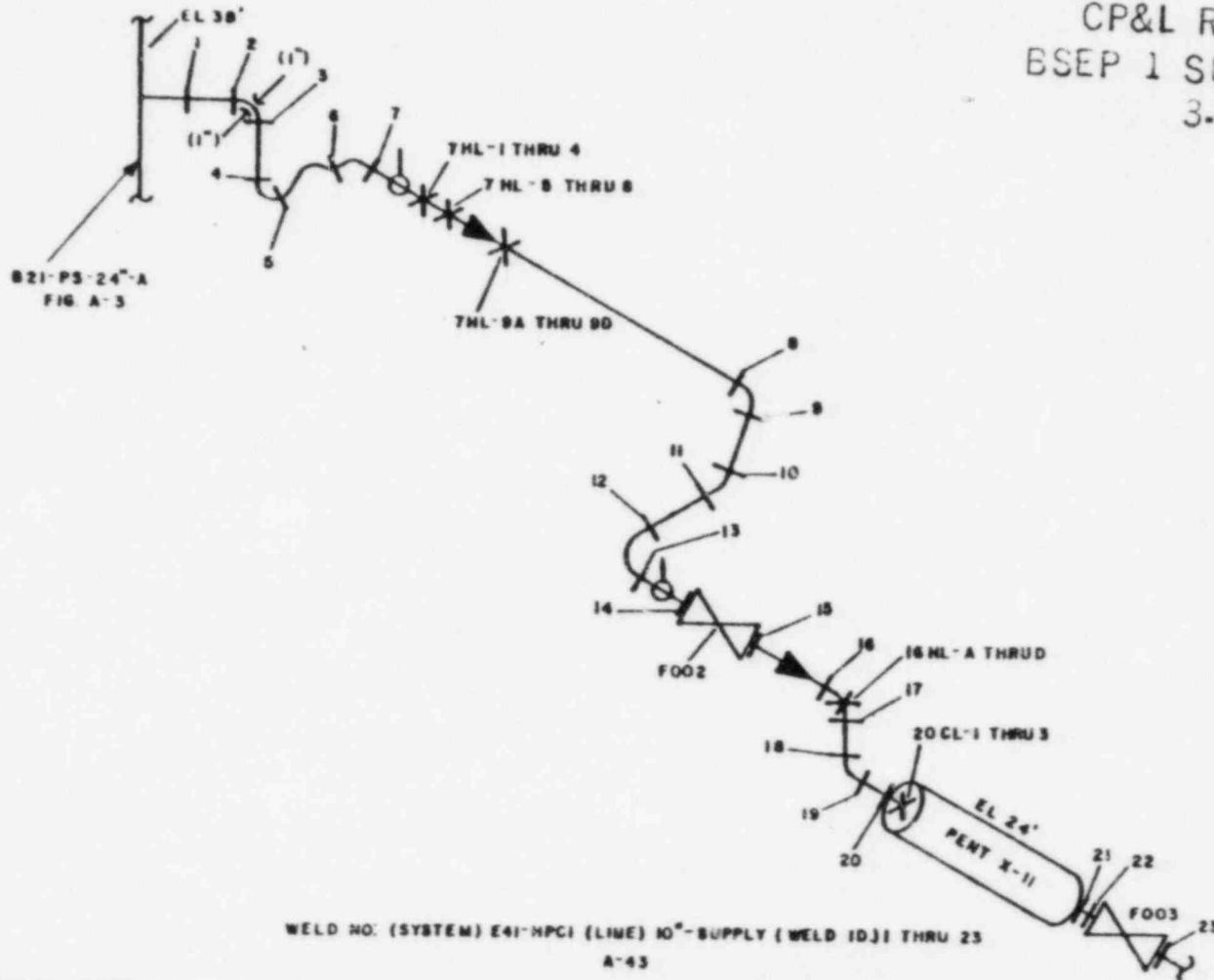
MSIV PIT
 EL 20'

WELD No. [SYSTEM] E41-HPGI [LINE] 14"-DISCH [WELD I.D.] I THRU II
 A-42

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | B&R REF. DWG | DATE |
|-------------|------------|----------|-------------------|------------------|----------------------|--------------|--------|
| DRUNSWICK I | 14" DISCH. | CS | 1.093" | 14" | 18-D | B&R FSM 412 | 6-7-76 |

8-29

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 3-17-77

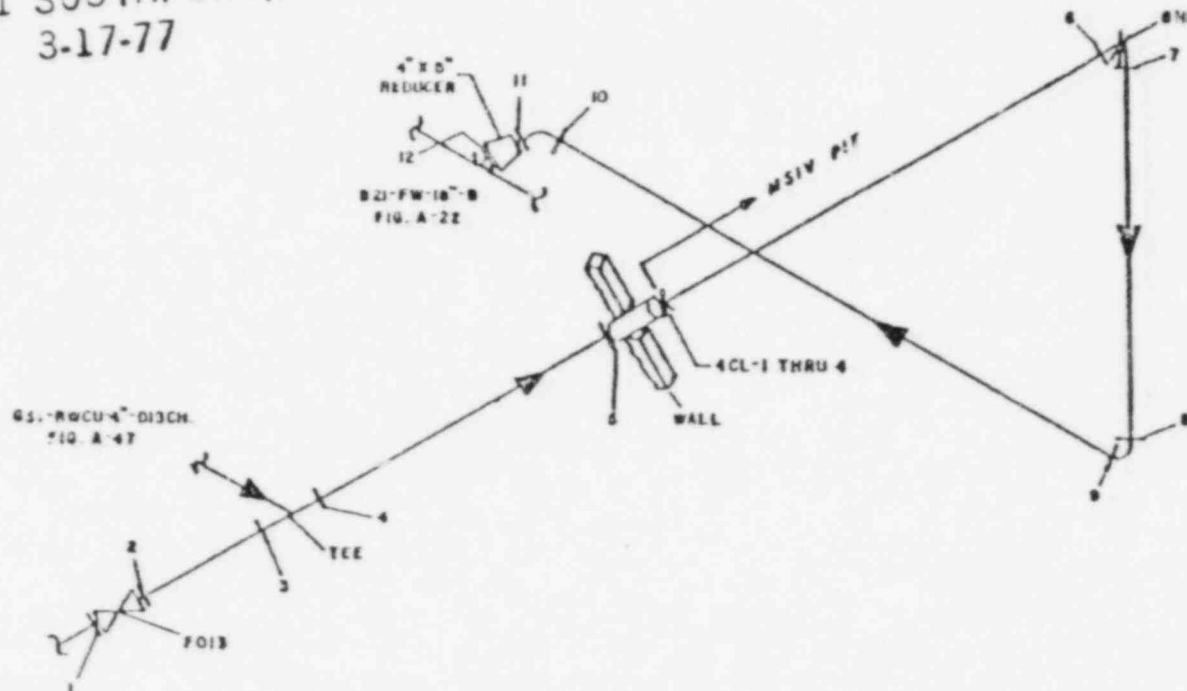


WELD NO: (SYSTEM) E41-NPCI (LINE) 10"-SUPPLY (WELD ID) 1 THRU 23
 A-43

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | BBR REF. DWG. | DATE |
|-------------|------------|----------|-------------------|------------------|----------------------|---------------|--------|
| BRUNSWICK I | 10"-SUPPLY | CS | 0.718" | 10" | 14-B | BBR FSM 414 | 6-7-76 |

VALID THROUGH 07-17-85

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 3-17-77



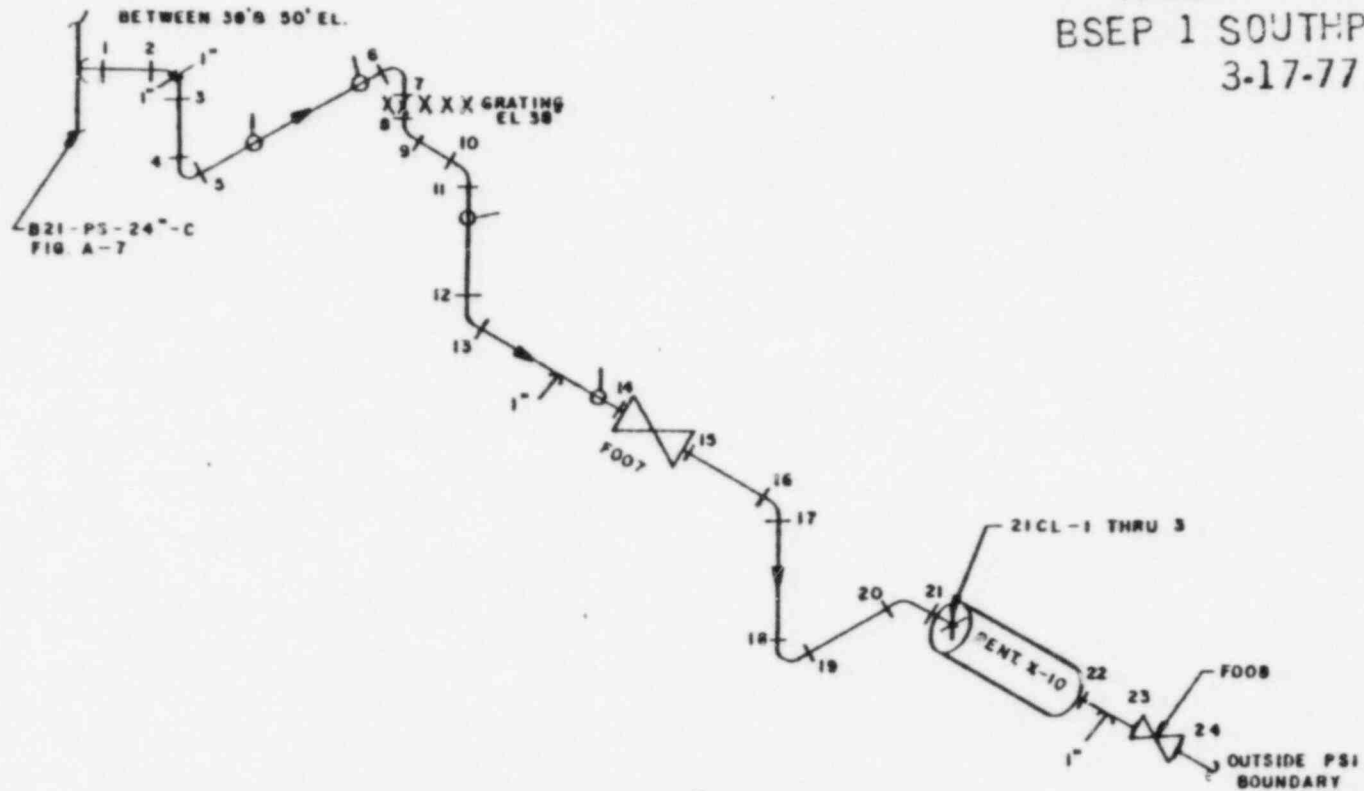
WELD NO. (SYSTEM) ESI-RCIC (LINE) 4" DISCH. (WELD ID) 1 THRU 12

A-44

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | BAR REF. DWG. | DATE |
|-------------|-----------|----------|-------------------|------------------|----------------------|---------------|--------|
| BRUNSWICK 1 | 4" DISCH. | CS | 0.438" | 4" | 12-B | BAR FSM 424 | 6-7-70 |
| | | CS | 0.732" | 5" | 21-B | | |

8-31

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 BSEP 1 SOUTHPORT, NC
 3-17-77

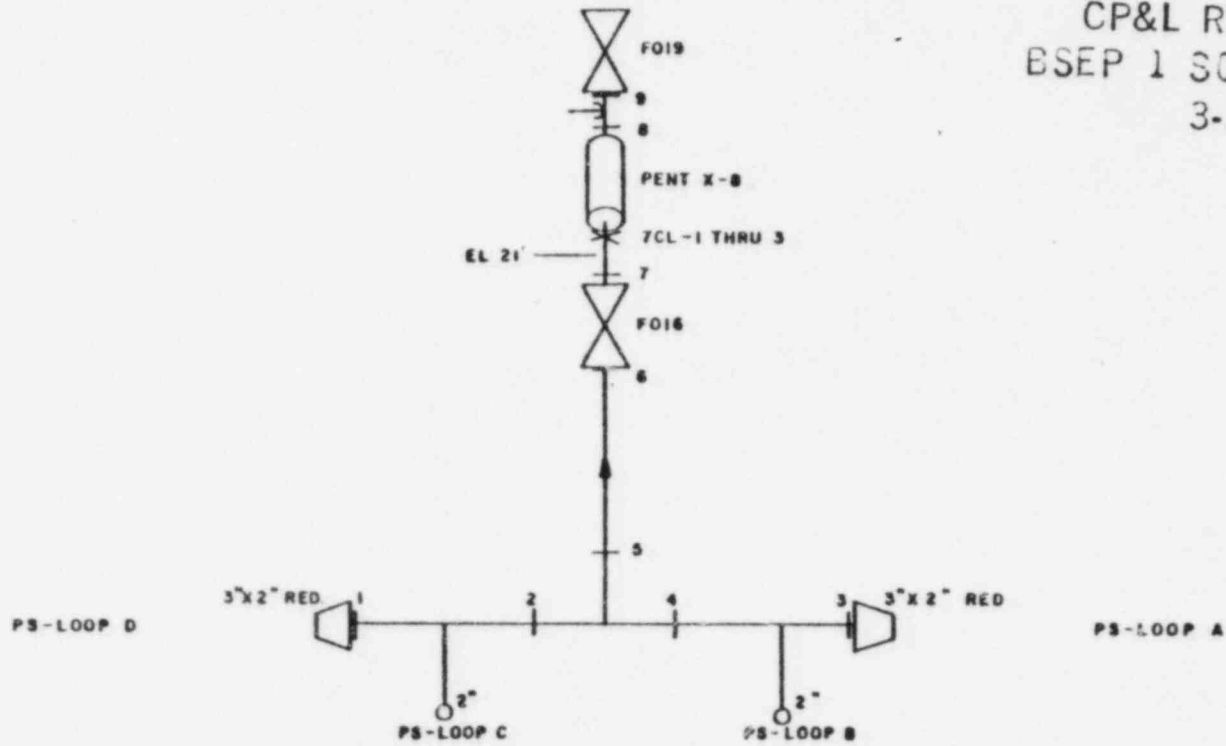


WELD No. (SYSTEM) E51-RCIC (LINE) 3"-SUPPLY (WELD ID) 1 THRU 24
 A-45

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | BBR REF. DWG. | DATE |
|-------------|-----------|----------|-------------------|------------------|----------------------|---------------|--------|
| BRUNSWICK I | 3" SUPPLY | CS | 0.438" | 3" | 10-B | BBR FSM 407 | 6-8-76 |

8-33

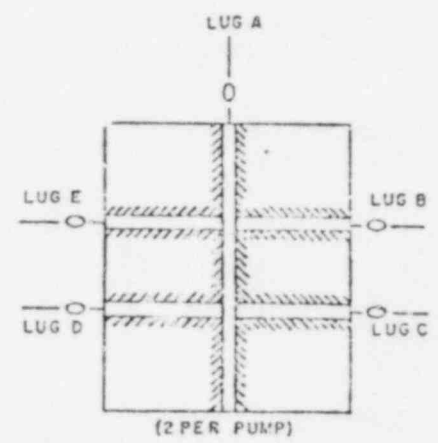
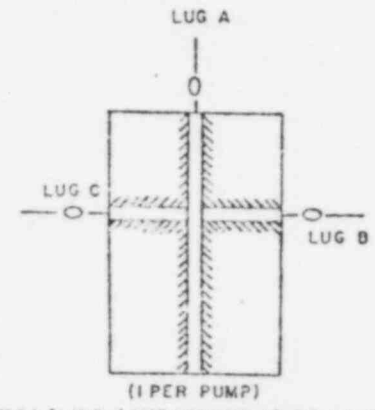
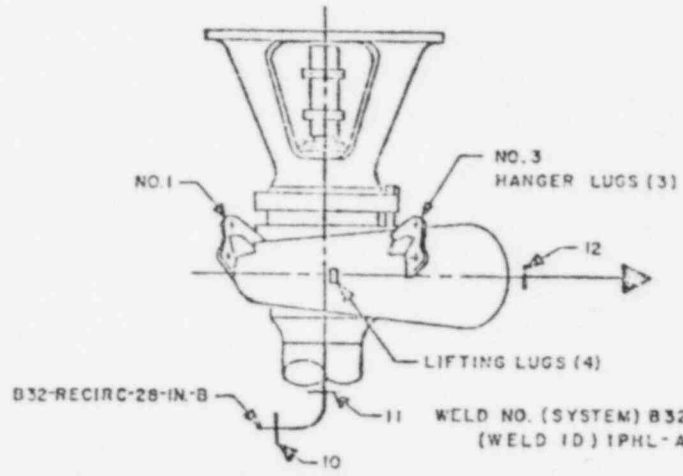
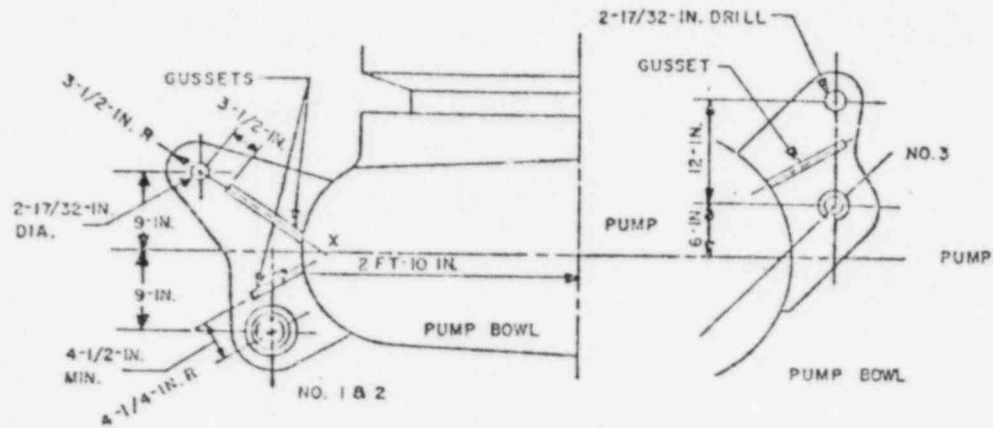
CP&L RALEIGH, NC
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 3-17-77



WELD No. (SYSTEM) B-21 CONDENSATE DRAIN (LINE) 5\"/>

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | B & R REF. DWG | DATE |
|-------------|------|----------|-------------------|------------------|----------------------|----------------|--------|
| BRUNSWICK I | 3" | CS | 0.438" | 3" | 10-B | B & R FSM 468 | 6-8-76 |
| | | CS | 0.750" | 3" | 38-B | | |

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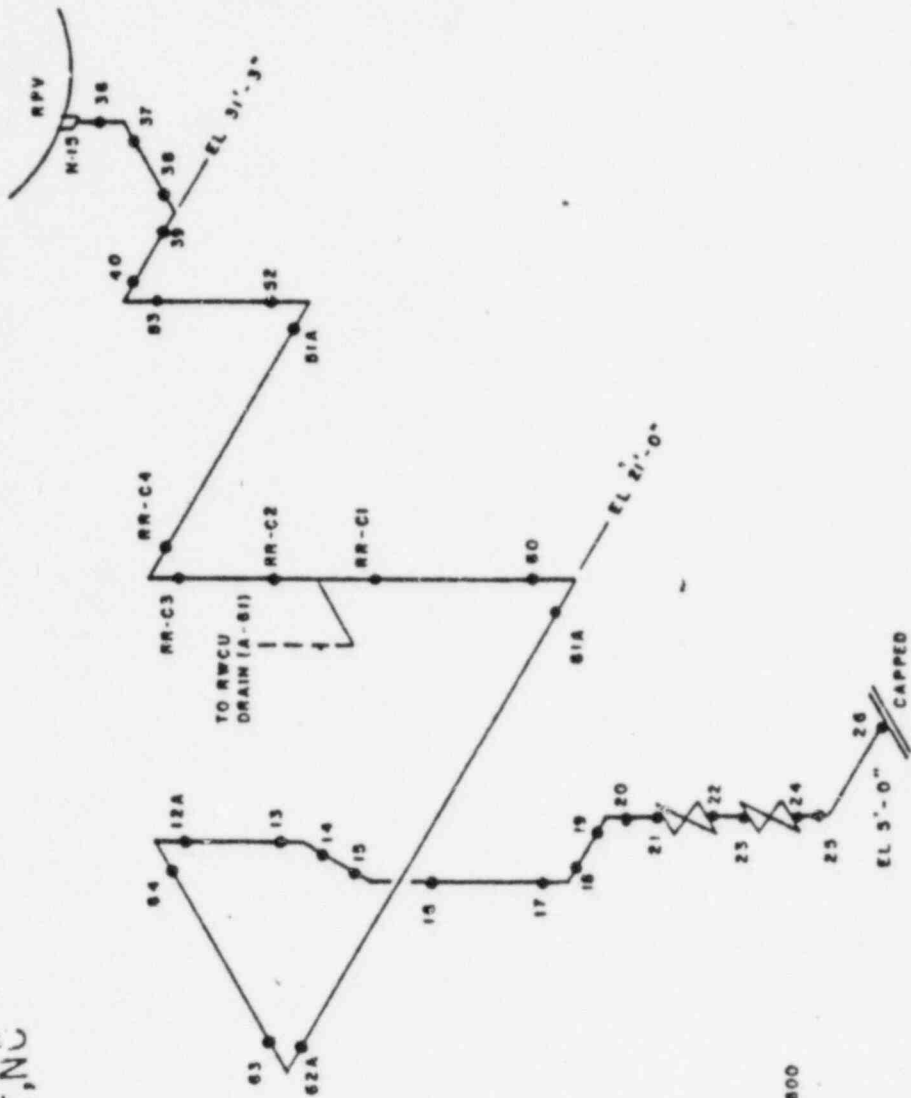


WELD NO. (SYSTEM) B32-RECIRC (LINE / SUBASSEMBLY) 28-IN.-B-PUMP
 (WELD ID) IPHL-A THRU 3PHL-C AND IPLL THRU 4PLL
 A-56

8-34

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | B B R REF. DWG. | DATE |
|-------------|---------------|----------|-------------------|------------------|----------------------|-----------------|---------|
| BRUNSWICK I | 28-IN.-B-PUMP | SS | 1-1/2 IN. | 28" | 23-B | | C-10-76 |

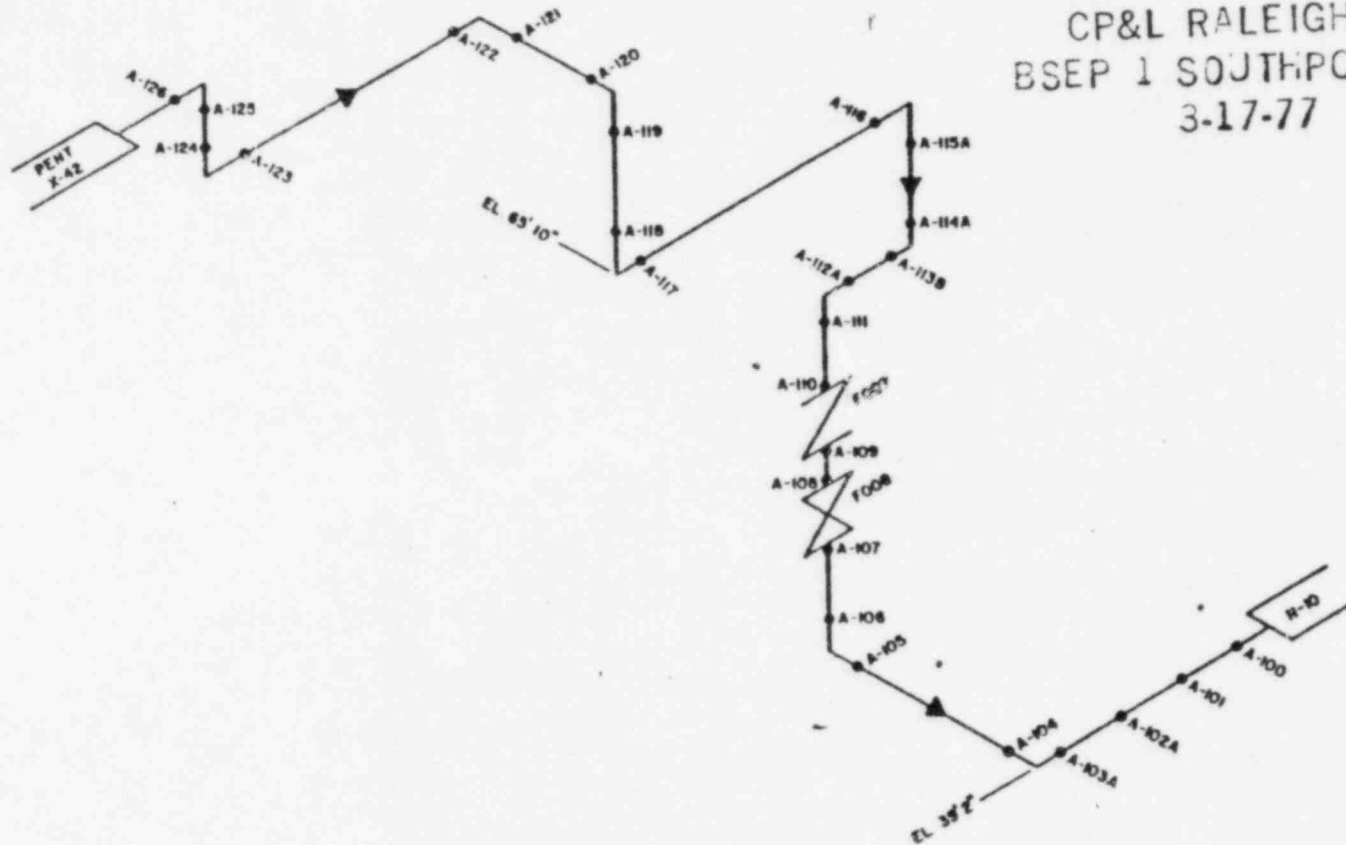
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 3-17-77



LINE 1-B32-26-2"-800
 ISOMETRIC A-62

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | S & M REF ORG | DATE |
|-------------|---------------|----------|-------------------|------------------|----------------------|---------------|---------|
| BRUNSWICK T | B32-26-2"-800 | CB | 940 | 2" | M74 | FD-P-20089 | 3-23-82 |

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 BSEP 1 SOUTHPORT, NC
 3-17-77



STANDBY LIQUID CONTROL
 A-64

| SITE | LINE | MATERIAL | NOMINAL THICKNESS | NOMINAL DIAMETER | CALIBRATION STANDARD | BBR REF DRWG. | DATE |
|-------------|---------------|----------|-------------------|------------------|----------------------|---------------|------|
| BRUNSWICK I | I-C41-9-D-902 | SS | 0.20 | 1.5" | | FS-DW-26013 | |

8-37

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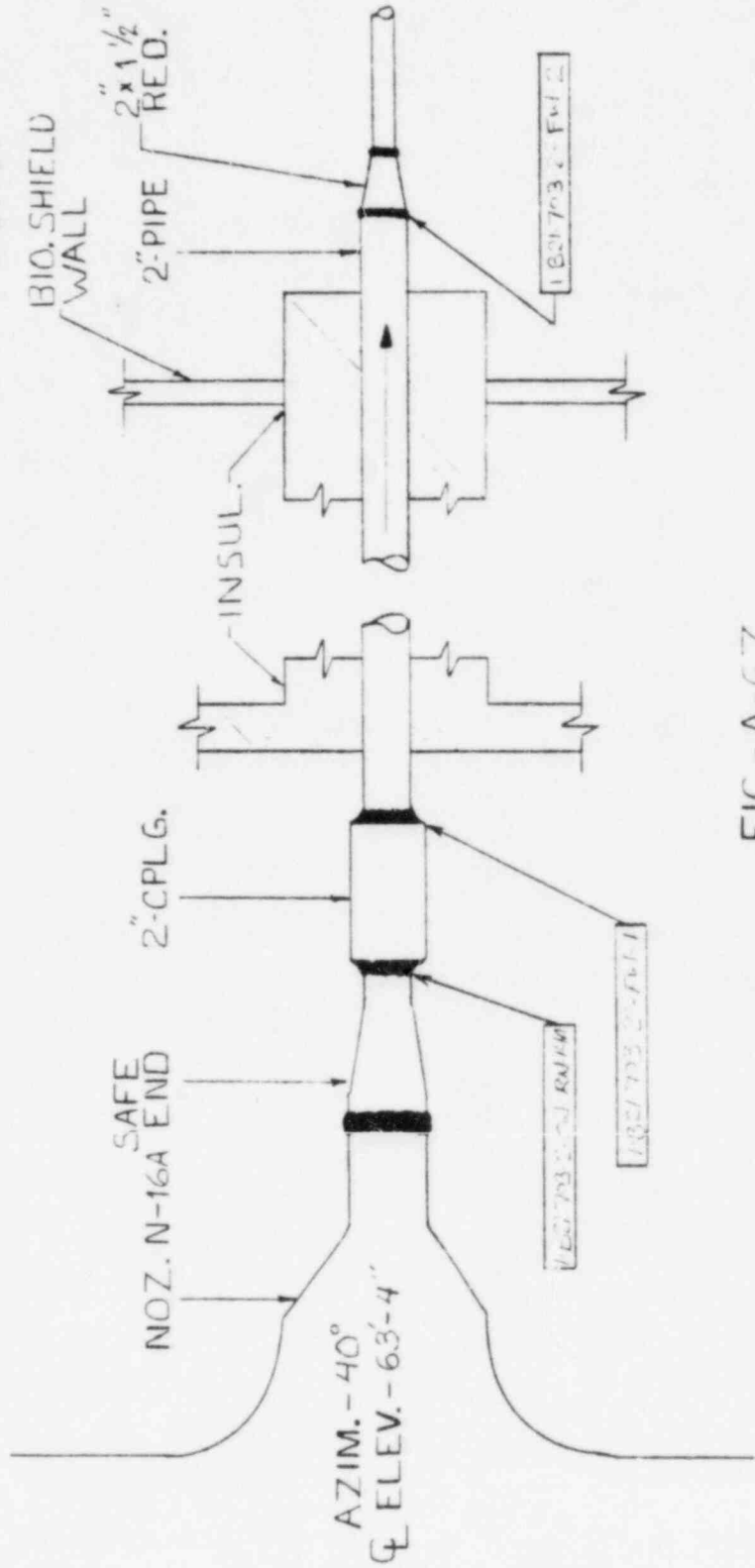


FIG.-A-67

ISI-1-871-A-67 R O

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 ESEP 1 SOUTHPORT, NC
 3-17-77

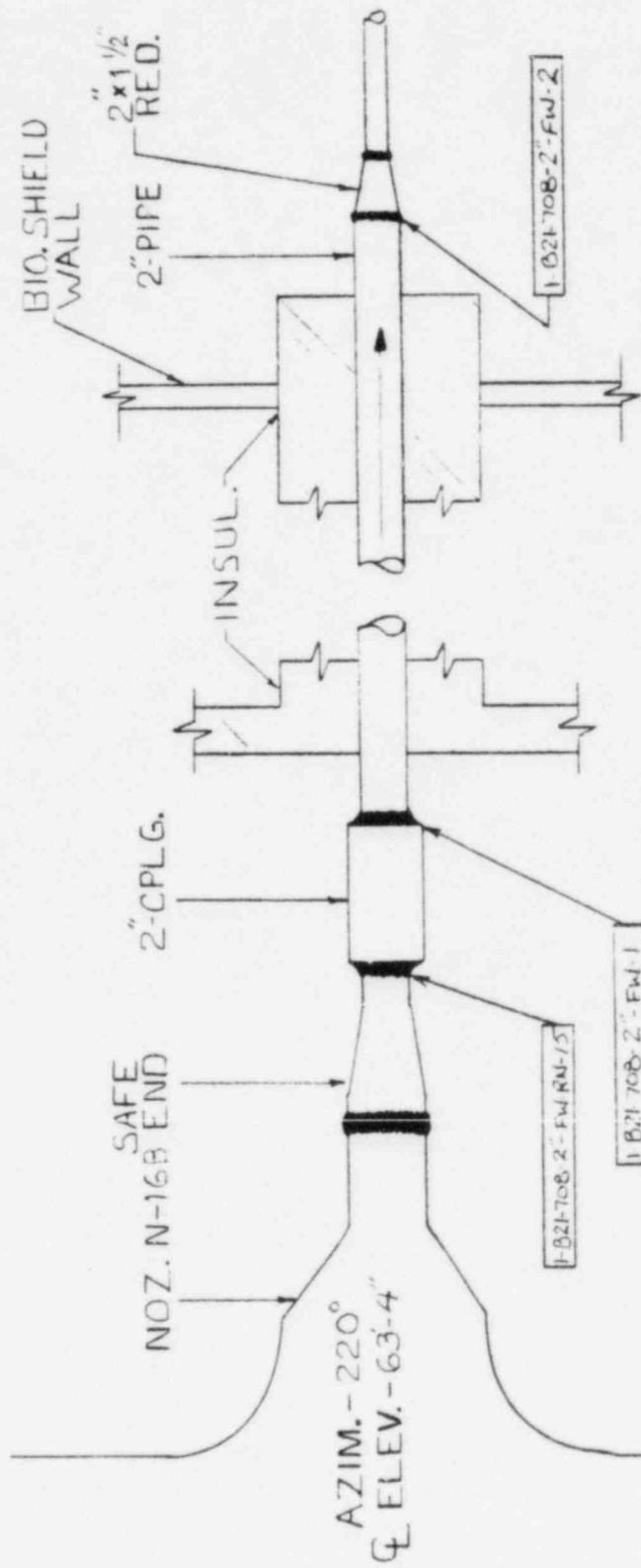
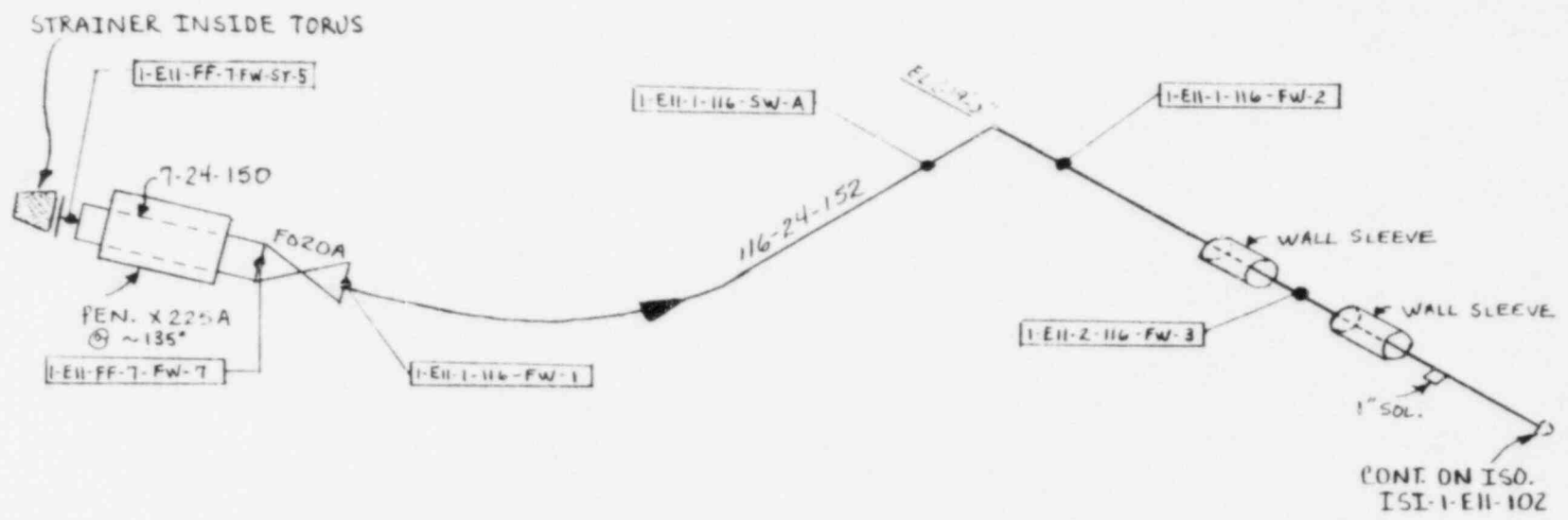


FIG.- A-68

ISI-1821-A-68 R.O

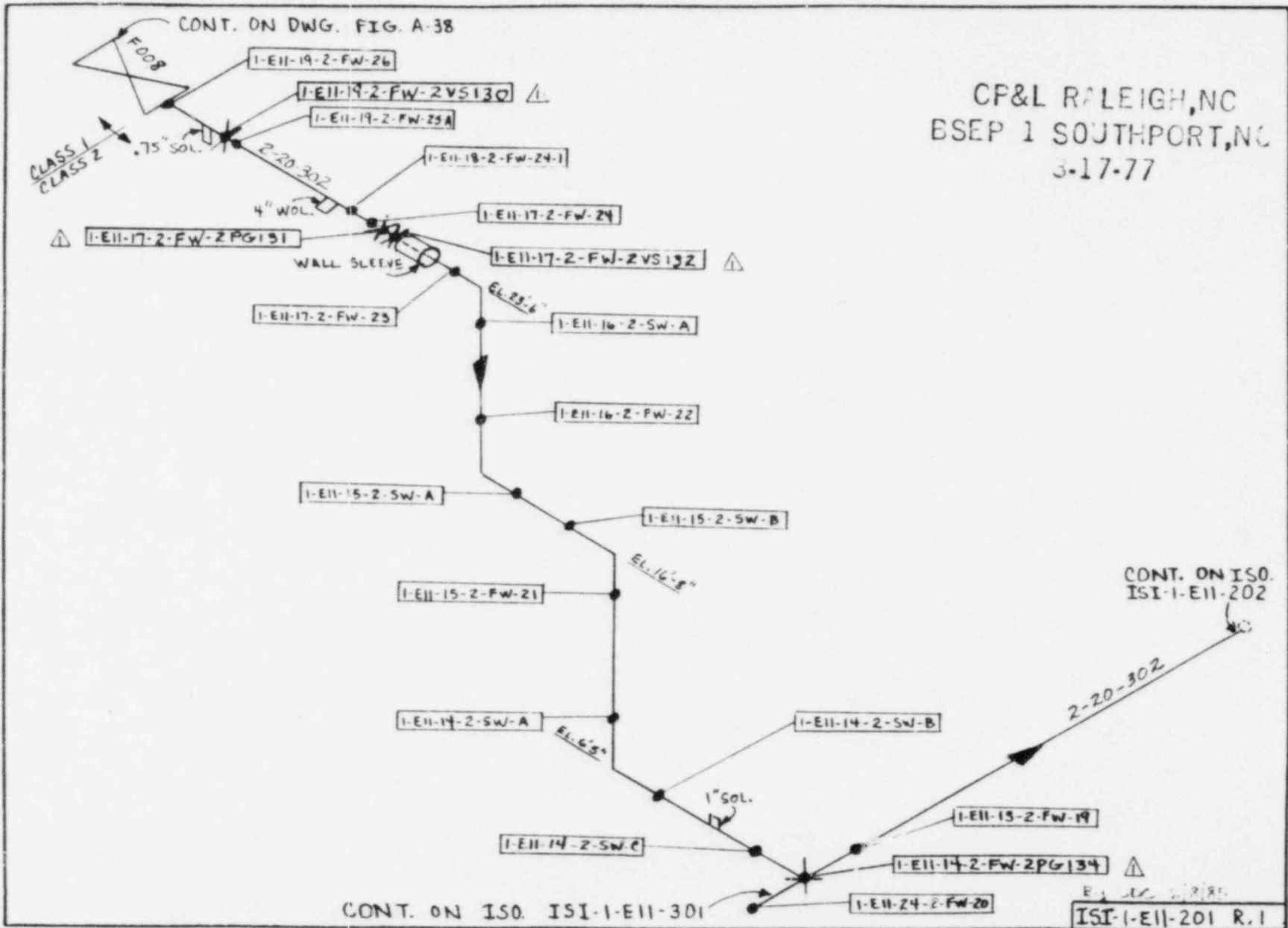
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BSEP 1 SOUTHPORT, NC
3-17-77



8-40

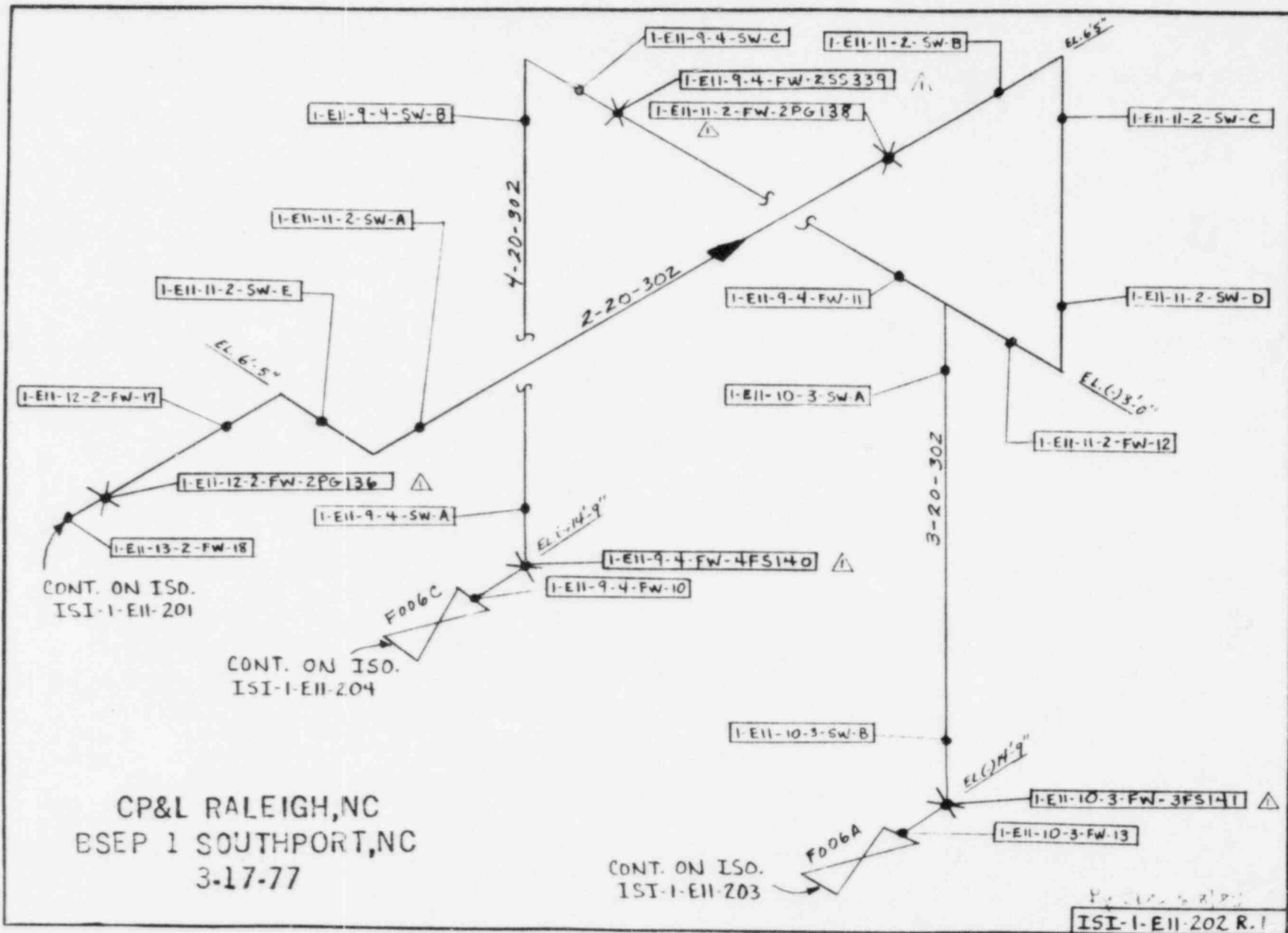
ISI-1-E11-101 R. 0

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8-41

8-42

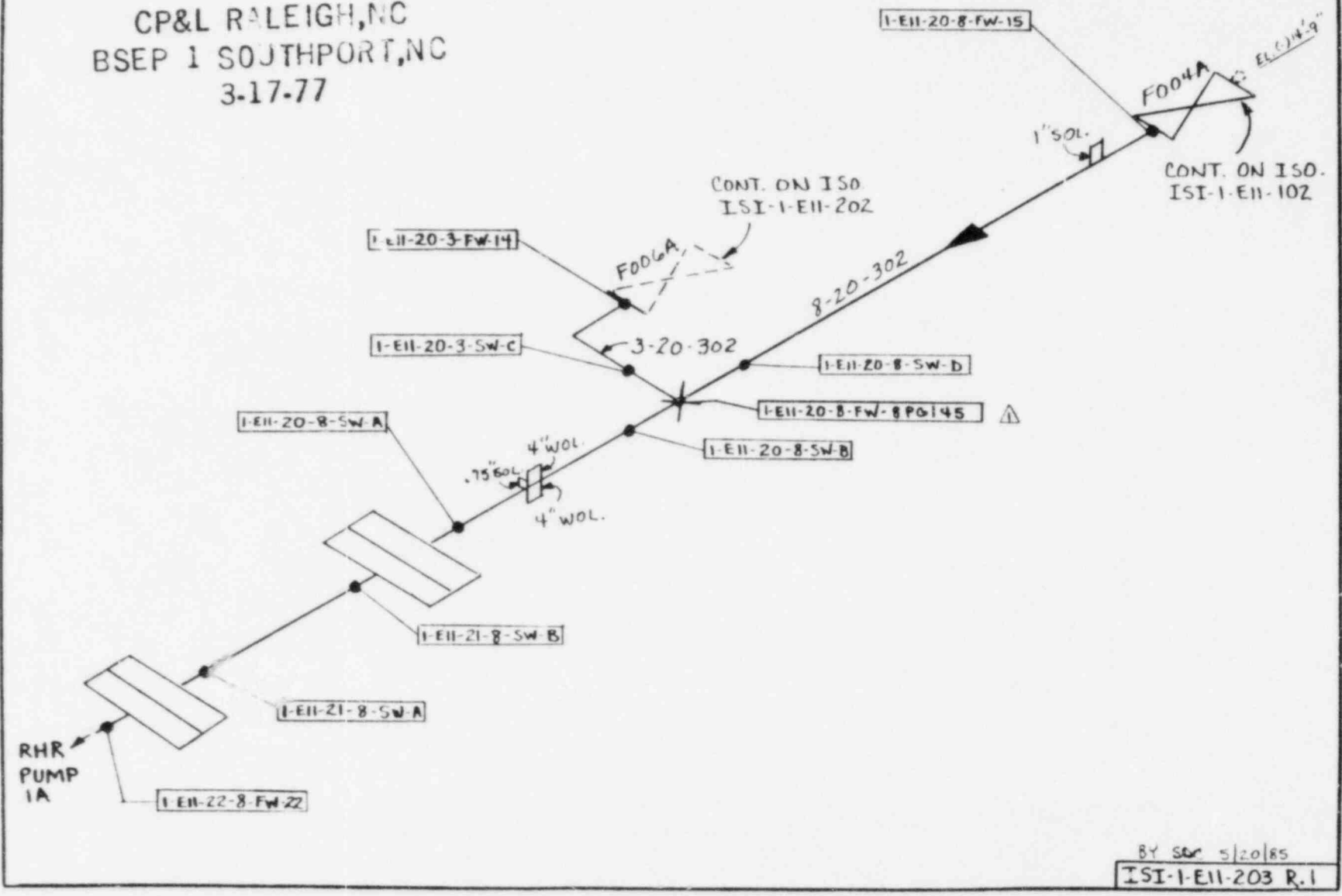


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CONT. ON ISO.
ISI-1-E11-203

ISI-1-E11-202 R.1

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 BSEP 1 SOUTHPORT, NC
 3-17-77

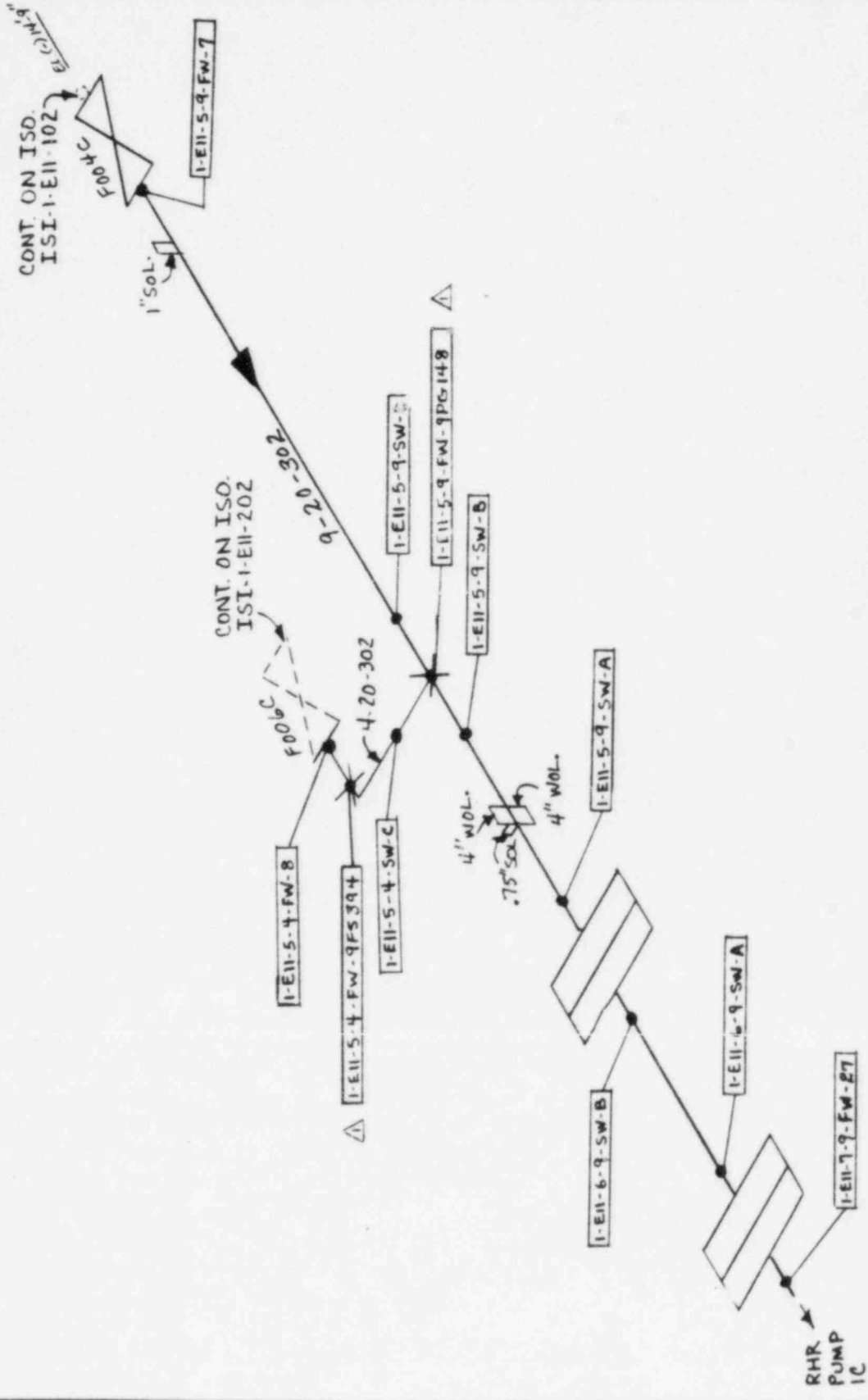


8-43

BY SW 5/20/85
 ISI-1-E11-203 R.1

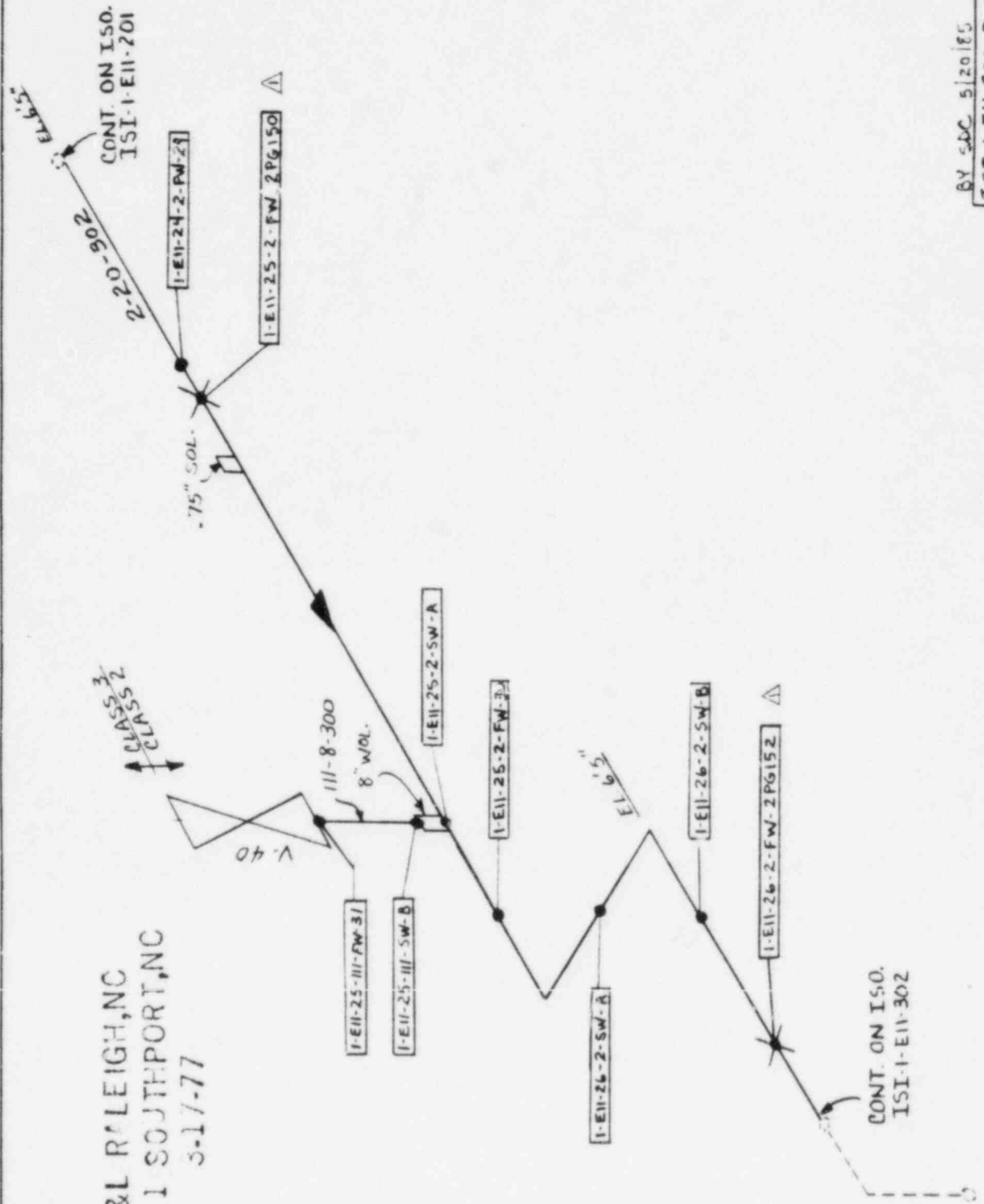
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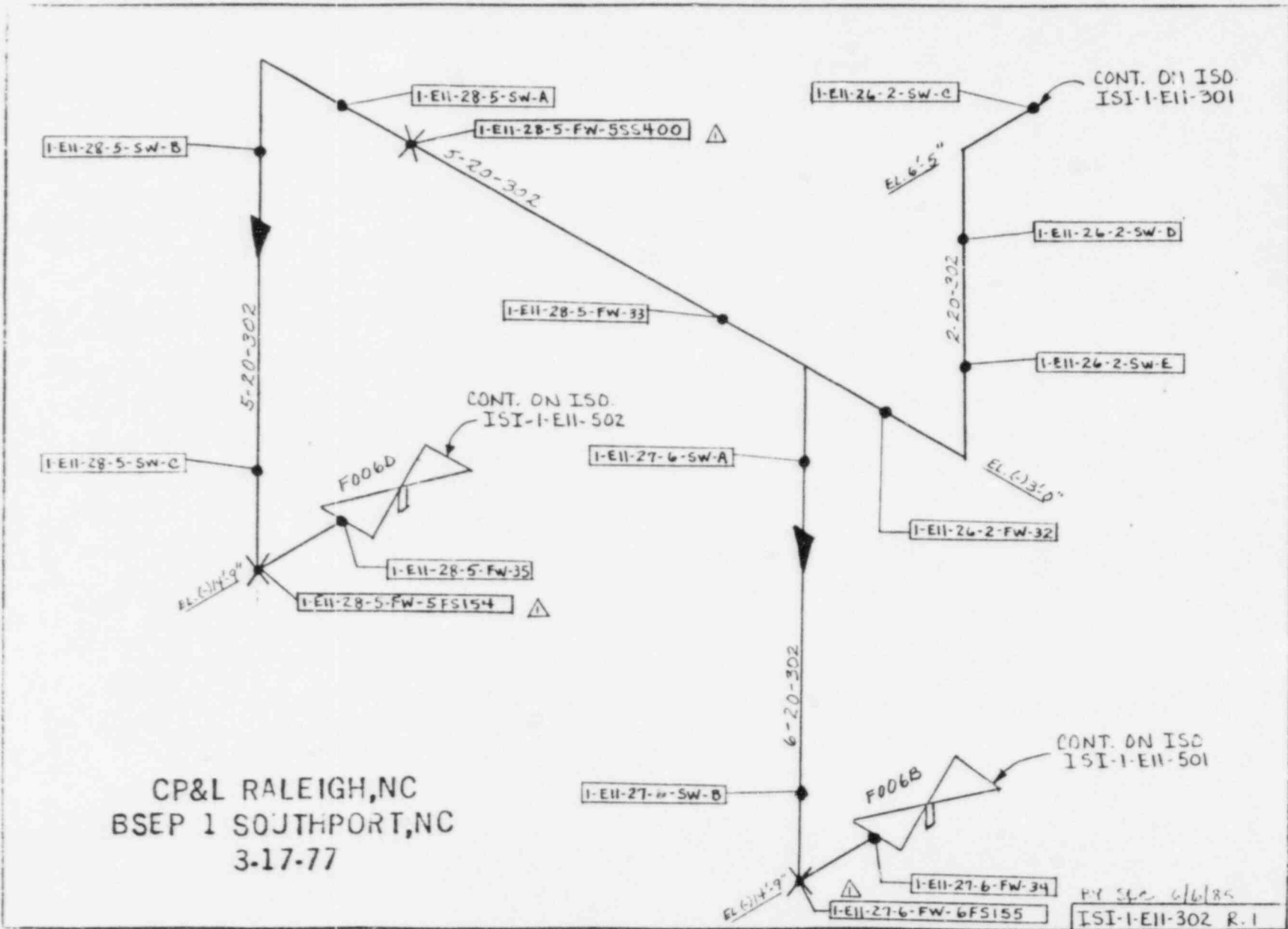
By SW 6/18/75
 ISI-1-E11-204 R. 1

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ESEP 1 SOUTHPORT, NC
5-17-77

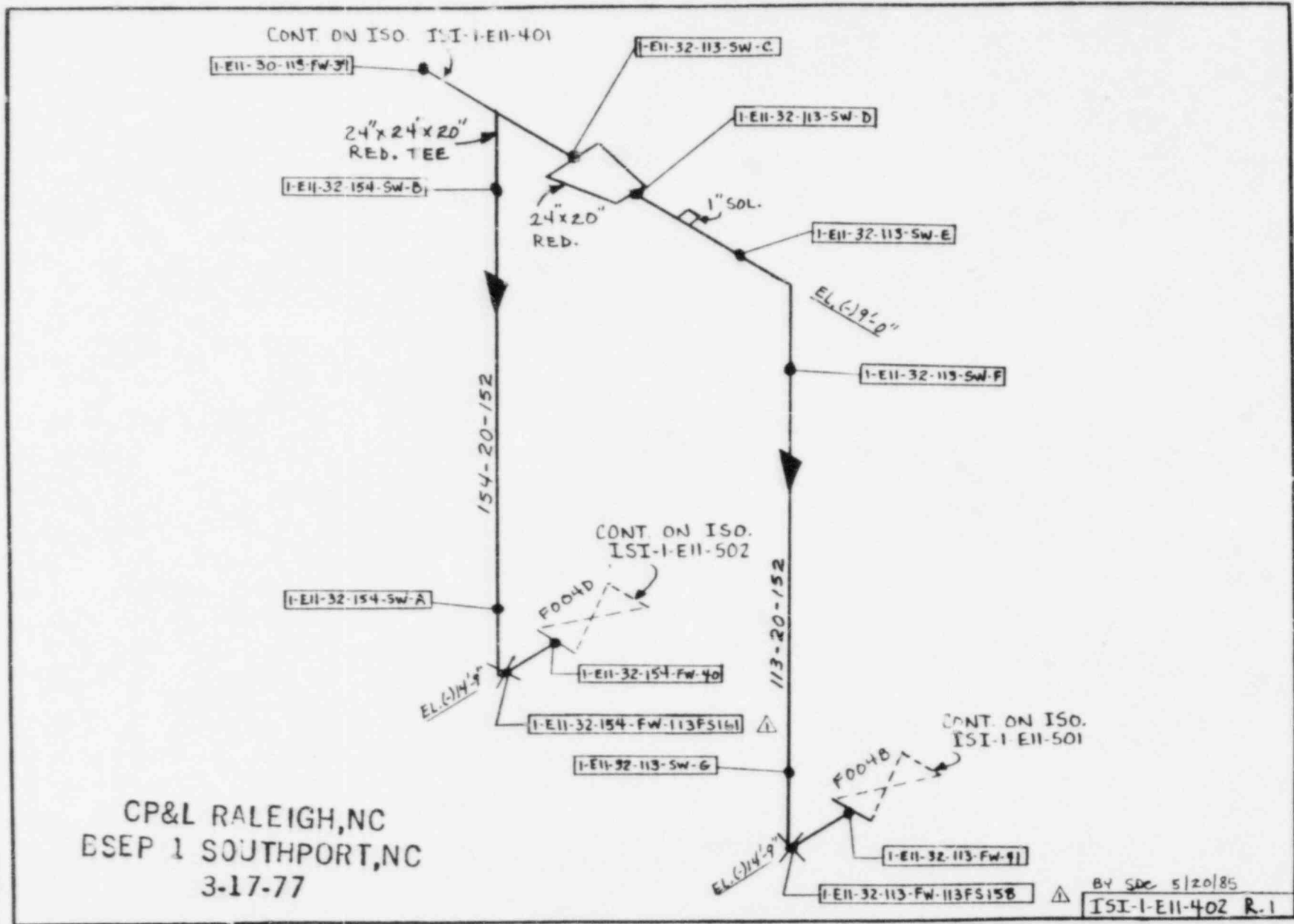


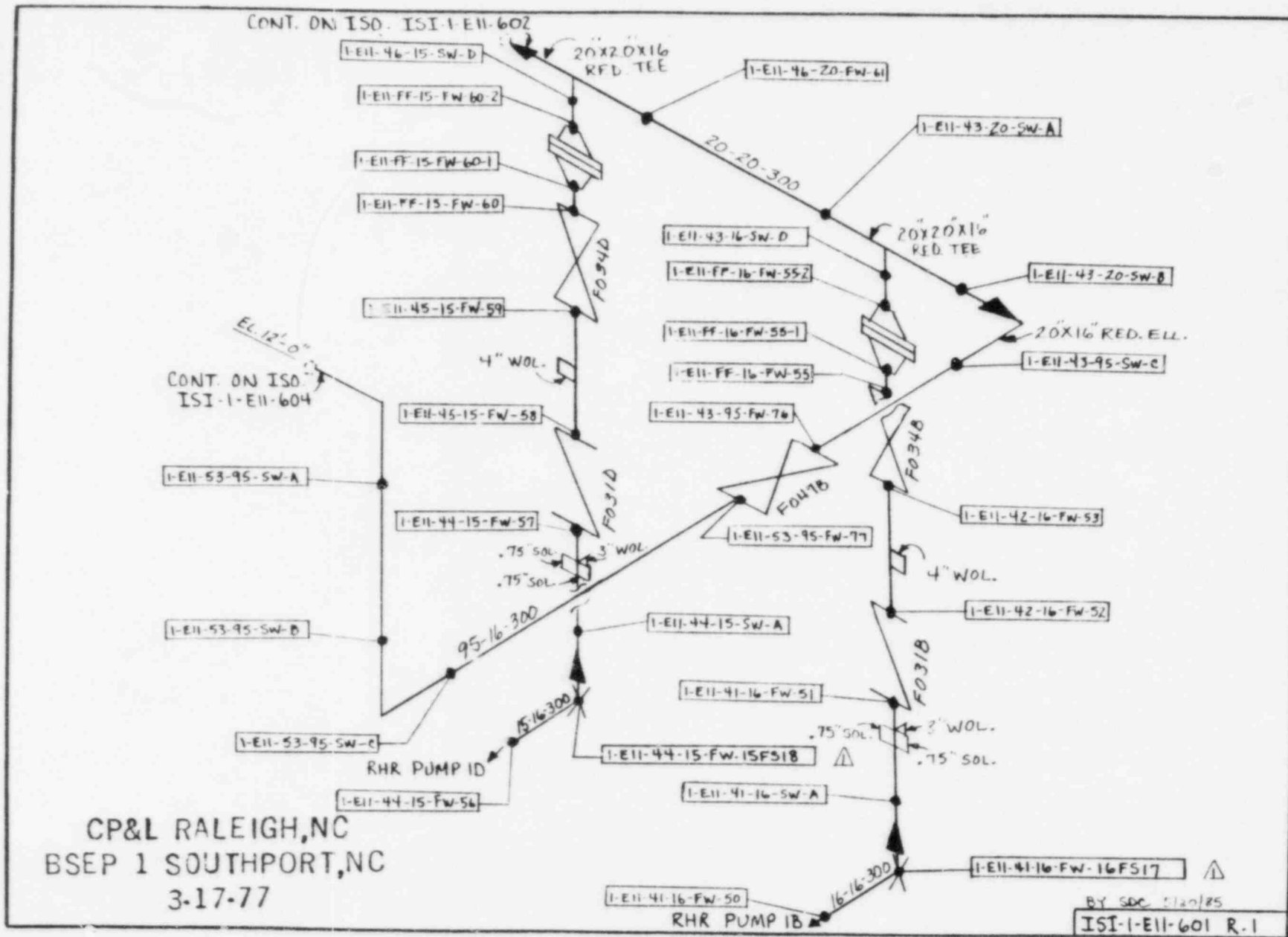
BY SDC 5120185
ISI-1-E11-301 R.1

8-46

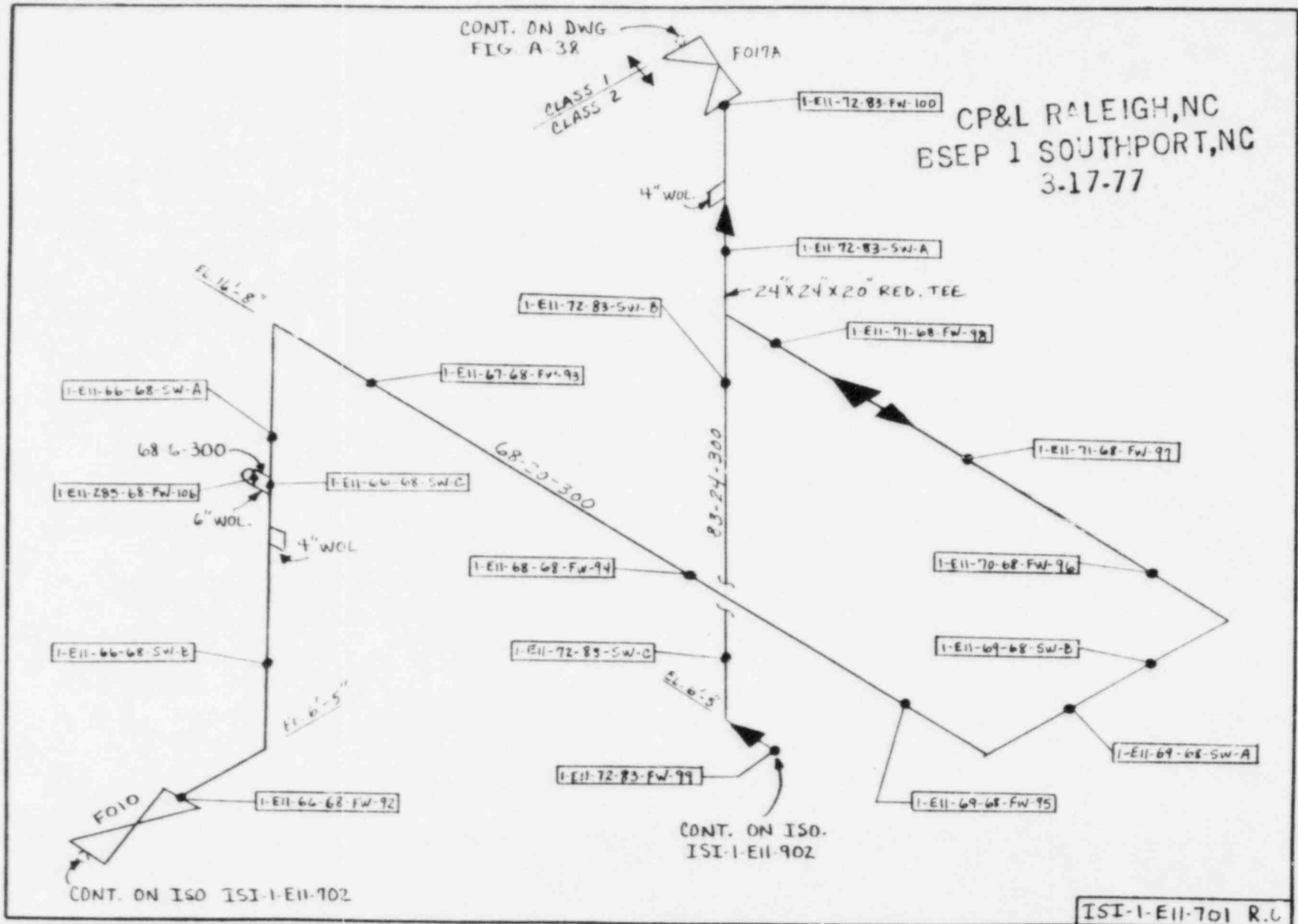


8-47

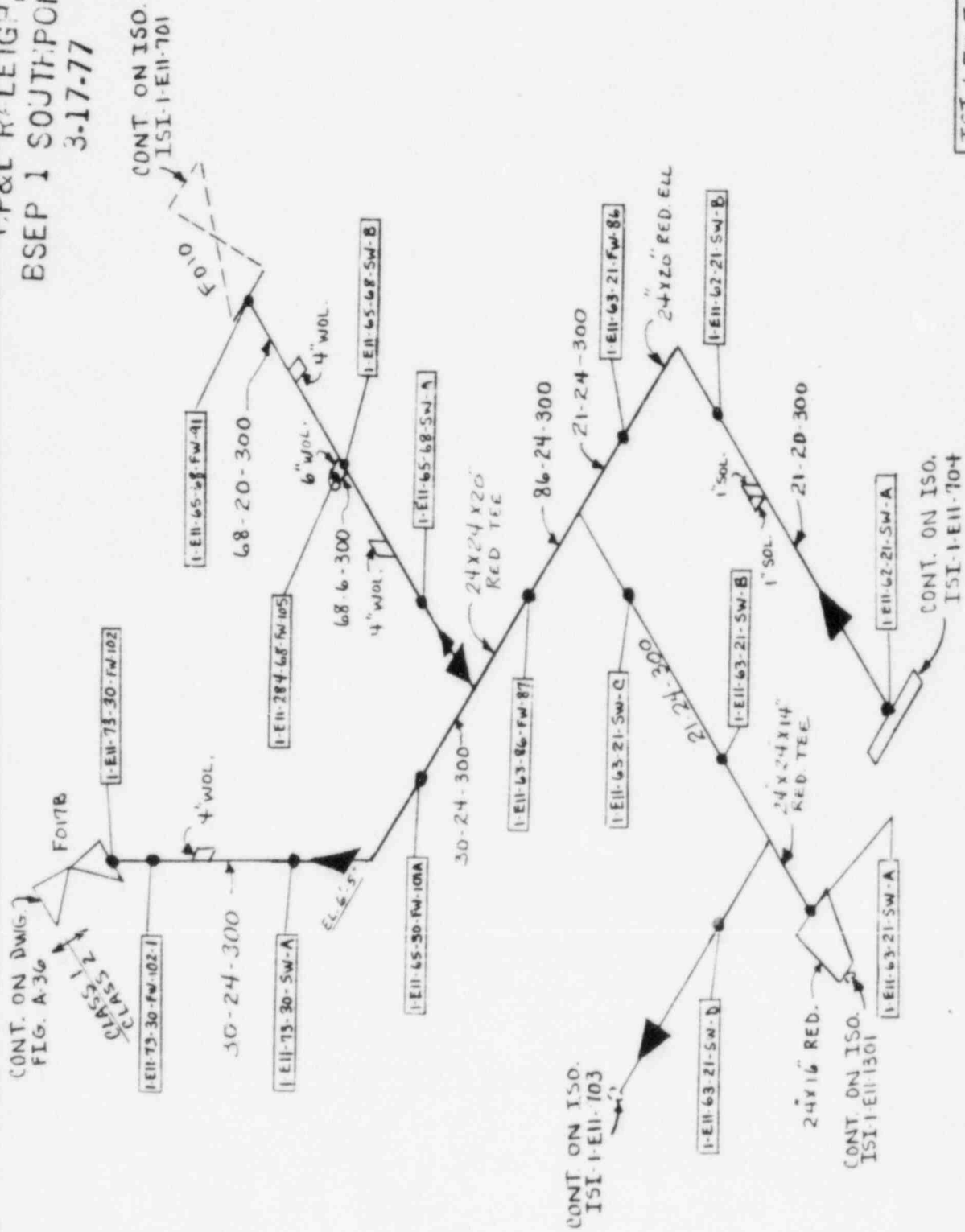




8-49

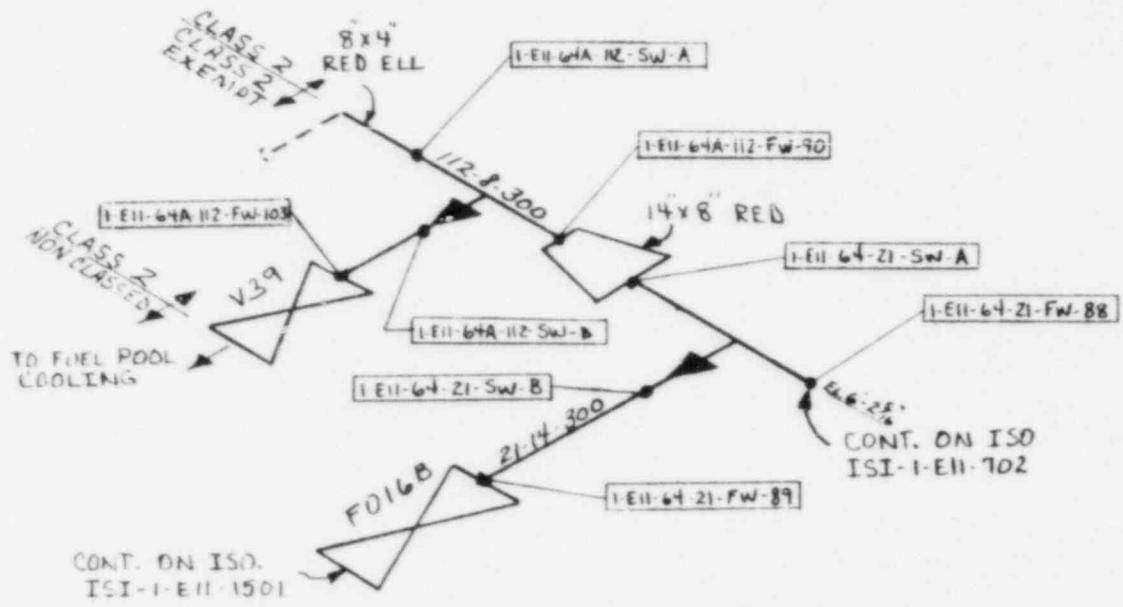


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 3-17-77



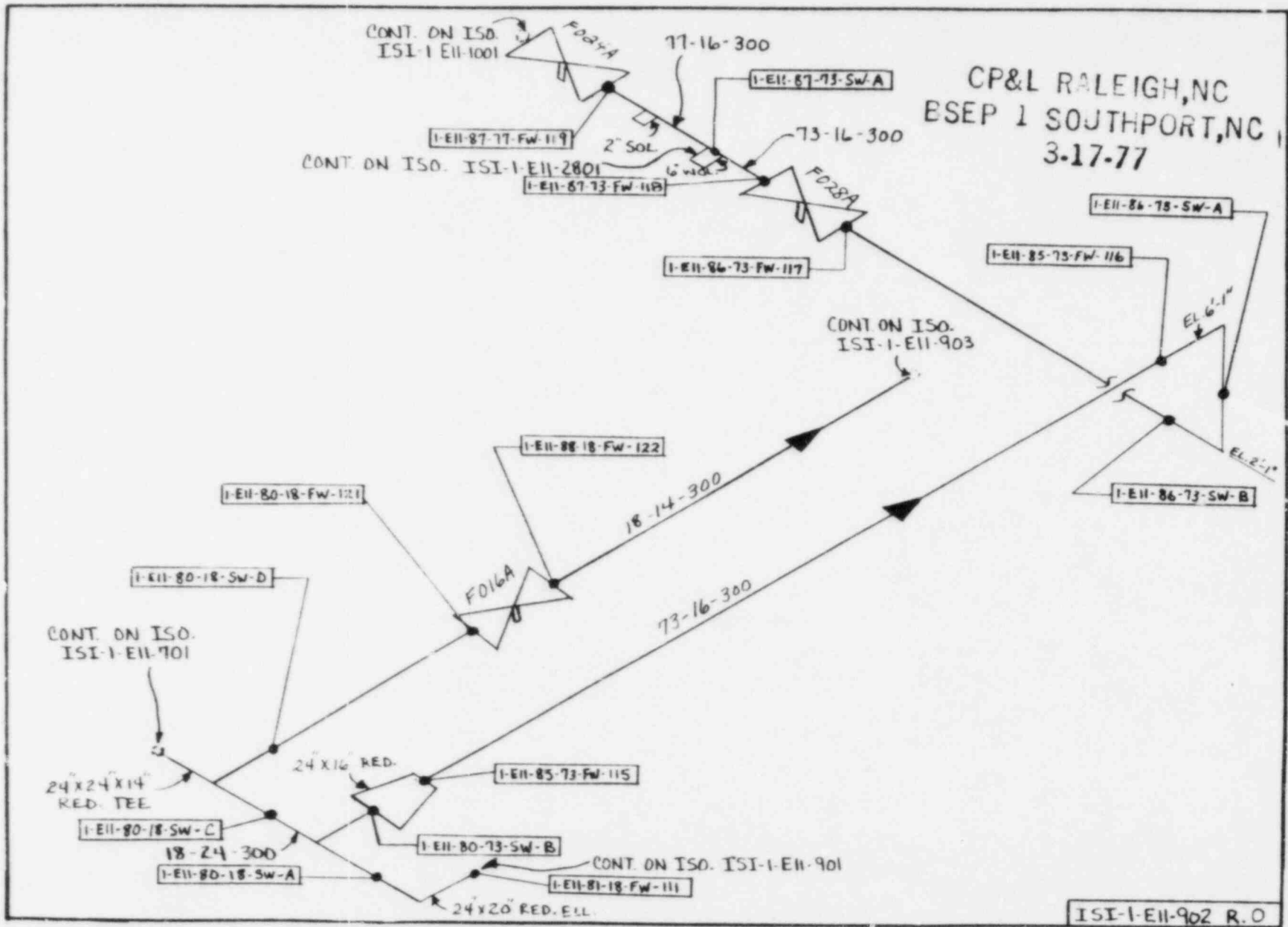
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 3-17-77

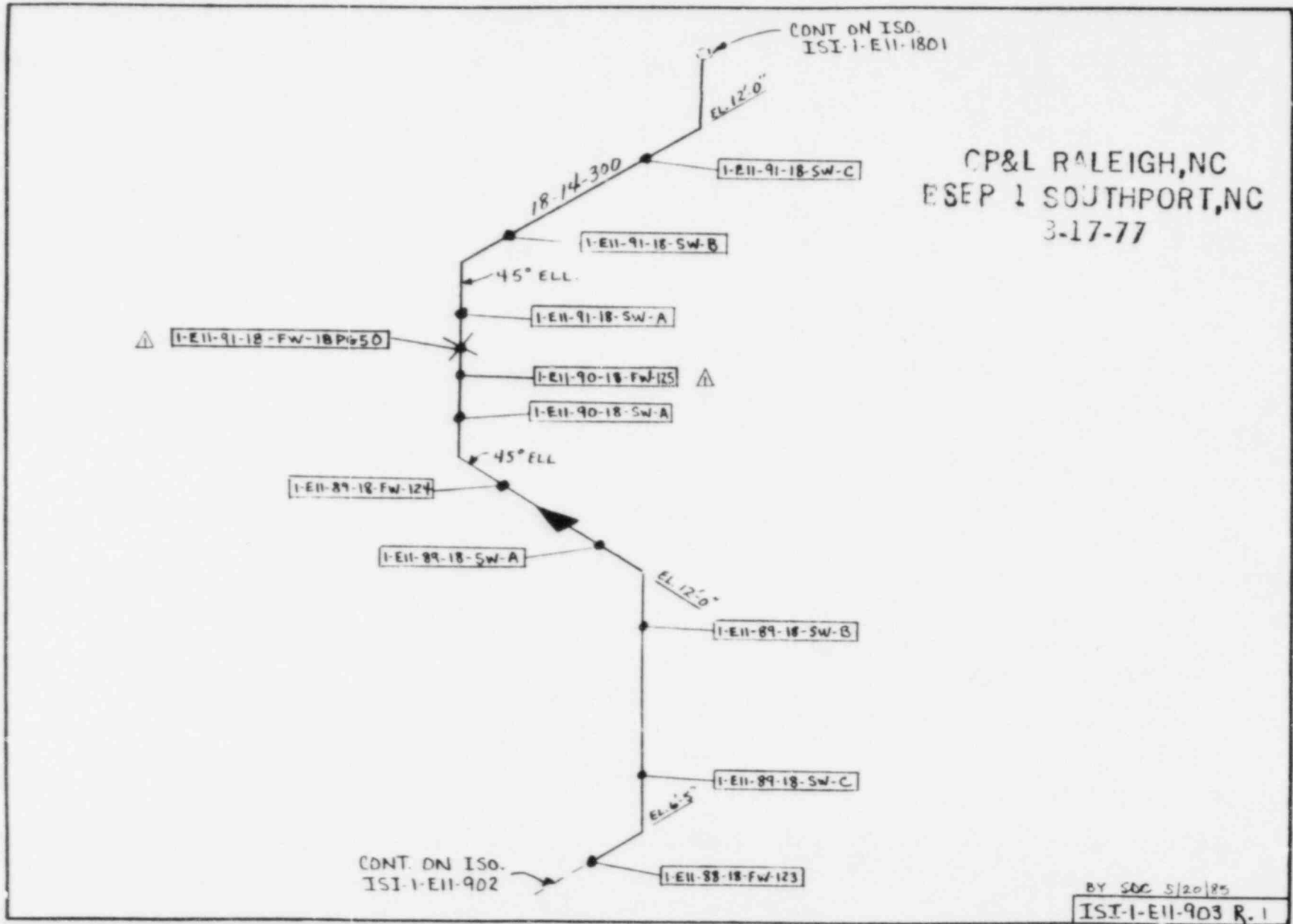


8-51

ISI-1-E11-703 R.0



8-53



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3-17-77

CONT. ON ISO.
ISI-1-E11-902

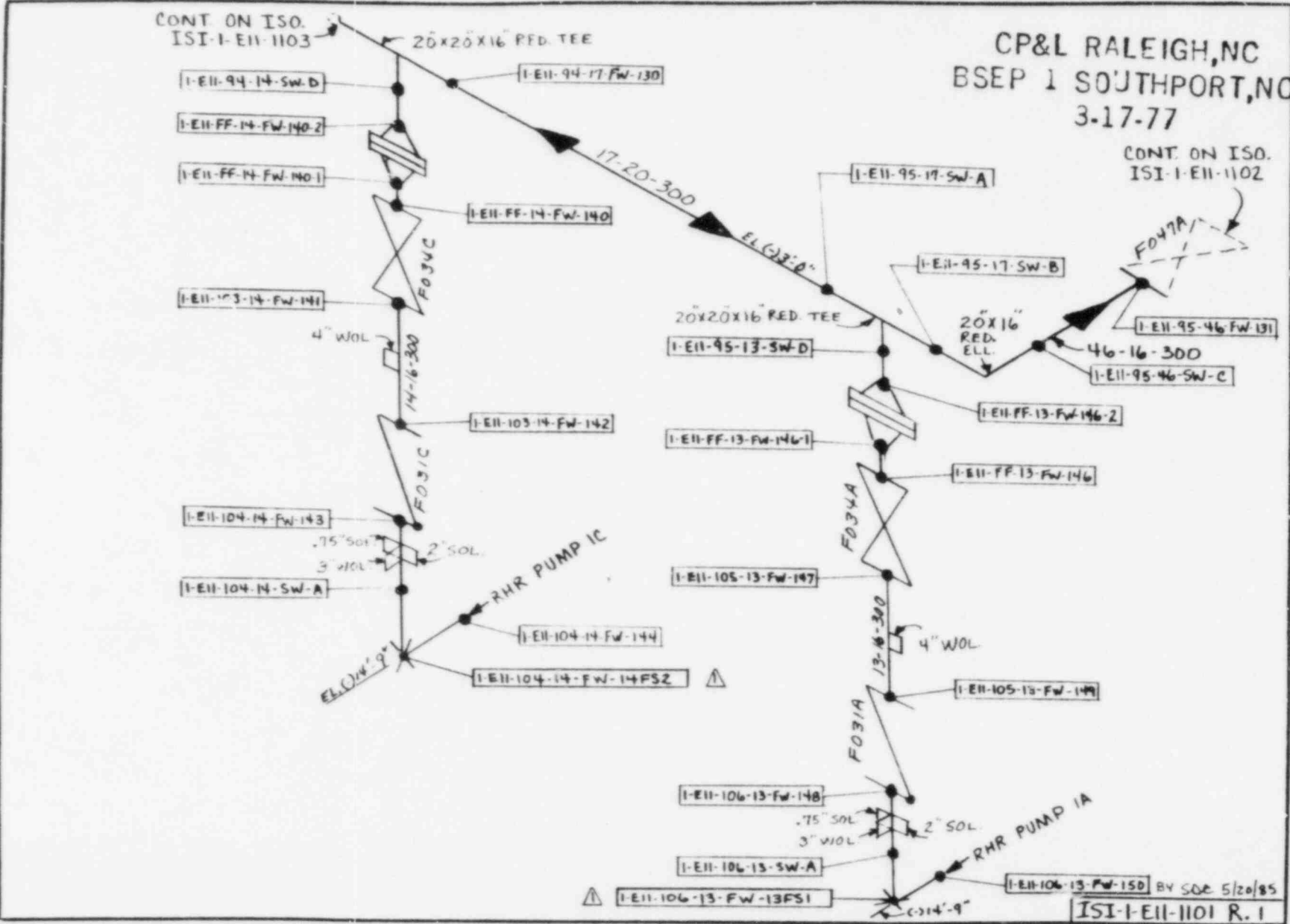
CONT. ON ISO.
ISI-1-E11-1801

BY SDC 5/20/85
ISI-1-E11-903 R.1

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CONT ON ISO.
 ISI-1-E11-1103

CONT ON ISO.
 ISI-1-E11-1102



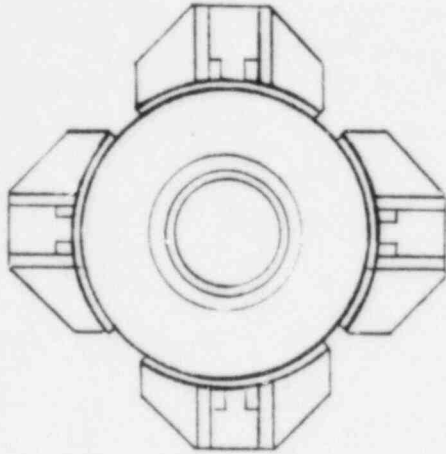
8-54

ISI-1-E11-1101 R. 1

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 3-17-77

TOP VIEW

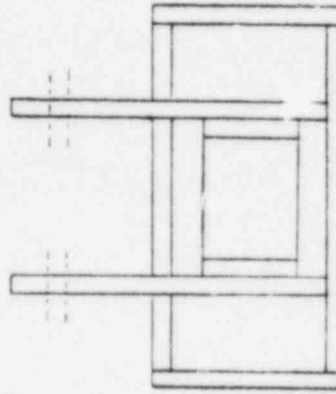
SUP - 180°



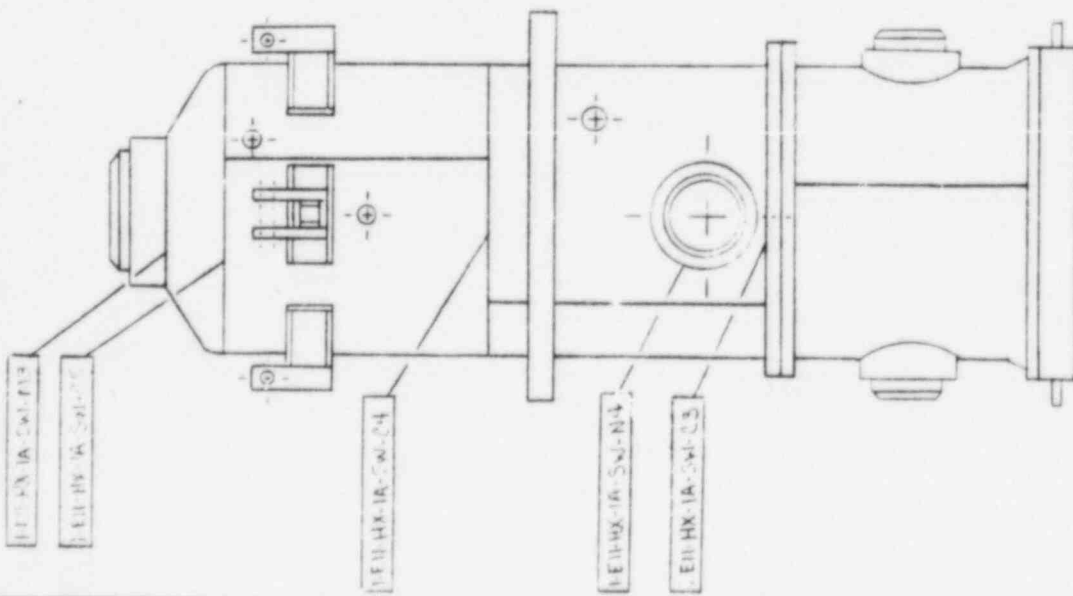
SUP - 90°

SUP - 0°

SUP - 270°



TYP - 4



E11HX-1A-5W-12

E11HX-1A-5W-11

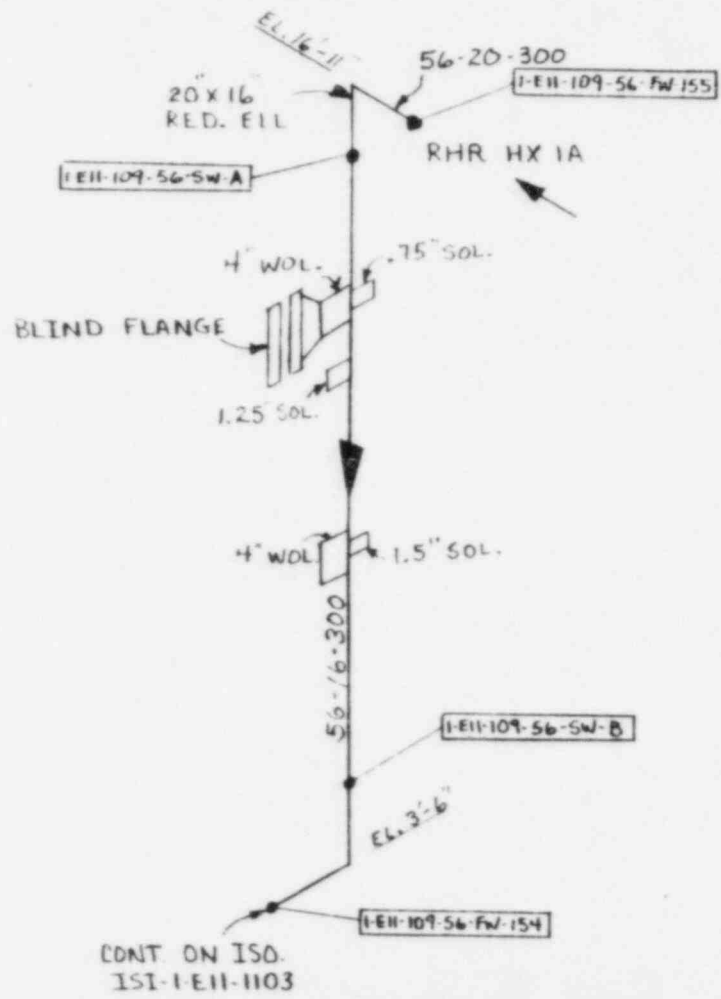
E11HX-1A-5W-14

E11HX-1A-5W-14

E11HX-1A-5W-13

LSI-1-E11-1150 R.O

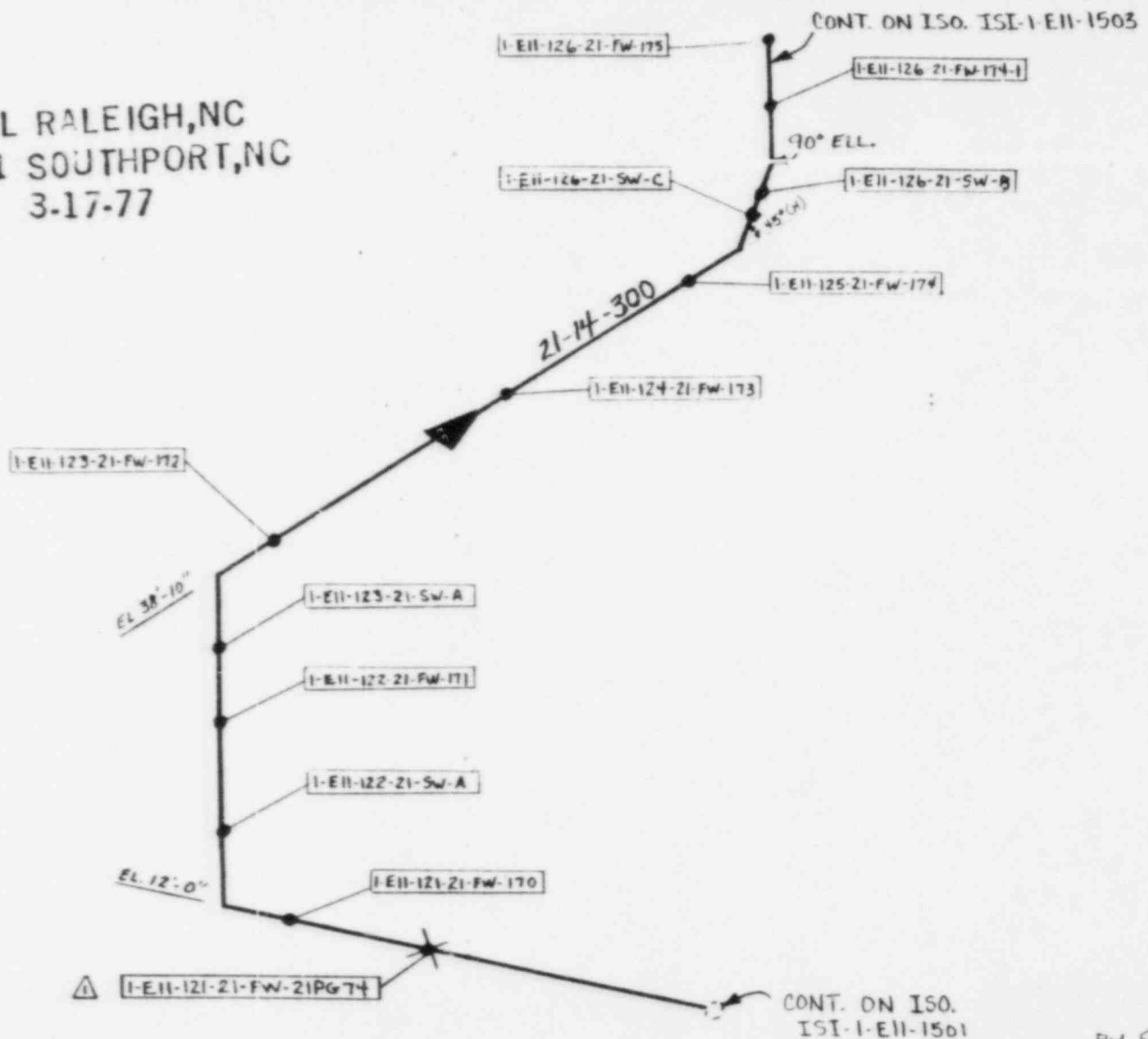
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3-17-77



95-8

ISI-1-EH-1201 R.0

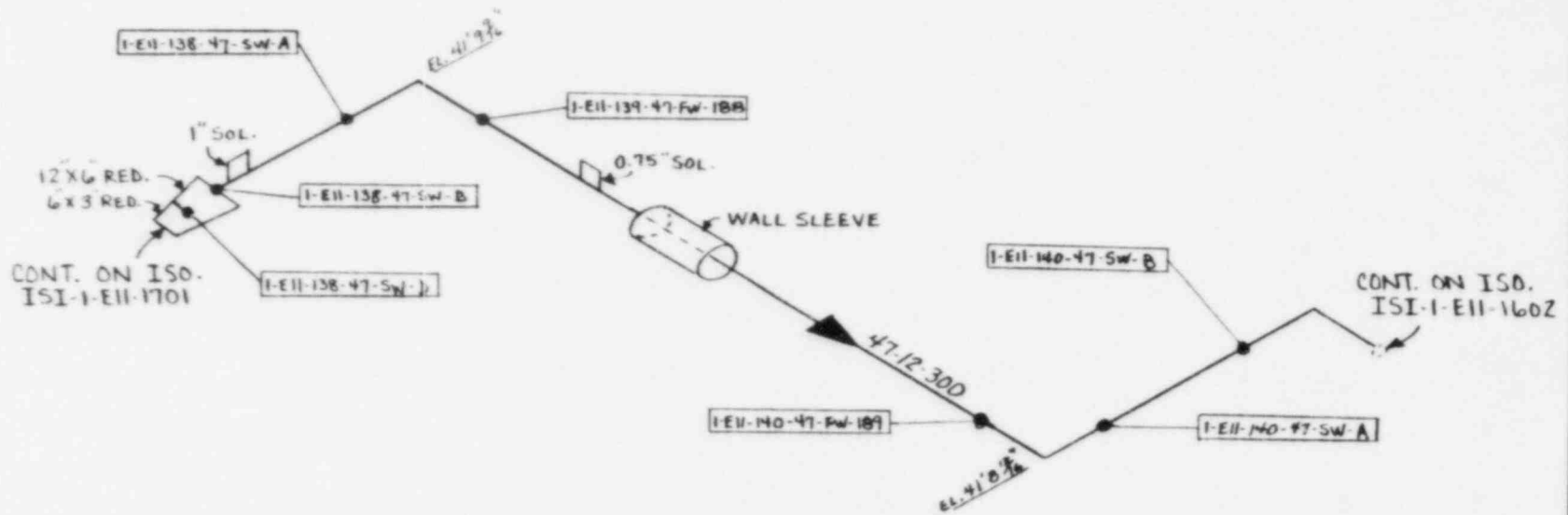
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3-17-77



8-57

BY SLE 5/20/85
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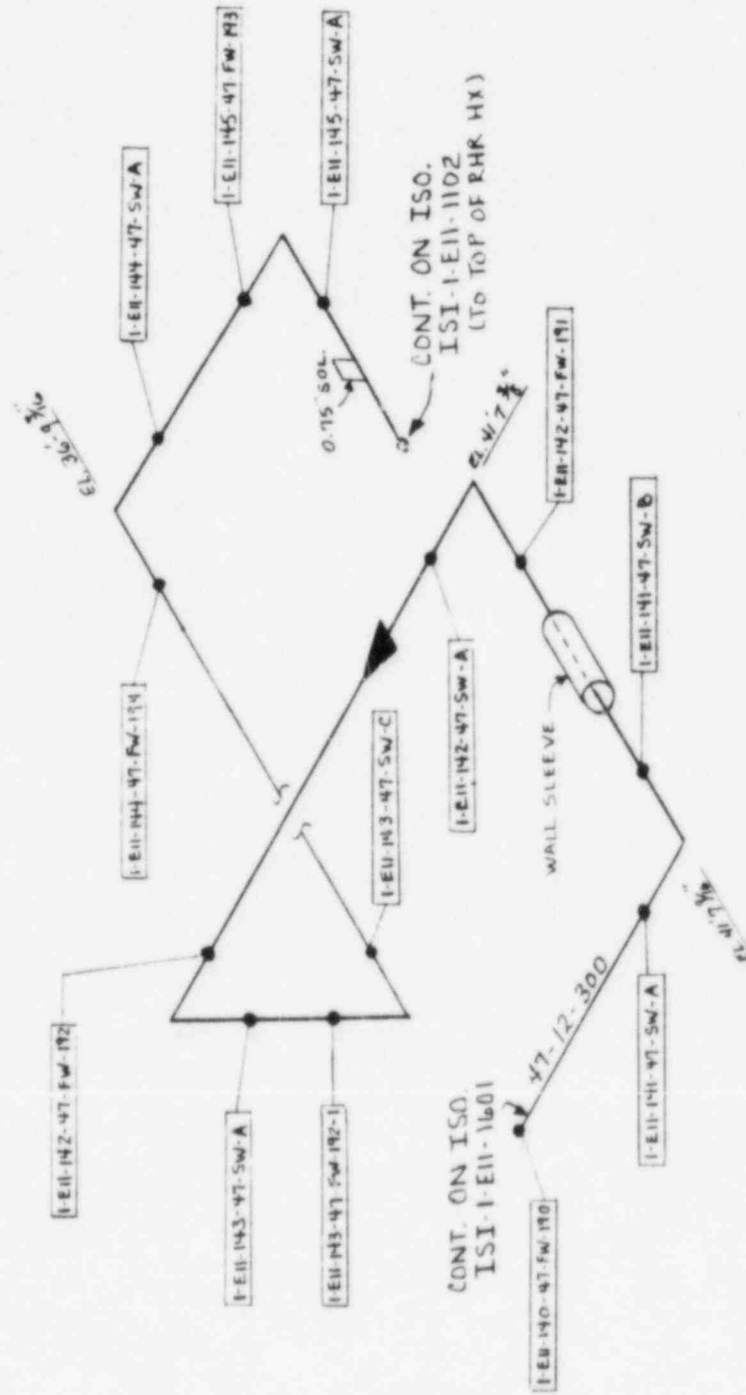
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8-58

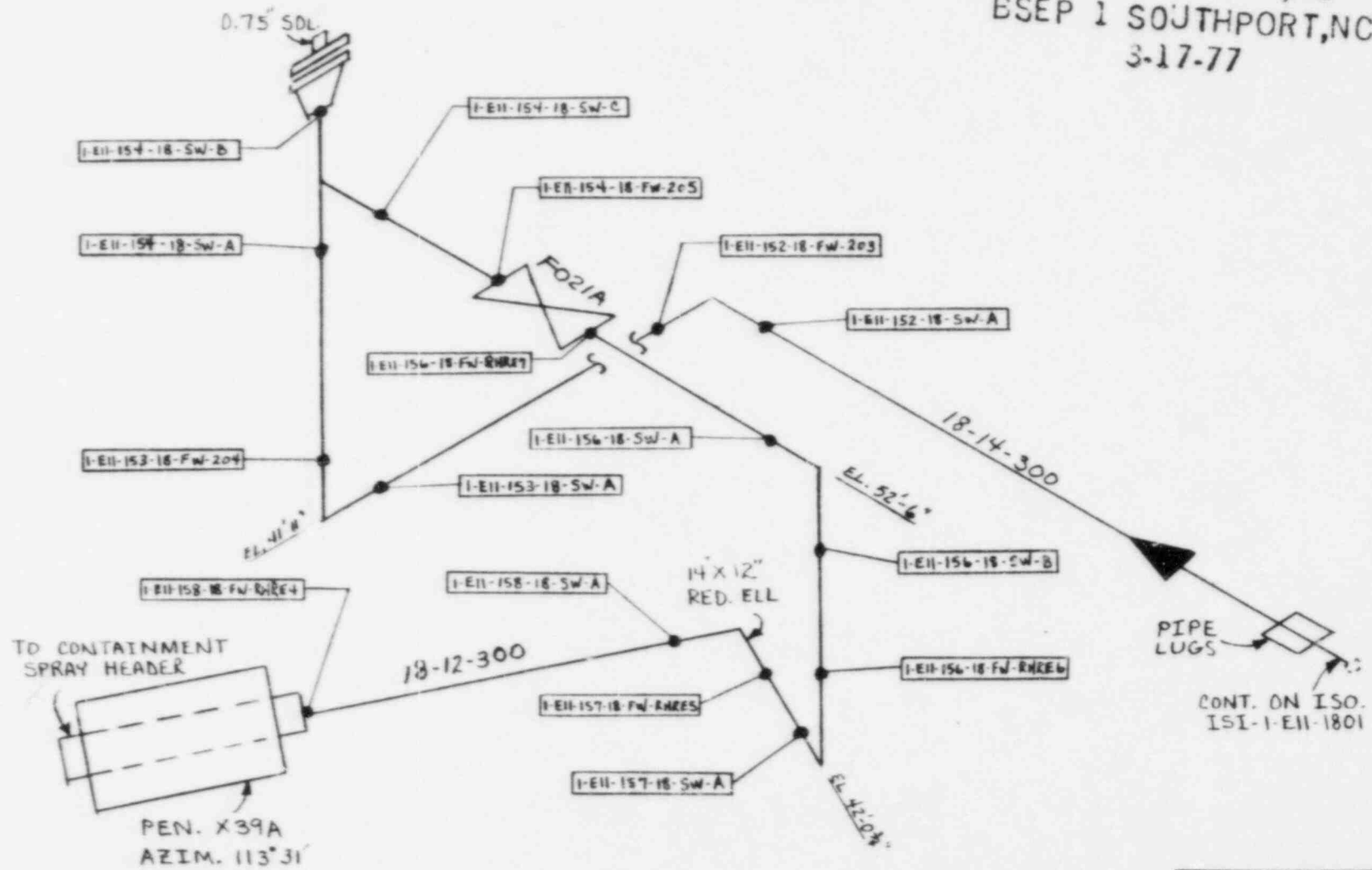
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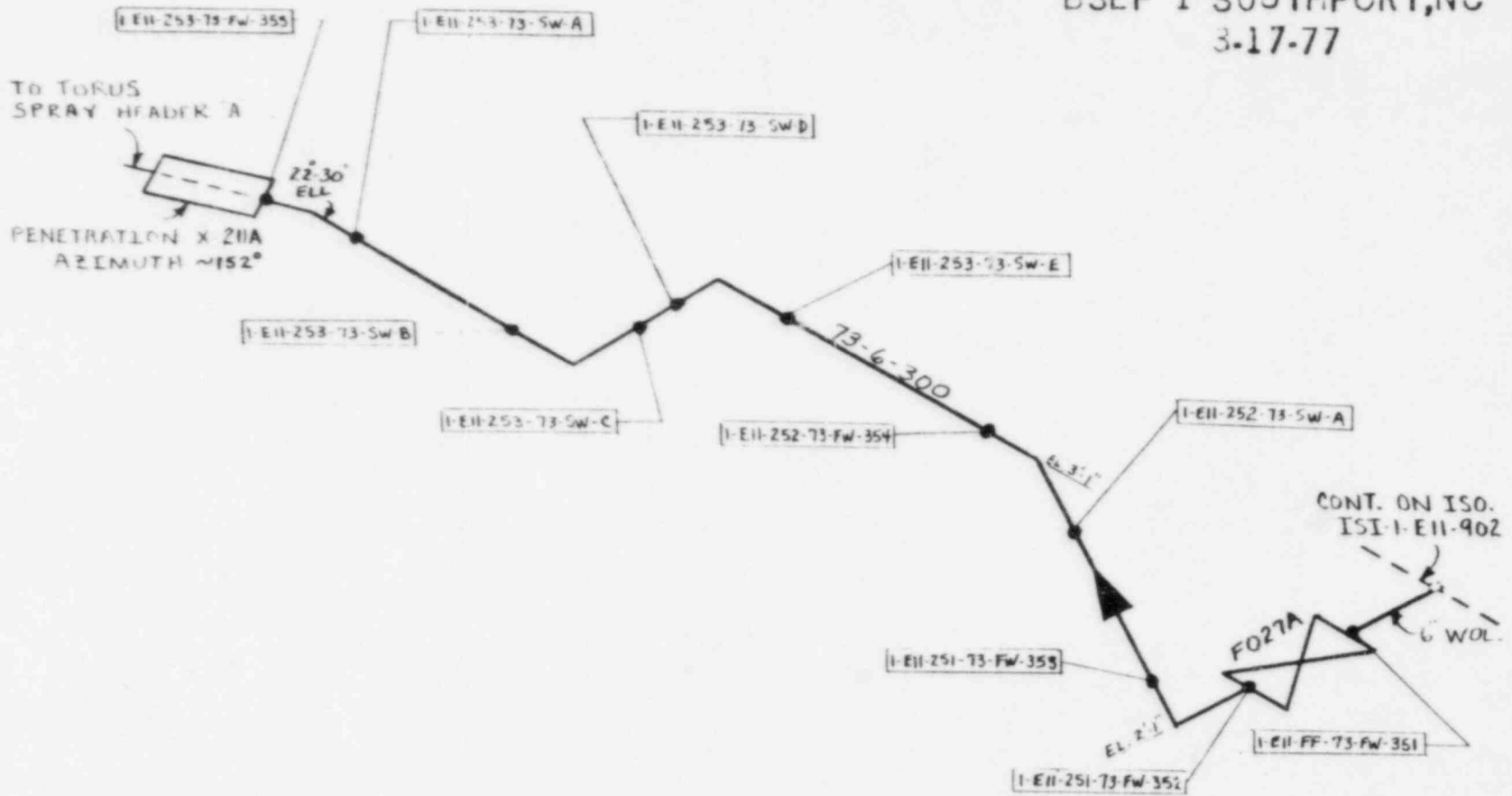
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ISI-1-E11-1802 R.O

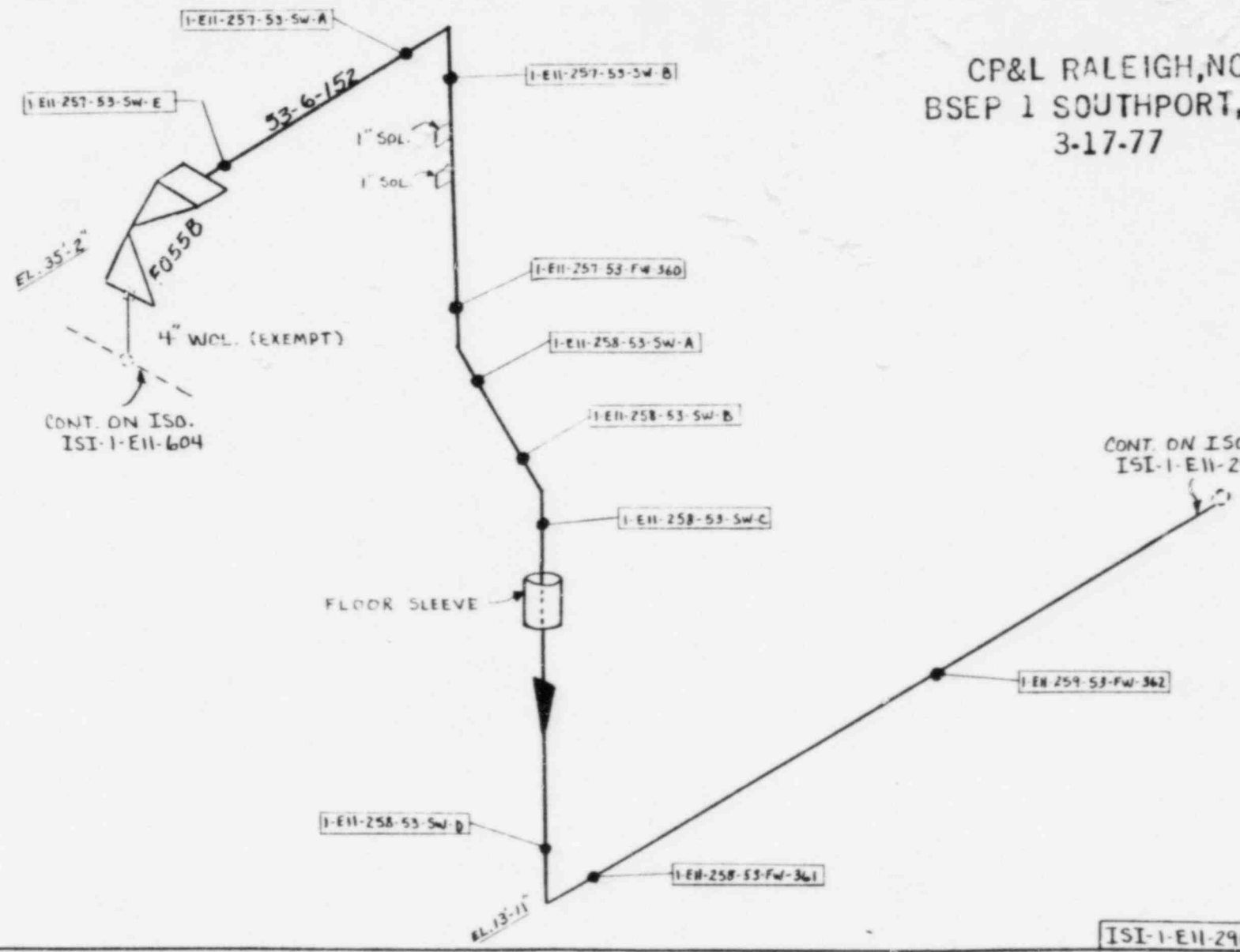
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8-62

ISI-1-E11-2801 R.O

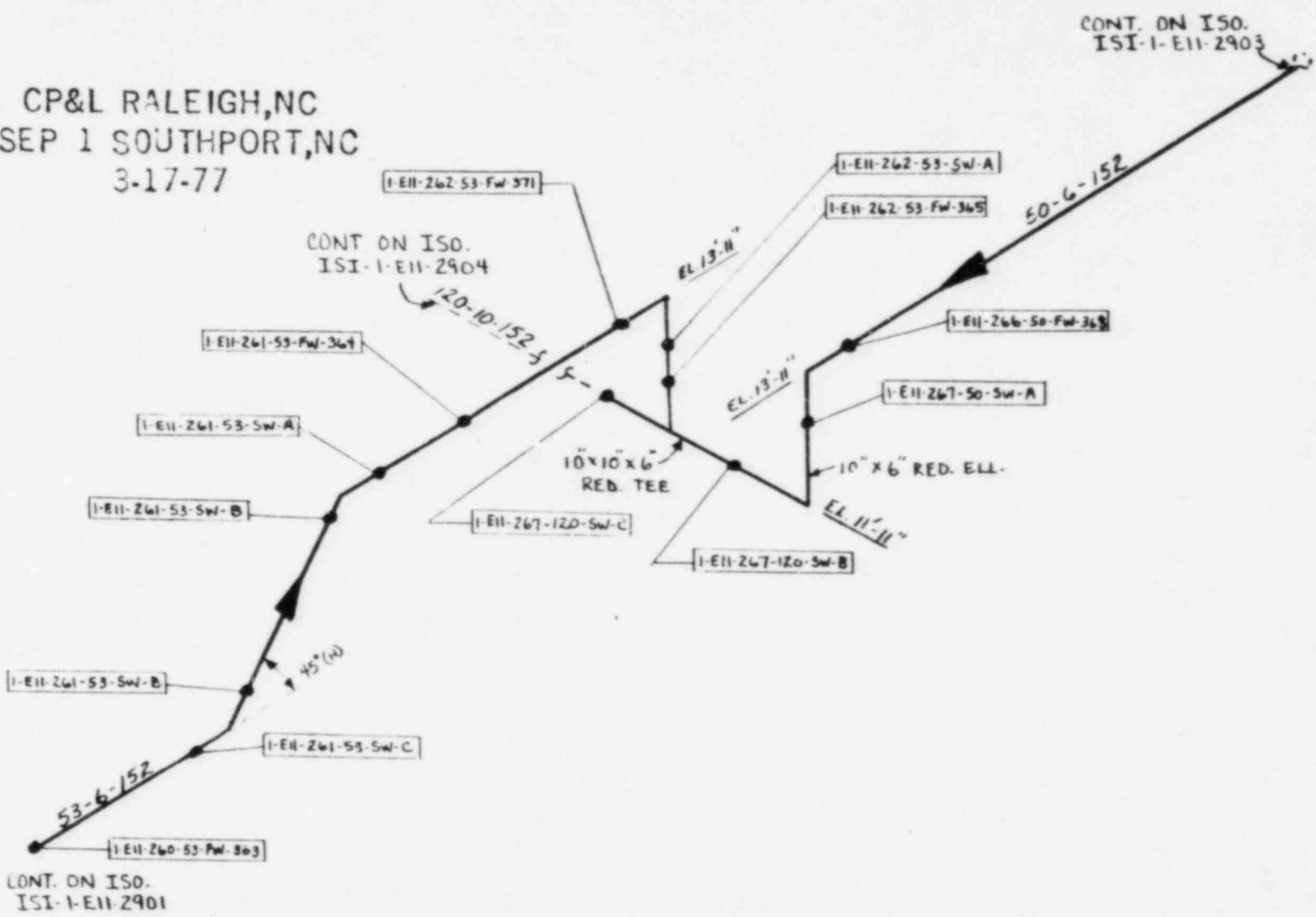
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BSEP 1 SOUTHPORT, NC
3-17-77



ISI-1-E11-2901 R.O

8-63

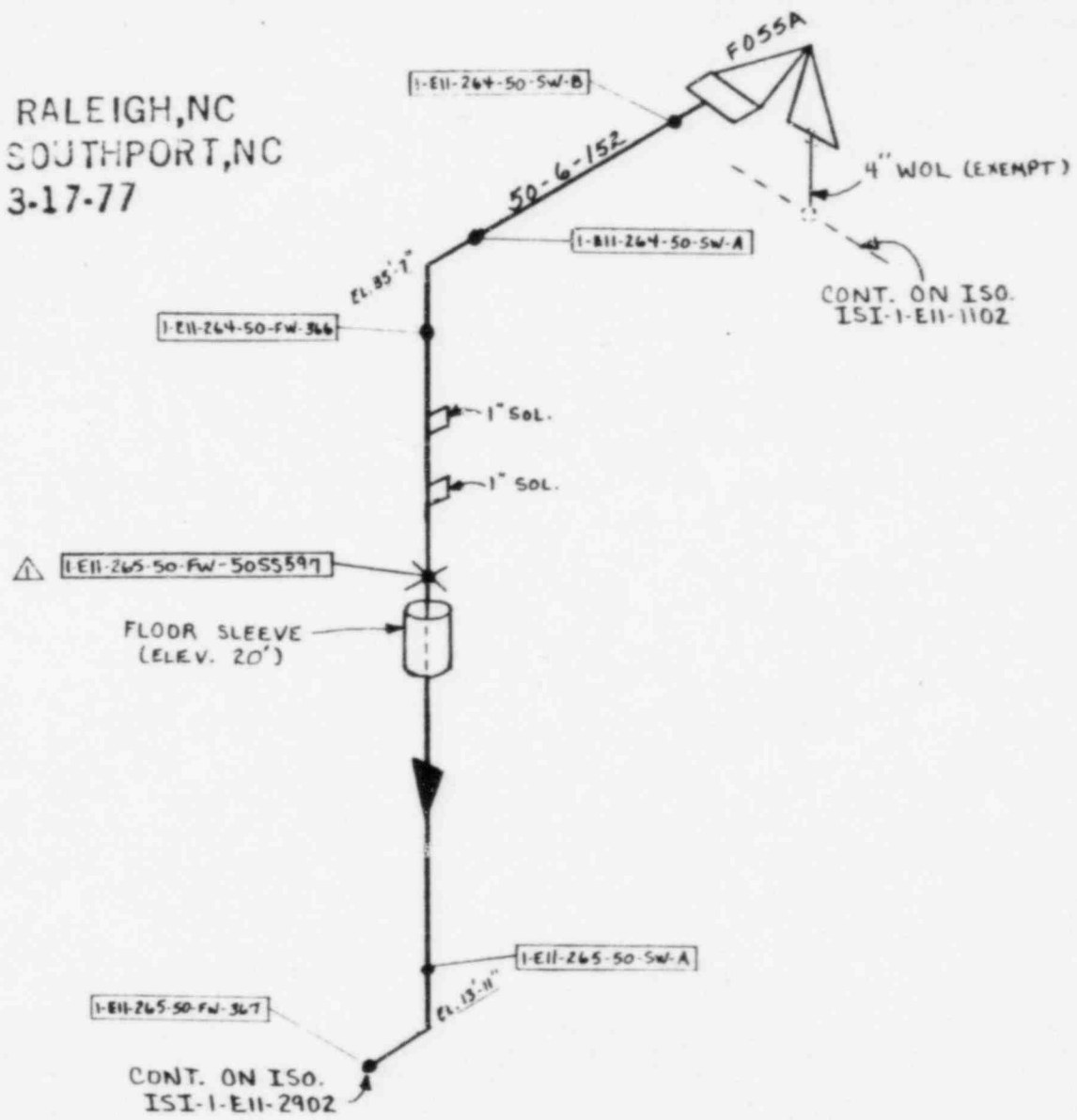
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3-17-77



8-64

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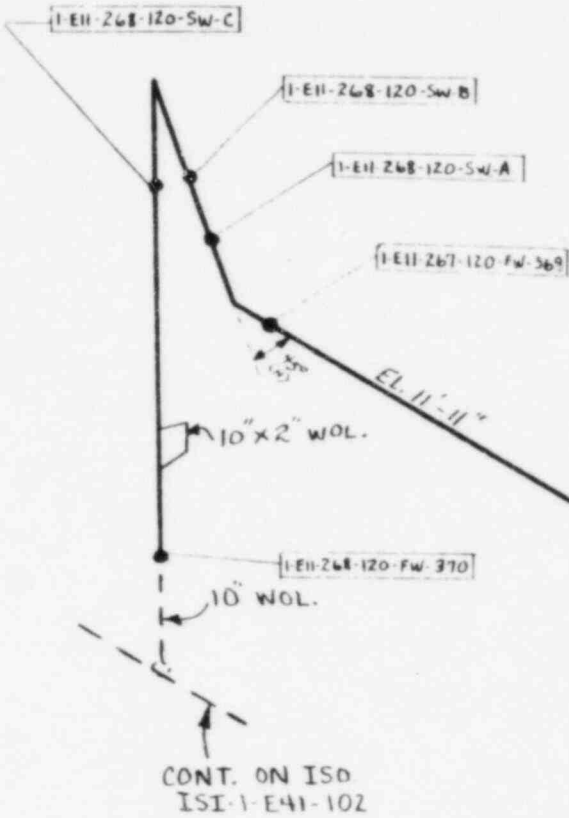


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By *SL* 4/18/81
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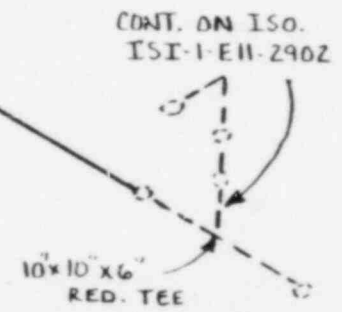
99-8

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3-17-77



EL. 11'-11"

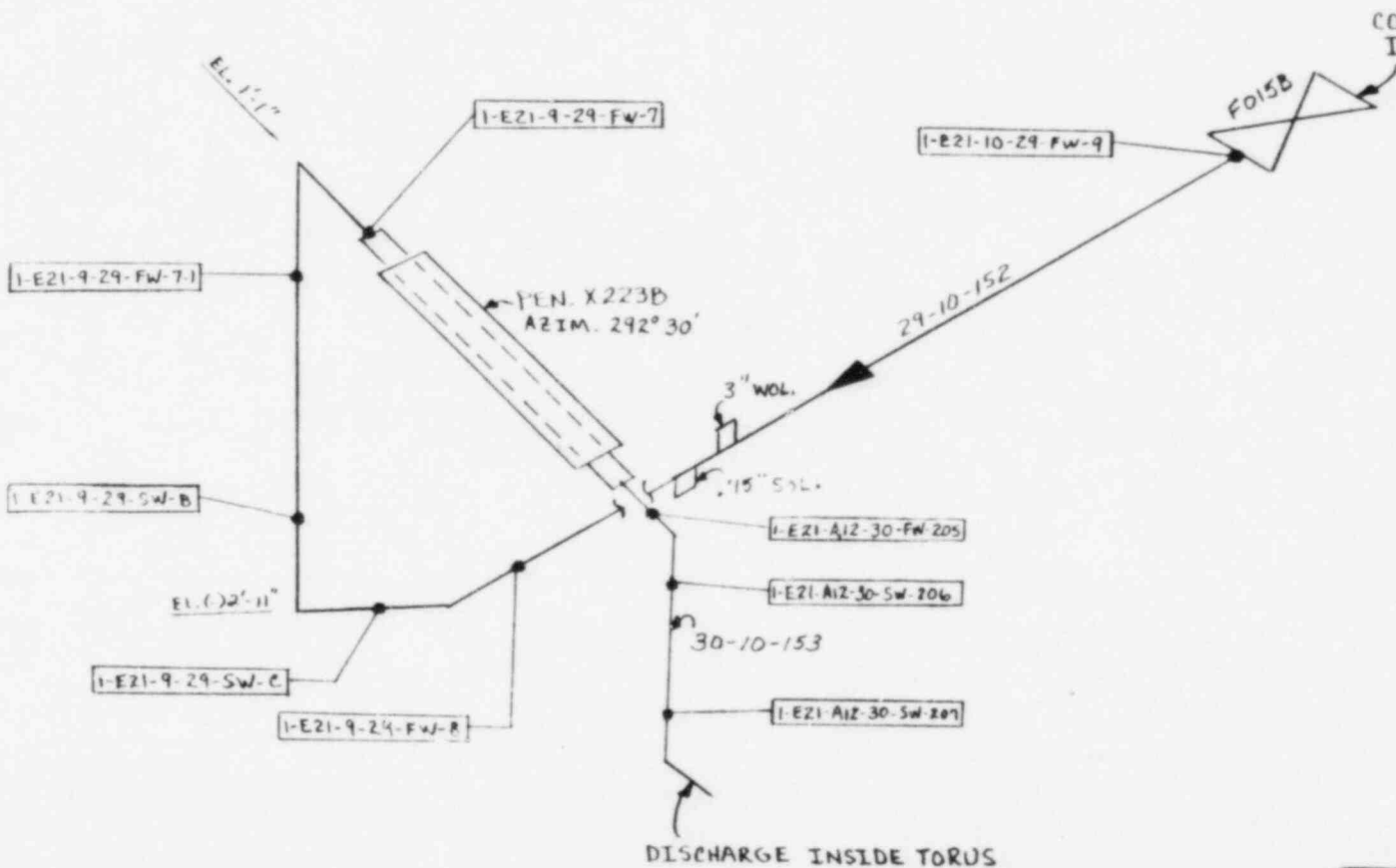
120-10-152



ISI-1-E11-2904 R.O

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3-17-77

CONT. ON ISO.
ISI-1-E21-502



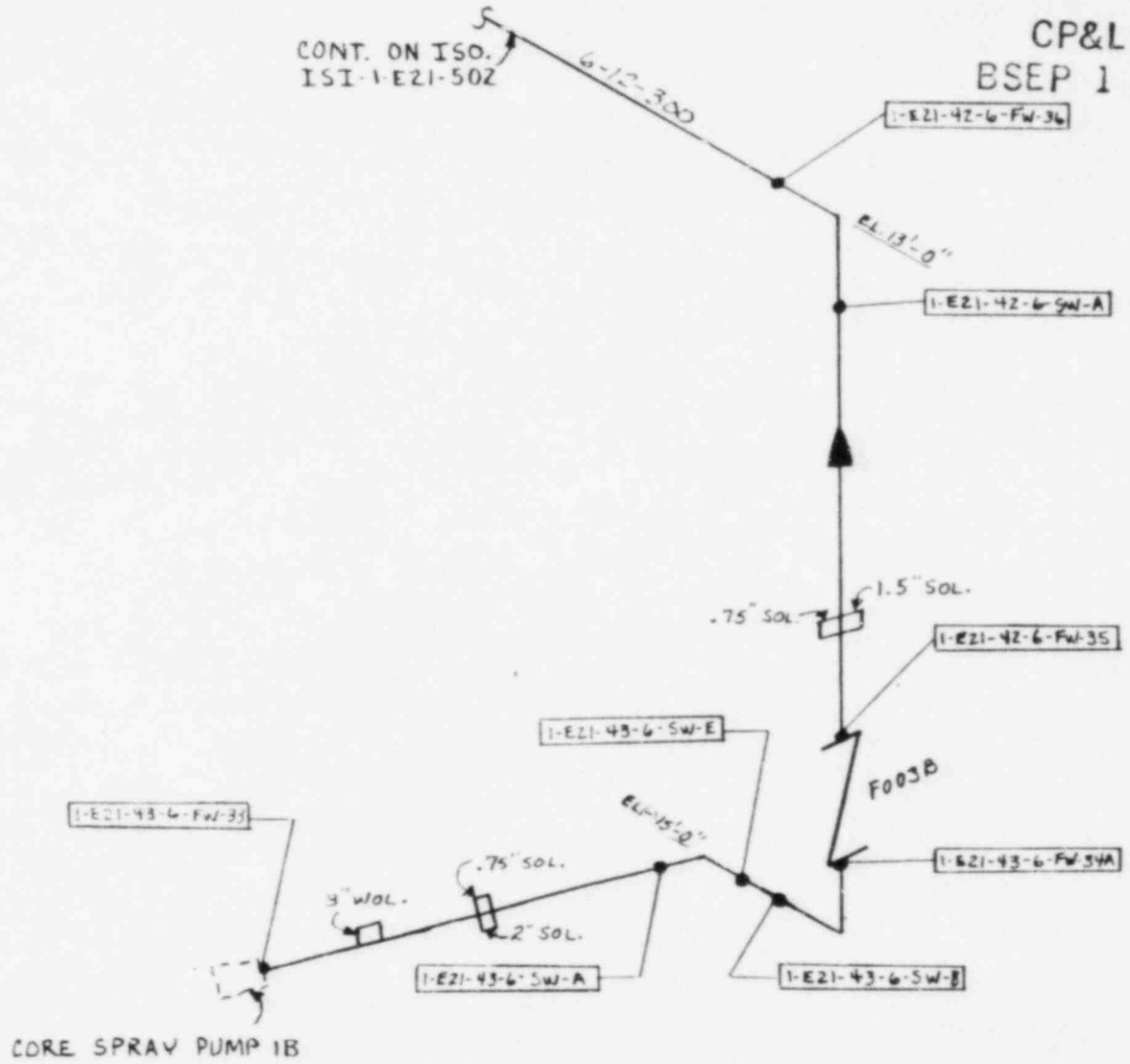
89-8

ISI-1-E21-302 R.O

69-8

CONT. ON ISO.
ISI-1-E21-502
6-12-300

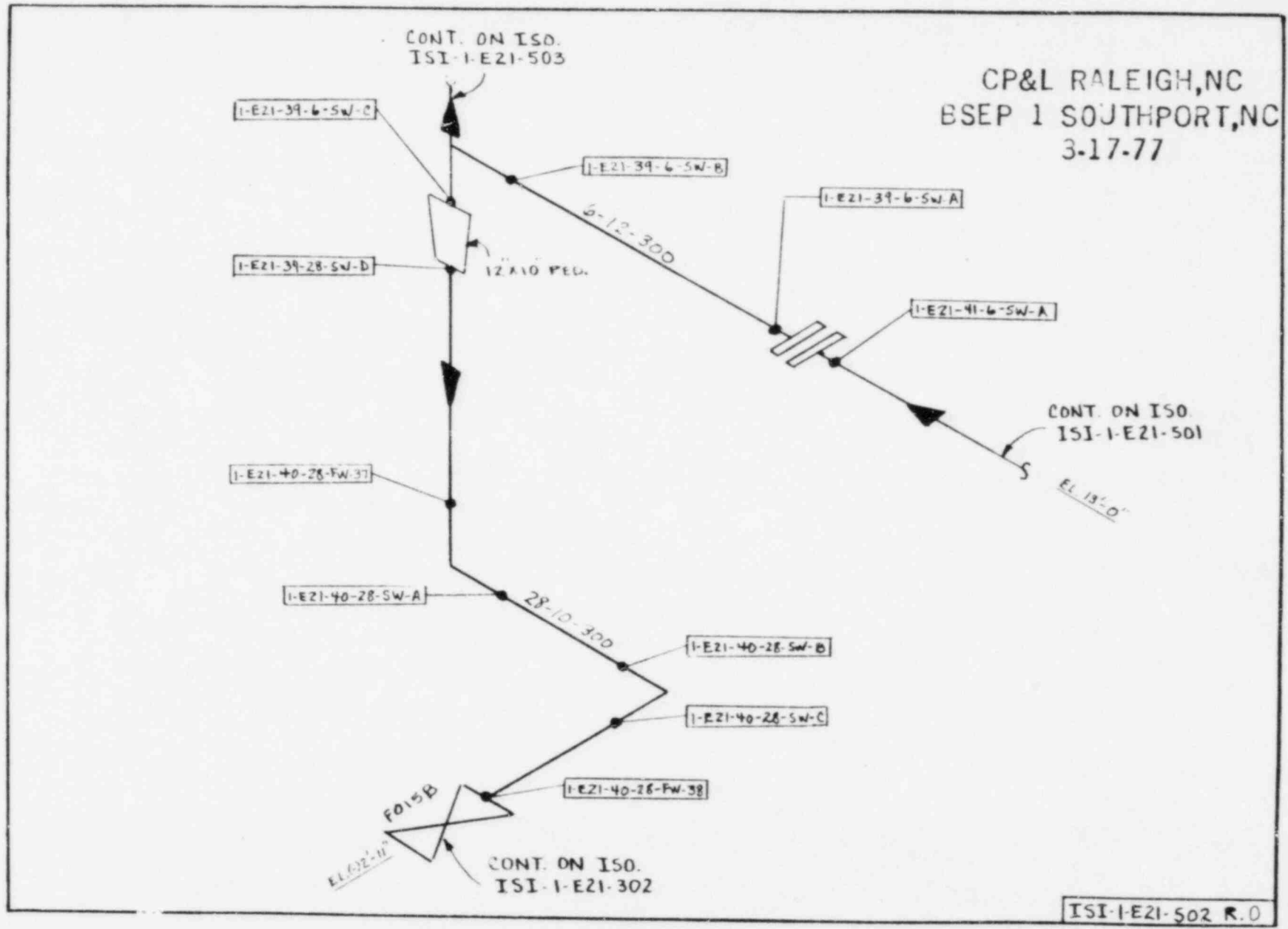
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3-17-77



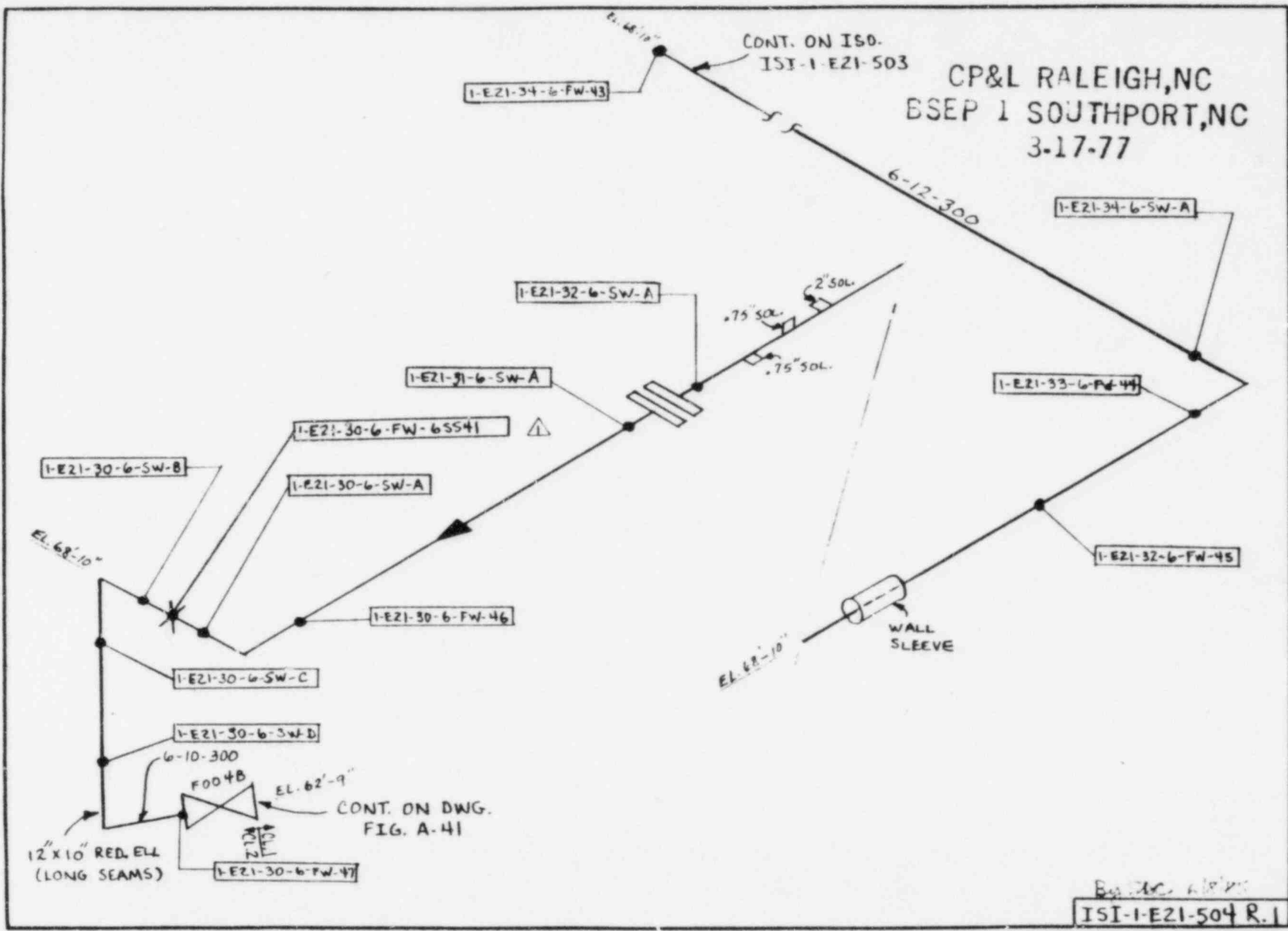
CORE SPRAY PUMP 1B

ISI-1-E21-501 R.O

8-70

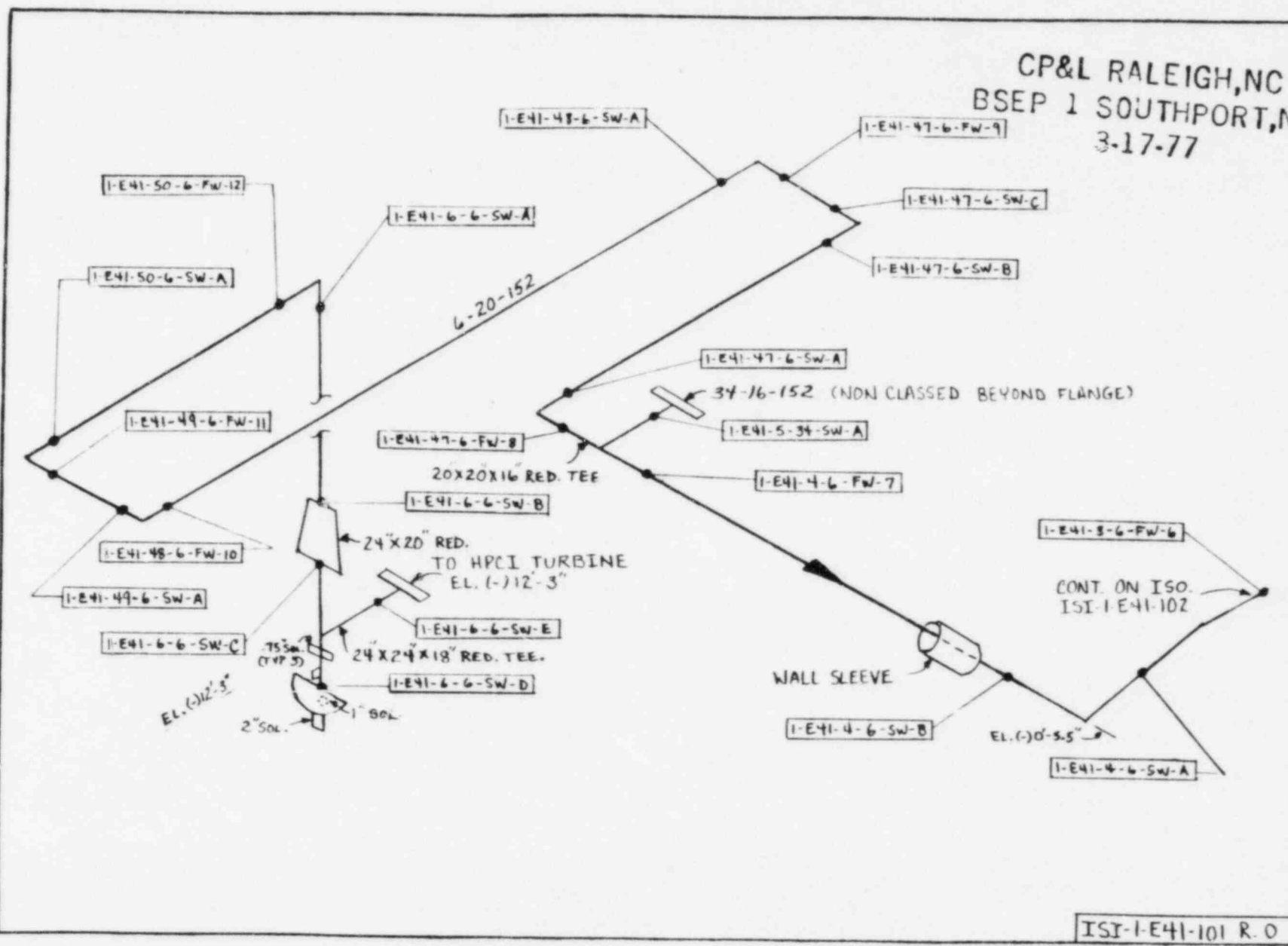


8-71



ISI-1-EZI-504 R.1

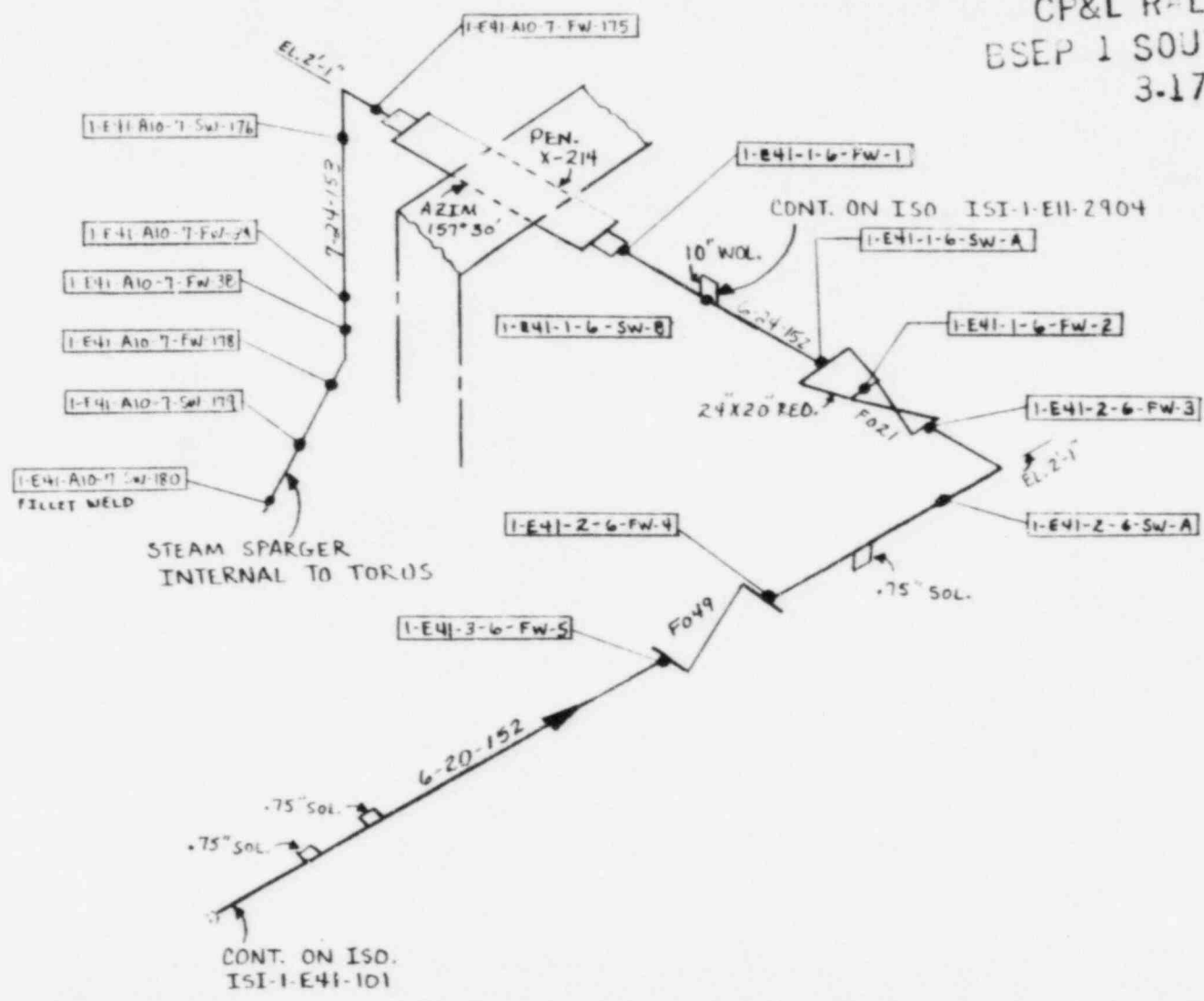
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8-72

ISI-1-E41-101 R.0

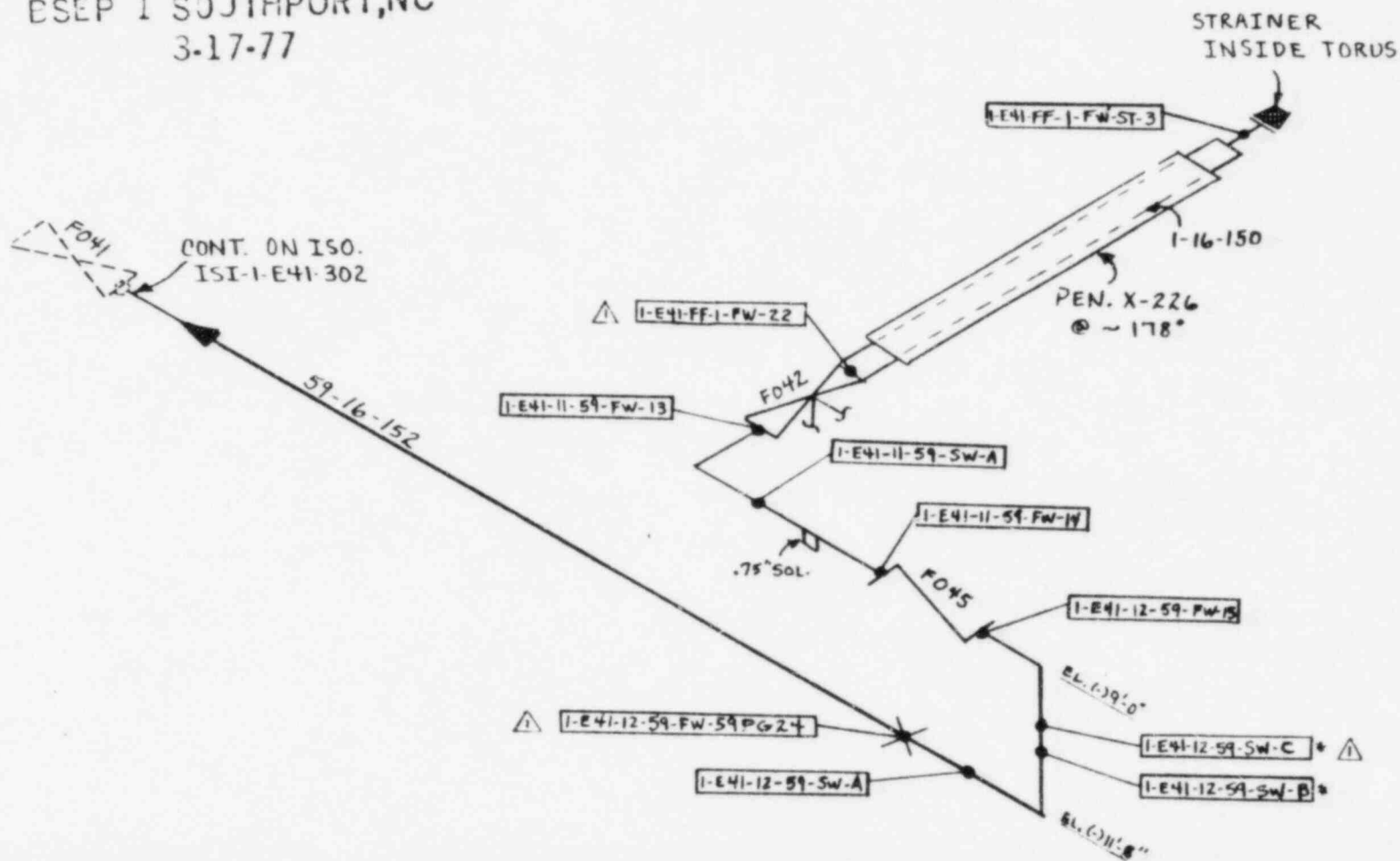
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ISI-1-E41-102 R.O

8-73

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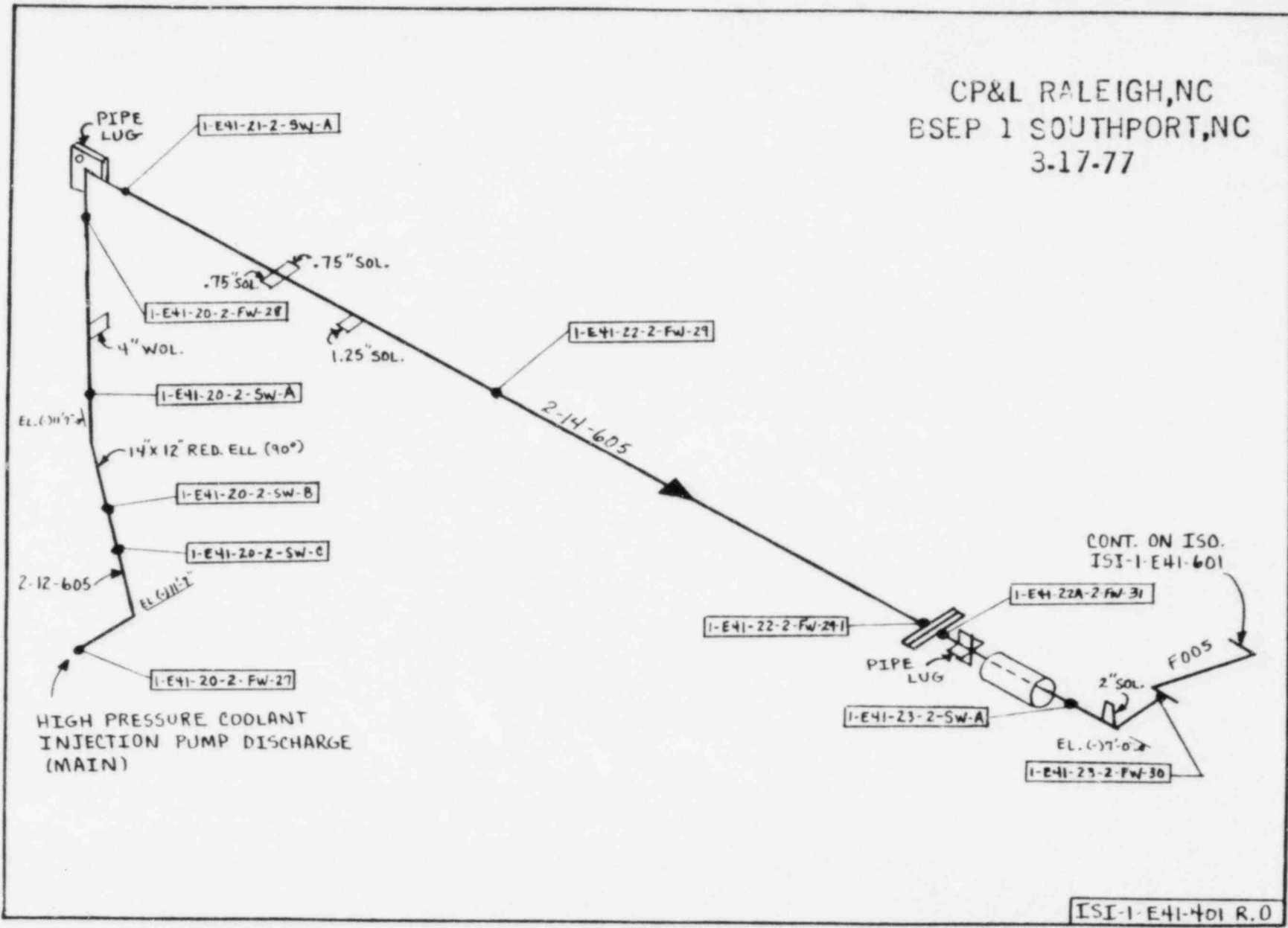
8-74

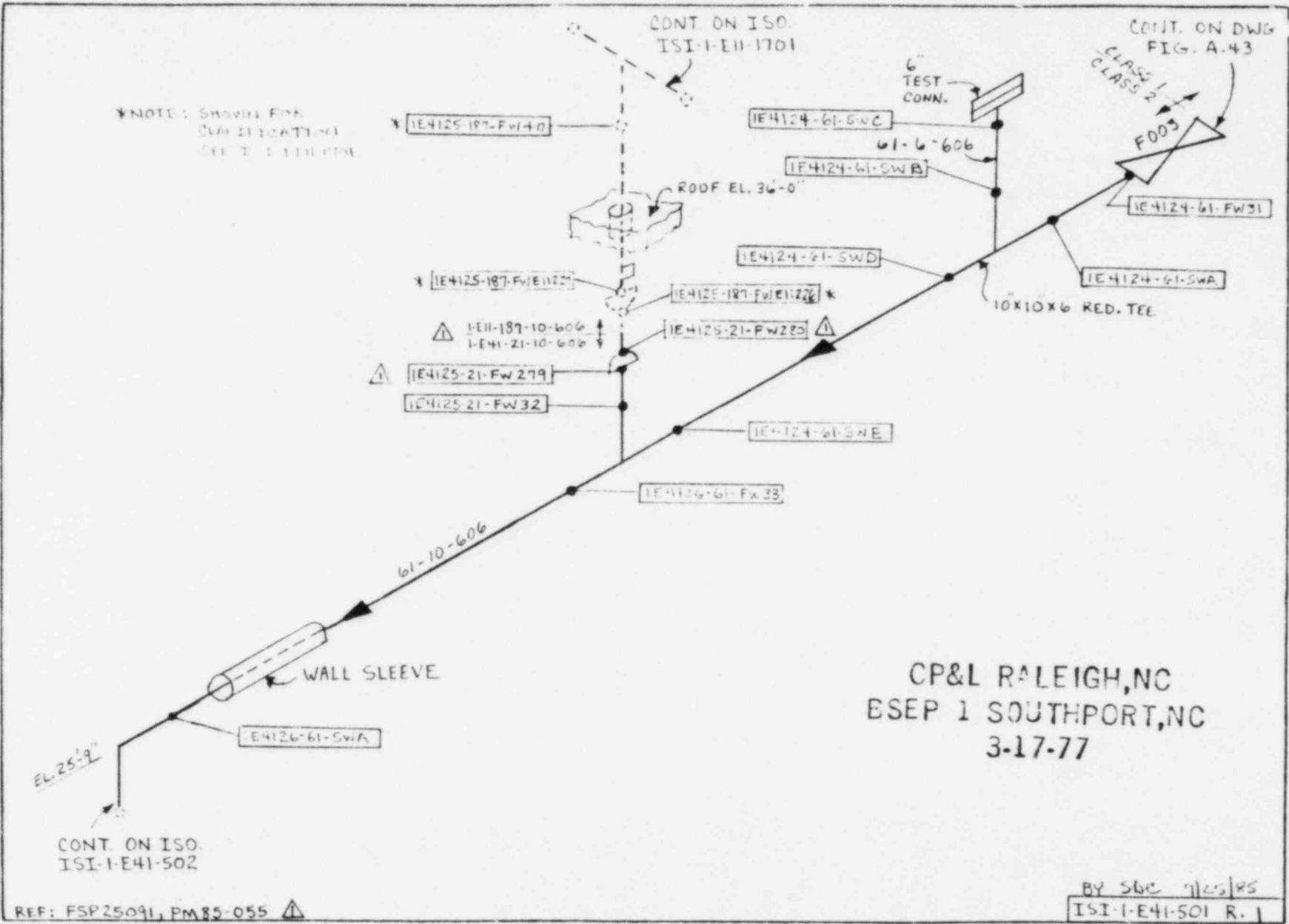
* NOT SHOWN ON 1-E41-12

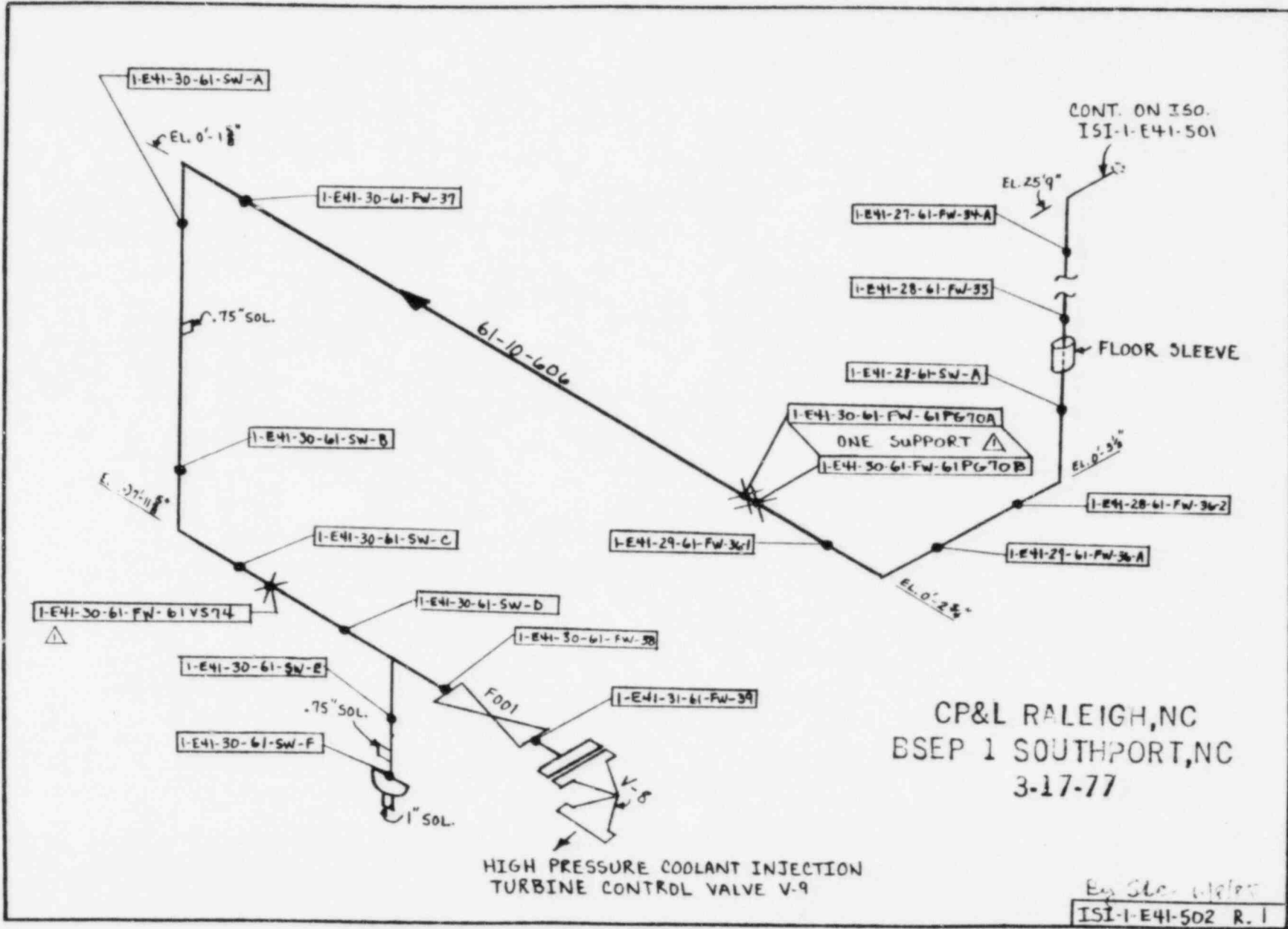
By SBC 6/18/85
 ISI-1-E41-301 R.1

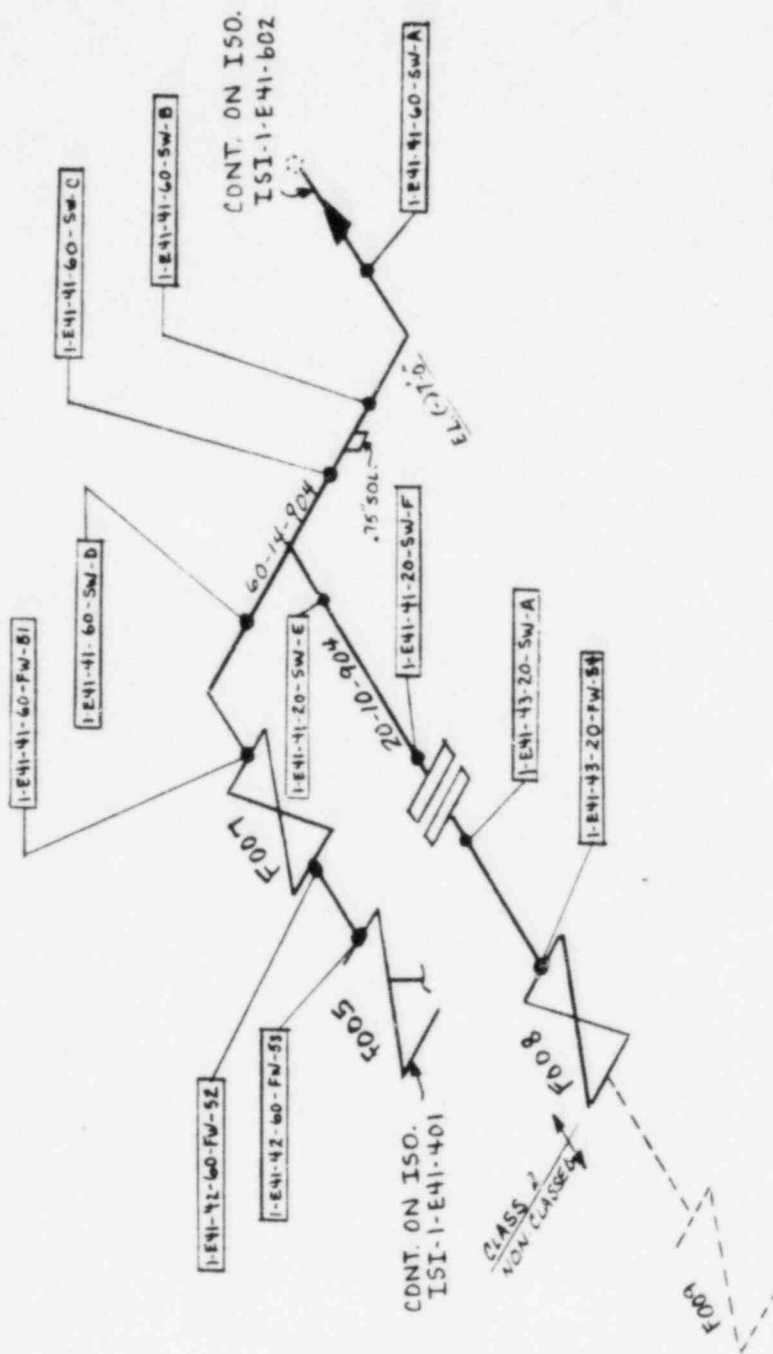
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8-76





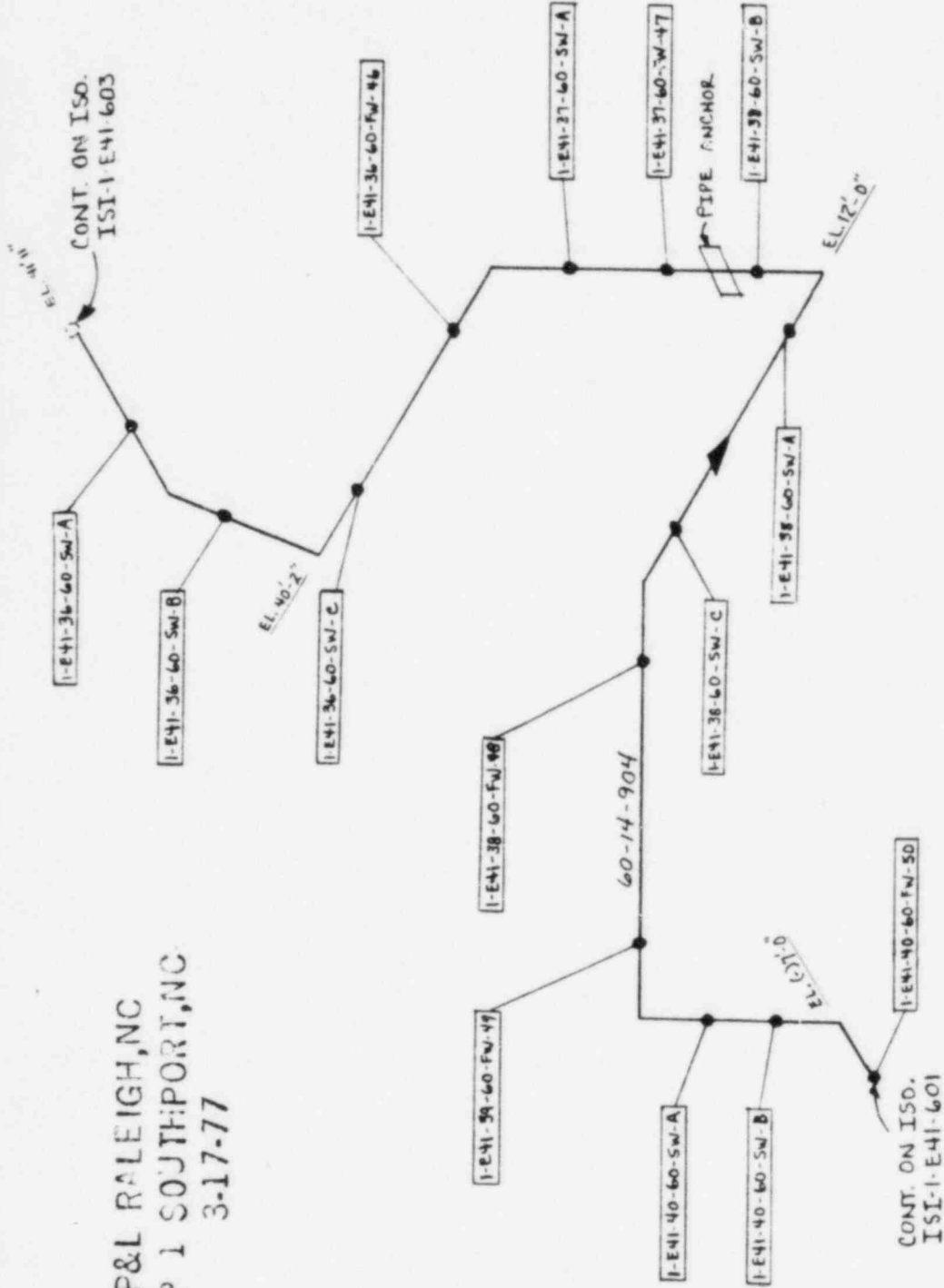




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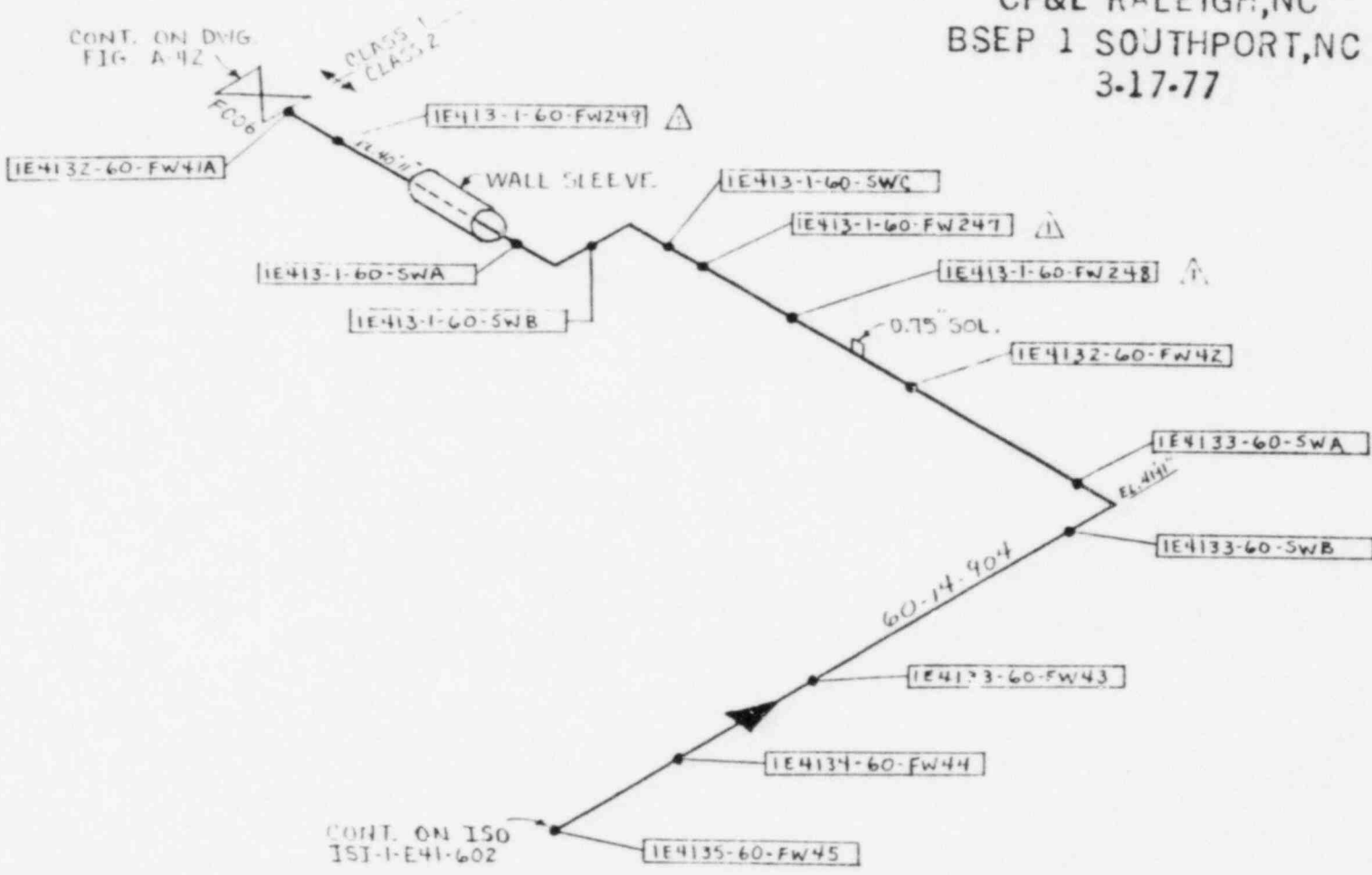
ISI-1-E41-601 R.O

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ISI-1-E41-602 R.O

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 3-17-77

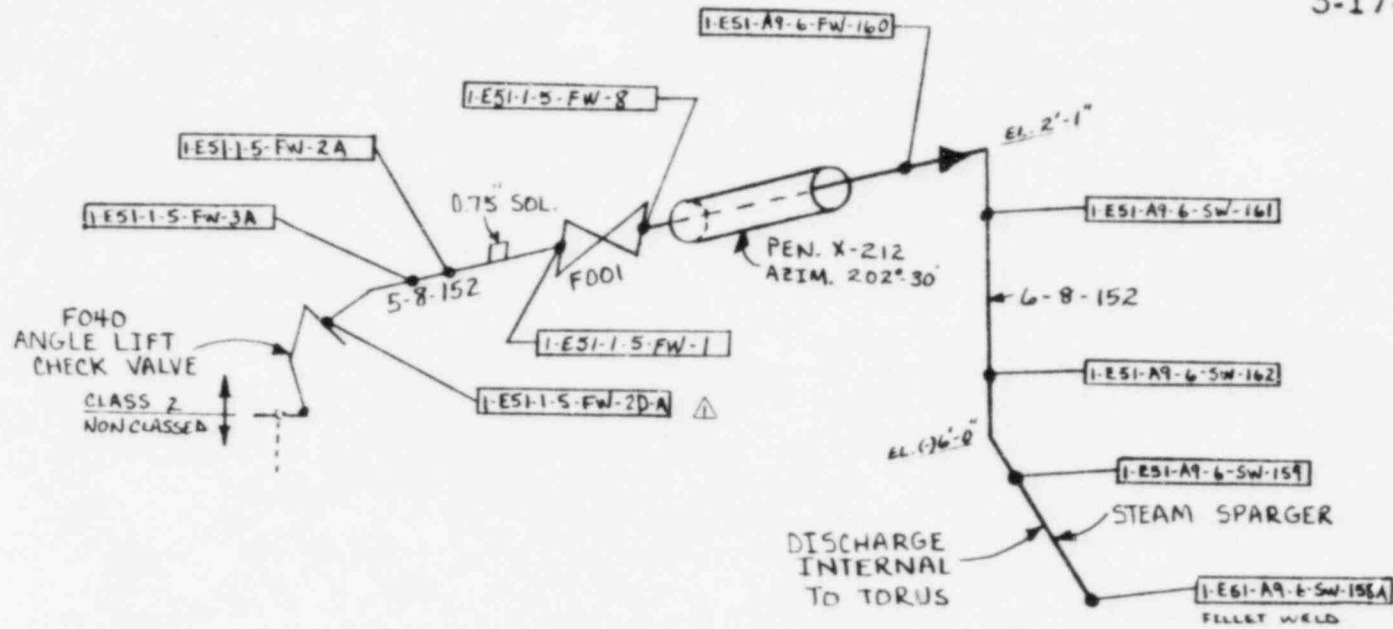


18-8

REF: PM84-381

By *slc* 7/25/85
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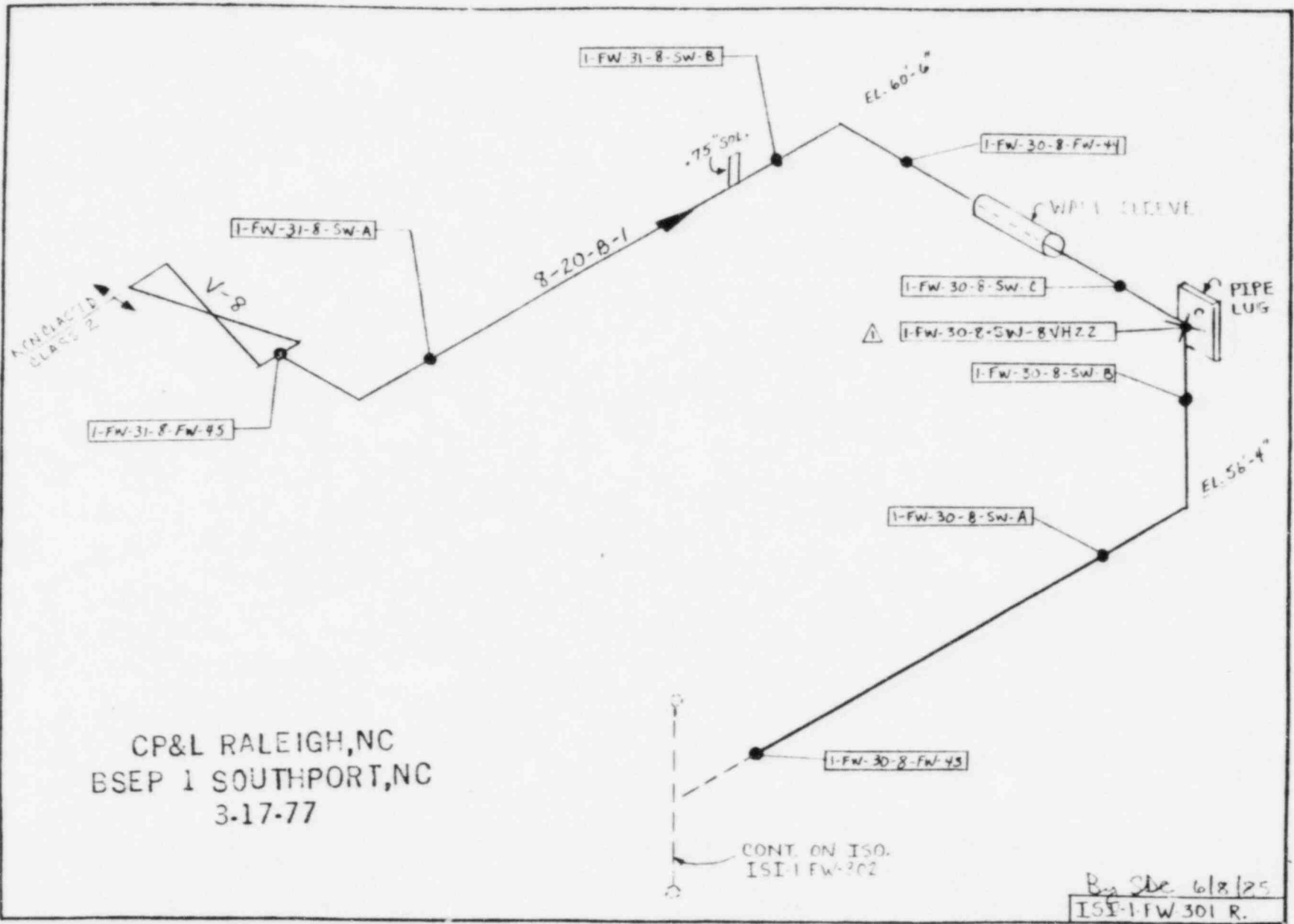
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 BSEP 1 SOUTHPORT, NC
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8-82

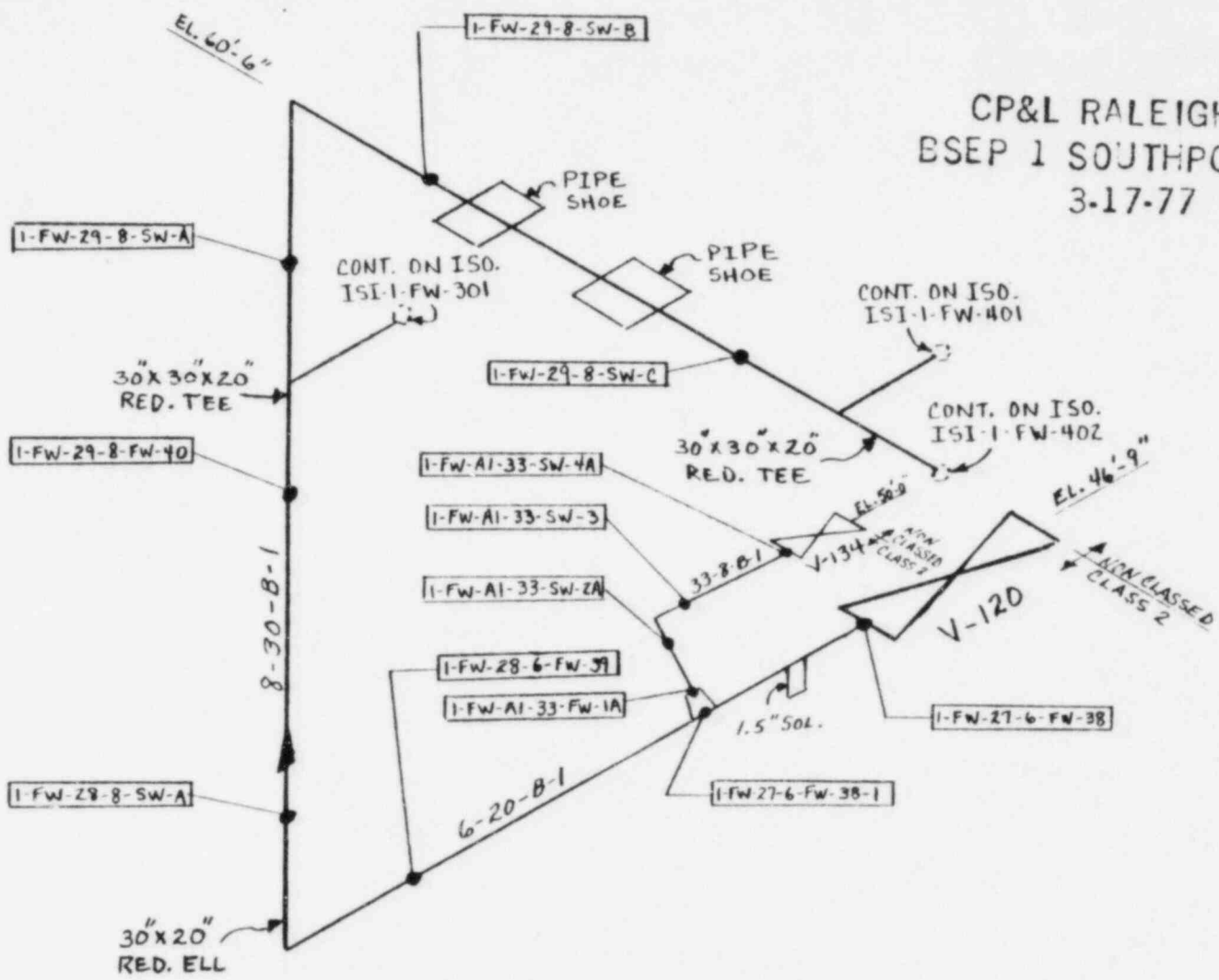
BY SDC 3-14-85
 ISI-1-E51-150 R.1

8-83



CP&L RALEIGH, NC
 BSEP 1 SOUTHPORT, NC
 3-17-77

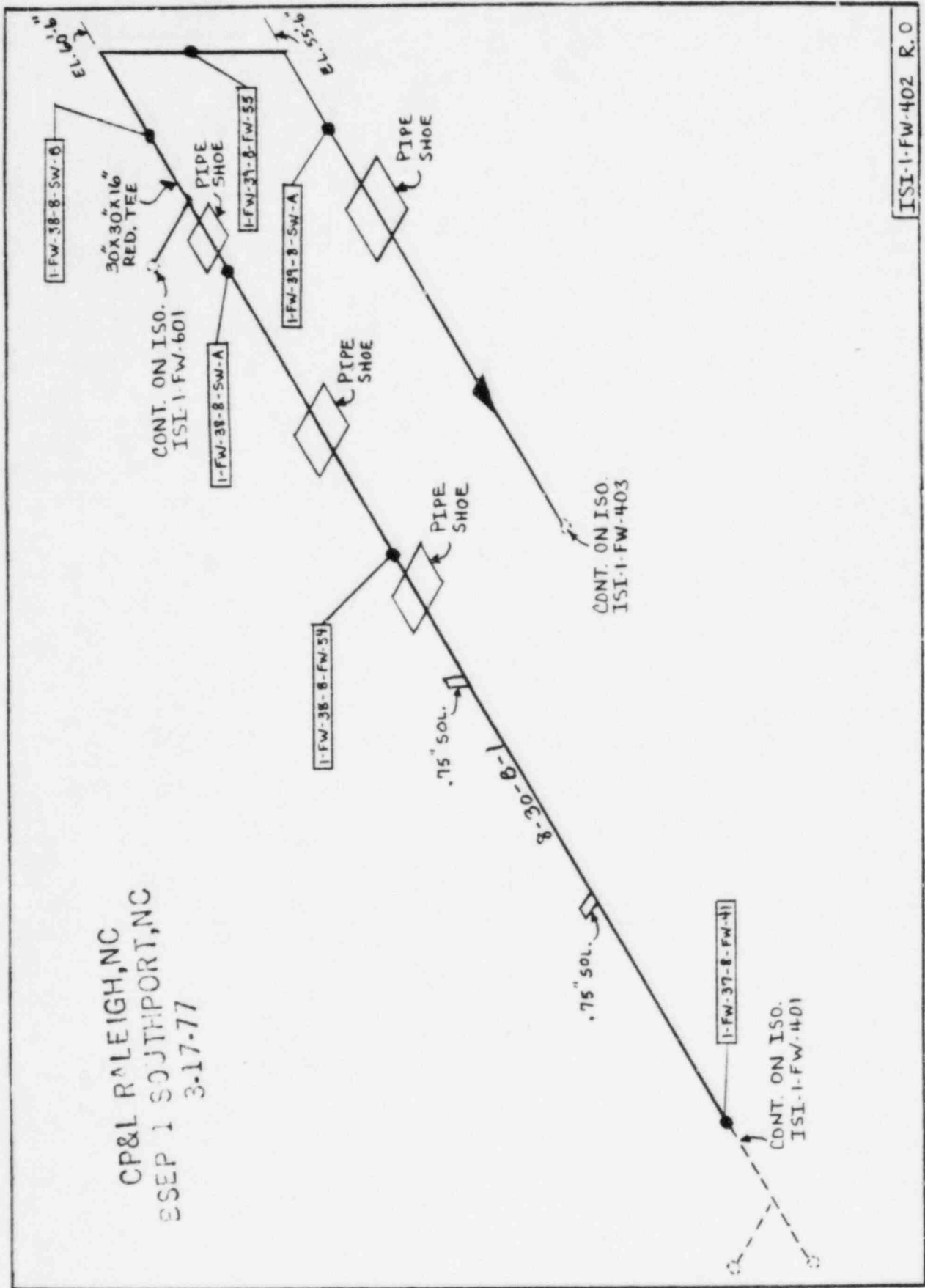
CP&L RALEIGH, NC
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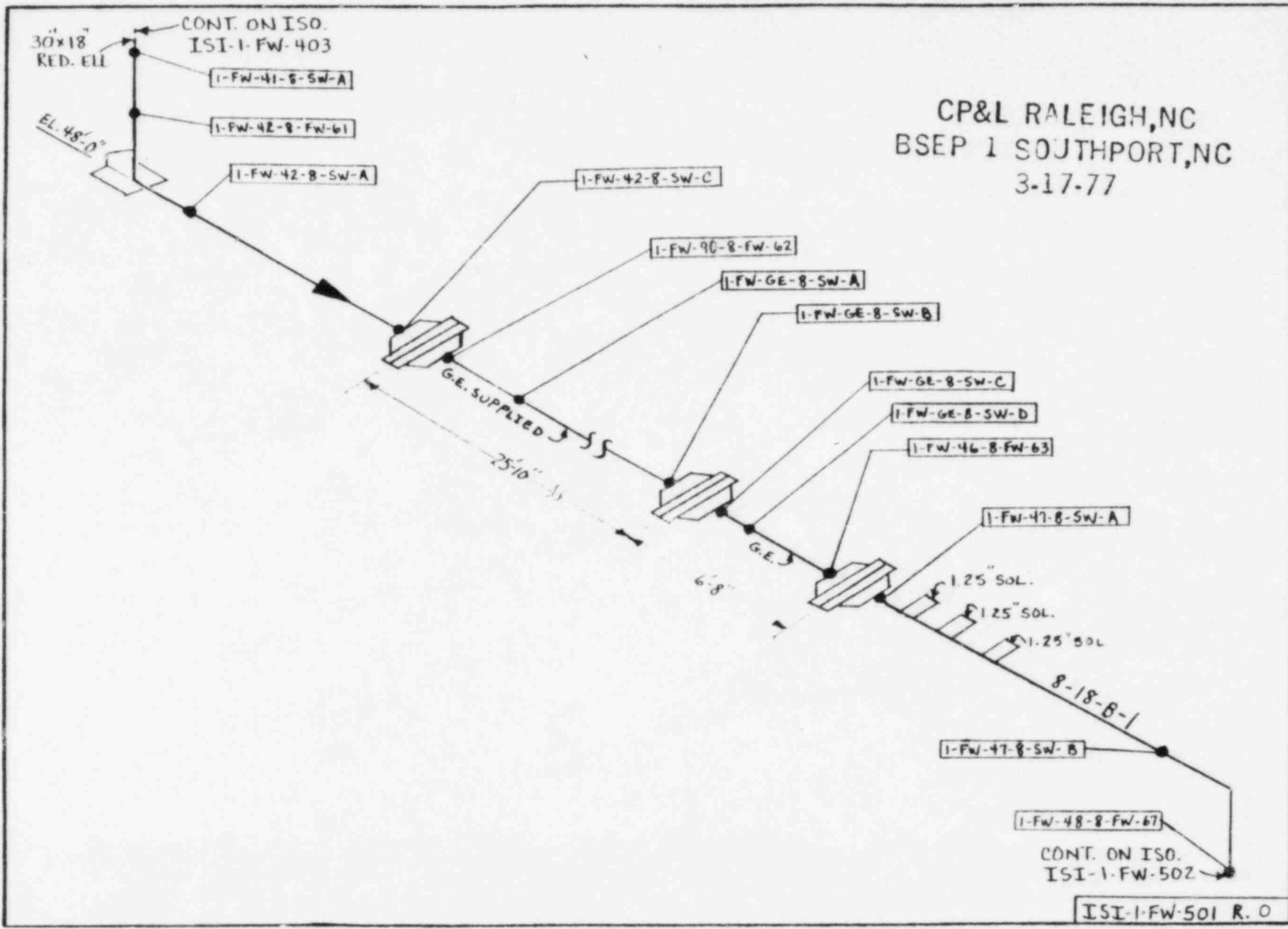
8-84

ISI-1-FW-302 R.O

CP&L RALEIGH, NC
ESEP 1 SOUTHPORT, NC
3-17-77

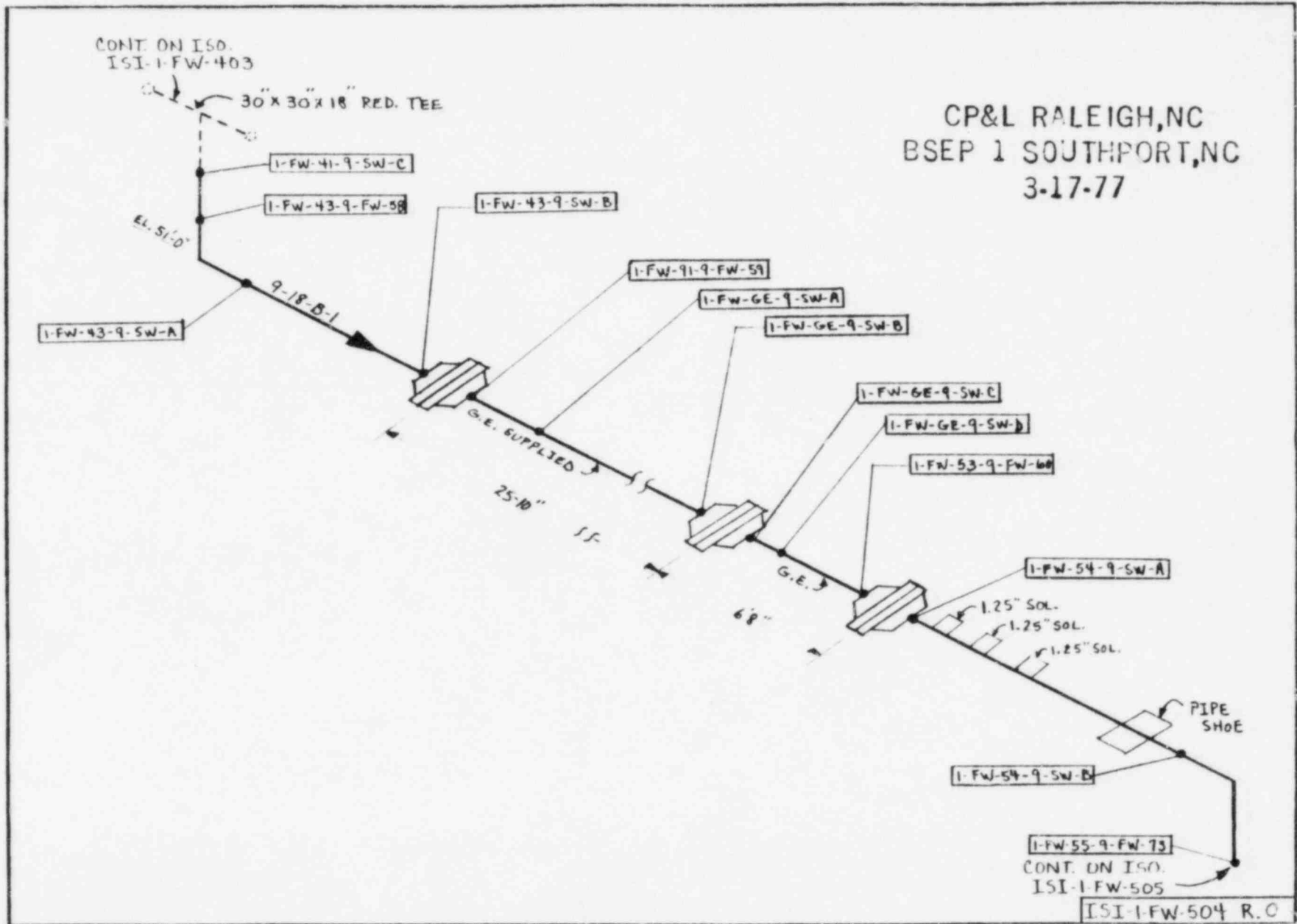


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3-17-77



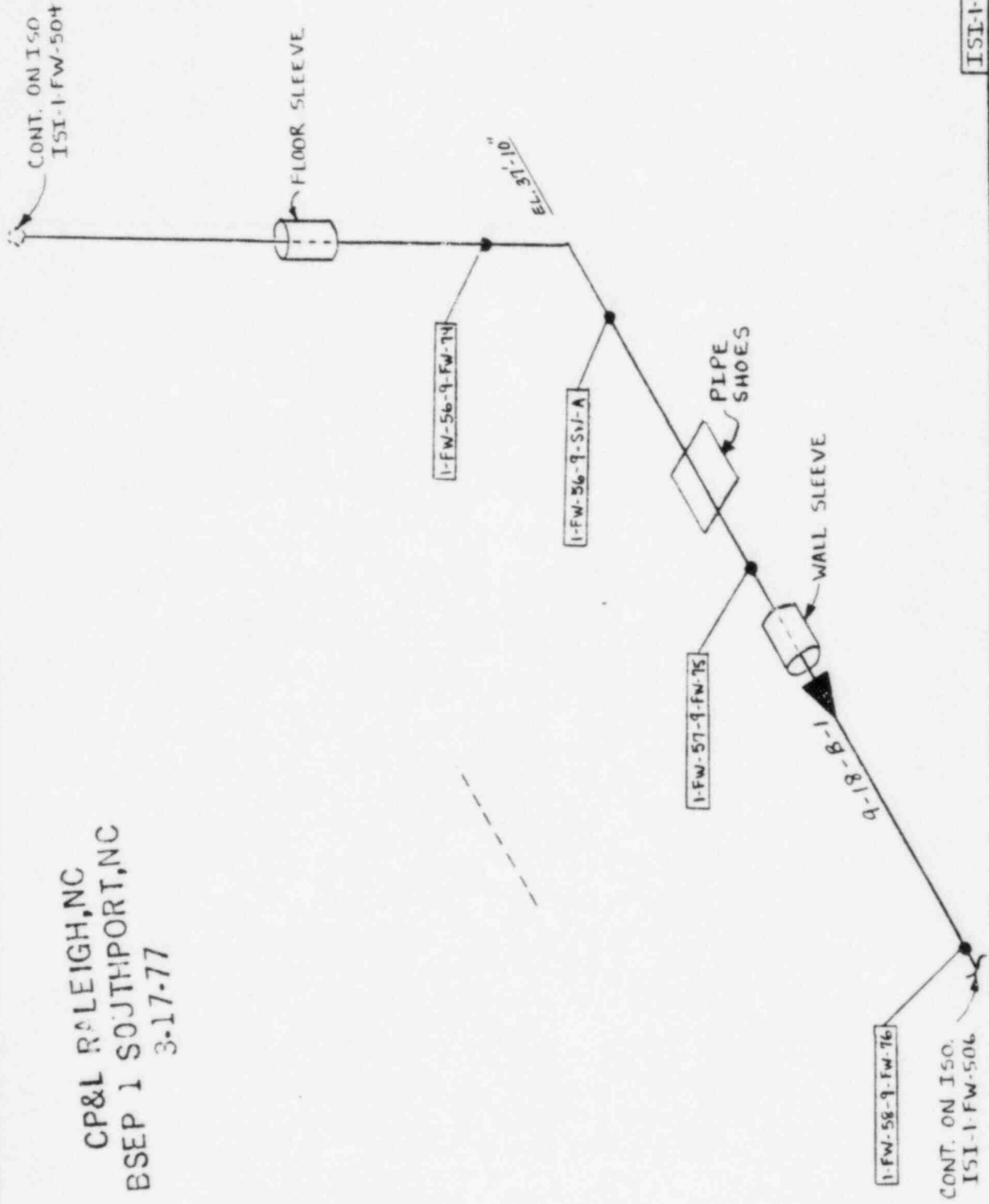
98-8

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3-17-77



8-87

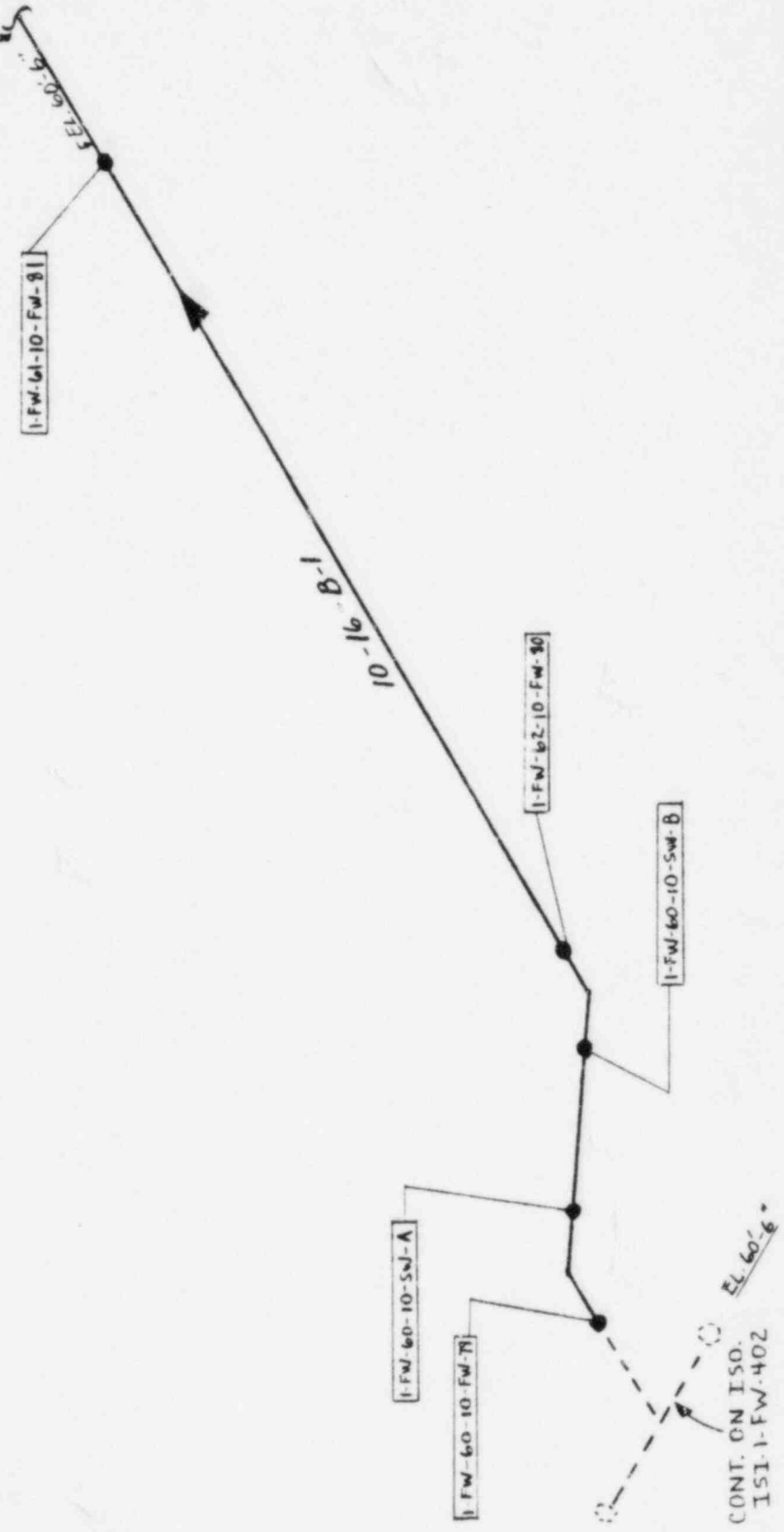
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BSEP 1 SOUTHPORT, NC
3-17-77



ISI-1-FW-505 R.O

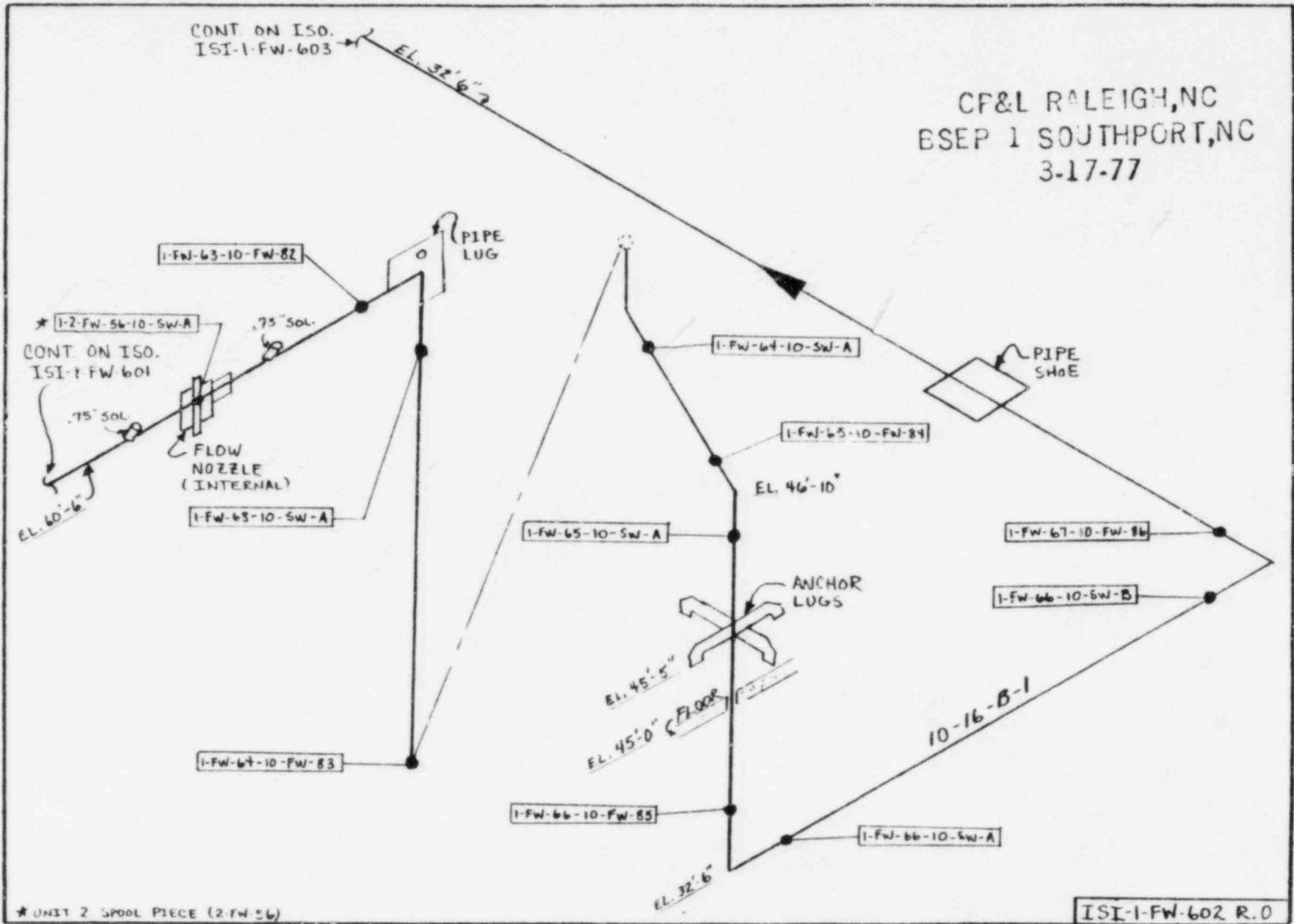
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BSEP 1 SOUTHPORT, NC
3.17.77

CONT. ON ISO.
ISI-1-FW-602



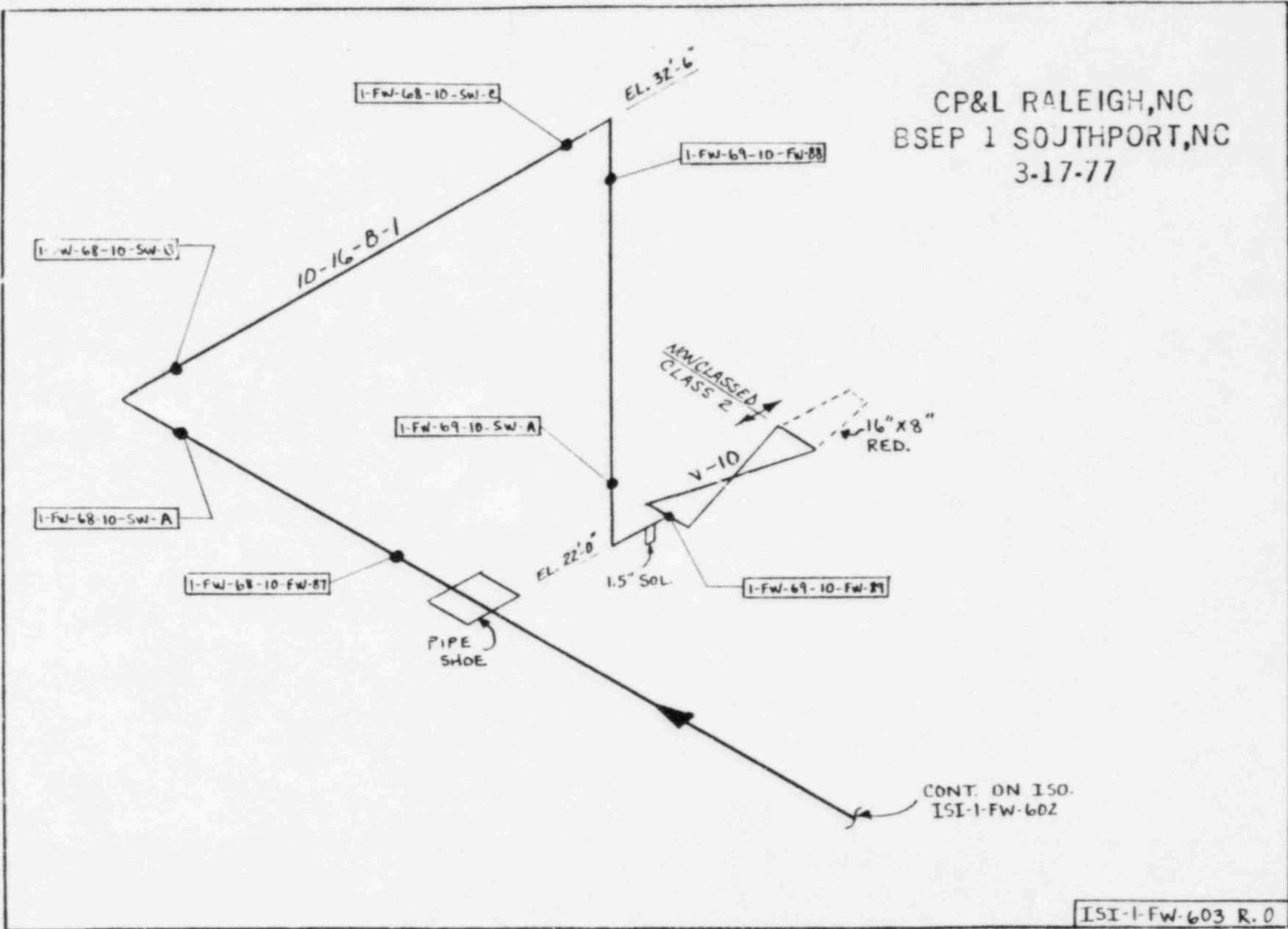
ISI-1-FW-601 R.0

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3-17-77



06-8

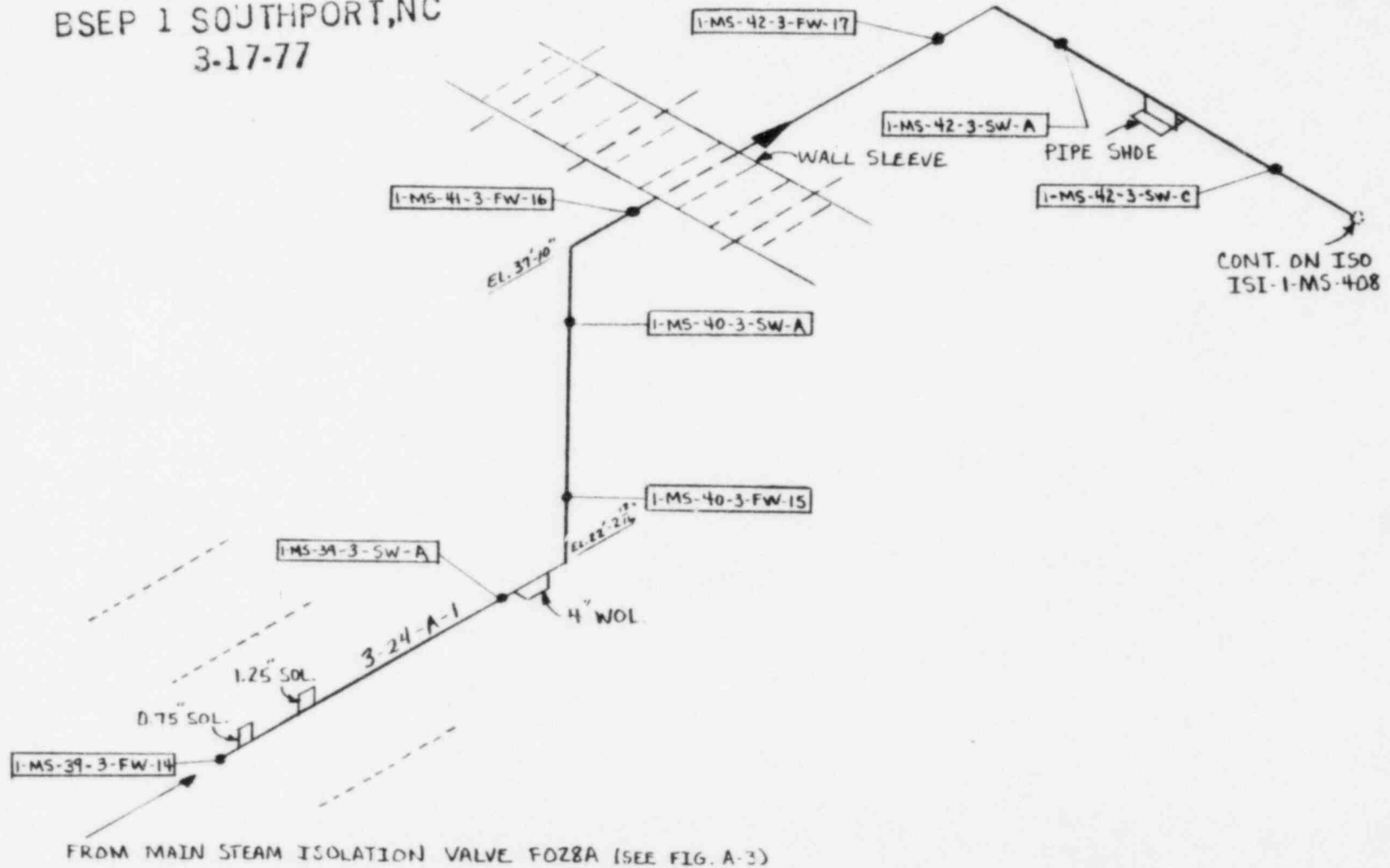
CP&L RALEIGH, NC
BSEP 1 SOUTHPORT, NC
3-17-77



16-8

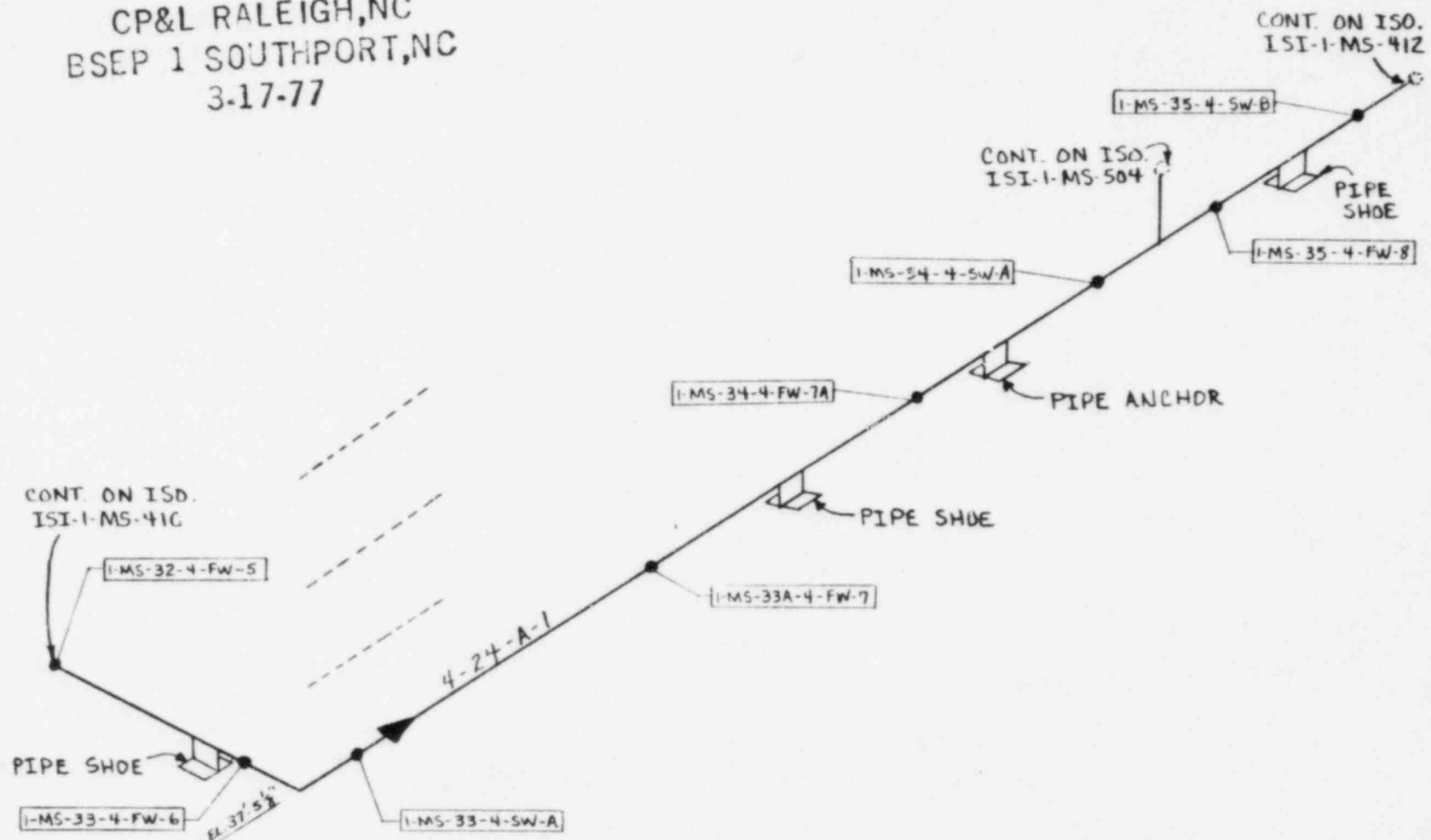
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BSEP 1 SOUTHPORT, NC
3-17-77



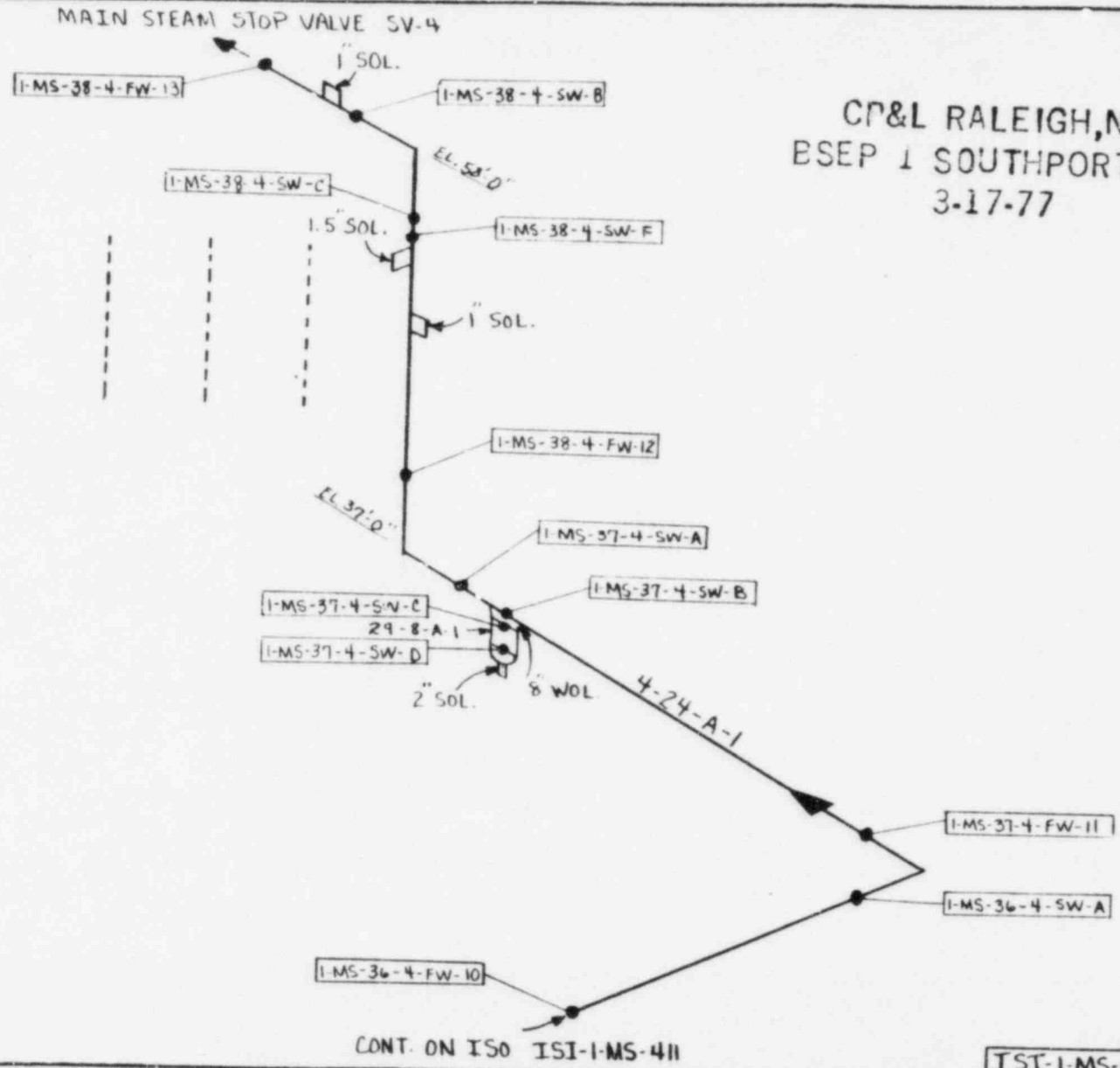
ISI-1-MS-407 R.O

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BSEP 1 SOUTHPORT, NC
3-17-77



ISI-1-MS-411 R.O

CP&L RALEIGH, NC
BSEP 1 SOUTHPORT, NC
3-17-77



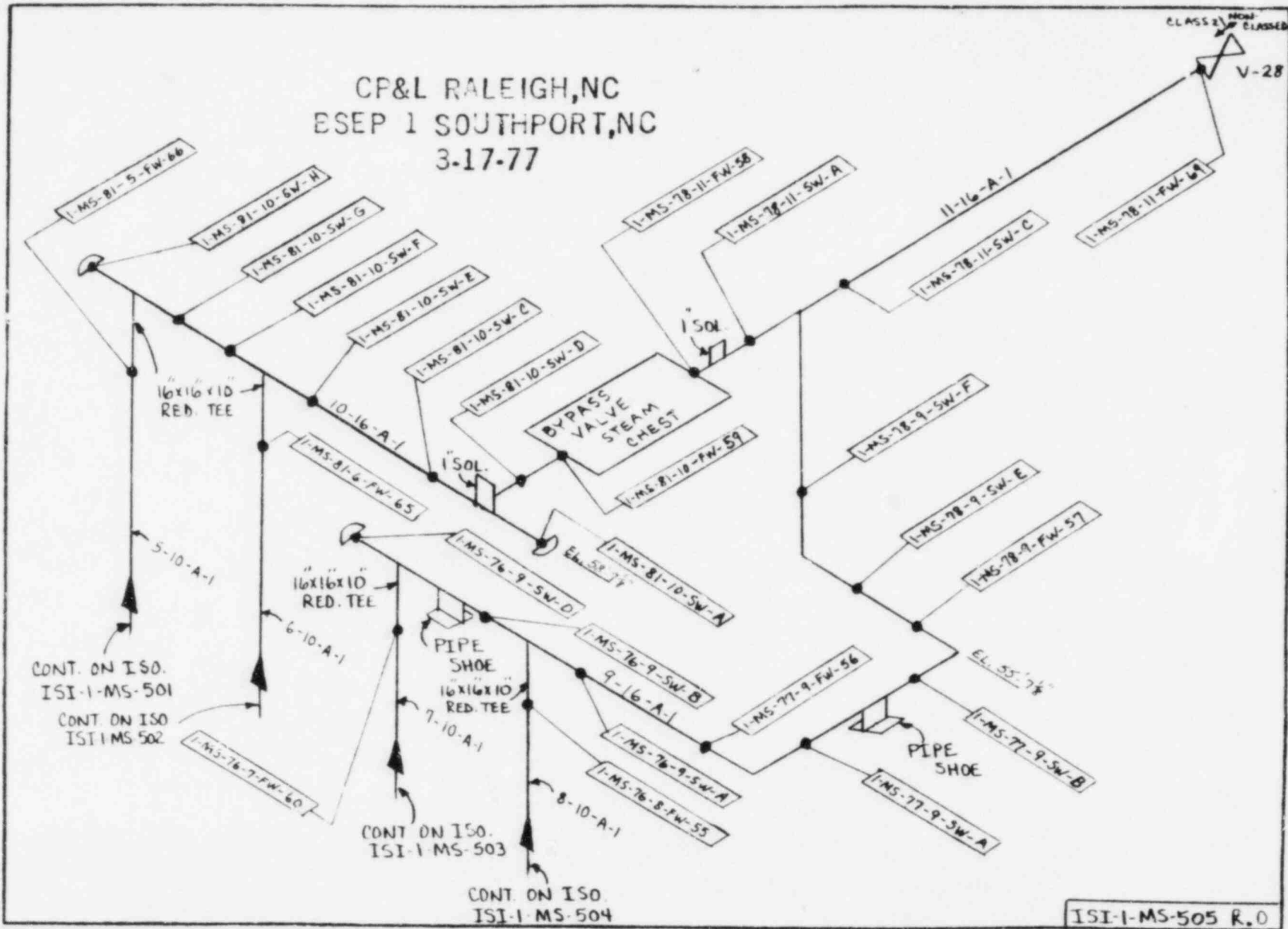
8-94

CONT. ON ISO ISI-1-MS-411

ISI-1-MS-412 R.O

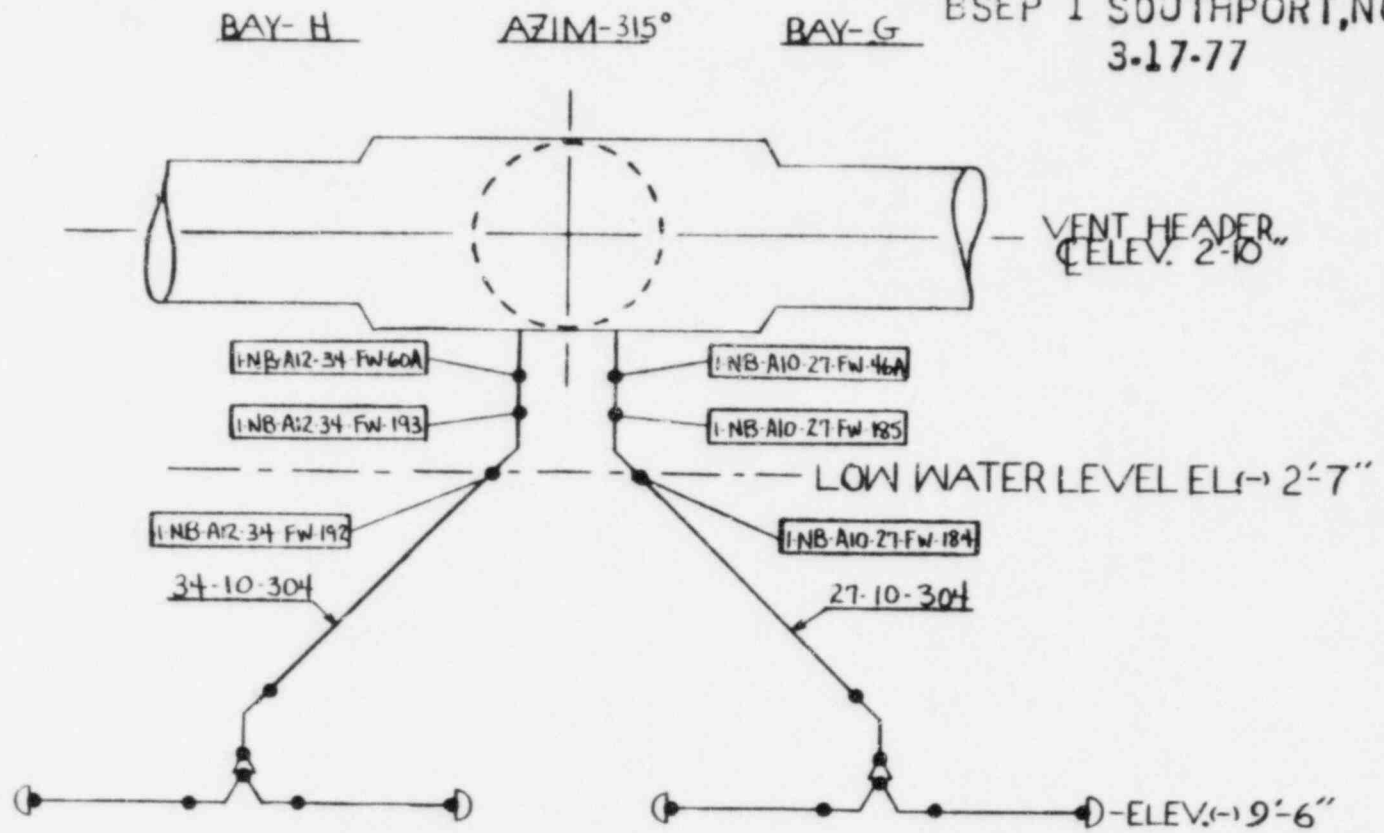
8-95

CP&L RALEIGH, NC
ESEP 1 SOUTHPORT, NC
3-17-77



96-8

CP&L RALEIGH, NC
BSEP 1 SOUTHPORT, NC
3-17-77



ISI-1-NB-601 R.O

CAROLINA POWER AND LIGHT COMPANY, RALEIGH, NC
 BRUNSWICK STEAM ELECTRIC PLANT, UNIT 1 SOUTHPORT, NC
 COMMERCIAL DATE MARCH 17, 1977

9.0 NIS-2 FORMS

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| 81-207 | 9-5 |
| 81-333 | 9-6 |
| 82-067 | 9-7 THROUGH 9-8 |
| 82-071 | 9-9 THROUGH 9-10 |
| 82-129 | 9-11 THROUGH 9-12 |
| 82-137 | 9-13 THROUGH 9-16 |
| 82-172 | 9-17 |
| 82-219P | 9-18 THROUGH 9-20 |
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| 82-287B | 9-28 THROUGH 9-29 |
| 82-287C | 9-30 THROUGH 9-33 |
| 82-287D | 9-34 THROUGH 9-37 |
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| 82-287K | 9-58 |
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| 82-287M | 9-61 THROUGH 9-64 |
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| 82-287O | 9-68 THROUGH 9-71 |
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CAROLINA POWER AND LIGHT COMPANY, RALEIGH, NC
BRUNSWICK STEAM ELECTRIC PLANT, UNIT 1 SOUTHPORT, NC
COMMERCIAL DATE MARCH 17, 1977

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| | |
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| 747507, 757789, 784833 | 9-151 |
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TROUBLE TICKET NUMBER

| | |
|--------------------------|-------|
| 1-M-84-5391, 1-M-84-5392 | 9-152 |
| 1-M-85-1978 | 9-153 |
| 1-M-85-2298 | 9-154 |

CASE
N-308

1. Owner: Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
2. Plant: Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
3. Unit: 1
4. Owner Certificate of Authorization: N/A
5. Commercial Date: March 17, 1977
6. National Board No.: N/A

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date 10/18/85
PO Box 1551, Raleigh, NC 27602 Sheet 1 of 1
(Name)
(Address)

2. Plant Brunswick Steam Electric Plant Unit One
PO Box 10429, Southport, NC 28461
(Name)
(Address)

3. Work Performed by CP&L Maintenance & Const. Dept. Plant Modification 77-255
PO Box 10429, Southport, NC 28461
(Name) (Address) Repair Organization P.O. No., Job No., etc.

4. Identification of System Torus Keepfill System
(Address)

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S'78 Addenda, Code Cases N/A

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Flange | Capital | N/A | N/A | N/A | Heat R22K | N/A | Replacement | No |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Disconnect/Disable Torus Keepfill System

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 165 psi Test Temp. Amb. °F

9. Remarks ISI boundary relocated to 1-TD-V2. Pipe downstream downgraded to Non-Q. ASME II flange installed in Non-Q application. Weld documentation in turnover package.
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.
 Signed Bill D. Barron Title PMCE Date 10/19, 1985
(Owner or Owner's Designee) (repair or replacement) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Co. of Long Grove, IL have inspected the replacement described in this Report on 10/18, 1985
(State or Province, National Board) (Repairs or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1/29/86 Inspector [Signature] Commissions NC-1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE
N-308

- (1) Carolina Power and Light Co., P.O. Box 1551, Raleigh, N.C. 27602
- (2) Brunswick Steam Electric Plant, Southport, N.C. 28461
- (3) Unit 1
- (4) Owner Certification of Authorization: N/A
- (5) Commercial Date: 3/17/77
- (6) National Board: N/A
- (7) Component: Cross-tie Spool Piece Service Water Lube Water Header

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power and Light Company Date 5/23/84
Raleigh, North Carolina 27602 Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461

3. Work Performed by CP&L Maint. & Const. Dept. CP&L Plant Mod: 79-2310
BSEP, Southport, NC Repair Organization P.O. No., Job No., etc.

4. Identification of System Service Water Lube Water

5. (a) Applicable Construction Code ANSI B31.1, 1967 Edition N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, 78 Addenda, Code Cases N-308

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|------------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-SW-V482 | ATWood & Morrill | NA | NA | NA | Unit 1 | 1982 | Replacement | NO |
| 1-SW-V483 | ATWood & Morrill | NA | NA | NA | Unit 1 | 1982 | Replacement | NO |
| 1-SW-V484 | XOMOX | NA | NA | NA | Unit 1 | 1982 | Replacement | NO |
| 1-SW-V482 & V483 | ATaskan Copper | NA | NA | NA | Unit 1 | 1982 | Replacement | NO |

7. Description of Work Installation of Cross-tie Spool Piece for Service Water Lube Water Header

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure See #9 psi Test Temp Amb °F

9. Remarks 1-SW-V482: 165PSI, 1-SW-V484: 165 PSI, Spool Piece: 165 PSI
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.

Signed John G. Gorman PERCEP EDWINER MAY 24 1984
 Owner or Owner's Designee Title (Date)

ISE Specialist October 3, 1984
 Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Company of Long Grove, III have inspected the Replacement described in this Report on 3-15-85, 1985 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 3-15-85 John Gorman Commissions NC 1007
 Inspector (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE
N-308

1. Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
3. Unit No. 1
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 3-17-77
6. National Board No.: N/A
7. Component: Service Water Pump 1A-Nuclear

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power and Light Company Date 10-2-85
PO Box 1551, Raleigh, NC 27602 Sheet 1 of 1
(Address)
2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461 PM 81-207 Rev.11
(Address)
3. Work Performed by Carolina Power & Light Co. BSEP Mechanical Maintenance Subunit
BSEP, Southport, NC 28461 Repair Organization P.O. No., Job No., etc.
(Address)
4. Identification of System Service Water Class 3
5. (a) Applicable Construction Code UEC 238-819 N/A Edition, N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S-78 Addenda, Code Cases N/A
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|--------------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| SW Pump 1A-N | Johnston | BOWLS/N NRP5017 | N/A | N/A | N/A | 1985 | Replacement | No |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Pumps seismic upgrade per Plant Mod 81-207
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure _____ psi Test Temp. _____ °F
9. Remarks This pump manufactured from owner's inventory of manufacturer's new parts
All components are new
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.
 Signed [Signature] Systems Engineer 10-2, 19 85
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Insurance Co. of Long Grove, IL have inspected the replacement described in this Report on Oct. 2, 1985, 19____
(Repair(s) or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10-16-85 [Signature] Commissions 10-1987
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

1. Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
3. Owner Certificate of Authorization: N/A
4. Commercial Date: March 17, 1977
5. Unit No. 1
6. National Board No.: N/A
7. Component: Steam Replacement for 1-E41-F007

CASE
N-308

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date 9/2/85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
2. Plant Brunswick Steam Electric Plant Unit One
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit Plant Mod 81-333
P.O. Box 10429, Southport, NC 28461 Repair Organization P.O. No. Job No., etc
4. Identification of System High Pressure Injection System (HPCI)
5. (a) Applicable Construction Code ANSI B31.1g 67 Edition, N/A Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S'78 Addenda, Code Cases N/A
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve Stem Anchor | | 1 | N/A | N/A | N/A | 1982 | Replacement | No |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Replaced existing valve stem with new stem (2 3/8"ACME x 1/3"PX1" lead)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Design Pressure Other
Pressure 1985 psi Test Temp. 89 °F
9. Remarks Replacement parts purchased under PO B-13852
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code 1931P (repair or replacement)
Signed R.C. Vandergraff Responsible Engr. _____, 1985
(Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Company,
Long Grove, IL have inspected the replacement described in this Report on 10/28/85
(Repairs or Replacements)
and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date 10/28/85 _____ Commissions _____
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE
N-308

1. Carolina Power & Light Company, P.O. Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
3. Unit No. 1
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board No.: N/A
7. Component: Mark I Torus Program

Plant No. 27602
 Field No. 28461
 Page No. 32D

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
 As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/19/84
P.O. Box 1551, Raleigh NC 27602 Sheet 1 of 2
(Name) (Address)
2. Plant Brunswick Steam Electric Plant Unit One (1)
P. O. Box 10429, Southport, NC 28461
(Name) (Address)
3. Work Performed by Brunswick Construction Unit TAR 80-071 PM 82-067
site Repair Organization P.O. No., Job No., etc.
4. Identification of System Mark I Torus Program
(Address)
5. (a) Applicable Construction Code attached 19 19 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 19 77, Addenda, Code Cases
6. Identification of Components Repaired or Replaced, and Replacement Components Summer 1978

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| SRV Penetrations | N/A | N/A | N/A | N/A | N/A | N/A | Replacement | No |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Mark I Torus Program
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure psi Test Temp. °F
9. Remarks
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.
 Signed E.A. Newell 8/20/85 Title Date
Owner or Owner's Designee

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of North Carolina, employed by Lumbermens Mutual Casualty Co. of Long Grove, IL, have inspected the replacement described in this Report on 1/29, 1986
(Repair or Replacement)
 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 1/29/86 Inspector Commissions NC-1139
(State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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1. Carolina Power & Light Company, P.O. Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
3. Unit No. 1
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board No.: N/A
7. Component: Mark I Torus Program

5a. Applicable Construction Code:

Design: ASME Section III SSNF-1977 through Summer 1977

Materials: ASME Section II, Part A

Field Fabrication & Installation:

Welds to the Liner: ASME Section III, Division 2, Subsection CC.
Welds to the Vent Header: ASME Section III, Division 1, Subsection
NE.

All other welds: ASME Section III, Division 1, Subsection NF.
Code Editions shall be 1977 with Summer 1978 Addenda.

Welder and Procedural Qualifications - ASME Section IX Latest Edition

CASE
N-308

1. CP&L Co., P.O. Box 1551, Raleigh, NC 27602
2. BSEP, P.O. Box 10429, Southport, NC 28461
3. Unit No. 1
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11-3-75
6. National Board No.: N/A
7. Component: Mark I Torus Program

Plant Mod. No. 82-071
 Field Rev. No. 0
 Page No. B 15

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
 As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/4/84
Raleigh, NC Sheet 1 of 2

2. Plant Brunswick Steam Electric Plant Unit 1 (one)
Southport, NC

3. Work Performed by CP&L Construction Unit TAR 80-071 PM 82-071
Southport, NC Repair Organization P.O. No., Job No., etc.

4. Identification of System Mark I Torus Modifications

5. (a) Applicable Construction Code See Attached Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, Sum 78 Addenda, Code Cases

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|---------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Main Steam Supports | | NA | NA | NA | NA | NA | Replacement | No |
| SRV Supports | | NA | NA | NA | NA | NA | Replacement | No |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Mark I Torus Modifications

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure _____ psi Test Temp _____ °F

9. Remarks No Test Required
 Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.
 Signed [Signature] Owner or Owner's Designee Title Respon. Eng. Date 12/4/84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Co. of Long Grove, IL have inspected the Repairs/Replacement described in this Report on September 4, 1985 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 10-16-85 Inspector [Signature] Commissions NC 1157 State or Province, National Board

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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Form N1S-2

Attachment Sheet 2 of 2

1. CP&L Co., P.O. Box 1551, Raleigh, NC 27602
2. BSEP, P.O. Box 10429, Southport, NC 28461
3. Unit No. 1
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11-3-75
6. National Board No.: N/A
7. Component: Mark I Torus Program

5a. Applicable Construction Code:

Design: ASME Section III SSNF-1977 thru Summer 1978

Materials: ANSI B31.1 - Latest Code as of Sept. 1983

Fabrication & Installation:

Welding Procedures

Welds and Examinations - AWS D1.1 - 1983 except as noted

Welder Qualifications - ASME Sect. IX

Pipe Attachment Welds and Examinations - UE&C Specification 9527-01-248-3

Within Component Standard Support:

Welds and Examinations - ANSI B31.1 - 1980 Edition

Welds to the Liner - ASME Sect. VIII - 1968 Edition

1. Carolina Power & Light Company, PO Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
3. Unit 1
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 3/17/77
6. National Board: N/A
7. Component: Service Water System

CASE
N-308

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date 8-22-85
PO Box 1551, Raleigh, NC 27602 Sheet 1 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
3. Work Performed by CP&L Construction BSEP Plant Modification 82-129
PO Box 10429, Southport, NC 28461 Repair Organization P.O. No., Job No., etc.
4. Identification of System Service Water System
5. (a) Applicable Construction Code ANSI B31.119.67 Edition, N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S'78 Addenda, Code Cases N/A
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|----------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| SEE ADDITIONAL SHEET | | | | | | | | |

7. Description of Work Addition of one vent line on the RHR Service Water A Loop Suction Header & four pressure connections to the RHR Service Water A&R Loop Suction Header.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 165 psi Test Temp. °F Ambient
9. Remarks Detailed pipe and fitting ID and location is given in the Installation Turnover Package for IM 82-129 and PO Files.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code ASME Code (repair or replacement)

Signed E. M. Cathy Senior Engineer 9/3, 19 85
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Co. of Long Grove, IL have inspected the replacement described in this Report on 10-11, 19 85 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10-11-85 (Inspector) Commissions (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

1. Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
3. Unit No.: 1
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 3/17/77
6. National Board No.: N/A
7. Component: Service Water System

Date 8/24/85

Sheet 2 of 2

BSEP Plant Mod 82-129

| Name of Component | Name of Mfg. | Mfg. Serial No. | Nat'l Bd No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code stamped (yes or no) |
|--|-------------------|-----------------|--------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valves 1-SW-V376, V365, V366, V303, V367, V368, V191 | WHITEY | N/A | N/A | N/A | PO 193833 Ht. N/A | 1985 | Replacement | No |
| 1/2" Tube | Teledyne Columbia | N/A | N/A | N/A | PO 501533 Ht. N/A | 1985 | Replacement | No |
| Connector 1/2 Tube x 1/2 Pipe | unknown | N/A | N/A | N/A | PO 168757 Ht. N/A | 1985 | Replacement | No |
| RHR Service Water Loop A&B Suction Piping | See Remarks | N/A | N/A | N/A | See Remarks | 1985 | Replacement | No |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

21-6

1. Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429
3. Unit No. 1
4. Owner Certificate of Authorization: N/A
5. Commercial Date: March 17, 1977
6. National Board No.: N/A
7. Component: HPCI Steamline Drainpot Piping System, Valves and Level Control System

3 attachments

CASE
N-308

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date September 25, 1985
(Name)
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 4
(Address)
2. Plant Brunswick Steam Electric Plant Unit 1
(Name)
P.O. Box 10429, Southport, NC 28461
(Address)
3. Work Performed by Brunswick Construction Unit BSEP Plant Mod 82-137
(Name) Repair Organization P.O. No., Job No., etc.
site
(Address)
4. Identification of System High Pressure Coolant Injection, ASME Code Class 2
5. (a) Applicable Construction Code ANSI B31.1-1967 Edition, N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N/A
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| SEE ATTACHED | | | | | | | | |

7. Description of Work Upgrade of HPCI Steamline Drainpot Piping System, Level Control System and Valves (replaced)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1435 psi Test Temp. AMB °F
9. Remarks NONE
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair/replacement conforms to Section XI of the ASME Code.
 Signed Anthony E. Jewell ENGINEER 9/25, 19 85
(Owner or Owner's Designate) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Company of Long Grove, IL have inspected the repair/replacement described in this Report on 10/29, 19 85 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/29/85 Anthony E. Jewell Commissions NC 311
(Inspector) (State or Province, National Board)

Note. Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

1. Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
3. Unit No.: 1
4. Owner Certificate of Authorization: N/A
5. Commercial Date: March 17, 1977
6. National Board No.: N/A
7. Component: HPCI Steamline Drainpot Piping System, Valves and Level Control System
8. Work Performed By: Brunswick Construction Unit Address: Site

Date 9/25/85

Sheet 2 of 4

BSEP Plant Mod 82-137

| Name of Component | Name of Mfg. | Mfg. Serial No. | Nat'l Bd No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code stamped (yes or no) |
|-------------------|----------------|-----------------|--------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| PIPING | Guyon Alloys | N/A | N/A | N/A | N/A | N/A | Repaired | N/A |
| 9-14 PIPING | Guyon Alloys | N/A | N/A | N/A | N/A | N/A | Replacement | N/A |
| 1-E41-F028 | Gulf & Western | 6536 | N/A | N/A | N/A | N/A | Replacement | N/A |
| 1-E41-F029 | Gulf & Western | 6541 | N/A | N/A | N/A | N/A | Replacement | N/A |
| 1-E41-F054 | Gulf & Western | 6538 | N/A | N/A | N/A | N/A | Replacement | N/A |
| 1-E41-F036 | Gulf & Western | 6529 | N/A | N/A | N/A | N/A | Replacement | N/A |
| 1-E41-F037 | Gulf & Western | 6510 | N/A | N/A | N/A | N/A | Replacement | N/A |
| 1-E41-V51 | Gulf & Western | 6531 | N/A | N/A | N/A | N/A | Replacement | N/A |

1. Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
3. Unit No.: 1
4. Owner Certificate of Authorization: N/A
5. Commercial Date: March 17, 1977
6. National Board No.: N/A
7. Component: HPCI Steamline Drainpot Piping System, Valves and Level Control System
8. Work Performed By: Brunswick Construction Unit Address: Site

Date 9-25-85

Sheet 3 of 4

BSEP Plant Mod 82-137

| Name of Component | Name of Mfg. | Mfg. Serial No. | Nat'l Bd No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code stamped (yes or no) |
|--------------------|----------------|-----------------|--------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-E41-V78 | Gulf & Western | 6525 | N/A | N/A | N/A | N/A | Replacement | N/A |
| 9-15 1-E41-V108 | Gulf & Western | 6518 | N/A | N/A | N/A | N/A | Replacement | N/A |
| 1-E41-V111 | Gulf & Western | 6513 | N/A | N/A | N/A | N/A | Replacement | N/A |
| 1-E41-F055 | VOGT | 23-215060 | N/A | N/A | N/A | N/A | Replacement | N/A |
| 1-E41-F056 | VOGT | 24-215060 | N/A | N/A | N/A | N/A | Replacement | N/A |
| 1-E41-V82 | VOGT | 26-215060 | N/A | N/A | N/A | N/A | Replacement | N/A |
| 1-E41-V83 | VOGT | 25-215060 | N/A | N/A | N/A | N/A | Replacement | N/A |
| 1-E41-V80 | VOGT | 43-214972 | N/A | N/A | N/A | N/A | Replacement | N/A |

1. Carolina Power & Light Co., P. O. Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, P. O. Box 10429, Southport, NC 28461
3. Unit No. 1
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 3-17-77
6. National Board No.: N/A
7. Component: Residual Heat Removal Heat Exchanger Relief Valves

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

CASE
N-308

1. Owner Carolina Power & Light Co. Date 8/22/82
(Name)
P. O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
(Address)
2. Plant Brunswick Steam Electric Plant Unit 1
(Name)
P. O. Box 10429, Southport, NC 28461
(Address)
3. Work Performed by CP&L High Valley BSEP Plant Mod No. 82-172
(Name) Repair Organization P.O. No., Job No., etc.
SITE
(Address)
4. Identification of System Residual Heat Removal (CL.2)
5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, NA Addenda, Code Cases NA
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, 5-7B Addenda, Code Cases NA
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Relief Valve | Kunkle | NA | NA | NA | 1-E11-V20 | NA | Replaced | NA |
| Relief Valve | Consolidated | 38975 | NA | NA | 1-E11-V20 | 1975-C | Replacement | Yes |
| Relief Valve | Kunkle | NA | NA | NA | 1-E11-V21 | NA | Replaced | NA |
| Relief Valve | Consolidated | 38976 | NA | NA | 1-E11-V21 | 1975-C | Replacement | Yes |

7. Description of Work Replaced Existing Relief Valves
8. Tests Conducted Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure NA psi; Test Temp NA °F
9. Remarks Relief Valves Tested Per BSEP PT-11.0 & PT-20.3
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.

Signed [Signature] [Signature] 4-5-84 19 84
(Signature of Owner's Designee) (Signature of Inspector) (Date)
ISI Specialist 10/20/84
(Title) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Company of Long Grove, IL have inspected the Replacement described in this Report on 11-15, 1985

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 11-15-85 [Signature] Commissions NC 1007
(Date) (Signature) (State or Province - National Board)

Note: Supplemental sheets in form of lists, sketches or drawings may be used provided: (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this date report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit 1
- (4) Owner Certification of Authorization: N/A
- (5) Commercial Date: 3/17/77
- (6) National Board: N/A
- (7) Component: RHR Heat Exchanger 1A Outlet Piping

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Company Date 8/17/85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 3

2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461

3. Work Performed by CP&L Maint. & Const. BSEP Plant Mod: 82-219P
P.O. Box 10429, Southport, NC 28461 Repair Organization P.O. No., Job No., etc.

4. Identification of System Service Water

5. (a) Applicable Construction Code ANSI B31.1-1967 Edition, N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S'78 Addenda, Code Cases N/A

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|----------------|----------------|----------------|---------|----------------------|--------------|------------------------------------|-------------------------------|
| S. Wtr. Piping | Alaskan Copper | N/A | N/A | N/A | N/A | 1983 1984 | Replacement | No |
| S. Wtr. Piping | Bristol Metals | N/A | N/A | N/A | N/A | 1983 1984 | Replacement | No |
| Pipe Fittings | Alaskan Copper | N/A | N/A | N/A | N/A | 1983 1984 | Replacement | No |

7. Description of Work Replaced RHR Heat Exchanger 1A Outlet Piping and Valves

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 440 psi Test Temp AMB. °F

9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.

Signed Harry D. Hayes Senior Nuclear Designer Date 26 August 1985
 Owner or Owner's Designer Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina employed by Lumbermens Mutual Casualty Co. of Long Grove, IL have inspected the Replacement described in this Report on 10-22, 1985 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/21/85 Inspection NC-1139 Commissions NC-1139
 State or Province, National Board

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit 1
- (4) Owner Certification of Authorization: NA
- (5) Commercial Date: 3-17-77
- (6) National Board: N/A
- (7) Component: RHR Heat Exchanger 1A Outlet Piping

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Company Date 8-17-85
P.O. Box 1551, Raleigh, NC 27602 Sheet 2 of 3
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by CP&L Maint. & Const. BSEP Plant Mod: 82-219 P
P.O. Box 10429, Southport, NC 28461 Repair Organization P.O. No., Job No., etc.
4. Identification of System Service Water
5. (a) Applicable Construction Code ANSI B31.1g 67 Edition, NA Addenda, Code Cases NA
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S'78 Addenda, Code Cases NA
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-E11-V207 | Worcester | 84-0023-03 | NA | NA | NA | 1985 | Replacement | No |
| 1-E11-V43 | Worcester | 84-0023-07 | NA | NA | NA | 1985 | Replacement | No |
| 1-E11-V47 | Worcester | 84-0023-08 | NA | NA | NA | 1985 | Replacement | No |
| 1-E11-V174 | Worcester | 84-0023-09 | NA | NA | NA | 1985 | Replacement | No |

7. Description of Work Replaced RHR Heat Exchanger 1A Outlet Piping & Vlvs
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 440 psi Test Temp. AMB °F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code (repair or replacement)

Signed Harry D. Mayes Sr. Spec. Nuclear Design 26 August 1985
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Co. of Long Grove, IL have inspected the Replacement described in this Report on 10-22, 1985 (Repair(s) or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/22/85 Inspector V. J. ... Commissions NC-1159 (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit 1
- (4) Owner Certification of Authorization: N/A
- (5) Commercial Date: 3/17/77
- (6) National Board: N/A
- (7) Component: RHR Heat Exchanger 1A Outlet Piping

CASE
N-308

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Company Date 8/17/85
P.O. Box 1551, Raleigh, NC 27602 Sheet 3 of 3
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by CP&L Maint. & Const. Dept. BSEP Plant Mod: 82-219P
P.O. Box 10429, Southport, NC 28461 Repair Organization P.O. No. Job No. etc.
4. Identification of System Service Water
5. (a) Applicable Construction Code ANSI B31.1g 67 Edition, N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S'78 Addenda, Code Cases N/A
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-E11-F002A | Jamesbury | 158413 | N/A | N/A | N/A | 1985 | Replacement | No |
| 1-E11-PDV-F068A | Valtek | V35411-1-2 | N/A | N/A | N/A | 1985 | Replacement | No |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Replaced RHR Heat Exchanger 1A Outlet Piping and Valves
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 440 psi Test Temp AMB. °F
9. Remarks _____
 Applicable Manufacturer's Data Reports to be attached: _____

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.
 Signed Harry D. Mayer Sr. Spec Nuclear Design Title 26 August 1985
(Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Co. of Long Grove, IL have inspected the Replacement described in this Report on 10-22, 19 85 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1/11/86 Inspection [Signature] Commissions NC-1157
(Date) (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided: (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit 1
- (4) Owner Certification of Authorization: N/A
- (5) Commercial Date: 3-17-77
- (6) National Board: N/A
- (7) Component: RHR Heat Exchanger "1B" Outlet Piping

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Company Date 8-17-85
(Name)
P.O. Box 1551, Raleigh, NC 27602 Sheet 2 of 2
(Address)
2. Plant Brunswick Steam Electric Plant Unit 1
(Name)
P.O. Box 10429, Southport, NC 28461
(Address)
3. Work Performed by CP&L Maint. & Const. Dept. BSEP Plant Mod: 82-219 Q
(Name) Repair Organization P.O. No., Job No., etc.
P.O. Box 10429, Southport, NC 28461
(Address)
4. Identification of System Service Water
5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 19 77, S'78 Addenda, Code Cases N/A
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-E11-V208 | Worcester | N84-0023-06 | N/A | N/A | N/A | 1985 | Replacement | No |
| 1-SW-V314 | Worcester | N84-0023-04 | N/A | N/A | N/A | 1985 | Replacement | No |
| 1-SW-V317 | Worcester | N84-0023-05 | N/A | N/A | N/A | 1985 | Replacement | No |
| 1-E11-F002B | Jamesbury | N84-0023-02-C | N/A | N/A | N/A | 1985 | Replacement | No |
| 1-E11-PDV-F068B | Valtek | 35411-1-1 | N/A | N/A | N/A | 1985 | Replacement | No |

7. Description of Work Replaced RHR Heat Exchanger "1B" Outlet Piping
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 440 psi Test Temp. AMB °F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. 8/17/85 (repair or replacement)

Signed Harry D. Meyer Sr. Spec. Nuclear Design 26 August, 1985
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Co. of Long Grove, IL have inspected the Replacement described in this Report on Sept. 17, 19 85 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10-16-85 [Signature] Commissions NC 1007
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit 1
- (4) Owner Certification of Authorization: NA
- (5) Commercial Date: 3-17-77
- (6) National Board: NA
- (7) Component: RHR Heat Exchanger 1B Outlet Piping

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- 1. Owner Carolina Power & Light Company Date 8-17-85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
- 2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
- 3. Work Performed by CP&L Maint. & Const. Dept. BSEP Plant Mod: 82-219 Q
P.O. Box 10429, Southport, NC 28461 Repair Organization P.O. No., Job No., etc
- 4. Identification of System Service Water
- 5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, NA Addenda, Code Cases NA
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 19 77, S' 78 Addenda, Code Cases NA
- 6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| SW Piping | Alaskan | NA | NA | NA | NA | 1983 | Replacement | No |
| SW Piping | Bristol | NA | NA | NA | NA | 1983 | Replacement | No |
| > 1/2 | Metals | NA | NA | NA | NA | 1984 | Replacement | No |
| Pipe Fittings | Alaskan | NA | NA | NA | NA | 1983 | Replacement | No |
| 1-E11-V50 | Worcester | N84-0023- | NA | NA | NA | 1985 | Replacement | No |
| 1-E11-V52 | Worcester | N84-0023- | NA | NA | NA | 1985 | Replacement | No |
| 1-E11-V173 | Worcester | N84-0023- | NA | NA | NA | 1985 | Replacement | No |

- 7. Description of Work Replaced RHR Heat Exchanger "1B" Outlet Piping & Vlvs
- 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure 440 psi Test Temp AMB °F
- 9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. CS 27226 (repair or replacement)
Signed Harry D. Mayne Sr. Spec. Nuclear Design 26 August 19 85
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Co. of Long Grove, IL have inspected the Replacement described in this Report on Sept. 17, 1985 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date 10-16-85 John Newman Commissions 112 1507
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit 1
- (4) Owner Certification of Authorization: N/A
- (5) Commercial Date: 3/17/77
- (6) National Board: N/A
- (7) Component: Service Water Lube Water Piping and Cyclone Separator for Nuclear S. Wtr. Pump "1A"

**CASE
N-308**

**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI**

1. Owner Carolina Power & Light Company Date 7/12/85
P. O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant Unit 1
P. O. Box 10429, Southport, NC 28461

3. Work Performed by CP&L Maint. & Const. Dept. BSEP Plant Mod. 82-248
P.O. Box 10429, Southport, NC Repair Organization P.O. No., Job No., etc.

4. Identification of System Service Water

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 19 77, S'78 Addenda, Code Cases N/A

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|----------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Cyclone Separator | C-E Bauer | N/A | N/A | N/A | N/A | '84 | Replacement | No |
| 3/4 Cu Ni Piping | Alaskan Copper | N/A | N/A | N/A | N/A | '83 | Replacement | No |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Replaced cyclone separator and Nuclear S. Wtr. Pump "1A" Lube Wtr. Piping.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 180 psi Test Temp 78 °F

9. Remarks Removed relief valves I-SW-RV7 & RV12, cyclone separator tested by C-E Bauer.
Hydrostatic pressure: 232.5 psi Test temp: 70°F. See PH 82-248 for details.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacements conforms to Section XI of the ASME Code.

Signed Harry D. Mayes Sr. Spec. Nuclear Division Title 7-12, 19 85

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Company of Long Grove, IL have inspected the Replacements described in this Report on 8-8-, 19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 8-8-85 John J. [Signature] Commissions NC 1007

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit 1
- (4) Owner Certification of Authorization: N/A
- (5) Commercial Date: 3/17/77
- (6) National Board: N/A
- (7) Component: Service Water Lube Water Cyclone Separator for Nuclear Pump "1B"

CASE
N-308

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Company Date 7/12/85
P. O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
2. Plant Brunswick Steam Electric Plant Unit 1
P. O. Box 10429, Southport, NC 28461
3. Work Performed by CP&L Maint. & Const. Dept. BSEP Plant Mod. 82-248
P.O. Box 10429, Southport, NC Repair Organization P.O. No., Job No., etc.
4. Identification of System Service Water
5. (a) Applicable Construction Code ANSI B31.1-1967 Edition, N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S'78 Addenda, Code Cases N/A
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Cyclone Separator | C-E Bauer | N/A | N/A | N/A | N/A | '84 | Replacement | No |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Replaced cyclone separator - Nuclear S. Wtr. Pump "1B"
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 232.5 psi Test Temp. 70 °F
9. Remarks Removed relief valves 1-SW-RV8 and 1-SW-RV13. See PM 82-248 for details.
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. ENR 03/26/85 711-55 (repair or replacement)

Signed Harry D. Maysen Sr. Spec. Nuclear Design 7-12, 1985
 (Owner or Operator's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Company of Long Grove, IL have inspected the Replacements described in this Report on 8-8-, 1985
 (Reports) or Replacement(s)

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 8-8-85 John J. [Signature] Commissions NC 1007
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit 1
- (4) Owner Certification of Authorization: N/A
- (5) Commercial Date: N/A
- (6) National Board: 3/17/77
- (7) Component: Service Water Lube Water Cyclone Separators for Conventional Pumps 1A & 1C

CASE
N-308

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power and Light Company Date 5-11-85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461

3. Work Performed by CP&L Maint. & Const. Dept. BSEP Plant Mod 82-248
P.O. Box 10429, Southport, NC 28461 Repair Organization P.O. No., Job No., etc.

4. Identification of System Service Water

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, 1978 Addenda, Code Cases N/A

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Cyclone Separator | CE | | | | | | | |
| | Bauer | N/A | N/A | N/A | N/A | '84 | Replacement | No |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Replaced cyclone separators - Conventional SW Pumps 1A & 1C

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 232.5 psi Test Temp 70 °F

9. Remarks Removed relief valves 1-SW-RV4, 6, 9 & 11. See PM82-248 for details.
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacements conforms to Section XI of the ASME Code. Emilio N. Giallo 5/11/85 (repair or replacement)

Signed Harry D. Mayes 2. Isaac Nathan, Design 5-13-, 19 85
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Company of Long Grove Ill. have inspected the Replacements described in this Report on 8-8-, 19 85 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 8-8-85 John J. [Signature] Commissions NC 1007
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

CASE
N-308

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date 9/16/85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287A
Site Repair Organization P.O. No., Job No., etc.
4. Identification of System Containment Atmosphere Control (CAC) - Class 2
5. (a) Applicable Construction Code ANSI B31.1-67 Edition, _____ Addenda, Code Cases _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| 1-CAC-PV-1200B | Tufline | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-CAC-SV-1200B | Valcor | 2 | N/A | N/A | 20717-0005 | 1984 | Replacement | No |
| 1-CAC-PV-1261 | Tufline | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-CAC-SV-1261 | Valcor | 2 | N/A | N/A | 20717-0005 | 1984 | Replacement | No |
| Piping 1-CAC | Valcor | N/A | N/A | N/A | M8006 | 1984 | Replacement | No |
| Piping 1-CAC | B&W | N/A | N/A | N/A | M8011 | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 69 psi Test Temp. 95 °F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conform to Section XI of the ASME Code. (repair or replacement)

Signed Robert Shaddy Project Engineer 9/23, 1985
 (Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the replacement described in this Report on 1/29/86, 1986 [Repairs or Replacement(s)]

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1/29/86 [Signature] Commissions NC 1139
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- 1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 2
- 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
- 3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287A
Address Repair Organization P.O. No, Job No. etc.

| Identification of System | | | | | | | | |
|--------------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
| Coupling 1-CAC | B&W | N/A | N/A | N/A | CCL | 1984 | Replacement | No |
| Tube Adapter 1-CAC | N/A | N/A | N/A | N/A | AGU | N/A | Replacement | No |
| Tubing 1-CAC | Gu yon | N/A | N/A | N/A | 471941 | 1985 | Replacement | No |

**CASE
N-308**

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date 9/20/85
(Name)
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
(Address)
2. Plant Brunswick Steam Electric Plant Unit 1
(Name)
P.O. Box 10429, Southport, NC 28461
(Address)
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287B
(Name) Repair Organization P.O. No., Job No., etc.
Site
4. Identification of System Residual Heat Removal (E11)
(Address)
5. (a) Applicable Construction Code ANSI B31.1-1967 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| 1-E11-F043C | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-E11-F043C | Valcor | 7 | N/A | N/A | 14717-0001 | 1984 | Replacement | No |
| 1-E11-F043A | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-E11-F043A | Valcor | 5 | N/A | N/A | 14717-0001 | 1984 | Replacement | No |
| 1-E11-F037C | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-E11-F037C | Valcor | 2 | N/A | N/A | 14717-0001 | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 69 psi Test Temp 95 °F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. (repair or replacement)

Signed Robert Shaddy Project Engineer 9/23, 1985
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill., have inspected the replacement described in this Report on 1/29/86, 1985 (Repairs) or Replacement(s) 5/23 1/29/86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1/29/86 [Signature] Commissions NC-1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- 1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 2
- 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
- 3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287B
Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System _____

9-29

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|----------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve 1-E11-F037A | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| Valve 1-E11-SV-F037A | Valcor | 1 | N/A | N/A | 1417001 | 1984 | Replacement | No |
| Piping 1-E11 | Valcor | N/A | N/A | N/A | 469661 | 1984 | Replacement | No |
| Cap 1-E11 | N/A | N/A | N/# | N/A | CUF | N/A | Replacement | No |
| Piping 1-E11 | Valcor | N/A | N/A | N/A | 470079 | 1984 | Replacement | No |
| Piping 1-E11 | Guyon | N/A | N/A | N/A | 471314 | 1985 | Replacement | No |
| I-B21PV 1212E | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |

**CASE
N-308**

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI**

1. Owner Carolina Power & Light Co. Date 9/20/85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 4
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-28X
Site Repair Organization P.O. No., Job No., etc.
4. Identification of System Nuclear Boiler (B21) - Class 1
5. (a) Applicable Construction Code ANSI B31.1-1967 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, 578 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| 1-B21-F049C | Dragon | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F049C | Valcor | 5 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |
| 1-B21-F047C | Dragon | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F047C | Valcor | 3 | N/A | N/A | 79417-0001 | N/A | Replacement | No |
| 1-B21-F046A | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F046A | Valcor | 2 | N/A | N/A | 79417-0001 | N/A | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp. 190 °F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code (repair or replacement)

Signed Robert Shaddy Project Engineer 9/23, 19 85
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co of Long Grove, ILL. have inspected the replacement described in this Report on 1/29/86, 19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1/29/86 [Signature] Commissions NC-1139
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- 1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 4
- 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
- 3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287 C
Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|----------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve 1-B21-F008 | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| Valve 1-B21-F008 | Valcor | 1 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| Valve 1-B21-V83 | Vogt | 105 | N/A | N/A | 215071 | 1984 | Replacement | No |
| Valve 1-B21-F040 | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| Valve 1-B21-F040 | Valcor | 15 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| Valve 1-B21-F048A | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B-21-F048B | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F046C | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 3 of 4
2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit
 Site BSEP Plant Modification 82-287C
 Address _____ Repair Organization P.O. No, Job No. etc. _____

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|---------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve 1B21-F048A | Valcor | 21 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| Piping 1-B21 | N/A | N/A | N/A | N/A | 462421 | N/A | Replacement | No |
| Piping 1-821 | Guyon | N/A | N/A | N/A | 470755 | 1985 | Replacement | No |
| Piping 1-821 | Vogt | N/A | N/A | N/A | R4587B | 1984 | Replacement | No |
| Piping 1-821 | Valcor | N/A | N/A | N/A | 479555 | 1984 | Replacement | No |
| Valve 1-821-V40A | Vogt | 4 | N/A | N/A | 215071 | 1984 | Replacement | No |

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- 1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 4 of 4
- 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
- 3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287C
Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| 1-B21-V40B | Vogt | 46 | N/A | N/A | 215071 | 1984 | Replacement | No |
| Valve | | | | | | | | |
| 1-B21-V40C | Vogt | 99 | N/A | N/A | 215071 | 1984 | Replacement | No |
| Valve | | | | | | | | |
| 1-B21-V40D | Vogt | 118 | N/A | N/A | 215071 | 1984 | Replacement | No |
| Valve | | | | | | | | |
| 1-B21-V40E | Vogt | 6 | N/A | N/A | 215071 | 1984 | Replacement | No |
| Valve | | | | | | | | |
| 1-B21-V40F | Vogt | 147 | N/A | N/A | 215071 | 1984 | Replacement | No |

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

**CASE
N-308**

**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI**

1. Owner Carolina Power & Light Co. Date 9/19/85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287 D
Site Repair Organization P.O. No., Job No., etc.
4. Identification of System Containment Atmosphere Control (CAC) - Class 2
5. (a) Applicable Construction Code ANSI B31.1 Edition, 1967 Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification PN | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|-------------------------|------------|------------------------------------|-------------------------------|
| 1-CAC-PV-1211E | Tufline | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-CAC-SV-1211E | Valcor | 1 | N/A | N/A | 20717-0003 | 1984 | Replacement | No |
| 1-CAC-PV-1262 | Tufline | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-CAC-SV-1262 | Valcor | 3 | N/A | N/A | 20717-0005 | 1984 | Replacement | No |
| 1-CAC-PV-1211F | Tufline | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-CAC-SV-1211F | Valcor | 2 | N/A | N/A | 20717-0004 | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 69 psi Test Temp 95 °F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.
 Signed Thomas D. Saewer Pres. Eng. 9-23-85, 19 85
 (Owner or Owner's Designer) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill have inspected the replacement described in this Report on 1/29/86, 19 85 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1/29/86 [Signature] Commissions NC-1139
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 2
 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
 3. Work Performed by Brunswick Construction Unit
 Site BSEP Plant Modification 82-287D
 Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|----------------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| 1-CAC-PV-3439 | Tufline | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-CAC-SV-3439 | Valcor | 1 | N/A | N/A | 207170006 | 1984 | Replacement | No |
| Piping 1-CAC | B&W | N/A | N/A | N/A | DIC | 1985 | Replacement | No |
| Piping 1-CAC | Valcor | N/A | N/A | N/A | M8006 | 1984 | Replacement | No |
| Tubing 1-CAC | Capital Pipe & Steel | N/A | N/A | N/A | 471006 | 1985 | Replacement | No |
| Tubing 1-CAC | Guyon | N/A | N/A | N/A | 471941 | 1985 | Replacement | No |

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date 9/19/85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287D
Site Repair Organization P.O. No., Job No., etc.
4. Identification of System Nuclear Boiler System(B21) Class 1
5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| 1-B21-F014E | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F014B | Valcor | 53 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |
| 1-B21-F014A | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F014A | Valcor | 62 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |
| 1-B21-F014E | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F014E | Valcor | 56 | N/A | N/A | 79417-0001 | N/A | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp. 190°F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.
 Signed Robert Sheldahl Project Engineer Title 9/23, 1985
 (Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the replacement described in this Report on 1/29/86, 1985
 [Repair(s) or Replacement(s)]
 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 1/29/86 [Signature] Commissions NC-1139
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287 D
Address Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| I-B21-F014F | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| I-B21-F014F | Valcor | 57 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| Piping I-B21 | Guyon | N/A | N/A | N/A | 470755 | 1985 | Replacement | No |
| Piping I-B21 | Vogt | N/A | N/A | N/A | R4587R | 1984 | Replacement | No |
| Piping I-B21 | Valcor | N/A | N/A | N/A | 468555 | 1984 | Replacement | No |
| Piping I-B21 | Valcor | N/A | N/A | N/A | L715NU | 1984 | Replacement | No |
| I-B21-V84 | Vogt | 52 | N/A | N/A | 215076 | 1984 | Replacement | No |
| I-B21-V85 | Vogt | 51 | N/A | N/A | 215076 | 1984 | Replacement | No |
| I-B21-V86 | Vogt | 31 | N/A | N/A | 215076 | 1984 | Replacement | No |
| I-B21-V87 | Vogt | 34 | N/A | N/A | 215076 | 1984 | Replacement | No |

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CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date 9/20/85
(Name)
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 3
(Address)
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
(Address)
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-28E
(Name) Repair Organization P.O. No., Job No., etc.
Site
4. Identification of System Main Steam(B21) - Class 1
(Address)
5. (a) Applicable Construction Code ANSI B31.1 Edition, _____ Addenda, Code Cases _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| 1-B21-F014K | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F014K | Valcor | 12 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |
| 1-B21-F014J | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F014J | Valcor | 51 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |
| 1-B21-F014N | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F014N | Valcor | 13 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp. 190 °F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.
(repair or replacement)

Signed Robert Shadley Project Engineer 9/23, 1985
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the replacement described in this Report on 1/29/86, 1985
(State or Province, National Board) (Repairs) or Replacement(s)

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1/29/86 [Signature] Commissions NC-1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 3
 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
 3. Work Performed by Brunswick Construction Unit
 Site BSEP Plant Modification 82-287E
 Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|--------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| 1-B21-F014P | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F014P | Valcor | 14 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| 1-B21-V57 | Vogt | 24 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-V58 | Vogt | 47 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-V55 | Vogt | 8 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-V56 | Vogt | 178 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-PV-1210F | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| Main Stream Piping | Guyon | N/A | N/A | N/A | 470755 | 1985 | Replacement | No |

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CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 3 of 3

2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461

3. Work Performed by Brunswick Construction Unit
 Site BSEP Plant Modification 82-287E
 Address Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| Piping 1-B21 | Vogt | N/A | N/A | N/A | R4587B | 1984 | Replacement | No |
| Piping 1-B21 | Sandvik | N/A | N/A | N/A | 469425 | 1984 | Replacement | No |
| Piping 1-B21 | Valcor | N/A | N/A | N/A | 468555 | 1984 | Replacement | No |
| Piping 1-B21 | Valcor | N/A | N/A | N/A | 469546 | 1984 | Replacement | No |
| Cap 1-B21 | Guyon | N/A | N/A | N/A | DDJ | 1985 | Replacement | No |
| Piping 1-B21 | Sandvik | N/A | N/A | N/A | 471314 | 1985 | Replacement | No |
| 90 Elbow | Alloy | | | | | | | |
| 1-B21 | Stainless | N/A | N/A | N/A | RW | 1985 | Replacement | No |

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date 9/20/85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287
Site Repair Organization P.O. No., Job No., etc.
4. Identification of System _____
5. (a) Applicable Construction Code ANSI B31.1g 67 Edition, _____ Addenda, Code Cases _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| 1-CAC-PV-1209A | Tufline | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-CAC-SV-1209A | Valcor | 2 | N/A | N/A | 20717-0002 | 1984 | Replacement | No |
| 1-CAC-PV-1209B | Tufline | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-CAC-SV-1209B | Valcor | 3 | N/A | N/A | 20717-0002 | 1984 | Replacement | No |
| 1-CAC-PV-1209D | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-CAC-SV-1209D | Valcor | 6 | N/A | N/A | 14717-0001 | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 69 psi Test Temp. 95 °F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. (repair or replacement)

Signed [Signature] Project Engineer 9/23, 1985
 (Owner or Owner's Designer) (Title) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the replacement described in this Report on 1-29-86 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 [Signature] Commissions NC-1139
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this date report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- 1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 2
- 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
- 3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287F
Address Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Piping I-CAC | Valcor | N/A | N/A | N/A | 468555 | 1985 | Replacement | No |
| Tubing I-CAC | Guyon | N/A | N/A | N/A | 09188 | 1982 | Replacement | No |
| Piping I-CAC | Valcor | N/A | N/A | N/A | 469651 | 1984 | Replacement | No |

9-42

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date 9/20/85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287F
Site Repair Organization P.O. No., Job No., etc.
4. Identification of System Containment Atmosphere Control (CAC) - Class 2
5. (a) Applicable Construction Code ANSI B31.49.67 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, 578 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|---------------------|-----------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| Valve Pipe 1-CAC | Guyon | N/A | N/A | N/A | 470755 | 1985 | Replacement | No |
| Cap 1-CAC | Alloy Stainless | N/A | N/A | N/A | DDJ | 1984 | Replacement | No |
| 1-B21-PV-1209C | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-PV-1209E | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-PV-1209F | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 49 psi Test Temp 95 °F
9. Remarks
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.

Signed [Signature] Project Engineer 9/23, 1985
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the replacement described in this Report on 1-29-86 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 [Signature] Commissions NC1139
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

**CASE
N-308**

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI**

1. Owner Carolina Power & Light Co. Date 9/20/85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 3
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287
Site Repair Organization P.O. No., Job No., etc.
4. Identification of System Nuclear Boiler (B21) - Class 1
5. (a) Applicable Construction Code ANSI B31.1-1967 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component Valve | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|----------------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| 1-B21-F058N | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F052C | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F058R | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F058L | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F058T | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F050C | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp. 190 °F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code (repair or replacement)

Signed [Signature] Project Engineer 9/25, 1985
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the replacement described in this Report on 1-29-86 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 [Signature] Commissions NC-1134
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 3
 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
 3. Work Performed by Brunswick Construction Unit
 Site BSEP Plant Modification 82-287G
 Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| I-B21-F058N | Valcor | 70 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| I-B21-F052C | Valcor | 66 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| I-B21-F058R | Valcor | 72 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| I-B21-F058L | Valcor | 68 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| I-B21-F058T | Valcor | 74 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| I-B21-F050C | Valcor | 64 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| Piping I-B21 | Sandvik | N/A | N/A | N/A | 471314 | 1985 | Replacement | No |
| Piping I-B21 | Sandvik | N/A | N/A | N/A | 469425 | 1984 | Replacement | No |
| Piping I-B21 | Valcor | N/A | N/A | N/A | 468555 | 1984 | Replacement | No |
| Piping I-B21 | Vogt | N/A | N/A | N/A | R4587B | 1984 | Replacement | No |

0-4-85

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 3 of 3
2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287G
Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Piping 1-B21 | Guyon | N/A | N/A | N/A | 469546 | 1985 | Replacement | No |
| 1-B21-V77 | Vogt | 171 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-V81 | Vogt | 48 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-V78 | Vogt | 37 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-V79 | Vogt | 174 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-V82 | Vogt | 48 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-V80 | Vogt | 37 | N/A | N/A | 215071 | 1984 | Replacement | No |

94-46

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

CASE
N-308

FORM N.S-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date 9/20/85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 3
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287H
Site Repair Organization P.O. No., Job No., etc.
4. Identification of System Nuclear Boiler System(B21) - Class 1
5. (a) Applicable Construction Code ANSI B31.4g 67 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component Valve | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| 1-B21-F050A | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F050A | Valcor | 125 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |
| 1-B21-F058C | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F058C | Valcor | 31 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |
| 1-B21-F058G | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F058G | Valcor | 35 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp. 190 °F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code (repair or replacement)

Signed [Signature] Project Engineer Title 9/23, 1985 (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the replacement described in this Report on 1-29-86, 1985 (Date) and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 (Date) [Signature] (Inspector) Commissions 1-29-86, NC-1139 (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- 1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 3
- 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
- 3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287H
Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Manufacturer Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|------------|---------|-----------------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| I-B21-F058A | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| I-B21-F058A | Valcor | 29 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| I-B21-F058E | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| I-B21-F058E | Valcor | 33 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| I-B21-F052A | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| I-B21-F052A | Valcor | 25 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| I-B21-V64 | Vogt | 182 | N/A | N/A | 215071 | 1984 | Replacement | No |
| I-B21-V60 | Vogt | 185 | N/A | N/A | 215071 | 1984 | Replacement | No |
| I-B21-V62 | Vogt | 37 | N/A | N/A | 215071 | 1984 | Replacement | No |
| I-B21-V59 | Vogt | 30 | N/A | N/A | 215071 | 1984 | Replacement | No |
| I-B21-V61 | Vogt | 79 | N/A | N/A | 215071 | 1984 | Replacement | No |
| I-B21-V63 | Vogt | 21 | N/A | N/A | 215071 | 1984 | Replacement | No |

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- 1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 3 of 3
- 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
- 3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287H
Address _____ Repair Organization P.O. No, Job No. etc.

9-49

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-----------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Piping Nuclear Boiler | Sandvik | N/A | N/A | N/A | 469425 | 1984 | Replacement | No |
| Piping Nuclear Boiler | Vogt | N/A | N/A | N/A | R4587B | 1984 | Replacement | No |
| Piping Nuclear Boiler | Valcor | N/A | N/A | N/A | 468555 | 1984 | Replacement | No |
| Piping Nuclear Boiler | Gu yon | N/A | N/A | N/A | 469546 | 1985 | Replacement | No |
| Piping Nuclear Boiler | Sandvik | N/A | N/A | N/A | 471314 | 1980 | Replacement | No |

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date 9/20/85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287I
Site Repair Organization P.O. No., Job No., etc.
4. Identification of System High Pressure Coolant Injection(E41) - Class 1
5. (a) Applicable Construction Code ANSI B31.1g Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| 1-E41-F023A | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-E41-F023A | Valcor | 91 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |
| 1-B41-F023C | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-E41-F023C | Valcor | 92 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |
| Piping 1-E41 | Sandvik | N/A | N/A | N/A | 469425 | 1984 | Replacement | No |
| Cap 1-E41 | Guyon | N/A | N/A | N/A | DDJ | 1985 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp 190 °F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code _____ (repair or replacement)

Signed Robert Shaddy Project Engineer 9/23, 19 85
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. replacement _____ have inspected the _____ described in this Report on 1-29-86, 19 85
 [Repairs] or Replacement[s]

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 _____ Commissions NC-1139
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287I
Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| Piping 1-E41 | Vogt | N/A | N/A | N/A | R4587B | 1984 | Replacement | No |
| Piping 1-E41 | Valcor | N/A | N/A | N/A | 468555 | 1984 | Replacement | No |
| Piping 1-E41 | Valcor | N/A | N/A | N/A | L715NU | 1984 | Replacement | No |
| 1-E41-V114 | Vogt | 146 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-E41-V115 | Vogt | 56 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B32-F056F | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B32-F056C | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-CAC-1205F | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date 9/20/85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287I
Site Repair Organization P.O. No., Job No., etc.
4. Identification of System Containment Atmosphere Control (CAC) - Class 2
5. (a) Applicable Construction Code ANSI B31.1-1967 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| 1-CAC-PV-1205E | Tufline | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-CAC-SV-1205E | Valcor | 1 | N/A | N/A | 24717-0002 | 1984 | Replacement | No |
| Piping 1-CAC | Valcor | N/A | N/A | N/A | 468555 | 1984 | Replacement | No |
| Tubing 1-CAC | Guyon | N/A | N/A | N/A | 09188 | 1982 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 69 psi Test Temp. 95 °F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. (repair or replacement)

Signed Robert Shaddy Project Engineer 9/23, 1985
 (Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the replacement described in this Report on 1-29-86, 1985 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 [Signature] Commissions NC-1139
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date 9/20/85
P.O. Box 1551, Raleigh, NC 27602 (Name) (Address) Sheet 1 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461 (Name) (Address)
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287J
 Site (Name) (Address) Repair Organization P.O. No., Job No., etc.
4. Identification of System Reactor Core Isolation Cooling(E51) - Class 1
5. (a) Applicable Construction Code ANSI B31.1-1967 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| 1-E51-F043C | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-E51-F043A | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-E51-F043C | Valcor | 49 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |
| 1-E51-F043A | Valcor | 47 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |
| 1-E51-V84 | Vogt | 78 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-E51-V85 | Vogt | 89 | N/A | N/A | 215071 | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp. 190 °F
9. Remarks
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code (repair or replacement)

Signed Robert L. Shaddy Project Engineer Title 9/23, 1985
 (Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the replacement described in this Report on 1-29-86, 1985 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 (Inspector) NC-1139 Commissions (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287 J
Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| Piping 1-E51 | Sandvik | N/A | N/A | N/A | 471314 | 1985 | Replacement | No |
| Piping 1-E51 | Valcor | N/A | N/A | N/A | 468555 | 1984 | Replacement | No |
| Piping 1-E51 | Vogt | N/A | N/A | N/A | R4587B | 1984 | Replacement | No |
| Piping 1-E51 | Guyon | N/A | N/A | N/A | 469546 | 1985 | Replacement | No |
| Piping 1-E51 | Valcor | N/A | N/A | N/A | 469661 | 1984 | Replacement | No |

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AS-6

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date 9/20/85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
(Name) (Address)
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
(Name) (Address)
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287J
(Name) (Address) Repair Organization P.O. No., Job No., etc.
4. Identification of System Nuclear Boiler (B21) - Class 1
(Address)
5. (a) Applicable Construction Code ANSI B31.1-1967 Edition, _____ Addenda, Code Cases _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| 1-B21-F056 | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F056 | Valcor | 28 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |
| 1-B21-F054 | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F054 | Valcor | 27 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |
| 1-B21-V42 | Vogt | 167 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-V43 | Vogt | 161 | N/A | N/A | 215071 | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp. 190 °F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code (repair or replacement)
 Signed Robert Shadely Project Engineer 9/23, 19 85
(Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the replacement described in this Report on 1-29-86, 19 85
(State or Province, National Board) (Repairs or Replacement(s)) (Date)

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 [Signature] Commissions NC-1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in Items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- 1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 2
- 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
- 3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287 J
Address Repair Organization P.O. No, Job No. etc.

95-19

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| Piping 1-B21 | Valcor | N/A | N/A | N/A | 469661 | 1984 | Replacement | No |
| Piping 1-B21 | Vogt | N/A | N/A | N/A | R4587B | 1984 | Replacement | No |
| Piping 1-B21 | Valcor | N/A | N/A | N/A | 468555 | 1984 | Replacement | No |
| Piping 1-B21 | Guyon | N/A | N/A | N/A | 469546 | 1985 | Replacement | No |
| Piping 1-B21 | Vogt | N/A | N/A | N/A | F315 | 1984 | Replacement | No |

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date 9/20/85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287J
Site Repair Organization P.O. No., Job No., etc.
4. Identification of System Reactor Coolant Recirculation System(B21) - Class 1
5. (a) Applicable Construction Code ANSI B31.1-1967 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| 1-B32-F056H | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B32-F056A | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| Piping 1-B32 | Valcor | N/A | N/A | N/A | 469661 | 1984 | Replacement | No |
| Cap I-B32 | Guyon | N/A | N/A | N/A | AMH | 1980 | Replacement | No |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp. 190 °F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.
 Signed [Signature] Project Engineer Title 9/23, 1985
 (Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, ILL have inspected the replacement described in this Report on 1-29-86, 1985
 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 1-29-86 [Signature] Commissions NC-1139
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date 9/20/85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
(Name) (Address)
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
(Name) (Address)
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287K
Site (Name) (Address) Repair Organization P.O. No., Job No., etc.
4. Identification of System Non-Interruptable Instrument Air(RNA) - Class 2
(Address)
5. (a) Applicable Construction Code ANSI B31.1 67 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|-----------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| 1-IA-PV-1204B | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| Piping 1-RNA | Guyon | N/A | N/A | N/A | 470755 | 1984 | Replacement | No |
| 1-IA-PV-1204C | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| Piping 1-RNA | Alloy Stainless | N/A | N/A | N/A | A133-84 DDJ | 1984 | Replacement | No |
| Piping 1-RNA | Bonney Forde | N/A | N/A | N/A | CR50 | 1984 | Replacement | No |
| Cap 1-B21 | Guyon | N/A | N/A | N/A | DDJ | 1985 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Normal Operating Pressure Other IPCLRT
 Pressure 49 psi Test Temp. 95 °F
9. Remarks Spared penetration ports - capped on both sides.
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.
 Signed Robert Schmitt Project Engineer 9/23, 1985
(Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill., have inspected the replacement described in this Report on 1-29-86, 1985
(Repairs or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 [Signature] Commissions NC-1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this date report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287L
Address _____ Repair Organization P.O. No, Job No. etc.

09-6 Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|--------------------|--------------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| I-E11-F037B | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| I-E11-F037B | Valcor | 2 | N/A | N/A | 14717001 | 1984 | Replacement | No |
| Piping 1-E11 | Valcor | N/A | N/A | N/A | 469661 | 1984 | Replacement | No |
| Piping 1-E11 | Valcor | N/A | N/A | N/A | 470079 | 1984 | Replacement | No |
| 90° Elbow 1-E11 | Alloy Stainless | N/A | N/A | N/A | RW | 1985 | Replacement | No |
| Piping 1-E11 | Sandvik | N/A | N/A | N/A | 471314 | 1985 | Replacement | No |
| Piping 1-E11 | Guyon | N/A | N/A | N/A | 470755 | 1985 | Replacement | No |
| Cap 1-E11 | Guyon | N/A | N/A | N/A | DDJ | 1985 | Replacement | No |
| I-B21-PV-1229E | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| I-B21-PV-1229F | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date 9/20/85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 3

2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461

3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287 M
Site Repair Organization P.O. No., Job No., etc.

4. Identification of System Nuclear Boiler(B21) - Class 1

5. (a) Applicable Construction Code ANSI B31.1-1967 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | P/N | | | |
| 1-B21-F042B | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F042B | Valcor | 17 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |
| 1-B21-F044B | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F044B | Valcor | 19 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |
| 1-B21-F046B | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F046B | Valcor | 20 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp. 190 °F

9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.
 Signed Robert Shaddy Project Engineer 9/23, 1985
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the replacement described in this Report on 1-29-86, 1985 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 [Signature] Commissions NC-1139
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- 1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 3
- 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
- 3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287 M
Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| I-B21-F0488 | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| I-B21-F0488 | Valcor | 22 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| I-B21-F0490 | Dragon | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| I-B21-F0490 | Valcor | 6 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| I-B21-V48 | Vogt | 9 | N/A | N/A | 215071 | 1984 | Replacement | No |
| I-B21-V49 | Vogt | 10 | N/A | N/A | 215071 | 1984 | Replacement | No |
| I-B21-V50 | Vogt | 13 | N/A | N/A | 215071 | 1984 | Replacement | No |
| I-B21-V51 | Vogt | 32 | N/A | N/A | 215071 | 1984 | Replacement | No |

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CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 3 of 3
2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287 M
Address _____ Repair Organization P.O. No, Job No. etc.

9-63

Identification of System

| Name of Component | Name of Mfr. | Mfrs. No. | Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-----------------------|--------------|-----------|----------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | | |
| 1-B21-V52 | Vogt | 164 | | N/A | N/A | 215071 | 1984 | Replacement | No |
| Piping Nuclear Boiler | Guyon | N/A | | N/A | N/A | 470755 | 1985 | Replacement | No |
| Piping Nuclear Boiler | Vogt | N/A | | N/A | N/A | R4587B | 1984 | Replacement | No |
| Piping Nuclear Boiler | Guyon | N/A | | N/A | N/A | 469546 | 1985 | Replacement | No |
| Piping Nuclear Boiler | Valcor | N/A | | N/A | N/A | 468555 | 1984 | Replacement | No |

**CASE
N-308**

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI**

1. Owner Carolina Power & Light Co. Date 9/20/85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
(Name) (Address)
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
(Name) (Address)
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-28M
Site (Name) (Address) Repair Organization P.O. No., Job No., etc.
4. Identification of System Nuclear Boiler(B21) - Class 1
(Address)
5. (a) Applicable Construction Code ANSI B31.1-1967 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-----------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| 1-IA-PV-1217E | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-IV-2149 | Valcor | 38 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |
| 1-B21-V53 | Vogt | 66 | N/A | N/A | 215071 | 1984 | Replacement | No |
| Piping Nuclear Boiler | Valcor | N/A | N/A | N/A | 468555 | 1984 | Replacement | No |
| Cap Nuclear Boiler | Guyon | N/A | N/A | N/A | DJO | 1985 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other IPCLRT
 Pressure 49 psi Test Temp. 95 °F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code (repair or replacement)
 Signed Robert Shultz Project Engineer 9/23, 19 85
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the replacement described in this Report on 1-29-86 19 85
(Repairs) or Replacement(s) ~~1-29-86~~

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 AT [Signature] Commission's NC-1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date September 20, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
(Name) (Address)
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
(Name) (Address)
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287N
Site (Name) Repair Organization P O No., Job No., etc.
4. Identification of System Reactor Coolant Recirculation (B32) - Class 1
(Address)
5. (a) Applicable Construction Code ANSI B31.49-67 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component Valve | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-B32-F056B | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B32-F056G | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| <u>Piping</u> 1-B32 | Sandvik | N/A | N/A | N/A | 469425 | 1984 | Replacement | No |
| <u>Cap</u> 1-B32 | Guyon | N/A | N/A | N/A | DDJ | 1985 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp. 190 °F
9. Remarks
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code (repair or replacement)
 Signed Robert Staddy Project Engineer 9/23 19 85
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the Replacement described in this Report on 1-29-86 19 85
(Repairs or Replacement(s)) 508 1/20/86
 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 1-29-86 Commissions NC-1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date September 20, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287N
Site Repair Organization P.O. No., Job No., etc.
4. Identification of System High Pressure Coolant Injection (E41)
5. (a) Applicable Construction Code ANSI B31.1-67 Edition, _____ Addenda, Code Cases _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component Valve | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| 1-E41-F023D | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-E41-F023D | Valcor | 46 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| 1-E41-F023B | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-E41-F023D | Valcor | 45 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| 1-E41-V112 | Vogt | 148 | N/A | N/A | 215071 | 1985 | Replacement | No |
| 1-E41-V113 | Vogt | 151 | N/A | N/A | 215071 | 1985 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp. 190 °F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code _____ (repair or replacement)

Signed Robert Shaddy Project Engineer Title 9/23, 1985 (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the Replacement described in this Report on 1-29-86, 1985 (Repairs or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 _____ Commissions NC-1139 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in Items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- 1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 2
- 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
- 3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287 N
Address _____ Repair Organization P.O. No, Job No. etc.

9-67

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| Piping 1-E41 | Sandvik | N/A | N/A | N/A | 469425 | 1984 | Replacement | No |
| Piping 1-E41 | Vogt | N/A | N/A | N/A | R4587B | 1984 | Replacement | No |
| Piping 1-E41 | Valcor | N/A | N/A | N/A | 468555 | 1984 | Replacement | No |
| Piping 1-E41 | Valcor | N/A | N/A | N/A | L658NU | 1984 | Replacement | No |
| 1-B21-PV-1228E | Valcor | N/A | N/A | N/A | N/A | 1984 | Replaced | No |
| 1-B21-PV-1228F | Valcor | N/A | N/A | N/A | N/A | 1984 | Replaced | No |

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date September 20, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
(Name) (Address)
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
(Name) (Address)
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-2870
Site (Name) Repair Organization P.C. No., Job No., etc.
4. Identification of System Reactor Coolant Recirculation System (B32) - Class 1
(Address)
5. (a) Applicable Construction Code ANSI B31.1, 1967 Edition, 1967 Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component Valve | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-B32-F056E | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B32-F056D | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| <u>Piping</u> 1-B32 | Guyon | N/A | N/A | N/A | 470755 | 1985 | Replacement | No |
| Cap 1-B21 | Guyon | N/A | N/A | N/A | DDJ | 1985 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp. 190 °F
9. Remarks: _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. (repair or replacement)
 Signed [Signature] Project Engineer 9/23, 19 85
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the Replacement described in this Report on 1-29-86, 1985
(Repair(s) or Replacement(s)) 1/29/86
 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 1/29/86 [Signature] Commissions NC-1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in Items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date September 20, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
(Name) (Address)
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
(Name) (Address)
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287 0
Site Repair Organization P O No., Job No., etc.
(Name) (Address)
4. Identification of System Reactor Core Isolation Cooling (E51) - Class 1
5. (a) Applicable Construction Code ANSI B31.49 67 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification PN | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|-------------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| 1-E51-F043B | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-E51-F043B | Valcor | 48 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |
| 1-E51-F043D | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-E51-F043D | Valcor | 50 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |
| 1-E51-V86 | Valcor | N/A | N/A | N/A | L715NU | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Normal Operating Pressure Other
 Pressure 1005 psi Test Temp. 190 °F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code (repair or replacement)

Signed Robert Spindel Project Engineer 9/23, 19 85
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the Replacement described in this Report on 1-29-86, 19 85
(Repairs) or Replacement(s)

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1/29/86 [Signature] Commissions NC-1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- 1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 2
- 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
- 3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287 0
Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

9-70

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| Piping 1-E51 | Guyon | N/A | N/A | N/A | 471314 | 1985 | Replacement | No |
| 1-B21-V44 | Valcor | 170 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-PV-1226C | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date September 20, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
(Name) (Address)

2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
(Name) (Address)

3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287 0
Site (Name) Repair Organization P O No., Job No., etc.

4. Identification of System Nuclear boiler (B21) - Class 1
(Address)

5. (a) Applicable Construction Code ANSI B31.1g 67 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | PN | | | |
| 1-B21-F060 | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F060 | Valcor | 37 | N/A | N/A | 79417 0001 | 1984 | Replacement | No |
| Piping 1-B21 | Guyon | N/A | N/A | N/A | 470755 | 1985 | Replacement | No |
| 1-B51-V87 | Valcor | N/A | N/A | N/A | L715NU | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.

8. Tests Conducted: Hydrostatic Pneumatic Normal Operating Pressure Other
 Pressure 1005 psi Test Temp. 190 °F

9. Remarks
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code (repair or replacement)

Signed Robert Shaddy Project Engineer 9/23, 19 85
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill have inspected the Replacement described in this Report on 1-29-86, 19 85
(Repair(s) or Replacement(s) Date

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 [Signature] Commissions NC-1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date September 20, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
(Name) (Address)

2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
(Name) (Address)

3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287P
Site Repair Organization P.O. No., Job No., etc.
(Name) (Address)

4. Identification of System Nuclear Boiler (B21) - Class 1

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, 78 Addenda, Code Car N308
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Car N308

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component Valve | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| 1-B21-PV-1227F | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-IV-2196 | Valcor | 76 | N/A | N/A | 207170001 | 1984 | Replacement | No |
| Piping 1-B21 | Guyon | N/A | N/A | N/A | 470755 | 1985 | Replacement | No |
| Piping 1-B21 | Vogt | N/A | N/A | N/A | R4587B | 1984 | Replacement | No |
| Piping 1-B21 | Valcor | N/A | N/A | N/A | 468555 | 1984 | Replacement | No |
| Piping 1-B21 | B&W | N/A | N/A | N/A | M4188 | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp. 190 °F

9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.
(repair or replacement)

Signed Robert Shaddy Project Engineer 9/22 19 85
(Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the Replacement described in this Report on 1-29-86, 1985
(Repairs) or Replacement(s)

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 [Signature] Commissions NC-1139
(Inspector) (State or Province; National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287p
Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

9-73

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Elbow | Alloy | | | | | | | |
| B21 | Stainless | N/A | N/A | N/A | RW | 1985 | Replacement | No |
| Piping B21 | Valcor | N/A | N/A | N/A | 469546 | 1984 | Replacement | No |
| Piping B21 | Sandvik | N/A | N/A | N/A | 471314 | 1984 | Replacement | No |
| I-B21-V46 | Vogt | N/A | N/A | N/A | N/A | 1984 | Replacement | No |
| I-E21-F017B | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| I-E21-F017B | Valcor | 9 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| I-E21-V88 | Vogt | 162 | N/A | N/A | 215071 | 1984 | Replacement | No |

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date September 20, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 3
(Name) (Address)
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
(Name) (Address)
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287P
(Name) (Address) Repair Organization P.O. No., Job No., etc.
4. Identification of System Containment Atmosphere Control (CAC) - Class 2
(Address)
5. (a) Applicable Construction Code ANSI B31.1-1967 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component Valve | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| 1-CAC-PV-1227A | Tufline | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-CAC-SV-1227A | Valcor | 4 | N/A | N/A | 207170002 | 1984 | Replacement | No |
| 1-CAC-PV-1227B | Tufline | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-CAC-SV-1227B | Valcor | 5 | N/A | N/A | 207170002 | 1984 | Replacement | No |
| 1-CAC-PV-1227C | Tufline | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-CAC-SV-1227C | Valcor | 6 | N/A | N/A | 207170002 | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 69 psi Test Temp. 95 °F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code (repair or replacement)

Signed Robert Shalsh Project Engineer 9/23, 19 85
(Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the Replacement described in this Report on 1-24-86, 19 85
(Repairs or Replacement(s)) (Date)

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-24-86 [Signature] Commissions NC-1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- 1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 3 of 3
- 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
- 3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287P
Address _____ Repair Organization P.O. No, Job No. etc.

9-76

| Identification of System | | | | | | | | |
|--------------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
| Coupling | | | | | | | | |
| 1-CAC | B&W | N/A | N/A | N/A | CCL | 1985 | Replacement | No |
| Piping 1-CAC | B&W | N/A | N/A | N/A | M-8011 | 1984 | Replacement | No |
| Tubing 1-CAC | Gu yon | N/A | N/A | N/A | 471941 | 1985 | Replacement | No |

**CASE
N-308**

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI**

1. Owner Carolina Power & Light Co. Date September 20, 1985
(Name)
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
(Address)

2. Plant Brunswick Steam Electric Plant Unit 1
(Name)
P.O. Box 10429, Southport, NC 28461
(Address)

3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287 Q
(Name) Repair Organization P.O. No., Job No., etc.
Site

4. Identification of System Main Stream (B21)
(Address)

5. (a) Applicable Construction Code ANSI B31.1g 67 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-B21-F058P | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F058P | Valcor | 71 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |
| 1-B21-F058S | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F058S | Valcor | 73 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |
| 1-B21-F052D | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F052D | Valcor | 67 | N/A | N/A | 79417-0001 | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp. 190 °F

9. Remarks
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code (repair or replacement)

Signed Robert Shoddy Project Engineer 9/23, 19 85
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill have inspected the Replacement described in this Report on 1-29-86 19 85
(Repairs) or Replacement(s)

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 [Signature] Commissions NC-1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 of this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- 1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 2
- 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
- 3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287 0
Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | ASME Code Stamped (Yes or No) | |
|-------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| | | | | | | | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
| I-B21-F050D | Atlas | N/A | N/A | N/A | NA/ | N/A | Replaced | No |
| I-B21-F050D | Valcor | 65 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| I-B21-F058M | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| I-B21-F058M | Valcor | 69 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| I-B21-F058U | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| I-B21-F058U | Valcor | 75 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| I-B21-V73 | Vogt | 184 | N/A | N/A | 215071 | 1984 | Replacement | No |
| I-B21-V74 | Vogt | 16 | N/A | N/A | 215071 | 1984 | Replacement | No |
| I-B21-V76 | Vogt | 189 | N/A | N/A | 215071 | 1984 | Replacement | No |
| I-B21-V72 | Vogt | 181 | N/A | N/A | 215071 | 1984 | Replacement | No |
| I-B21-V71 | Vogt | 120 | N/A | N/A | 215071 | 1984 | Replacement | No |
| I-B21-V75 | Vogt | 186 | N/A | N/A | 215071 | 1984 | Replacement | No |

9-78

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date September 20, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 3
(Name) (Address)
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
(Name) (Address)
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287R
Site Repair Organization P.O. No., Job No., etc.
(Name) (Address)
4. Identification of System Main Steam (B21)
5. (a) Applicable Construction Code ANSI B31.1-1967 Edition, 77 Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component Valve | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-B21-V70 | Vogt | 17 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-V68 | Vogt | 36 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-V66 | Vogt | 19 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-V69 | Vogt | 5 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-V65 | Vogt | 161 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-V67 | Vogt | 57 | N/A | N/A | 215071 | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp. 190 °F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. (repair or replacement)

Signed Robert Shaddy Project Engineer 9/27, 19 85
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the Replacement described in this Report on 1-29-86, 19 85 (Repairs or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 AL Commissions NC-1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- 1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 3
- 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
- 3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287R
Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| 1-B21-F050B | Valcor | 24 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| 1-B2-F058H | Valcor | 36 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| 1-B21-F058D | Valcor | 32 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| 1-B21-F052B | Valcor | 26 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| 1-B21-F058B | Valcor | 30 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| 1-B21-F058F | Valcor | 34 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| 1-B21-F050B | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F053H | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F058D | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F052B | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |

08-6

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 3 of 3
 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
 3. Work Performed by Brunswick Construction Unit
 Site _____ BSEP Plant Modification 82-287R
 Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code |
|-------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|---------------------|
| | | | | | | | | Stamped (Yes or No) |
| I-B21-F058B | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| I-B21-F058F | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| Main Steam Piping | N/A | N/A | N/A | N/A | N/A | N/A | Replaced | No |

T8-6

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date September 19, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
(Name) (Address)
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
(Name) (Address)
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287s
(Name) (Address) Repair Organization P.O. No., Job No., etc.
4. Identification of System Nuclear Boiler (B21)
(Address)
5. (a) Applicable Construction Code ANSI B31.1-67 Edition, 1977 Addenda, Code Cases 578
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, 578 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-B21-V88 | Vogt | 173 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-V89 | Vogt | 136 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-V91 | Vogt | 38 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-F014L | Atlas | N/A | N/A | N/A | N/A | N/A | Replace | No |
| 1-B21-F014S | Atlas | N/A | N/A | N/A | N/A | N/A | Replace | No |
| 1-B21-F014M | Atlas | N/A | N/A | N/A | N/A | N/A | Replace | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp. 195 °F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.
(repair or replacement)

Signed Robert L. Sledge Project Engineer 9/23/ 1985
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill., have inspected the Replacement described in this Report on 1-29-86, 1985 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 [Signature] Commissions NC-1139
(Inspector) (State or Province, National Board)

Notes: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287 s
Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| I-B21-F014L | Valcor | 60 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| I-B21-F014S | Valcor | 63 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| I-B21-F014M | Valcor | 61 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| Piping I-B21 | N/A | N/A | N/A | N/A | N/A | N/A | Replacement | No |
| I-B21-F014R | Valcor | 62 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| E1-B21-V90 | Vogt | 142 | N/A | N/A | 215071 | 1985 | Replacement | No |
| I-B21-F014R | Atlas | N/A | N/A | N/A | 215071 | 1985 | Replaced | No |

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CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date September 19, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287 T
 Site (Name) Repair Organization P.O. No., Job No., etc.
4. Identification of System Nuclear Boiler (B21), Reactor Closed Cooling (RCC)
5. (a) Applicable Construction Code ANSI B31.1-1967 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component Valve | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| 1-B21-V92 | Vogt | 168 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-V93 | Vogt | 129 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-V94 | Vogt | 63 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-V95 | Vogt | 64 | N/A | N/A | 215071 | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp. 190 °F
9. Remarks
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code (repair or replacement)

Signed [Signature] Project Engineer Title 9/23, 1985 (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the Replacement described in this Report on 1-29-86, 1985 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 [Signature] Commissions NC-1139
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287T
Address Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| I-B2i-F014C | Valcor | 54 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| I-B21-F014H | Valcor | 59 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| I-B21-F014G | Valcor | 58 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| I-B21-F014D | Valcor | 55 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| I-B21-F014C | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| I-B21-F014H | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| I-B21-F014G | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| I-B21-F014D | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date September 20, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287T
Site Repair Organization P.O. No., Job No., etc.
4. Identification of System Reactor Closed Cooling (RCC) Class 1, Reactor Bldg. Sampling (RXS) Class 1
5. (a) Applicable Construction Code ANSI B31.1-67 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component Valve | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| 1-RCC-SV-1222B | Valcor | 1 | N/A | N/A | 148170001 | 1984 | Replacement | No |
| 1-RCC-PV-1222B | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-RCC-PV-1222C | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-RCC-SV-1222C | Valcor | 2 | N/A | N/A | 148170001 | 1984 | Replacement | No |
| Piping 1-RCC | N/A | N/A | N/A | N/A | N/A | N/A | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 225 psi Test Temp. 80 °F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code (repair or replacement)

Signed [Signature] [Signature] 9/23, 1985
 (Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill., have inspected the Replacement described in this Report on 1-29-86, 1985 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 [Signature] Commissions NC 1139
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

**CASE
N-308**

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date September 19, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
(Name) (Address)

2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
(Name) (Address)

3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287U
Site Repair Organization P.O. No., Job No., etc.
(Name) (Address)

4. Identification of System Core Spray (E21) Nuclear Boiler System (B21)
(Address)

5. (a) Applicable Construction Code ANSI B31.49-67 Edition, _____ Addenda, Code Cases _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component Valve | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| 1-B21-V41B | Vogt | 111 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-V41D | Vogt | 23 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-E21-V87 | Vogt | 75 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-F042A | Valcor | 16 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| 1-B21-F044A | Valcor | 18 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| 1-E21-F017A | Valcor | 44 | N/A | N/A | 794170001 | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp. 190 °F

9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code (repair or replacement)
 Signed Robert L. Shultz Project Engineer 9/23, 1985
(Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the Replacement described in this Report on 1-29-86, 1985
(Repairs) or Replacement(s) 8/21/29/86
 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 1/29/86 [Signature] Commissions NC-11309
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287
Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|---------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| | I-B21-F044A | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced |
| I-B21-F042A | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| I-E21-F017A | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| E21 Piping | Valcor | N/A | N/A | N/A | 791540 | 1984 | Replacement | No |
| B21 Piping | Valcor | N/A | N/A | N/A | 468555 | 1984 | Replacement | No |
| I-IA-PV-1201A | Valcor | N/A | N/A | N/A | N/A | N/A | Replaced | No |

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CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date September 19, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
(Name) (Address)
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
(Name) (Address)
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287V
Site (Name) (Address) Repair Organization P.O. No., Job No., etc.
4. Identification of System Nuclear Boiler System (B21) - Class 1
(Address)
5. (a) Applicable Construction Code ANSI B31.1-1967 Edition, 1967 Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-B21-V45 | Vogt | 20 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B21-F047D | Tufline | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B21-F047D | Valcor | 4 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp. 190 °F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code (repair or replacement)

Signed Robert Shedd Project Engineer Title 9/23 Date 1985
(Owner or Owner's Designee)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the Replacement described in this Report on 1-29-86, 1985
(Repair(s) or Replacement(s)

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 [Signature] Commissions NC-1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI:

1. Owner Carolina Power & Light Co. Date September 20, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
(Name) (Address)
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
(Name) (Address)
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287 W
Site (Name) (Address) Repair Organization P.O. No., Job No., etc.
4. Identification of System Containment Atmosphere Control (CAC) - Class 2
(Address)
5. (a) Applicable Construction Code ANSI B31.1-1967 Edition, 1967 Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-CAC-PV-1218A | Target Rock | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-CAC-SV-1218A | Valcor | 14 | N/A | N/A | 147170005 | 1984 | Replacement | No |
| 1-CAC-PV-1218C | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-CAC-SV-1218C | Valcor | 1 | N/A | N/A | 147170002 | 1984 | Replacement | No |
| 1-CAC-PV-4345 | Marotta | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-CAC-SV-4345 | Valcor | 3 | N/A | N/A | 148170003 | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 69 psi Test Temp. 95 °F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code (repair or replacement)
 Signed Robert Shaddy Project Engineer 9/23 19 85
(Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the Replacement described in this Report on 1-29-86 19 85
(Repairs) or Replacement(s) 9/23/86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 [Signature] Commissions NC 1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- 1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 2
- 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
- 3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287 W
Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Piping 1-CAC | Valcor | N/A | N/A | N/A | M41888 | 1984 | Replacement | No |
| Piping 1-CAC | Valcor | N/A | N/A | N/A | 470079 | 1984 | Replacement | No |
| Piping 1-CAC | Valcor | N/A | N/A | N/A | M8006 | 1984 | Replacement | No |

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CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date September 19, 1985
P.O. Box 1551, Raleigh, NC 27602 Shee: 1 of 1
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287W
Site Repair Organization P.O. No., Job No., etc.
4. Identification of System High Pressure Coolant Injection System (E41) - Class 2
5. (a) Applicable Construction Code ANSI B31.4g 67 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-E41-PV-1218D | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-E41-SV-1218D | Valcor | 1 | N/A | N/A | 147170003 | 1984 | Replacement | No |
| 1-E41-PV-1220D | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-E41-SV-1220D | Valcor | 1 | N/A | N/A | 148170002 | 1984 | Replacement | No |
| 1-E41 (Piping) | Valcor | N/A | N/A | N/A | M8006 | 1984 | Replacement | No |
| 1-E41 (Piping) | B&W | N/A | N/A | N/A | M8011 | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 69 psi Test Temp. 95 °F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. _____ (repair or replacement)

Signed [Signature] Project Engineer 9/23, 19 85
 (Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the Replacement described in this Report on 1-29-86, 19 85
 [Repairs or Replacement(s)] [Date]

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1/29/86 _____ Commissions NC-9139
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

**CASE
N-308**

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI**

1. Owner Carolina Power & Light Co. Date September 20, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
(Name) (Address)
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
(Name) (Address)
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287W
Site (Name) (Address) Repair Organization P.O. No., Job No., etc.
4. Identification of System Containment Atmosphere Control (CAC) - Class 2
(Address)
5. (a) Applicable Construction Code ANSI B31.1 Edition, _____ Addenda, Code Cases _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|----------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-CAC Pipe | Valcor | N/A | N/A | N/A | 400025 | 1984 | Replacement | No |
| 1-CAC Cap | Valcor | N/A | N/A | N/A | CJ39 | 1984 | Replacement | No |
| 1-CAC-PV-1220C Valve | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other IPCLRT
 Pressure 49 psi Test Temp. 95 °F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.
(repair or replacement)

Signed [Signature] Title Project Engineer Date 9/23, 19 85
(Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the Replacement described in this Report on 1-29-86, 19 85
(Repairs) or Replacement(s)

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 [Signature] Commissions NC-1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in Items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date September 20, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287X
Site Repair Organization P.O. No., Job #, etc.
4. Identification of System Containment Atmosphere Control (CAC) - Class 2
5. (a) Applicable Construction Code ANSI B31.49 67 Edition, 1977, S78 Addenda, Code Cases N308
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| 1-CAC-PV-1219B | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-CAC-SV-1219B | Valcor | 2 | N/A | N/A | 147170002 | 1984 | Replacement | No |
| 1-CAC-PV-1219C | Valcor | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-CAC-SV-1219C | Valcor | 3 | N/A | N/A | 147170002 | 1984 | Replacement | No |
| 1-CAC-PV-4344 | Marotta | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-CAC-SV-4344 | Valcor | 2 | N/A | N/A | 147170003 | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 69 psi Test Temp. 95 °F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code (repair or replacement)

Signed [Signature] Project Engineer Date 9/23, 1985
 (Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the Replacement described in this Report on 1-29-85 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-85 Commissions NC 1139
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287 X
Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Piping 1-CAC | Guyon | N/A | N/A | N/A | 470755 | 1985 | Replacement | No |
| Coupling 1CAC | N/A | N/A | N/A | N/A | CGJ | N/A | Replacement | No |
| Piping 1-CAC | Valcor | N/A | N/A | N/A | M8006 | 1984 | Replacement | No |
| Piping 1-CAC | Valcor | N/A | N/A | N/A | 470079 | 1984 | Replacement | No |
| Piping 1-CAC | B&W | N/A | N/A | N/A | M8011 | 1984 | Replacement | No |
| 45° Elbow | | | | | | | | |
| 1-CAC | N/A | N/A | N/A | N/A | DR | N/A | Replacement | No |
| 90° Elbow | Alloy | | | | | | | |
| 1-CAC | Stainless | N/A | N/A | N/A | RW | 1985 | Replacement | No |
| Piping 1-CAC | N/A | N/A | N/A | N/A | M4188 | N/A | Replacement | No |

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date September 20, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287x
Site Repair Organization P.O. No., Job No., etc.
4. Identification of System High Pressure Coolant Injection (E41) - Class 1
5. (a) Applicable Construction Code ANSI B31.4g 67 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, 578 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component Valve | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|----------------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-E41-PV-1219D | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-E41-SV-1219D | Valcor | 2 | N/A | N/A | 147170003 | 1984 | Replacement | No |
| 1-E41-PV-1221D | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-E41-SV-1221D | Valcor | 2 | N/A | N/A | 14817000 | 1984 | Replacement | No |
| 1-E41 Piping | Valcor | N/A | N/A | N/A | M8006 | 1984 | Replacement | No |
| 1-E41 Piping | B&W | N/A | N/A | N/A | M8011 | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 69 psi Test Temp. 95 °F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code (repair or replacement)

Signed Robert Shadoff Project Engineer 9/23, 19 85
 (Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill., have inspected the Replacement described in this Report on 1-29-86, 19 85 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 [Signature] Commissions NC-1139
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- 1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 2
- 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
- 3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287X
Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 45°E11 1-E41 | Guyon | N/A | N/A | N/A | DR | 1984 | Replacement | No |
| 90°E11 1-E41 | Guyon | N/A | N/A | N/A | KC | 1984 | Replacement | No |

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**CASE
N-308**

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI**

1. Owner Carolina Power & Light Co. Date September 20, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287CC
Site Repair Organization P.O. No., Job No., etc.
4. Identification of System Reactor Coolant Recirculation (B32) - Class 1
5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component Valve | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-B32-F006B | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B32-F006B | Valcor | 40 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| 1-B32-V66 | Vogt | 152 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B32-V97 | Vogt | 117 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B32 Piping | Guyon | N/A | N/A | N/A | 470755 | 1985 | Replacement | No |
| 1-B32 Piping | Vogt | N/A | N/A | N/A | B4587B | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1275 psi Test Temp. 80 °F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.

Signed [Signature] Project Engineer 9/23, 19 85
 (Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill., have inspected the Replacement described in this Report on 1-29-86 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 [Signature] Commissions NC-1139
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- 1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 2
- 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
- 3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287 CC
Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Piping 1-832 | Valcor | N/A | N/A | N/A | 468555 | 1984 | Replacement | No |
| Piping 1-832 | Guyon | N/A | N/A | N/A | 469546 | 1985 | Replacement | No |
| Tee 1-832 | Alloy Stainless | N/A | N/A | N/A | AS | 1984 | Replacement | No |
| Coupling 1-832 | Alloy Stainless | N/A | N/A | N/A | DKD | 1984 | Replacement | No |

101-6

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date September 20, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 3
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287CC
Site Repair Organization P.O. No., Job No., etc.
4. Identification of System Reactor Coolant Circulation (B32) - Class 1
5. (a) Applicable Construction Code ANSI B31.1g 67 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, 578 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component Valve | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-B32-F039B | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B32-F039B | Valcor | 41 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| 1-B32-F058B | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B32-F058B | Valcor | 43 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| 1-B32-F005B | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B32-F005B | Valcor | 39 | N/A | N/A | 794170001 | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp. 190 °F
9. Remarks
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code (repair or replacement)

Signed [Signature] Project Engineer 9/25, 1985
 (Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the Replacement described in this Report on 1-29-86, 1985 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 [Signature] Commissions NC-1139
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 3
 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
 3. Work Performed by Brunswick Construction Unit
 Site BSEP Plant Modification 82-287 CC
 Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| 1-B32-F039D | Atias | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B32-F039D | Valcor | 180 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| Piping 1-B32 | Guyon | N/A | N/A | N/A | 470755 | 1985 | Replacement | No |
| Piping 1-B32 | Vogt | N/A | N/A | N/A | B4587B | 1984 | Replacement | No |
| Piping 1-B32 | Valcor | N/A | N/A | N/A | 468555 | 1984 | Replacement | No |
| Piping 1-B32 | Guyon | N/A | N/A | N/A | 469546 | 1985 | Replacement | No |
| Tee 1-B32 | Alloy Stainless | N/A | N/A | N/A | AS | 1984 | Replacement | No |
| Coupling 1-B32 | Alloy Stainless | N/A | N/A | N/A | DKD | 1984 | Replacement | No |
| 1-B32-V68 | Vogt | 143 | N/A | N/A | 215071 | 1984 | Replacement | No |

9-103

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- 1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 3 of 3
- 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
- 3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287 CC
Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| ✓ 1-B32-V69 | Vogt | 90 | N/A | N/A | 215071 | 1984 | Replacement | No |
| ✓ 1-B32-V65 | Vogt | 62 | N/A | N/A | 215071 | 1984 | Replacement | No |
| ✓ 1-B32-V67 | Vogt | 122 | N/A | N/A | 215071 | 1984 | Replacement | No |
| ✓ 1-B32-V98 | Vogt | 176 | N/A | N/A | 215071 | 1984 | Replacement | No |

9-104

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date September 20, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287DD
Site Repair Organization P.O. No., Job No., etc.
4. Identification of System Reactor Coolant Recirculation (B32) - Class 1
5. (a) Applicable Construction Code ANSI B31.19 67 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, 578 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component Valve | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| 1-B32-F042B | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B32-F042B | Valcor | 86 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| 1-B32-F041B | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B32-F041B | Valcor | 82 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| 1-B32-F041A | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B32-F041A | Valcor | 81 | N/A | N/A | 794170001 | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp. 190 °F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.
 Signed Robert Shaddy Project Engineer 9/23, 1985
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the REPLACEMENT described in this Report on 1-29-86, 1985 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 [Signature] Commissions NC-1139
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287DD
Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve 1-B32-F042A | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| Valve 1-B32-F042A | Valcor | 85 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| Piping 1-B32 | Guyon | N/A | N/A | N/A | 470755 | 1985 | Replacement | No |
| Piping 1-B32 | Valcor | N/A | N/A | N/A | R4587B | 1984 | Replacement | No |
| Elbow 1-B32 | N/A | N/A | N/A | N/A | JJ | N/A | Replacement | No |
| Piping 1-B32 | Valcor | N/A | N/A | N/A | 469546 | 1984 | Replacement | No |
| Piping 1-B32 | Sandvik | N/A | N/A | N/A | 471314 | 1984 | Replacement | No |
| Piping 1-B32 | N/A | N/A | N/A | N/A | TC | N/A | Replacement | No |
| Elbow 1-B32 | N/A | N/A | N/A | N/A | WH | N/A | Replacement | No |
| 1-B32-V63 | Vogt | 85 | N/A | N/A | 215071 | 1985 | Replacement | No |
| 1-B32-V64 | Vogt | 120 | N/A | N/A | 215071 | 1985 | Replacement | No |
| 1-B32-V61 | Vogt | 62 | N/A | N/A | 215071 | 1985 | Replacement | No |
| 1-B32-V62 | Vogt | 61 | N/A | N/A | 215071 | 1985 | Replacement | No |

901-6

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date September 16, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
(Name) (Address)
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
(Name) (Address)
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287EE
Site Repair Organization P.O. No., Job No., etc.
(Name) (Address)
4. Identification of System Primary Containment Hydrogen Monitoring (CAC) - Class 2
5. (a) Applicable Construction Code ANSI B31.4g 67 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, 578 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|----------------------|-----------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| 1-CAC-Valve PV-1231B | Tufline | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-CAC-Valve SV-1231B | Valcor | 2 | N/A | N/A | 207170007 | 1984 | Replacement | No |
| 1-CAC-Piping | Valcor | N/A | N/A | N/A | 469661 | 1984 | Replacement | No |
| 1-CAC-Piping | Guyon | N/A | N/A | N/A | 471314 | 1985 | Replacement | No |
| 1-CAC-Piping | Valcor | N/A | N/A | N/A | 470079 | 1985 | Replacement | No |
| 1-CAC-Piping | Alloy Stainless | N/A | N/A | N/A | RW | 1985 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 69 psi Test Temp. 95 °F
9. Remarks
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code (repair or replacement)
 Signed *[Signature]* Project Engineer Title 9/23, 19 85
(Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermans Mutual Ins. Co. of Long Grove, Ill. have inspected the Replacement described in this Report on 1-29-86, 19 85
(Repairs) or Replacement(s)
 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 1-29-86 *[Signature]* Commissions NC-1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

**CASE
N-308**

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

V

1. Owner Carolina Power & Light Co. Date September 16, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 3
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287EE
Site Repair Organization P.O. No., Job No., etc.
4. Identification of System Reactor Coolant Recirculation (B32) - Class 1
5. (a) Applicable Construction Code ANSI B31.4967 Edition, Addenda, Code Cases
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component Valve | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P/N | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| 1-B32-F041C | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B32-F041C | Valcor | 83 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| 1-B32-F042C | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B32-F042C | Valcor | 87 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| 1-B32-F042D | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B32-F042D | Valcor | 88 | N/A | N/A | 794170001 | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp 190 °F
9. Remarks
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code (repair or replacement)

Signed [Signature] Project Engineer Title 9/23, 19 85
 (Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill., have inspected the Replacement described in this Report on 1-29-86, 19 85
 [Repairs or Replacement(s)] 10/29/86

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 [Signature] Commissions NC-1139
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in Items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- 1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 3
- 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
- 3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287EE
Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|----------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve 1-B32 F041D | Altas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| Valve 1-B32 F041D | Valcor | 84 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| Piping 1-B32 | Guyon | N/A | N/A | N/A | 470755 | 1985 | Replacement | No |
| Valve 1-B32 V72 | Vogt | 96-215071 | N/A | N/A | N/A | 1985 | Replacement | No |
| Valve 1-B32- V73 | Vogt | 114-215071 | N/A | N/A | N/A | 1985 | Replacement | No |
| Valve 1-B32- V71 | Vogt | 141-215071 | N/A | N/A | N/A | 1985 | Replacement | No |

601-6

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 3 of 3
2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287 EE
Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve 1-B32-V70 | Vogt | 112-215071 | N/A | N/A | N/A | 1985 | Replacement | No |
| Piping 1-B32 | Valcor | N/A | N/A | N/A | 469546 | 1984 | Replacement | No |
| Piping 1-B32 | Vogt | N/A | N/A | N/A | R4587B | 1984 | Replacement | No |
| Piping 1-B32 | Valcor | N/A | N/A | N/A | 468555 | 1984 | Replacement | No |

011-6

**CASE
N-308**

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date September 20, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287FF
Site Repair Organization P.O. No., Job No., etc.
4. Identification of System Reactor Coolant Recirculation (B32) - Class 1
5. (a) Applicable Construction Code ANSI B31.1-1967 Edition, 78 Addenda, Code Cases N308
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component Valve | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-B32-F039C | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B32-F039C | Valcor | 80 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| 1-B32-F058A | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B32-F058A | Valcor | 89 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| 1-B32-F005A | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B32-F005A | Valcor | 78 | N/A | N/A | 794170001 | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1005 psi Test Temp. 190 °F
9. Remarks _____
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. (repair or replacement)

Signed [Signature] Project Engineer 9/23, 19 85
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the Replacement described in this Report on 1-29-86, 19 85
 (Repairs) or Replacement(s)

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 [Signature] Commissions NC 1139
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 2
 2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
 3. Work Performed by Brunswick Construction Unit
 Site BSEP Plant Modification 82-287 FF
 Address Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|-----------------|----------------|------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Valve | | | | | | | | |
| 1-B32-F039A | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B32-F039A | Valcor | 79 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| Piping 1-B32 | Guyon | N/A | N/A | N/A | 470755 | 1985 | Replacement | No |
| Piping 1-B32 | Vogt | N/A | N/A | N/A | R4587B | 1984 | Replacement | No |
| Piping 1-B32 | Valcor | N/A | N/A | N/A | 468555 | 1984 | Replacement | No |
| Piping 1-B32 | Guyon | N/A | N/A | N/A | 469546 | 1985 | Replacement | No |
| 90° Elbow 1-B32 | Alloy Stainless | N/A | N/A | N/A | CI | 1984 | Replacement | No |
| 90° Elbow 1-B32 | Alloy Stainless | N/A | N/A | N/A | JJ | 1984 | Replacement | No |
| Tee 1-B32 | Alloy Stainless | N/A | N/A | N/A | AS | 1984 | Replacement | No |

9-112

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: March 17, 1977
- (6) National Board No: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date September 20, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 82-287FF
 Site (Name) Repair Organization: P.O. No., Job No., etc.
4. Identification of System Reactor Coolant Recirculation (B32) - Class 1
5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, Addenda, Code Cases _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component Valve | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------------|--------------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-B32-F006A | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B32-F007A | Valcor | 78 | N/A | N/A | 794170001 | 1984 | Replacement | No |
| 1-B32-V76 | Vogt | 94 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 1-B32-V99 | Vogt | 126 | N/A | N/A | 215071 | 1984 | Replacement | No |
| 90° Elbow 1-B32 | Alloy Stainless | N/A | N/A | N/A | CI | 1984 | Replacement | No |
| 90° Elbow 1-B32 | Alloy Stainless | N/A | N/A | N/A | JJ | 1984 | Replacement | No |

7. Description of Work Replacement of air-operated reactor instrumentation penetration valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1275 psi Test Temp. 80 °F
9. Remarks _____
 (Applicable manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. (repair or replacement)

Signed Robert Shadell Project Engineer 9/23, 1985
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Ins. Co. of Long Grove, Ill. have inspected the Replacement described in this Report on 1-29-86, 1985
 (Repair(s) or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-86 [Signature] Commissions NC-1139
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in Items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE N-308

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit #1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Data: March 17, 1977
- (6) National Board No.: N/A
- (7) Component: Reactor Instrumentation Penetration Valve

FORM NIS-2 OWNERS'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date _____
PO Box 1551, Raleigh, NC 27602 Sheet 2 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit
Site BSEP Plant Modification 82-287 FF
Address _____ Repair Organization P.O. No, Job No. etc.

Identification of System

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. | CRN No. | Other Identification | Year Built | Repaired, | ASME Code |
|-------------------|--------------------|----------------|------------|---------|----------------------|------------|--------------------------------|------------------------|
| | | | | | | | Replaced, or Replacement | Stamped (Yes or No) |
| Piping 1-B32 | Guyon | N/A | N/A | N/A | 470755 | 1985 | Replacement | No |
| Piping 1-B32 | Vogt | N/A | N/A | N/A | R4587B | 1984 | Replacement | No |
| Piping 1-B32 | Valcor | N/A | N/A | N/A | 468555 | 1984 | Replacement | No |
| Piping 1-B32 | Guyon | N/A | N/A | N/A | 469546 | 1985 | Replacement | No |
| Tee 1-B32 | Alloy Stainless | N/A | N/A | N/A | AS | 1984 | Replacement | No |
| 1-CAC-SV-1215E | Valcor | N/A | N/A | N/A | 1-207170001 | 1984 | Replacement | No |
| 1-CAC-SV-1215E | Atlas | N/A | N/A | N/A | N/A | N/A | Replaced | No |
| 1-B32-V74 | Vogt | 125- | N/A | N/A | 215071 | 1985 | Replacement | No |
| 1-B32-V75 | Vogt | 104- | N/A | N/A | 215071 | 1985 | Replacement | No |
| 1-B32-V77 | Vogt | 69- | N/A | N/A | 215071 | 1985 | Replacement | No |
| 1-B32-V78 | Vogt | 106- | N/A | N/A | 215071 | 1985 | Replacement | No |

PTI-6

- 1.) Carolina Power and Light Co., PO Box 1551 Raleigh, NC 27602
- 2.) Brunswick Steam Electric Plant, PO Box 10429 Southport, NC 28461
- 3.) Unit #1
- 4.) Owner Certificate of authorization: N/A
- 5.) Commercial date: 3/17/77
- 6.) National Board: N/A
- 7.) Component: 1-ESI-U88, RCIC Injection check-valve

CASE
N-308

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power and Light Co. Date 4/6/85
(Name)
PO Box 1551 Raleigh, NC 27602 Sheet 1 of 1
(Address)

2. Plant Brunswick Steam Electric Plant Unit 1
(Name)
PO Box 10429 Southport, NC 28461
(Address)

3. Work Performed by CPEL Maint. + Const. Dept BSEP Plant Mod 83-223
(Name) Repair Organization P.O. No., Job No., etc.
PO Box 10429 Southport, NC
(Address)

4. Identification of System Reactor Core Isolation cooling

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements -- 1977, S 7B Addenda, Code Cases N/A

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|------------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Check Valve | Atwood & Morrill | N/A | N/A | N/A | N/A | 85 | Replaced | No |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Installed check valve in RCIC injection line

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1125 psi Test Temp 78 °F

9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code. ENRUSLL ISI 8/5/85 (repair or replacement)

Signed: William H. Holliman Engineer 8/4/85, 19 85
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermen's Mutual Casualty Company of Long Grove, IL have inspected the Replacement described in this Report on 8-5-, 19 85 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Date 8-5-85 [Signature] Commissions NC 1007
(State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

**CASE
N-308**

- (1) Carolina Power & Light Company, P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit 1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: 3/17/77
- (6) National Board No.: N/A
- (7) Component: Non-Interruptible Instrument Air System Piping

**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI**

1. Owner Carolina Power and Light Date 10/11/85
P.O. Box 1551 Raleigh, NC 27602 Sheet 1 of 5

2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429 Southport, NC 28461

3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 84-195
P.O. Box 10429 Southport, NC Repair Organization P.O. No., Job No., etc.

4. Identification of System Nitrogen Backup System (RNA)

5. (a) Applicable Construction Code ANSI B31.1, 1967 Edition, 1980 Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, 578 Addenda, Code Cases N/A

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification PO # | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|---------------------------|------------|------------------------------------|-------------------------------|
| 1-RNA-V309 | Rockwell | N/A | N/A | N/A | B25308 | 1985 | Replacement | No |
| 1-RNA-V311 | Rockwell | N/A | N/A | N/A | B25308 | 1985 | Replacement | No |
| 1-RNA-V313 | Rockwell | N/A | N/A | N/A | B25302 | 1985 | Replacement | No |
| 1-RNA-V315 | Rockwell | N/A | N/A | N/A | B25302 | 1985 | Replacement | No |
| RED TEE | Guyon Alloys | N/A | N/A | N/A | B12228 | N/A | Replacement | No |

7. Description of Work Installation of small bore piping and valves

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other

9. Remarks *Piping 3/4 inch and under 116 psig 85°F
*Piping over 1 inch 137.5 psig 85°F
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.

Signed R.T. Montague (Owner or Owner's Designer) 10/11/85 (Date) ENGINEER (Title) 10-16 (Date) 1985

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Casualty Company of Long Grove, Ill have inspected the Replacements described in this Report on 10/11/85, 1985 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10/11/85 (Inspector) R.T. Montague Commissions NC-1159 (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE
N-308

- (1) Carolina Power & Light Company, P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit 1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: 3/17/77
- (6) National Board No.: N/A
- (7) Component: Non-Interruptible Instrument Air System Piping

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power and Light Date 10/11/85
P.O. Box 1551 Raleigh, NC 27602 Sheet 2 of 5
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 84-195
P.O. Box 10429 Southport, NC Repair Organization P.O. No., Job No., etc.
4. Identification of System Nitrogen Backup System (RNA)
5. (a) Applicable Construction Code ANSI B31.1 Edition, 1980 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N/A
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification PO# | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|--------------------|----------------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| Pipe | Capitol Pipe & Steel | N/A | N/A | N/A | B27684 | N/A | Replacement | No |
| Cryogenic Coupling | Raychem | N/A | N/A | N/A | B27685 | N/A | Replacement | No |
| Red Tee | Capitol Pipe & Steel | N/A | N/A | N/A | B27684 | N/A | Replacement | No |
| Tee | Piedmont Materials | N/A | N/A | N/A | B9381 | N/A | Replacement | No |
| Red Insert | Piedmont Materials | N/A | N/A | N/A | B9381 | N/A | Replacement | No |
| 90° Elbow | Capitol Pipe & Steel | N/A | N/A | N/A | B27684 | N/A | Replacement | No |

7. Description of Work Installation of small bore piping and valves
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
9. Remarks *Piping 3/4 inch and under 110 psig 85°F
*Piping over 1 inch 137.5 psig 85°F

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.
Signed P.T. Montague Engineer 10-16, 1985
(Owner or Owner's Designer) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Casualty Company of Long Grove, Ill have inspected the Replacements described in this Report on 1/29, 1986 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date 1/29/86 [Signature] Commissions NC-1189
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

**CASE
N-308**

- (1) Carolina Power & Light Company, P.O. Box 1... Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit 1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: 3/17/77
- (6) National Board No.: N/A
- (7) Component: Non-Interruptible Instrument Air System Piping

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power and Light Date 10/11/85
P.O. Box 1551 Raleigh, NC 27602 Sheet 3 of 5
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 84-195
P.O. Box 10429, Southport, NC Repair Organization P.O. No., Job No., etc.
4. Identification of System Nitrogen Backup System (RNA)
5. (a) Applicable Construction Code ANSI B31.1 Edition, 1980 Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N/A
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification PO# | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| Pipe | Guyon Alloys | N/A | N/A | N/A | B28967 | N/A | Replacement | No |
| 1-RNA-V310 | Rockwell | N/A | N/A | N/A | B25308 | 1985 | Replacement | No |
| 1-RNA-V312 | Rockwell | N/A | N/A | N/A | B25308 | 1985 | Replacement | No |
| 1-RNA-V314 | Rockwell | N/A | N/A | N/A | B25302 | 1985 | Replacement | No |
| 1-RNA-V316 | Rockwell | N/A | N/A | N/A | B25302 | 1985 | Replacement | No |
| 90° Elbow | Hub Inc. | N/A | N/A | N/A | E18646 | N/A | Replacement | No |

7. Description of Work Installation of small bore piping and valves
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 116 psi Test Temp 85 °F
9. Remarks *Piping 3/4 inch and under 116 psig 85°F
*Piping over 1 inch 137.5 psig 85°F

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.

Signed R.T. Manton Engineer Date 10-16, 1985

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Casualty Company of Long Grove, Ill have inspected the Replacements described in this Report on 1-29, 1985 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-29-85 [Signature] Commissions NC-3911

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

**CASE
N-308**

- (1) Carolina Power & Light Company, P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit 1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: 3/17/77
- (6) National Board No.: N/A
- (7) Component: Non-Interruptible Instrument Air System Piping

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power and Light Date 10/11/85
P.O. Box 1551 Raleigh, NC 27602 Sheet 4 of 5

2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461

3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 84-195
P.O. Box 10429 Southport, NC Repair Organization P.O. No., Job No., etc.

4. Identification of System Nitrogen Backup System (RNA)

5. (a) Applicable Construction Code ANSI B31.1-67 Edition, 1980 Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N/A

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Net'l. Bd. No. | CRN No. | Other Identification PO # | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|----------------------|----------------|----------------|---------|---------------------------|------------|------------------------------------|-------------------------------|
| 1-RNA-V255 | Vogt | N/A | N/A | N/A | 775960 | N/A | Replacement | No |
| 1-RNA-V257 | Vogt | N/A | N/A | N/A | 775960 | N/A | Replacement | No |
| 1-RNA-SV-5262 | Valcor | N/A | N/A | N/A | B22401 | 1985 | Replacement | No |
| Coupling | Capitol Pipe & Steel | N/A | N/A | N/A | 27684 | N/A | Replacement | No |
| 1-RNA-SV-5261 | Valcor | N/A | N/A | N/A | B22401 | 1985 | Replacement | No |

7. Description of Work Installation of small bore piping and valves

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 116 psi Test Temp. 85 °F

9. Remarks *Piping 3/4 inch and under 116 psig 85°F
*Piping over 1 inch 137.5 psig 85°F

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.

Signed E.A. Nuzzillo 10/11/85
 (Name of Owner's Representative) Title Date

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Casualty Company of Long Grove, Ill have inspected the Replacements described in this Report on 1/24, 1986

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1/24/86 [Signature] Commissions NC-1159
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE
N-308

- (1) Carolina Power & Light Company, P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit 1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: 3/17/77
- (6) National Board No.: N/A
- (7) Component: Non-Interruptible Instrument Air System Piping

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power and Light Date 10/11/85
P.O. Box 1551 Raleigh, NC 27602 Sheet 5 of 5
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 84-195
P.O. Box 10429 Southport, NC Repair Organization P.O. No., Job No., etc.
4. Identification of System Nitrogen Backup System (RNA)
5. (a) Applicable Construction Code ANSI B31.1g 67 Edition 1980 Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N/A
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification PQ# | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|--------------------------|------------|------------------------------------|-------------------------------|
| 1-RNA-V256 | Vogt | N/A | N/A | N/A | 775960 | N/A | Replacement | No |
| 1-RNA-V258 | Vogt | N/A | N/A | N/A | 775960 | N/A | Replacement | No |
| 1-1A-SV-5251 | Valcor | N/A | N/A | N/A | B22401 | 1985 | Replacement | No |
| 1-1A-Sv-5253 | Valcor | N/A | N/A | N/A | B22401 | 1985 | Replacement | No |
| | | | | | | | | |

7. Description of Work Installation of small bore piping and valves
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure psi Test Temp. °F
9. Remarks *Piping 3/4 inch and under 116 psig 85°F
*Piping over 1 inch 137.5 psig 85°F

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.
Signed R.T. Mault Engineer 10-15 19 85
Owner or Owner's Designee Date

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Casualty Company of Long Grove, Ill have inspected the Replacements described in this Report on 1-29-86, 1986 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date 1-29-86 H. J. ... Commissions NC 5911
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE
N-308

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, Southport, NC 28461
- (3) Unit 1
- (4) Owner Certification of Authorization: N/A
- (5) Commercial Date: 3/17/77
- (6) National Board: N/A
- (7) Component: Service Water System and SW side of RHR Hx 1A

Plant Mod. No. _____
Field Rev. No. _____
Page No. B

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

- 1. Owner Carolina Power & Light Date 8-22-85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 3
(Name) (Address)
- 2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
(Name) (Address)
- 3. Work Performed by CP&L Construction BSEP Plant Modification 84-299
P.O. Box 10429, Southport, NC
(Name) (Address) Repair Organization P.O. No., Job No., etc.
- 4. Identification of System Service Water System, ASME Class 3
- 5. (a) Applicable Construction Code ANSIB31.1 19 67 Edition, N/A Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S-78 Addenda, Code Cases N/A
- 6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-----------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| SEE ADDITIONAL SHEETS | | | | | | | | |

- 7. Description of Work See attached sheet 2 of 3
- 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure * _____ psi Test Temp. _____ °F Ambient
- 9. Remarks *Hydro testing was performed at 165 psi for components with a design pressure of 150 psi, and 440 psi for components with a design pressure of 400 psi.
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair/replacement conforms to Section XI of the ASME Code.
Signed E. M. Colby 10/18/85 Senior Engineer 9/3, 1985
(Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbersmens Mutual Casualty Company of Long Grove, IL have inspected the repairs/replacements described in this Report on 1/24/86, 1986 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date 1/24/86 [Signature] Commissions NC-2911
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

- (1) Carolina Power & Light Co., P. O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, Southport, NC 28461
- (3) Unit 1
- (4) Owner Certification of Authorization: N/A
- (5) Commercial Date: 3/17/77
- (6) National Board: N/A
- (7) Component: Service Water System and SW side of RHR Hx 1A

The SW piping system, comprised of the following ASME Class 3 subsystems, was inspected in accordance with PM-84-299:

- a) SW conventional header
- b) SW nuclear header
- c) RHR SW "A" and "B" Loops
- d) SW side of RHR Hx's "1A" and "1B".

Based on inspection findings, various components (ie; piping, fittings, flanges, Hx's, etc.) were repaired or replaced. Refer to PM-84299 for detailed description of such repairs and replacements. In addition, a new vent connection including valves 1-SW-V373 and V-375, was installed on the RHR SW A-Loop suction header.

1. Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
3. Unit No.: 1
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 3/17/77
6. National Board No.: N/A
7. Component: Service Water System and SW side of RHR Hx 1A

Date 8/22/85
 Sheet 3 of 3
 BSEP Plant Mod 84-299

| Name of Component | Name of Mfg. | Mfg. Serial No. | Nat'l Bd No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code stamped (yes or no) |
|---|--------------|-----------------|--------------|---------|--|------------|------------------------------------|-------------------------------|
| Service Water Piping | N/A | N/A | N/A | N/A | Components in subsystems listed on sheet 2 of 3 | N/A | Repaired and Replacement | No |
| Service Water Piping Supports | N/A | N/A | N/A | N/A | 1-SW102PG137 1-SW105PG135 | N/A | Replacement (partial) | No |
| New Vent Connection on RHR SW A-Loop Suction Header | N/A | N/A | N/A | N/A | Added valves 1-SW-373 and -375, and associated fittings tubing | 1985 | Replacement | No |
| RHR Hx 1A | Perfex | unknown | NB 4441 | N/A | SW Side.Weld No. 1-SW-BMWR-27 | unknown | Repair | Yes |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

S-21-6

**CASE
N-308**

1. Carolina Power & Light Company, P.O. Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
3. Unit No. 1
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board No.: N/A
7. Component: Mark I Torus Program

26702
 P. No. 84-300
 Rev. No. 0
 Page No. B17

**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
 As Required by the Provisions of ASME Code Section XI**

1. Owner Carolina Power & Light Company Date 9/21/84
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2

2. Plant Brunswick Steam Electric Plant Unit One (1)
P.O. Box 10429, Southport, NC 28461

3. Work Performed by Brunswick Construction Unit TAR 80-071, PM 84-300
Site Repair Organization P.O. No. Job No. etc.

4. Identification of System Mark I Torus Program

5. (a) Applicable Construction Code (Attached) Edition _____ Addenda, Code Cases _____
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977 Summer Addenda, Code Cases _____

6. Identification of Components Repaired or Replaced, and Replacement Components 1978

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|---------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Recirc. Inst. Lines | N/A | N/A | N/A | N/A | N/A | N/A | Replacement | No |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Mark I Torus Modifications Phase 3

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure _____ psi Test Temp. _____ °F

9. Remarks All lines exempted from testing by size (1" and smaller), these lines are being rerouted in conjunction with catwalk relocation in the suppression pool.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.

Signed Ken B. Kamp EA NAWSCA Responsible Eng. 8/25/85 826-85 Date 19 85
Owner or Owner's Designee Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Company of Long Grove, IL have inspected the replacement described in this Report on 10-16-85, 19 85

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10-16-85 Inspector [Signature] Commissions NP 1007
State or Province, National Board

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided: (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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1. Carolina Power & Light Company, P.O. Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
3. Unit No. 1
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/03/75
6. National Board No.: N/A
7. Component: Mark I Torus Program

5a. Applicable Construction Code:

The latest editions thereof and any addenda thereto as of October 1, 1968 of the following codes, as applicable:

ANSI B31.1
ASME Section III and IX

In addition, all requirements or exclusions of UE&C Specification 9527-01-248-3 apply for hard piping. Flex hose Specification 9527-001-248-99.

- (1) CAROLINA POWER & LIGHT COMPANY, P.O. BOX 1551, RALEIGH, NC 27602
- (2) BRUNSWICK STEAM ELECTRIC PLANT, P.O. BOX 10429, SOUTHPORT, NC 28461
- (3) UNIT 1
- (4) OWNER CERTIFICATE OF AUTHORIZATION: N/A
- (5) COMMERCIAL DATE: 3-17-77
- (6) NATIONAL BOARD No.: N/A
- (7) COMPONENT: REACTOR RECIRCULATION & REACTOR WATER CLEAN-UP SYSTEM

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner CARDINA POWER AND LIGHT COMPANY Date 12-5-84
(Name)
P.O. BOX 1551, RALEIGH, NC 27602
(Address)

2. Plant BRUNSWICK STEAM ELECTRIC PLANT Unit 1
(Name)
P.O. BOX 10429, SOUTHPORT, NC 28461
(Address)

3. Work Performed by BRUNSWICK CONSTRUCTION UNIT BESU PLANT MOD 84-315
(Name) Repair Organization P.O. No. Job No. etc.
P.O. BOX 10429, SOUTHPORT, NC 28461
(Address)

4. Identification of System REACTOR RECIRCULATION & RWCU PIPING ASME CODE CLASS 1

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S'7B Addenda, Code Cases N-308

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| RECIRC. PIPING | OEM | N/A | N/A | N/A | N/A | N/A | REPAIRED | No |
| RWCU PIPING | OEM | N/A | N/A | N/A | N/A | N/A | REPAIRED | No |
| RWCU PIPING | OEM | N/A | N/A | N/A | N/A | N/A | REPLACEMENT | No |
| RWCU PIPING | GUYON ALLOYS | N/A | N/A | N/A | N/A | N/A | REPLACED | No |

7. Description of Work (SEE ATTACHED)

8. Tests Conducted Hydrostatic Pneumatic Nominal Operating Pressure Other (SEE ATTACHED)
 Pressure _____ psi Test Temp _____ °F

9. Remarks Exception taken to Section XI requirements with regulatory (NRC) concurrence: defects were not removed, but were overlaid.
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this REPAIR/REPLACEMENT conforms to Section XI of the ASME Code.
(repair or replacement)

Signed: Arthur G. Wadsworth ASSOC. ENGINEER DEC 5 19 84
(Owner's Designee) (Date)

John [Signature] ISI Specialist 12/12/84
(Inspector)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermen's Mutual Casualty Company of Long Grove, IL have inspected the Repairs & Replacements described in this Report on 8-8- 19 85
(Repairs or Replacements)

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 8-5-85 John [Signature] Commissions NC 1007
(Inspector) (State or Province National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

- (1) CAROLINA POWER & LIGHT COMPANY, P.O. BOX 1551, RALEIGH, NC 27602
- (2) BRUNSWICK STEAM ELECTRIC PLANT, P.O. BOX 10429, SOUTHPORT, NC 28461
- (3) UNIT 1
- (4) OWNER CERTIFICATE OF AUTHORIZATION: N/A
- (5) COMMERCIAL DATE: 3-17-77
- (6) NATIONAL BOARD No.: N/A
- (7) COMPONENT: REACTOR RECIRCULATION & REACTOR WATER CLEAN-UP SYSTEM

DATE: 12-5-84
SHEET 2 OF 2

SUPPLEMENTAL SHEET

(ITEMS 7. & 8. FROM SHEET 1 OF 2)

A. REACTOR RECIRCULATION SYSTEM

DESCRIPTION OF WORK:

WELD OVERLAYS PERFORMED ON WELDS: 1-RR-12ARA4-A,
1-RR-12ARB4-A, 1-RR-12BRF4-A, 1-RR-12ARB2-A, 1-RR-4A10-A.

TESTS CONDUCTED:

INSERVICE LEAK TEST *

*INSERVICE LEAK TEST PERFORMED IN LIEU OF HYDROSTATIC TEST
PER CP&L LETTER SER: NLS-84-504.

PRESSURE 1005 psi TEST TEMP 510 °F

B. REACTOR WATER CLEAN-UP SYSTEM

DESCRIPTION OF WORK:

-WELD OVERLAYS PERFORMED ON WELDS: 6-RWCU-4A, 6-RWCU-6A
6-RWCU-7A, 6-RWCU-8A, 6-RWCU-10A.

-WELD INLAY PERFORMED ON WELD: 1X-14-C-A.

-PIPING WAS REPLACED BETWEEN OUTBOARD VALVE 1-G31-F004 AND
PENETRATION X-14, AND BETWEEN INBOARD VALVE 1-G31-F001 AND
PENETRATION X-14 RESULTING IN NEW WELDS: RWCU-C7-A,
RWCU-C8-A, 1-RWCU-939, 1-RWCU-940-B, 1-RWCU-941,
1-RWCU-942-A, RWCU-C100-A, 1-G31-5A, 1-G31-6A.

TESTS CONDUCTED:

HYDROSTATIC

PRESSURE 1265 psi TEST TEMP 110 °F

- (1) Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit 1
- (4) Owner Certification of Authorization: N/A
- (5) Commercial Date: 3-17-77
- (6) National Board: N/A
- (7) Component: Service Water Pipe Supports

CASE
N-308

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Company Date 8-8-84
PO Box 1551, Raleigh, NC 27602 Sheet 1 of 1
2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
3. Work Performed by CP&L Maint. & Const. Dept. BSEP Plant Mod: 84-341
PO Box 10429, Southport, NC 28461
4. Identification of System Service Water
5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, N/A Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S-78 Addenda, Code Cases N/A
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| SW Pipe Supports | NA | NA | NA | NA | NA | 1984 | Replacement | NA |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Installed pipe supports on Service Water System to seismically qualify
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other piping.
Pressure _____ psi Test Temp. _____ °F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.

Signed John Adams PROJECT ENG AUGUST 8, 1984
ISI Specialist OCTOBER 3 84

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Company of Long Grove, IL have inspected the replacement described in this Report on 3-18-85, 1985

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 3-18-85 John Adams Commissions NC 1007
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

1. Owner: Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
2. Plant: Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
3. Unit No.: 1
4. Owner Certificate of Authorization: N/A
5. Commercial Date: March 17, 1977
6. National Board No.: N/A
7. Component: CRD-SDV Vent Piping

**CASE
N-308**

**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI**

1. Owner Carolina Power & Light Co. Date 1/25/85
PO Box 1551, Raleigh, NC 27602 Sheet 1 of 1
(Name) (Address)
2. Plant Brunswick Steam Electric Plant Unit One
PO Box 10429, Southport, NC 28461 PM 84-360
(Name) (Address)
3. Work Performed by Carolina Power & Light Co. Brunswick Construction Unit
PO Box 10429, Southport, NC 28461 Repair Organization P.O. No., Job No., etc.
(Name) (Address)
4. Identification of System Control Rod Drive
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N/A
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| SDV Piping | N/A | N/A | N/A | N/A | N/A | N/A | Repaired | No |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work CRD-SDV Piping Reroute
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1450 psi Test Temp. Amb °F
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code ASME Code 10/85
(repair or replacement)

Signed EM Sanchez Eng. Tech. Title 8/30, 1985
(Owner or Owner's Designer) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Co. of Long Grove, IL have inspected the repair described in this Report on Sept. 16, 1985
(Repairs or Replacement(s))

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1/21/86 Sanchez Commissions NC-1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE
N-308

1. Carolina Power & Light, P.O. Box 1551, Raleigh, N.C. 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429, Southport, N.C. 28461
3. Unit No. 1
4. Owner Certificate of Authorization: NA
5. Commercial Date: March 17, 1977
6. National Board No.: NA
7. Component: Repair of Valves 1-CAC-V5, 1-CAC-V6

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Co. Date Sept. 16, 1985
P.O. Box 1551, Raleigh, N.C. 27602
(Name) (Address) Sheet 1 of 1
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, N.C. 28461
(Name) (Address)
3. Work Performed by A & M Co. BSEP Plant Modification 84-361
P.O. Box 3147, Wilmington, N.C. 28408
(Name) (Address) (Repair Organization P.O. No., Job No., etc.)
4. Identification of System Containment Atmospheric Control, ASME Class II
5. (a) Applicable Construction Code ANSI B31.1-67 Edition, NA Addenda, Code Cases NA
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, s-78 Addenda, Code Cases NA
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-CAC-V5 | Posiseal | 20200CS | NA | NA | NA | 1973 | Repaired | NO |
| 1-CAC-V6 | Posiseal | 18123CS | NA | NA | NA | 1973 | Repaired | No |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Repair of Above Valves
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Local Leak Rate Test
 Pressure 49 psi Test Temp. NA °F
9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code. (repair or replacement)
 Signed *[Signature]* Eng. Tech. Sept. 16, 19 85
(Owner or Owner's Designee) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolian, employed by Lubermens Mutual Casualty Company of Long Grove, IL have inspected the repair described in this Report on Sept. 16, 19 85
(Repair(s) or Replacement(s))
 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 1/29/86 *[Signature]* Commissions NC-1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

**CASE
N-308**

1. CP&L Co., P.O.Box 1551, Raleigh, N.C. 27602
2. Brunswick steam Electric Plant, P.O.Box 10429, Southport, N.C. 28461
3. Unit No. 1
4. Owner Certificate Of Authorization: N/A
5. Commercial Date: March 17, 1977
6. National Board No.: N/A
7. Component: Replacement of valves 1-CAC-V7, 1-CAC-V8, 1-CAC-V16, 1-CAC-V17, Piping Line 1-CAC-16-2-152

**FORM MIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI**

1. Owner Carolina Power & Light Co. Date Sept. 14, 1985
(Name)
P.O. Box 1551, Raleigh, N.C. 27602 Sheet 1 of 2
(Address)
2. Plant Brunswick Steam Electric Plant Unit 1
(Name)
P.O. Box 10429, Southport, N.C. 28461
(Address)
3. Work Performed by A & M Co. BSEP Plant Modification No. 84-361
(Name) Repair Organization P.O. No., Job No., etc.
P.O. Box 3147, Wilmington, N.C. 28406
(Address)
4. Identification of System Containment Atmospheric Control, ASME Class II
5. (a) Applicable Construction Code ANST B31.19.67 Edition, N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S-78 Addenda, Code Cases N/A
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-CAC-V7 | Posiseal | 20198CS | NA | NA | NA | 1973 | Replaced | No |
| 1-CAC-V8 | Posiseal | 20192CS | NA | NA | NA | 1973 | Replaced | No |
| 1-CAC-V16 | Posiseal | 20202CS | NA | NA | NA | 1973 | Replaced | No |
| 1-CAC-V17 | Posiseal | 20204CS | NA | NA | NA | 1973 | Replaced | No |
| 1-CAC-V7 | Posiseal | 31490-1E | NA | NA | NA | 1983 | Replacement | No |
| 1-CAC-V8 | Posiseal | 31490-2E | NA | NA | NA | 1983 | Replacement | No |

7. Description of Work Replacement of Above Valves
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other Local Leak Rate Test
 Pressure 49 psi Test Temp. NA °F
9. Remarks NA
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code. EAH/2CG 9/14/85
(repair or replacement)

Signed Ed Harrison Eng. Tech. Sept. 14, 1985
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Company of Long Grove, IL have inspected the replacement described in this Report on Sept. 16, 1985
(Repairs) or Replacement(s)

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1/29/86 Ed Harrison Commissions NC-1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in Items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

1. Carolina Power & Light Co., P.O. Box 1551, Raleigh, N.C. 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429, Southport, N.C. 28461
3. Unit No. 1
4. Owner Certificate of Authorization: NA
5. Commercial Date: March 17, 1977
6. National Board No.: NA
7. Component: Replacement of valves 1-CAC-V7, 1-CAC-V8, 1-CAC-V16, 1-CAC-V17,
Piping Line 1-CAC-16-2-152

Date Sept. 14, 1985
Sheet 2 of 2 BSEP Plant Mod. 84-361

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (yes or no) |
|-------------------|--------------|----------------|---------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-CAC-V16 | Posiseal | 72458-1 | NA | NA | NA | 1983 | Replacement | No |
| 1-CAC-V17 | Posiseal | 72458-3 | NA | NA | NA | 1983 | Replacement | No |
| 2 inch Coupling | Guyon Alloys | NA | NA | NA | NA | NA | Replacement | No |

CASE
N-308

1. CP&L Co., P.O. Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
3. Unit No. 1
4. Owner Certificate of Authorization: N/A
5. Commercial Date: March 17, 1977
6. National Board No.: N/A
7. Component: Repair of CRD Nozzle N9

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolian Power & Light Co. Date September 16, 1985
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
(Name)
(Address)

2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
(Name)
(Address)

3. Work Performed by Brunswick Construction Unit PM 84-362
P.O. Box 10429, Southport, NC 28461 Repair Organization P.O. No., Job No., etc.
(Name)
(Address)

4. Identification of System Control Rod Drive, ASME Class 1

5. (a) Applicable Construction Code ANSI B31.1-67 Edition, N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, 'S78 Addenda, Code Cases N/A

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|---------------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| CRD RL Nozzle N9 | CBI | N/A | N/A | N/A | N/A | N/A | Repair | No |
| Nozzle Cap | GE | NX9915 [#] | N/A | N/A | N/A | N/A | Repair | No |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work CRD Return Line Nozzle Cap

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1095 psi Test Temp. 200 °F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Repair conforms to Section XI of the ASME Code.

Signed [Signature] Eng. Tech September 16, 19 85
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Company of Long Grove, IL have inspected the repair described in this Report on September 16, 19 85 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10-16-85 [Signature] Commissions NC 1007
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

1. Carolina Power & Light, Co., PO Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28409
3. Unit 1
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 3/17/77
6. National Board No.: N/A
7. Component: RHR system

CASE
N-308

Plant Mod. No. 84-367
Field Rev. No. 0
Page No. B23

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power and Light Company Date 9/10/85
Raleigh NC (Name) Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429 Southport NC 28409 (Address)

3. Work Performed by A+M Company PM 84-367 WA XM30020093
Wilmington NC (Name) (Address) Repair Organization P.O. No., Job No., etc.

4. Identification of System 1-ELL Residual Heat Removal System (Address)

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, — Addenda, Code Cases —
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S7B Addenda, Code Cases —

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 4" PIPE | Guyon Alloys | N/A | N/A | N/A | PO# S05294 | N/A | Replacement | No |
| 4"x2" socket | Guyon Alloys | N/A | N/A | N/A | PO# S05294 | N/A | Replacement | No |
| 4" RFWN Flange | Guyon Alloys | N/A | N/A | N/A | PO# S05294 | N/A | Replacement | No |
| 4" Blind Flange | Guyon Alloys | N/A | N/A | N/A | PO# S05294 | N/A | Replacement | No |
| 2" RPSW Flange | Guyon Alloys | N/A | N/A | N/A | PO# S05294 | N/A | Replacement | No |
| 2" RPSW Flange | Guyon Alloys | N/A | N/A | N/A | PO# S05294 | N/A | Replacement | No |

7. Description of Work Modify test correction per PM 84-367

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure 475 psi Test Temp 80 °F

9. Remarks None
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this replacement conforms to Section XI of the ASME Code.
(repair or replacement)

Signed Chris Patterson Engineer 9/10 19 85
(Owner or Owner's Designer) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Co. of Long Grove, IL have inspected the replacement described in this Report on 10/16/85.
(Repairs or Replacements)

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1/29/86 [Signature] Commissions NS-1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE
N-308

- (1) Carolina Power & Light Company, PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit 1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: 3/17/77
- (6) National Board No.: N/A
- (7) Component: Reactor Water Cleanup System Piping

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Company Date 8/23/85
PO Box 1551, Raleigh, NC 27602 Sheet 1 of 4

2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461

3. Work Performed by Brunswick Construction Unit BSEP Plant Mod #84-378
PO Box 10429, Southport, NC 28461 Repair Organization P.O. No., Job No., etc.

4. Identification of System Reactor Water Cleanup Process Piping, ASME Code, Class 1

5. (a) Applicable Construction Code ANSIB31.1-967 Edition, N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 19 77, 578 Addenda, Code Cases N-308

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|---------------------------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| RWCU Piping | Kellogg | N/A | N/A | N/A | EP-9527-50624 | N/A | Replaced | No |
| RWCU Piping | Guyon Alloys | N/A | N/A | N/A | PO# 787477 | N/A | Replaced | No |
| RWCU Piping | Guyon Alloys | N/A | N/A | N/A | PO# 787477 | N/A | Replacement | No |
| X-14 flued hd. Penetration tube turns | | N/A | N/A | N/A | 9527-01-248-4 | N/A | Repaired | No |

7. Description of Work See Attached

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other (See Attached)
 Pressure _____ psi Test Temp. _____ °F

9. Remarks N/A
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Repair/Replacement conforms to Section XI of the ASME Code.

Signed Arthur J. Washburn ENGINEER Title 10/4/85 (Date) 19 85
 (Owner or Owner's Designee) (repair or replacement) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Company of Long Grove, IL have inspected the Repair/Replacement described in this Report on 1/23, 1986

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1/29/86 (Inspector) [Signature] Commissions NC-1139 (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

- (1) Carolina Power & Light Company, P.O. Box 1551, Raleigh, NC 27602
 - (2) Brunswick Steam Electric Plant P.O. Box 10429, Southport, NC 28461
 - (3) Unit 1
 - (4) Owner Certificate of Authorization: N/A
 - (5) Commercial Date: 3/17/77
 - (6) National Board No.: N/A
 - (7) Component: Reactor Water Cleanup System Piping
-

1. Owner: Carolina Power & Light Company
PO Box 1551, Raleigh, NC 27602
Date: 8/23/85
Sheet: 2 of 4
 2. Plant: Brunswick Steam Electric Plant
PO Box 10429, Southport, NC 28461
Unit: 1
 3. Work Performed by: Brunswick Construction Unit BSEP Plant Mod #84-378
PO Box 10429, Southport, NC 28461
 4. Identification of System: Reactor Water Cleanup Process Piping, ASME
Code, Class 1
-

SUPPLEMENTAL SHEET

(Items 7 and 8 from Sheet 1 of 3)

A. REACTOR WATER CLEANUP SYSTEM PIPING

7. Description of Work:

New and revised pipe-to-pipe and pipe-to-pipe subassembly welds _____

| <u>Weld No.</u> | <u>Piping Isometric</u> |
|-----------------|-------------------------|
| 1-RWCU-938 | FS-DW-25077, Sh. 1 |
| 1-RWCU-953 | FS-DW-25077, Sh. 1 |
| 1-RWCU-954 | FS-DW-25077, Sh. 1 |
| 1-RWCU-955 | FS-DW-25077, Sh. 1 |
| 1-RWCU-956 | FS-DW-25077, Sh. 1 |
| 1-RWCU-957 | FS-DW-25077, Sh. 1 |
| 1-RWCU-958 | FS-DW-25077, Sh. 1 |
| 1-RWCU-959 | FS-DW-25077, Sh. 1 |
| 1-RWCU-960 | FS-DW-25077, Sh. 1 |
| 1-RWCU-C1A | FS-DW-25077, Sh. 7 |
| 1-RWCU-C2A | FS-DW-25077, Sh. 7 |
| 1-RWCU-C3-A | FS-DW-25077, Sh. 7 |
| 1-RWCU-931 | FS-DW-25077, Sh. 7 |
| 1-RWCU-932 | FS-DW-25077, Sh. 7 |
| 1-RWCU-933 | FS-DW-25077, Sh. 7 |
| 1-RWCU-934 | FS-DW-25077, Sh. 7 |
| 1-RWCU-935 | FS-DW-25077, Sh. 7 |
| 1-RWCU-936-A | FS-DW-25077, Sh. 7 |
| 1-RWCU-937 | FS-DW-25077, Sh. 7 |

- (1) Carolina Power & Light Company, P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit 1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: 3/17/77
- (6) National Board No.: N/A
- (7) Component: Reactor Water Cleanup System Piping

1. Owner: Carolina Power & Light Company
PO Box 1551, Raleigh, NC 27602
Date: 8/23/85
Sheet: 3 of 4
2. Plant: Brunswick Steam Electric Plant
PO Box 10429, Southport, NC 28461
Unit: 1
3. Work Performed by: Brunswick Construction Unit
PO Box 10429, Southport, NC 28461
BSEP Plant Mod #84-378
4. Identification of System: Reactor Water Cleanup Process Piping, ASME
Code, Class 1

A. (Cont'd)

7. (Cont'd)

| <u>Weld No.</u> | <u>Piping Isometric</u> |
|-----------------|-------------------------|
| 1-RWCU-C101A** | FS-DW-25078, Sh. 1 |
| 1-RWCU-C102A** | FS-DW-25078, Sh. 1 |
| 1-RWCU-C103A** | FS-DW-25078, Sh. 1 |
| 1-RWCU-C104A** | FS-DW-25078, Sh. 1 |
| 1-RWCU-947 | FS-DW-25078, Sh. 1 |
| 1-RWCU-975** | FS-DW-25078, Sh. 1 |
| 1-RWCU-C6-A | FS-DW-25078, Sh. 4 |
| 1-RWCU-C7-B | FS-DW-25078, Sh. 4 |
| 1-RWCU-C8-C | FS-DW-25078, Sh. 4 |
| 1-RWCU-949-A | FS-DW-25078, Sh. 4 |
| 1-RWCU-950 | FS-DW-25078, Sh. 4 |
| 1-RWCU-951 | FS-DW-25078, Sh. 4 |
| 1-RWCU-952 | FS-DW-25078, Sh. 4 |

| <u>Cryogenic Fittings</u> | <u>Piping Isometric</u> |
|---------------------------|-------------------------|
| 1-G31-CF1** | FS-DW-25078, Sh. 2 |
| 1-G31-CF2** | FS-DW-25078, Sh. 2 |

** Exempt from ASME Section XI Hydrostatic Test Boundary.

- (1) Carolina Power & Light Company, P.O. Box 1551, Raleigh, NC 27602
 - (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
 - (3) Unit 1
 - (4) Owner Certificate of Authorization: N/A
 - (5) Commercial Date: 3/17/77
 - (6) National Board No.: N/A
 - (7) Component: Reactor Water Cleanup System Piping
-

1. Owner: Carolina Power & Light Company
PO Box 1551, Raleigh, NC 27602
Date: 8/23/85
Sheet: 4 of 4
 2. Plant: Brunswick Steam Electric Plant
PO Box 10429, Southport, NC 28461
Unit: 1
 3. Work Performed by: Brunswick Construction Unit
PO Box 10429, Southport, NC 28461
BSEP Plant Mod #84-378
 4. Identification of System: Reactor Water Cleanup Process Piping, ASME
Code, Class 1
-

A. (Cont'd)

8. Test Conducted:

Hydrostatic Pressure Test*

*Welds tested during PT-80.1 (Reactor Pressure Vessel Hydrostatic Test)

Pressure 1096 PSIG, Test Temp. 200 °F

B. REACTOR WATER CLEANUP SYSTEM PIPING

7. Description of Work:

New attachment weld from RWCU Process Piping to Penetration X-14 flued head.

Weld No.

Piping Isometric

1-RWCU-945

FSP-1130, Sh. 10

8. Test Conducted:

Integrated Leak Rate Test*

*Weld tested during PT-20.5 (Integrated Leak Rate Test for Primary Containment)

Pressure 49.9 PSIG, Test Temp. 88 °F

**CASE
N-308**

1. Carolina Power and Light Co., P.O. Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
3. BSEP Unit No. 1
4. Owners Certificate of Authorization; N/A
5. Commercial Date: 3/17/77
6. National Board No.: N/A
7. Component - Line No. 1-E41-3-14-901 and 1-E41-60-14-904

**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI**

1. Owner Carolina Power and Light Company Date 1/30/85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
(Name)
(Address)
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
(Name)
(Address)
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 84-381
P.O. Box 10429, Southport, NC 28461 Repair Organization P.O. No., Job No., etc.
(Name)
(Address)
4. Identification of System High Pressure Coolant Injection (HPCI)
5. (a) Applicable Construction Code B31.1 1967 Edition, N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S-78 Addenda, Code Cases N/A
6. Identification of Components Repaired or Replaced, and Replacement Components

| (Line Nos.) | Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification WELD Nos. | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-----------------|-------------------|--------------|----------------|----------------|---------|-----------------------------------|------------|------------------------------------|-------------------------------|
| 1-E41-3-14-901 | | N/A | N/A | N/A | N/A | 1-E41-551 | N/A | Repair | No |
| 1-E41-60-14-904 | | N/A | N/A | N/A | N/A | 1-E41-249 | N/A | Repair | No |
| 1-E41-60-14-904 | | N/A | N/A | N/A | N/A | 1-E41-248 | N/A | Repair | No |
| 1-E41-60-14-904 | | N/A | N/A | N/A | N/A | 1-E41-247 | N/A | Repair | No |

7. Description of Work Relocated existing valve 1-E41-F006.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1103 psi Test Temp 195 °F
9. Remarks Plant Mod 84-381 relocated valve 1-E41-F006 as shown on plant mod drawing
(Applicable Manufacturer's Data Reports to be attached)
ESP-25091, Sht. 9, Rev. E.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code. (repair or replacement)

Signed [Signature] ENGINEER JAN 30, 1986
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Co. of Long Grove, IL have inspected the repair described in this Report on 1-30, 1986 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-30-86 [Signature] Commissions NC-1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

**CASE
N-308**

- (1) Carolina Power & Light Company, PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit No. 1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: 3/17/77
- (6) National Board No.: N/A
- (7) Component: Reactor Coolant Recirculation Piping System

**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI**

1. Owner Carolina Power & Light Company Date 8/27/85
PO Box 1551, Raleigh, NC 27602 Sheet 1 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Mod #84-383
PO Box 10429, Southport, NC 28461 Repair Organization P.O. No., Job No., etc.
4. Identification of System Recirculation Piping System Class 1
5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N/308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-B32-SSA1 | B. Pat. | 2500-20-519 | N/A | N/A | N/A | '85 | Replaced | No |
| 1-B32-SSA2 | B. Pat. | 2500-50-204 | N/A | N/A | N/A | '85 | Replaced | No |
| 1-B32-SSA3 | B. Pat. | 2500-70-96 | N/A | N/A | N/A | '85 | Replaced | No |
| 1-B32-SSA4 | B. Pat. | 2500-30-281 | N/A | N/A | N/A | '85 | Replaced | No |
| 1-B32-SSA5 | B. Pat. | 2500-30-283 | N/A | N/A | N/A | '85 | Replaced | No |
| 1-B32-SSA6 | B. Pat. | 2500-70-89 | N/A | N/A | N/A | '85 | Replaced | No |

7. Description of Work Replaced Grinnell HSSA Units with Bergen-Patterson HSSA Units.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
9. Remarks Snubber lug attachment for snubber 1-B32-SSA11, PS-7488A & PS-7488B tested during PT-80.1 reactor pressure vessel hydrostatic test. Others PT.91.0, PT.19.6.0 & PT-19.6.1.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replaced conforms to Section XI of the ASME Code.

Signed Robert F. Hanson Structural Eng. Title 8-28, 1985 (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Company of Long Grove, IL have inspected the Repair described in this Report on 10-16-85, 1985 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10-16-85 [Signature] Commissions NC 1007 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this date report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

- (1) Carolina Power & Light Company, P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit 1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: 3/17/77
- (6) National Board No.: N/A
- (7) Component: Reactor Water Cleanup System Piping

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|------------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-B32-SSA10 | B. Pat. | 2500-20 -518 | N/A | N/A | N/A | '85 | Replaced | No |
| 1-B32-SSA11 | B. Pat. | 2500-10 -1004 | N/A | N/A | N/A | '85 | Replaced | No |
| 1-B32-SSA12A | B. Pat. | 2500-50 -210 | N/A | N/A | N/A | '85 | Replaced | No |
| 1-B32-SSA12B | B. Pat. | 2500-50 -211 | N/A | N/A | N/A | '85 | Replaced | No |
| PS-7488A | B. Pat. | N/A | N/A | N/A | N/A | '85 | Replaced | No |
| 1-B32-SSB1 | B. Pat. | 2500-20 -520 | N/A | N/A | N/A | '85 | Replaced | No |
| 1-B32-SSB2 | B. Pat. | 2500-70 -97 | N/A | N/A | N/A | '85 | Replaced | No |
| 1-B32-SSB3 | B. Pat. | 2500-70 -98 | N/A | N/A | N/A | '85 | Replaced | No |
| 1-B32-SSB4 | B. Pat. | 2500-50 -206 | N/A | N/A | N/A | '85 | Replaced | No |
| 1-B32-SSB5 | B. Pat. | 2500-50 -205 | N/A | N/A | N/A | '85 | Replaced | No |
| 1-B32-SSB6 | B. Pat. | 2500-70 -47 | N/A | N/A | N/A | '85 | Replaced | No |
| 1-B32-SSB9A | B. Pat. | 2500-20 -516 | N/A | N/A | N/A | '85 | Replaced | No |
| 1-B32-SSB9B | B. Pat. | 2500-50 -258 | N/A | N/A | N/A | '85 | Replaced | No |
| 1-B32-SSB11 | B. Pat. | 2500-20 -521 | N/A | N/A | N/A | '85 | Replaced | No |
| 1-B32-SSB12A | B. Pat. | 2500-50 -212 | N/A | N/A | N/A | '85 | Replaced | No |
| 1-B32-SSB12B | B. Pat. | 2500-70 -109 | N/A | N/A | N/A | '85 | Replaced | No |
| PS-7488B | B. Pat. | N/A | N/A | N/A | N/A | '85 | Replaced | No |

CASE
N-308

- (1) Carolina Power & Light Company, PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit No. 1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: 3/17/77
- (6) National Board No.: N/A
- (7) Component: Reactor Coolant Recirculation Piping System

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Company Date 8/23/85
PO Box 1551, Raleigh, NC 27602 Sheet 1 of 2
2. Plant Brunswick Steam Electric Plant Unit 1
PO Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Mod #85-009
PO Box 10429, Southport, NC 28461 Repair Organization P.C. No., Job No., etc.
4. Identification of System Reactor Coolant Recirculation System Class 1
5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N-308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|--|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| * | N/A | N/A | N/A | N/A | N/A | | Repaired | No |
| *Reactor Coolant Recirculation System (See Attached) | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Repair IGSCC by Weld Overlay (See Attached)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other (See Attached)
 Pressure _____ psi Test Temp. _____ °F
9. Remarks Exception to Section XI taken with NRC concurrence: Defects were not repaired but were weld overlaid.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Repair (See Step 9) conforms to Section XI of the ASME Code. E. Anwer 7/17/85 (repair or replacement)
 Signed Barry Knight ENGINEER 9-12, 19 85
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Company of Long Grove, IL have inspected the Repair described in this Report on 10-16-85
 (Repairs or Replacement(s))
 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Date 10-16-85 (Inspector) John Decker Commissions NC 1007
 (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit No. 1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: 3/17/77
- (6) National Board No.: N/A
- (7) Component: Reactor Coolant Recirculation Piping System

7. DESCRIPTION OF WORK

a. Weld overlays performed on welds:

| | | |
|-------------------|-------------------|-------------------|
| 12ARA2 (1B32-582) | 12ARE3 (1B32-590) | 12BRJ3 (1B32-579) |
| 12ARA3 (1B32-584) | 12BRF2 (1B32-594) | 12BRK2 (1B32-581) |
| 12ARB3 (1B32-585) | 12BRG2 (1B32-595) | 12BRK3 (1B32-591) |
| 12ARC2 (1B32-586) | 12BRG3 (1B32-596) | 12BRK4 (1B32-592) |
| 12ARC3 (1B32-587) | 12BRG4 (1B32-593) | 28A4 (1B32-601) |
| 12ARD2 (1B32-598) | 12BRH2 (1B32-600) | 28B4 (1B32-602) |
| 12ARD3 (1B32-583) | 12BRH3 (1B32-580) | |
| 12ARD4 (1B32-599) | 12BRJ2 (1B32-597) | |

b. Previously overlaid welds that required additional surface preparations:

12ARE2 (1B32-637)*
 12BRH4 (N/A)
 28A14 (1B32-635)*
 28A15 (1B32-636)*
 28B8 (1B32-638)*

* Required additional layer(s) to be added to existing overlay.

8. TESTS CONDUCTED

Hydrostatic Pressure Test

Weld overlays tested during PT-80.1 Reactor Pressure Vessel Hydrostatic Test.

Pressure 1088 PSIG, Test Temp. 200 °F

**CASE
N-308**

1. Carolina Power & Light Co., PO Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
3. Unit 1
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 3-17-77
6. National Board: N/A
7. Component: Containment H₂/O₂ Sample Isolation Valve

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Company Date 9-17-85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
(Name) (Address)
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
(Name) (Address)
3. Work Performed by Brunswick Engr. Support Plant Modification 85-019
P.O. Box 11060, Southport, NC 28461 Repair Organization P.O. No., Job No., etc.
(Name) (Address)
4. Identification of System Containment Hydrogen/Oxygen Monitoring System
(Address)
5. (a) Applicable Construction Code ANSI B31.19-67 Edition, _____ Addenda, Code Cases _____
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases _____
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|------------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-CAC-4410-4 | Target Rock Corp | 80L-001-8 | N/A | N/A | 80L-001 | 1981 | Repaired | No |
| 1 Inch Tee | Teledyne | - | - | - | - | - | New Addition | No |
| 1 Inch Pipe | Sandvik | - | - | - | - | - | New Addition | No |

7. Description of Work Containment H₂/O₂ Sample Iso. Valve Repaired.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure 69 psi Test Temp. AMB °F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Repaired conforms to Section XI of the ASME Code.
Signed *BC Stambaugh* *11-4-85* *Proj. Engr.* (Date) 9-17-1985
(Owner or Owner's Designee) Title

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Company of Long Grove, Ill., have inspected the Repair described in this Report on 9-17-1985 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date 1-29-86 *[Signature]* Commissions NC-1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

**CASE
N-308**

- (1) Carolina Power & Light Company, PO Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- (3) Unit 1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: 3/17/77
- (6) National Board No.: N/A
- (7) Component: Reactor Water Cleanup System Piping

**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI**

1. Owner Carolina Power & Light Company Date 9/5/85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461

3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 85-055
P.O. Box 10429, Southport, NC 28461 Repair Organization P.O. No., Job No., etc.

4. Identification of System HPCI/RHR ASME Code, Class 2

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S-78 Addenda, Code Cases N/A

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| Pipe Cap | Guyon Alloys | N/A | N/A | N/A | PT# 29382 | N/A | Replacement | No |
| 1" Valves | Dragon Valve | N/A | N/A | N/A | PO# 27818 & 29576 | 1985 | Replacement | No |
| 3/4" Valves | Dragon Valve | N/A | N/A | N/A | PO# 27818 & 29576 | 1985 | Replacement | No |
| RHR Piping | Capitol Pipe | N/A | N/A | N/A | PO# 27817 | N/A | Replacement | No |
| HPCI Piping | Capitol Pipe | N/A | N/A | N/A | PO# 27817 | N/A | Replacement | No |

7. Description of Work HPCI steam line to the RHR heat exchangers was cut and capped. A low point drain line and a vent line were also installed.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 1398 psi Test Temp. 75 °F

9. Remarks N/A
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code SA-500.1 1967 repair or replacement.

Signed DWS REC PROJECT ENGINEER 9/5 1985
 (Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Company of Long Grove, IL have inspected the Replacements described in this Report on 10-16-, 1985 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 10-16-85 Inspector [Signature] Commissions NC 1507
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
- (3) Unit 1
- (4) Owner Certification of Authorization: N/A
- (5) Commercial Date: N/A
- (6) National Board: 3/17/77
- (7) Component: Service Water Lube Water Cyclone Separators for Conventional Pump 1B

CASE
N-308

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power and Light Company Date 5-15-85
P. O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1

2. Plant Brunswick Steam Electric Plant Unit 1
P. O. Box 10429, Southport, NC 28461

3. Work Performed by CP&L Maint. & Const. Dept. BSEP Plant Mod. 82-248
P. O. Box 10429, Southport, NC 28461 Repair Organization P.O. No., Job No., etc.

4. Identification of System Service Water

5. (a) Applicable Construction Code ANSI B31.1-1967 Edition, N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1972, S178 Addenda, Code Cases N/A

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code, Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|--------------------------------|
| Cyclone Separator | CE Bauer | N/A | N/A | N/A | N/A | '84 | Replacement | No |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Replaced cyclone separator - Conventional SW Pump 1B

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 232.5 psi Test Temp. 70 °F

9. Remarks Removed relief valve 1-SW-RV5 & 10. See PM 82-248 for details.
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacements conforms to Section XI of the ASME Code ASME Code Section XI (repair or replacement)

Signed Harry D. Mayer Dr. Spec. Nuclear Design 5-15-85, 19 85
 (Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Company of Long Grove Ill., have inspected the Replacements described in this Report on 5-8-85, 19 85 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 5-8-85 John H. Hensel Commissions NC 1007
 (Inspector) (State or Province, National Board)

Note. Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is a separate sheet.

CASE
N-308

1. Carolina Power and Light Co., PO Box 1551, Raleigh, NC. 27602
2. Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
3. BSEP Unit 1
4. Owners Certificate of Authorization: NA
5. Commercial Date: 3/17/77
6. National Board No.: NA
7. Component: CAC, Class 2

Done
10/18/85

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Company Date 10/10/85
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 4
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 80-133
P.O. Box 10429, Southport, NC 28461 Repair Organization P.O. No., Job No., etc.
4. Identification of System Containment Atmospheric Control, ASME Class 2
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S-78 Addenda, Code Cases N/A
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P.O. | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|---------------------------|------------|------------------------------------|-------------------------------|
| 1-CAC-V49 | Valcor | 20517-0003 | N/A | N/A | 18008 | 1985 | Replacement | No |
| 1-CAC-V50 | Valcor | 20517-0003 | N/A | N/A | 18008 | 1985 | Replacement | No |
| 1-CAC-V55 | Valcor | 20517-0001 | N/A | N/A | 18008 | 1985 | Replacement | No |
| 1-CAC-V56 | Valcor | 20517-0001 | N/A | N/A | 18008 | 1985 | Replacement | No |
| 1-CAC-V160 | Valcor | 20538-0001 | N/A | N/A | 18008 | 1985 | Replacement | No |
| 1-CAC-V161 | Valcor | 20538-0001 | N/A | N/A | 18008 | 1985 | Replacement | No |

7. Description of Work Installed new small bore pipe and valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure 92.7 psi Test Temp. 50 °F
9. Remarks N/A
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.
Signed [Signature] ENGINEER Title 10-11 (Date) 19 85

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Casualty Company of Long Grove, ILL have inspected the Replacements described in this Report on 1-30, 1986 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date 1-30-86 [Signature] (Inspector) Commissions NC-1139 (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

N-308

1. Carolina Power and Light Co., PO Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, PO Box 10429, Southport, NC28461
3. BSEP Unit 1
4. Owners Certificate of Authorization: NA
5. Commercial Date: 3/17/77
6. National Board No.: NA
7. Component: CAC Class 2

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Company Date 10/10/85
P.O. Box 1551, Raleigh, NC 27602
(Name) (Address) Sheet 2 of 4
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429, Southport, NC 28461
(Name) (Address)
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 80-133
P.O. Box 10429, Southport, NC 28461
(Name) (Address) Repair Organization P.O. No., Job No., etc.
4. Identification of System Containment Atmospheric Control, ASME Class 2
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 19 77, S-78 Addenda, Code Cases N/A
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P.O. | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|---------------------------|------------|------------------------------------|-------------------------------|
| 1-CAC-V162 | Valcor | 20539-0001 | N/A | N/A | 18008 | 1985 | Replacement | No |
| 1-CAC-V163 | Valcor | 20539-0001 | N/A | N/A | 18008 | 1985 | Replacement | No |
| 1-CAC-V170 | Valcor | 10539-0001 | N/A | N/A | 18008 | 1985 | Replacement | No |
| 1-CAC-V171 | Valcor | 10539-0001 | N/A | N/A | 18008 | 1985 | Replacement | No |
| 1-CAC-V172 | Valcor | 20517-0002 | N/A | N/A | 18008 | 1985 | Replacement | No |
| 1-CAC-V164 | Grinnell | 509542 | N/A | N/A | CR&L 102 | 1981 | Replacement | No |

7. Description of Work Installed new small bore pipe and valves.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure 92.7 psi Test Temp. 80 °F
9. Remarks N/A
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code CA 105.50 20/18/85 (repair or replacement)
Signed: [Signature] ENGINEER 10-11, 19 85
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Casualty Company of Long Grove, ILL have inspected the replacements described in this Report on 1-29, 19 86 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date 1-30-86 [Signature] NC 1139
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

N-308

- 1. Carolina Power and Light Co., PO Box 1551, Raleigh, NC 27602
- 2. Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
- 3. BSEP Unit 1
- 4. Owners Certificate of Authorization: NA
- 5. Commercial Date: 3/17/77
- 6. National Board No.: NA
- 7. Component: CAC, Class 2

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Company Date 10-10-85
P.O. BOX 1551 Raleigh, NC 27602 Sheet 4 of 4
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. BOX 10429 Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 80-133
P.O. BOX 10429 Southport, NC 28461 Repair Organization P.O. No., Job No., etc.
4. Identification of System Containment Atmospheric Control ASME Class 2
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S-78 Addenda, Code Cases N/A
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification P.O. | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|---------------------------|------------|------------------------------------|-------------------------------|
| 1-CAC-V174 | Vogt | N/A | N/A | N/A | 26880 | 1985 | Replacement | No |
| 1-CAC-V175 | Vogt | N/A | N/A | N/A | 26880 | 1985 | Replacement | No |
| 1-CAC-V176 | Vogt | N/A | N/A | N/A | 26880 | 1985 | Replacement | No |
| 1-Inch Pipe | Guyan | N/A | N/A | N/A | 26872 | 1984 | Replacement | No |
| 2-Inch Pipe | Guyan | N/A | N/A | N/A | 26872 | 1984 | Replacement | No |
| 3-Inch Pipe | Guyan | N/A | N/A | N/A | 26872 | 1984 | Replacement | No |

7. Description of Work Installed new small bore pipe and valves
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure 92.7 psi Test Temp. 80 °F
9. Remarks N/A
 (Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. SAK 10/16 00/11/85 (Inspector or Replacer)

Signed [Signature] ENGINEER Title 10-11, 19 85 (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Casualty Company of Long Grove, Ill have inspected the Replacements described in this Report on 1-30, 1986 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-30-86 [Signature] Commissions NC 1139
 (Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

N-308

1. Carolina Power and Light Co., PO Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
3. BSEP Unit 1
4. Owners Certificate of Authorization: NA
5. Commercial Date 3/17/77
6. National Board No.: NA
7. Component: CAC Class 2

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT

As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Company Date 10-10-85
P.O. BOX 1551 Raleigh, NC 27602 Sheet 3 of 4
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. BOX 10429, Southport, NC 28461
3. Work Performed by Brunswick Construction Unit BSEP Plant Modification 80-133
P.O. BOX 10429, Southport, NC 28461 Repair Organization P.O. No., Job No., etc.
4. Identification of System Containment Atmospheric Control ASME Class 2
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 19 77, S-78 Addenda, Code Cases N/A
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-CAC-V165 | Grinnell | SD-C-109542 | N/A | N/A | CP&L102 | 1981 | Replacement | No |
| 1-CAC-V166 | Grinnell | SD-C-109542 | N/A | N/A | CP&L102 | 1981 | Replacement | No |
| 1-CAC-V167 | Grinnell | SD-C-109542 | N/A | N/A | CP&L102 | 1981 | Replacement | No |
| 1-CAC-V168 | Grinnell | SD-C-109542 | N/A | N/A | CP&L102 | 1981 | Replacement | No |
| 1-CAC-V169 | Grinnell | SD-C-109542 | N/A | N/A | CP&L102 | 1981 | Replacement | No |
| 1-CAC-V173 | Vogt | N/A | N/A | N/A | PO26880 | 1985 | Replacement | No |

7. Description of Work Installed new small bore pipe and valves.
8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure 92.7 psi Test Temp. 80 °F
9. Remarks N/A
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code.

Signed [Signature] ENGINEER Title 10-11, 19 85

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumberman's Mutual Casualty Company of Long Grove, Ill have inspected the Replacements described in this Report on 1-30, 1986

and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1-30-86 [Signature] Commissions NC 1139

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

**CASE
N-308**

1. Carolina Power and Light Co., P.O. Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461
3. Unit No. 1
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 3-17-77
6. National Board No.: N/A
7. Component: Service Water Pumps 1A-Nuclear, 1B-Nuclear, 1A-Conventional, 1B-Conventional, and 1C-Conventional

**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI**

1. Owner Carolina Power and Light Company Date 4-6-85
P.O. Box 1551 Raleigh, N.C. 27602 Sheet 1 of 1
2. Plant Brunswick Steam Electric Plant Unit 1
P.O. Box 10429 Southport, N.C. 28461 P.O.#'s: 747507, 757789, 784833
3. Work Performed by Johnston Pump Company BSEP Mechanical Maintenance Subunit
2601 34th. St. Chattanooga, Tn 37407 Repair Organization P.O No., Job No., etc.
4. Identification of System Service Water Class 3
5. (a) Applicable Construction Code UEC 238-8.19 Edition, n/a Addenda, Code Cases n/a
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S-78 Addenda, Code Cases n/a
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|-----------------------------------|-------------------------------|
| 1A-N | Johnston | NRP5036 | n/a | n/a | n/a | 82 | repair | no |
| 1B-N | Johnston | CRT5501 | n/a | n/a | n/a | 83 | replacement | no |
| 1A-C | Johnston | CRT5502 | n/a | n/a | n/a | 83 | replacement | no |
| 1B-C | Johnston | CRS5509 | n/a | n/a | n/a | 84 | replacement | no |
| 1C-C | Johnston | CRT5503 | n/a | n/a | n/a | 83 | replacement | no |

7. Description of Work Pumps' seismic upgrade per plant modification 81-207
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure _____ psi Test Temp. _____ °F
9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached) N/A

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair/replacement conforms to Section XI of the ASME Code. Robert A. Yunigan Systems Engineer 4-6, 19 85
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermen's Mutual Casualty Company of Long Grove, IL have inspected the Repairs + Replacements described in this Report on 8-8-, 19 85
(Inspector) (State or Province, National Board)

Date 8-8-85 Commissions NC 1007
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE
N-308

- (1) Carolina Power and Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, Southport, NC 28461
- (3) Unit 1
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: 3/17/77
- (6) National Board: N/A
- (7) Component: 1-E11-V20 and 1-E11-V21

FORM NIS 2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power and Light Company Date 4/21/85
(Name)
Raleigh, NC 27602 Sheet 1 of 1
(Address)
2. Plant Brunswick Steam Electric Plant Unit One
(Name)
P.O. Box 10429, Southport, NC 28461
(Address)
3. Work Performed by CP&L Maintenance 1-M-84-5391, 5392
(Name) Repair Organization P.O. No., Job No., etc.
BSEP, Southport, NC
(Address)
4. Identification of System RHR
5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition N/A Addenda, Code Cases N/A
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 19 77, S78 Addenda, Code Cases N-308
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1-E11-V20 Dresser | Dresser | 1990C | N/A | N/A | Unit 1 | 1985 | Replacement | Yes |
| 1-E11-V21 Dresser | Dresser | 1990C | N/A | N/A | Unit 1 | 1985 | Replacement | Yes |
| 1-E11-V20 Dresser | Dresser | 1975C | N/A | N/A | Unit 1 | 1982 | Replaced | Yes |
| 1-E11-V21 Dresser | Dresser | 1975C | N/A | N/A | Unit 1 | 1982 | Replaced | Yes |

7. Description of Work Direct Replacement
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
 Pressure _____ psi Test Temp. _____ °F
9. Remarks LLRT Test Conducted. Code Stamp 'UV' 849 SCFM Air @ 10% Acc.
Applicable Manufacturer's Data Reports to be attached: 62 GPM Water @ 25% O.P.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code (repair or replacement)

Signed A. A. Anderson Ray Teal July 5, 19 85
(Owner or Owner's Designer) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Company of Long Grove, IL have inspected the Replacement described in this Report on 7-9, 1985 (Repair or Replacement) and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7-9-85 Paul G. Salovey Commissions NC 1052
(Inspector) (State or Province National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE
N-308

1. Owner: Carolina Power & Light Company, PO Box 1551, Raleigh, NC 27602
2. Plant: Brunswick Steam Electric Plant, PO Box 10429, Southport, NC 28461
3. Unit: One
4. Owner Certificate of Authorization: N/A
5. Commercial Date: March 17, 1977
6. National Board Number: N/A
7. Component: RHR

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Company Date Oct. 10, 1985
(Name)
PO Box 1551, Raleigh, NC 27602 Sheet 1 of 1
(Address)
2. Plant Brunswick Steam Electric Plant Unit One
PO Box 10429, Southport, NC 28461
(Address)
3. Work Performed by CP&L Maintenance & Construction Dept. WR&A 1M-85-1978
PO Box 10429, Southport, NC 28461 (Address) Organization P.O. No., Job No., etc.
4. Identification of System RHR
5. (a) Applicable Construction Code ANSI B31.1-1967 Edition N/A Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1977, S78 Addenda, Code Cases N/A
6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-------------------|--------------|----------------|----------------|---------|-----------------------------------|------------|------------------------------------|-------------------------------|
| RHR Stanchion | OEM | N/A | N/A | N/A | Weld ID 1-E11-5-4-FW 9FS394 | N/A | repaired | No |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

7. Description of Work Removal of dye penetrant indications on stanchion weld
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure _____ psi Test Temp. _____ °F
9. Remarks _____
Applicable Manufacturer's Data Reports to be attached:

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code.
Signed Brian L. Mc... Sr. ISI Specialist Oct. 10, 1985
(Owner or Owner's Designee) Title (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Lumbermens Mutual Casualty Co. of Long Grove, IL have inspected the repair described in this Report on Oct. 10, 1985 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date 10-16-85 [Signature] Commissions NC 1007
(Inspector) (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

CASE
N-308

- (1) Owner: Carolina Power & Light Company, P. O. Box 1551, Raleigh, NC 27602
- (2) Plant: Brunswick Steam Electric Plant, P. O. Box 10429, Southport, NC 28461
- (3) Plant Unit: No. 1
- (4) Owner Certificate of Authorization (if required): NA
- (5) Commercial Service Date: 11/21/83
- (6) National Board Number for Unit: NA

FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT
As Required by the Provisions of ASME Code Section XI

1. Owner Carolina Power & Light Company Date 7/18/85
(Name)

2. Plant Brunswick Steam Electric Plant Unit One
(Address)
P. O. Box 10429 Southport, NC 28461
(Name)

3. Work Performed by CP&L Plant Maintenance Work Request & Authorization # 1-M-85-2298
Southport, NC 28461 Repair Organization P.O. No., Job No., etc.

4. Identification of System Reactor Building Service Water Piping
(Address)

5. (a) Applicable Construction Code B31.1 19 67 Edition, NA Addenda, Code Cases
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 19 77, S7B Addenda, Code Cases

6. Identification of Components Repaired or Replaced, and Replacement Components

| Name of Component | Name of Mfr. | Mfrs. Ser. No. | Nat'l. Bd. No. | CRN No. | Other Identification | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|--|---------------|----------------|----------------|---------|----------------------|------------|------------------------------------|-------------------------------|
| 1" W. 31. Pip - 8 ft. | Alaska Copper | NA | NA | NA | NA | 1985 | Replaced | No |
| 1" W. NI. TEE | " | " | " | " | " | 1985 | Replaced | No |
| 1" S.D. F.F. Flange | " | " | " | " | " | 1985 | Replaced | No |
| Above material was replaced with 90-10 Copper Nickel purchased from Alaska Copper. | | | | | | | | |

7. Description of Work Remove and replace approximately 8 ft. pipe, tee and flange.

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure 60 psi Test Temp. 78 °F

9. Remarks _____
(Applicable Manufacturer's Data Reports to be attached)

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this repair conforms to Section XI of the ASME Code (Repair or replacement)

Signed [Signature] (Owner or Designee) Went Jack I (Title) 8/7 (Date) 19 85

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina, employed by Longhorns Mutual Casualty Company, have inspected the Replacements described in this Report on 8-20-85 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 8-20-85 [Signature] (Inspector) Commissions NC 1007 (State or Province, National Board)

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. X 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-1 (Back)

8. Examination Dates 3/31/85 to 11/7/85 9. Inspection Interval from 3/17/77 to 3/17/87

10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval.

See Item 2.0, 3.0, 4.0, and 5.0 attached

11. Abstract of Conditions Noted

See Item 6.0 attached

12. Abstract of Corrective Measures Recommended and Taken

See Item 6.0 attached

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) NA Expiration Date NA

Date Feb 3 19 86 Signed Carolina Power and Light Company By C. R. Dietz
General Manager

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by LMC* of Long Grove, IL have inspected the components described in this Owner's Report during the period 3/31/85 to 11/7/85, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. * Lumbermens Mutual Casualty Company

[Signature] Commissions NB 5957 NC 1139
Inspector's Signature National Board, State, Province, and Endorsements
Date 2-5 19 86

