

REPORT OF THE 1988 INSERVICE INSPECTION

AT

BRUNSWICK STEAM ELECTRIC PLANT UNIT 2
SOUTHPORT, NORTH CAROLINA 28461-0429

CAROLINA POWER & LIGHT COMPANY
RALEIGH, NORTH CAROLINA

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SECTION 1.0

INTRODUCTION

CAROLINA POWER & LIGHT COMPANY, RALEIGH, NC
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1.0 Introduction

1.1 This report represents a summary of the Inservice Inspection (ISI) activities performed at Carolina Power & Light Company's Brunswick Steam Electric Plant (BSEP) Unit 2 during the seventh regularly scheduled refueling outage in 1988. The examinations were performed to satisfy the requirements (or portions thereof) of the following:

- American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI (Division I), Inspection Program B, Edition 1980 through the Winter 1981 Addenda, (E80W81A) Second Interval, First Period
- Draft NUREG 0313, Revision 2
- NUREG 0737
- NUREG 0619
- Inspection and Enforcement Bulletin 80-13 (IEB 80-13)
- Inspection and Enforcement Notice 84-41 (IEN 84-41)
- Vendor Recommendations
- Other

1.2 The following general examination methods were utilized to perform examinations on components in accordance with the requirements of the referenced documents.

1.2.1 E80W81A Interval 2, Period 1

1.2.1.1 Manual Surface and/or Volumetric Testing

- Pressure vessels (B-A, E-D, B-H, C-A, C-B)
- Pressure retaining piping welds (B-F, B-J, B-O, C-F-2)
- Integral attachments for piping, pumps, and valves (B-K-1, C-C)
- Pressure retaining bolting > 2" diameter (C-D)

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1.2.1.2 Automated Volumetric Testing

- Pressure retaining piping welds (B-F, B-J)

1.2.1.3 Visual Examination

- Pressure retaining partial penetration welds (B-E)
- Pressure retaining bolting < 2" diameter (B-G-2)
- Pressure boundary component supports (F-A, F-B, F-C)
- Pressure boundary (as applicable) (B-P, C-H)
- Reactor vessel interior (B-N-1)

1.2.2 Draft NUREG 0313, Revision 2

1.2.2.1 Manual and/or Automated Volumetric Testing

- Pressure retaining piping welds (B-F, B-J)
- Safe end to thermal sleeve attachment welds
- Weld overlay repairs

1.2.3 NUREG 0737

1.2.3.1 Helium Leak Detection Test

1.2.4 NUREG 0619

1.2.4.1 Manual Surface Testing

- Feedwater nozzle inner radius sections from RPV interior

1.2.4.2 Manual Volumetric Testing

- Feedwater nozzle inner radius sections from RPV exterior surface
- Feedwater safe ends

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- 1.2.5 IEB 80-13
 - 1.2.5.1 Visual Examination
 - Core spray spargers and piping (B-N-1)
- 1.2.6 IEN 84-41
 - 1.2.6.1 Manual and/or Automated Volumetric Testing
 - Inconel butter on RPV nozzles
- 1.2.7 Vendor Recommendations
 - 1.2.7.1 Remote Manual Volumetric Testing
 - Jet pump hold-down beams
 - Shroud head bolts
 - 1.2.7.2 Remote Automated Volumetric Testing
 - Shroud access cover plates
- 1.2.8 Other
 - 1.2.8.1 VT-2 Examinations
 - Systems/areas for completion of first inspection interval pressure testing.
 - 1.2.8.2 VT-3/VT-4 Examinations
 - Technical specification required snubber examinations.
 - 1.2.8.3 Inservice Testing of Snubbers
 - Technical specification and ASME XI required functional testing of snubbers.
 - 1.2.8.4 Ultrasonic Thickness Readings
 - Wall thinning inspections (Surry)

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SECTION 2.0

SUMMARY OF CLASS 1 EXAMINATIONS
(ASME XI CREDIT-IWB)

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2.0 Summary of Class 1 Examinations (ASME XI Credit-IWB)

<u>Category</u>	<u>Item No.</u>	<u>System</u>	<u>Diameter</u>	<u>Description</u>
B-A	B1.21	RPV	231"	33% RPV head circ. weld
B-A	B1.22	RPV	231"	1 RPV head meridional weld
B-A	B1.30	RPV	231"	50% RPV shell to flange weld
B-A	B1.40	RPV	231"	33% RPV head to flange weld
B-D	B3.90	RPV	231"	10 nozzle to vessel welds (4-N3, 2-N6, 1-N7, 1-N10, 2-N12)
B-D	B3.100	RPV	231"	6 nozzles inner radius sections (2-N6, 1-N7, 1-N10, 2-N12)
B-E	B4.11	RPV	231"	N-15 RPV drain
B-E	B4.12	RPV	231"	CRD nozzles (all accessible)
B-E	B4.13	RPV	231"	Incore housing nozzles (all accessible)
B-F	B5.10	JPI	4.0"	Nozzle to safe end
B-F	B5.20	SLC	1.5"	Nozzle to safe end
B-F	B5.20	RPV Inst.	1.5"	2 nozzle to safe end
B-F	B5.130	RHR	20"	1 circ weld
B-F	B5.130	RR	12"	1 circ weld
B-G-2	B7.50	Various	Various	3 flange bolted connections
B-G-2	B7.70	Various	Various	7 valve bolting examinations
B-G-2	B7.80	CRD	N/A	8 CRD housing connections
B-H	B8.10	RPV	231"	33% RPV skirt weld
B-H	B8.10	RPV	231"	1 RPV seismic lug
B-J	B9.11	CS	10"	4 circ welds
B-J	B9.11	FW	12"	3 circ welds
B-J	B9.11	FW	18"	3 circ welds
B-J	B9.11	HP	10"	2 circ welds
B-J	B9.11	MS	6"	1 circ weld
B-J	B9.11	MS	24"	2 circ welds
B-J	B9.11	RCI	4"	1 circ weld
B-J	B9.11	RCR	4"	2 circ welds
B-J	B9.11	RCR	12"	2 circ welds
B-J	B9.11	RCR	28"	1 circ weld
B-J	B9.11	RHR	4"	2 circ welds
B-J	B9.11	RHR	24"	3 circ welds
B-J	B9.11	RWCU	6"	2 circ welds
B-J	B9.21	MS	3"	1 circ weld
B-J	B9.21	RCI	3"	2 circ welds
B-J	B9.21	RCR	2"	3 circ welds
B-J	B9.31	MS	24" x 6"	1 branch connection
B-J	B9.40	RPV	1.50"	2 socket welds
B-J	B9.40	RPV	2.0"	1 socket weld

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<u>Category</u>	<u>Item No.</u>	<u>System</u>	<u>Diameter</u>	<u>Description</u>
B-J	B9.40	RPV	2.41"	1 socket weld
B-J	B9.40	RWCU	2"	3 socket welds
B-J	B9.40	SLC	1.5"	2 socket welds
B-K-1	B10.10	FW	N/A	2 integral attachments
B-K-1	B10.10	HP	N/A	1 integral attachment
B-K-1	B10.10	MS	N/A	1 integral attachment
B-K-1	B10.10	RCI	N/A	1 integral attachment
B-K-1	B10.10	RCR	N/A	5 intergal attachments
B-K-1	B10.20	RCR	N/A	2 intergal pump attachments
B-M-2	B12.50	Various	Various	4 valve internals
B-N-1	B13.10	RPV	231"	Accessible areas
B-O	B14.10	CRD	5.175	2 CRD housing welds
B-P	B15.10	RCPB	N/A	Pressure-retaining boundary

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SECTION 3.0

SUMMARY OF CLASS 2 EXAMINATIONS
(ASME XI CREDIT-IWC)

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3.0 Summary of Class 2 Examinations (ASME XI Credit-IWC)

<u>Category</u>	<u>Item No.</u>	<u>System</u>	<u>Diameter</u>	<u>Description</u>
C-A	C1.10	RHR	55.25"	1 HX circ shel' weld
C-B	C2.21	RHR	20"	1 HX nozzle to vessel weld
C-B	C2.22	RHR	20"	1 HX nozzle to vessel inner radius section
C-C	C3.10	RHR	N/A	1 HX integral attachment weld
C-C	C3.20	RHR	N/A	4 integral attachment welds
C-D	C4.30	HP	3"	5 HPCI pump studs
C-F-2	C5.51	CRD	12"	1 circ weld
C-F-2	C5.51	CS	14"	2 circ welds
C-F-2	C5.51	FW	18"	1 circ weld
C-F-2	C5.51	FW	30"	1 circ weld
C-F-2	C5.51	HP	14"	1 circ weld
C-F-2	C5.51	MS	24"	2 circ welds
C-F-2	C5.51	RHR	14"	2 circ welds
C-F-2	C5.51	RHR	16"	2 circ welds
C-F-2	C5.51	RHR	20"	4 circ welds
C-F-2	C5.51	RHR	24"	1 circ weld
C-F-2	C5.81	FW	20X8	1 branch connection

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SUMMARY OF SUPPORT EXAMINATIONS
(ASME XI CREDIT-IWF INCLUDED)

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4.0 Summary of Support Examinations

4.1 ASME XI, Support Examinations (IWF-Credit)

4.1.1 VT-3 and/or VT-4 (as required) performed on various system and component diameter supports.

<u>Class</u>	<u>Nonsnubber</u>	<u>Snubber</u>	<u>Total</u>
1	27	47	75
2	50	42	92
<u>3</u>	<u>53</u>	<u>26</u>	<u>79</u>
All Classes	130	115	245

4.1.2 Functional Testing (IWF-5000)

A total of 49 ASME XI Class 1, 2, or 3 snubbers were functionally tested.

4.2 Technical Specification Examinations

4.2.1 VT-3 and VT-4 performed on safety-related snubbers: Total examined - 578.

4.2.2 Functional testing: Total tested - 147 (includes random sample, retests from previous outage, and functional testing for operability determination).

4.2.3 Seal life changeout: Total 192

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SUMMARY OF AUGMENTED EXAMINATIONS

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5.0 Summary of Augmented Examinations

<u>Component</u>	<u>Requirement</u>	<u>Description</u>
RCR safe ends	NUREG 0313	10 safe ends examined
Inconel butters	IEN 84-41	2 - 28" N1 nozzles 10 - 12" N2 nozzles 2 - 10" N5 nozzles 2 - 4" N8 nozzles
IGSCC susceptible welds (no overlay)	NUREG 0313	9 - 28" RCR welds 4 - 22" RCR welds 26 - 12" RCR welds 6 - 4" RCR branch connections 2 - 10" CS welds 2 - 4" JPI welds
IGSCC susceptible welds (overlay repaired)	NUREG 0313	4 - 28" RCR welds 1 - 22" RCR welds 16 - 12" RCR welds 2 - 4" RCR welds
Shroud head bolts	Vendor Recommendation	36 bolts examined
Jet pump beams	Vendor Recommendation	20 jet pump hold-down beams examined
Core spray piping and spargers	IEB 80-13	100% accessible surfaces examined in conjunction with in-vessel exams
Standby gas trains	NUREG 0737	Helium leak test of SBGT
Shroud ledge hatch covers	Vendor Recommendation	2 hatch covers examined
Feedwater nozzle inner radius sections and safe ends	NUREG 0619	4 FW nozzle inner radius sections were examined from RPV OD by ultrasonics and from RPV ID by penetrant test 4 FW safe ends were examined

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<u>Component</u>	<u>Requirement</u>	<u>Description</u>
Turbine Building piping (FW, MS, CD, HC, etc.)	Wall Thinning Inspections (Surry)	42 areas examined for wall thickness readings

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SECTION 6.0

SUMMARY OF INTERVAL I
PRESSURE TESTING

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6.0 Summary of Interval I Pressure Testing

The following hydrostatic/pneumatic pressure tests were performed for completion of the first inspection interval requirements in accordance with ASME Section XI, 1977 edition through Summer 1978 Addenda.

1. Reactor Building Closed Cooling Water
2. RHR Service Water B and D Pump Discharge
3. RHR Service Water B and D Pump Suction
4. Fuel Pool Cooling and Filtering
5. Fuel Pool Assist/RHR
6. Service Water Lube Water Piping
7. RHR Service Water A and C Booster Pump Suction
8. Diesel Generator No. 3 Jacket Water Cooling
9. Diesel Generator No. 4 Jacket Water Cooling
10. Containment Head Vent Piping

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SECTION 7.0

ABSTRACT OF CONDITIONS NOTED
AND CORRECTIVE ACTION TAKEN

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7.0 Abstract of Conditions Noted and Corrective Action Taken

7.1 Class 1 Components (Includes Augmented Exams)

<u>Component Identification</u>	<u>Condition Noted (Exam Method)</u>	<u>Disposition/Corrective Action</u>
2B32RECIRC-28-B-1	IGSCC (UT) - in inconel butter area	2 indications with IGSCC characteristics were noted by automated "smart" UT. Both indications are axially oriented, one of which was detected during previous outage (RFO6) with no change in length or depth noted; MSIP was performed and no change in the indications occurred; accept as is for additional fuel cycle.
2B32RECIRC-12-AR-E5	IGSCC (UT) - in inconel clad, nozzle forging, inconel butter; N-SE weld	1 planar 4.8", 85% throughwall IGSCC circumferential indication with axial components was detected by automated "smart" UT; an engineered inconel overlay was applied with no apparent change in the indication noted during psi or overlay; five small acceptable areas of interbead lack of fusion were detected in the inconel overlay.
2B32RECIRC-12-BR-K4A	Linear and rounded surface indications (PT)	5 surface indications (three linear and two rounded) were detected by penetrant exam, supplemental ultrasonic (45 and surface wave) exams determined the indications were acceptable surface anomalies (installation/manufacturing origin).
2B32RECIRC-12-BR-F5	Subsurface planar non-IGSCC (UT)	A non-IGSSC subsurface planar indication was detected by "smart" UT, indication acceptable in size per ASME XI.

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<u>Component Identification</u>	<u>Condition Noted (Exam Method)</u>	<u>Disposition/Corrective Action</u>
2B32RECIRC-28-A-1	IGSCC in inconel butter (UT)	IGSCC indication previously detected in 1986 exhibited no growth during last fuel cycle and remained unchanged following MSIP; accept as is for additional fuel cycle.
2B32RECIRC-12-AR-D2	IGSCC (UT)	An axial indication characterized as IGSCC was detected by the "smart" UT system; weld overlay (standard design) was applied; acceptable for continued service.
2B32RECIRC-12-BR-K3, 2B32RECIRC-12-AR-C1, 2B32RECIRC-12-AR-C3	Previous IGSCC under overlay detected (UT)	Previous weld overlay repairs of IGSCC indications reaffirmed no apparent growth or change from previous examination results by "smart" UT; accept as is.
2B32RECIRC-12-BR-G3, 2B32RECIRC-12-AR-C2, 2B32RECIRC-12-AR-K2	Previous IGSCC weld overlaid, exam results variant from previous exam results (UT)	"Smart" UT exam results differ from previous exam results on existing overlays: G3-2 indications no change, one axial indication not detected. C2-3 indications recorded prior to overlay not recorded in RFO 6 recorded this RFO 7, plus one additional axial not previously recorded. K2-7 axial IGSCC indications recorded not previously identified by manual examination of the above indications; none have been detected in the overlay material; accept as is.

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<u>Component Identification</u>	<u>Condition Noted (Exam Method)</u>	<u>Disposition/Corrective Action</u>
2B32RECIRC-28-B-3	Existing IGSCC weld overlaid; design upgrade - additional overlay (UT)	9 axial IGSCC indications; one lack of bond and one area of interbead lack of fusion detected by "smart" UT after additional overlay weld deposited; the areas of lack of bond and interbead lack of fusion in the overlay were analyzed as acceptable; accept as is.
2B32RECIRC-28-A-4	Existing IGSCC, weld overlaid; design upgrade - additional overlay (UT)	1 axial IGSCC indication exhibited no change/growth following additional metal deposited to upgrade overlay design, 1 circumferential IGSCC indication detected during previous outage was not detectable after weld buildup. Accept as is.
2B11-RPV-F1	Subsurface indications (UT)	6 small subsurface indications were recorded; acceptable size.
2B11-RPV-SKIRT 0-120	Subsurface indications (UT)	5 small subsurface indications were recorded; acceptable size.
2B21PS1A2-24-FWPSA23	Linear (PT)	1/8" linear; acceptable size.
2B32A3-26-SW19	Rounded (PT)	1/16" rounded; acceptable size.
2B32A3-26-SW18	Rounded (PT)	1/32" rounded; acceptable size.
2C41A19-9-FW139	Rounded (PT)	1/16" rounded; acceptable size.

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<u>Component Identification</u>	<u>Condition Noted (Exam Method)</u>	<u>Disposition/Corrective Action</u>
Feedwater Spargers	Linear (VT-3)	Several linear indications emanating from FW sparger flow holes were visually identified and compared to previous exam results. Growth has occurred; however, the spargers were evaluated as acceptable for an additional fuel cycle.
Core Spray Header (RPV Internal)	Linear (VT-3)	A linear indication noted on the core spray header tee box weld during in-vessel visual exam was subsequently determined by UT to be a throughwall indication (assumed IGSCC related due to indication characteristics), the indication was evaluated to be acceptable without repair for an additional fuel cycle (nonpressure-retaining piping - internal to RPV).
Jet Pump Instrumentation Seal @ N8B	Leakage (visually identified)	3/4" instrument line socket weld was visually observed to be leaking at the jet pump instrument seal; the line was cut downstream and additional weld reinforcement was added to the leaking socket weld (overlay) and downstream piping was rewelded; no leakage was observed during RPV hydro. Accept as is.
Core Spray A Loop High Point Vent (inside drywell)	Leakage (VT-2)	3/4" core spray high point vent line inside drywell was found to have leaking weld during RPV hydro; line was cut and capped, no subsequent leakage was observed; accept as is.

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<u>Component Identification</u>	<u>Condition Noted (Exam Method)</u>	<u>Disposition/Corrective Action</u>
Shroud Head Bolts	IGSCC (UT)	15 of 36 shroud head bolts exhibited IGSCC characteristic indications; previous evaluation requiring at least four uncracked bolts at approximate 90-degree intervals remains valid. Accept as is.
Reactor Coolant Pressure Boundary (RCPB)	Leakage (VT-2)	Leakage from various mechanical connections (valve packing, flange connections, etc.) was identified and documented on WR/JO (Work Authorization/Job Order) during RCPB pressure test.

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7.2 Class 2 Components

<u>Component Identification</u>	<u>Condition Noted (Exam Method)</u>	<u>Disposition/Corrective Action</u>
2E11HX-2A-SWN3	Linear (MT)	3/8" linear identified by magnetic particle examination accepted by supplemental ultrasonic shear wave and surface wave evaluation of indication characteristics.
2E1164-21-SWA	Linear (MT)	2 indications identified by magnetic particle examination are reportable as a single linear (separation distance). Indication was accepted by supplemental ultrasonic evaluation of indication characteristics. Indication was determined to be acceptable manufacturing defect (lap).
2E1162-21-FW21SS445	Linear (MT)	1/16" linear, acceptable size.
2E11HX-2B-SWN4	Previous subsurface indication	4 subsurface indications previously identified by UT during last U2 RFO were sizing (UT) investigated by UT; no apparent change or growth has occurred during last fuel cycle; indications were previously evaluated as acceptable for continued operation without repair; accept as is for additional fuel cycle.
CRD Insert and Withdraw Lines	Leakage (VT-2)	2 insert/withdraw CRD lines were found to have throughwall leakage during RPV hydro by VT-2, subsequent examination (including penetrant testing) found a total of 15 failed CRD lines; indications were evaluated to be transgranular corrosion cracking. The affected portions of the CRD lines were replaced and no subsequent leakage was detected.

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7.3 Support Examinations

<u>Component Identification</u>	<u>Condition Noted (Exam Method)</u>	<u>Disposition/Corrective Action</u>
Class 1, 2, and 3 Supports	Various*1 (VT-3/VT-4)	35 supports out of 245 examined were found to have conditions that resulted in sample expansions; in addition to the supports immediately adjacent to the problem support(s), 55 additional (noncredited) supports were examined. All conditions were corrected*2 or evaluated as acceptable prior to return to service.
Technical specification Snubbers	Various*1 (VT-3/VT-4)	213 out of 578 snubbers required corrective action*2 or evaluation*3 for conditions observed during visual exam. All conditions were corrected or evaluated as acceptable.

*NOTE 1: No major structural problems were detected; however, conditions such as missing/leaking fluid (snubbers), frozen spherical bearings, loose locking devices/parts, hot/cold settings out of adjustment, misalignment, mechanical interference, rust, paint, missing ID tags, etc., were identified and reported.

*NOTE 2: Corrective action occurred by a number of methodologies: WR/JO (trouble ticket), plant modification, direct/planned replacement, periodic test, or Plant Services request dependent on the type of condition being corrected.

*NOTE 3: Evaluation of a technical specification snubber may include functional testing for low or missing fluid.

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7.4 Other

<u>Component Identification</u>	<u>Condition Noted (Exam Method)</u>	<u>Disposition/Corrective Action</u>
SW Lube Water Piping (E77S78A)	Throughwall leakage (VT-2)	A throughwall leak was identified during visual examination on line 2SW-211-4-157B (Class 3); tee and elbow were replaced by plant modification, no further leakage was observed.
Containment Head Vent Piping	Flex hose damaged (would not pressurize)	During pressure test the damaged flex hose would not pressurize; flex hose was replaced and adjoining piping modified by WR/JO (trouble ticket) retest performed and no leakage was observed.
RHR/SW Booster Pump A & C Suction; RBCCW Drywell Chillers; RHR/SW Booster Pump B & D Discharge	Leakage from mechanical joints (VT-2)	Leakage from various mechanical connections was identified and documented on WR/JO (trouble ticket) during respective pressure tests.

CAROLINA POWER & LIGHT COMPANY, RALEIGH, NC
BRUNSWICK STEAM ELECTRIC PLANT, UNIT 2, SOUTHPORT, NC
COMMERCIAL DATE: NOVEMBER 2, 1975

SECTION 8.0

PROGRAM STATUS
(ASME XI CREDIT)

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*****
* NUTECH *****
* CAROLINA POWER & LIGHT COMPANY *****
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *****
* PRISM *****
* *****
* * PAGE: 1 *****
* * REVISION:NRCD *****
* * DATE:88/06/29 *****
* *****
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 *****
* ASME SECTION XI , 1980 EDITION THROUGH AND INCLUDING *****
* THE WINTER 1981 ADDENDA , INTERVAL 02 ONLY *****
* *****
* CATEGORY : B-A PRESSURE RETAINING WELDS IN REACTOR VESSEL *****
* ITEM NO : B1.11 RV CIRCUMFERENTIAL SHELL WELDS *****
* *****

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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	4	2	0	0.0	0	0.0	0.0	34.0
TOTAL	4	2	0	0.0	0	0.0	0.0	34.0

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*****
* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANT *
* INSERVICE INSPECTION STATUS REPORT - R1W-02 , PERIOD 1 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY *
* PAGE: 2 *
* REVISION:NRC0 *
* DATE:88/06/29 *
*****

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* CATEGORY : B-A PRESSURE RETAINING WELDS IN REACTOR VESSEL
* ITEM NO : B1.12 RV LONGITUDINAL SHELL WELDS
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	8	2	0	0.0	0	0.0	0.0	34.0
TOTAL	8	2		0.0	0	0.0	0.0	34.0


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.....
* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
* PLANNING
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 * PAGE: 4 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION: NRC0 *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE: 88/11/29 *
.....
* CATEGORY : B-A PRESSURE RETAINING WELDS IN REACTOR VESSEL
* ITEM NO : B1.21T RV CIRCUMFERENTIAL TOP HEAD WELDS
*
.....

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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	3	3	1	33.3	0	33.3	16.0	34.0
TOTAL	3	3	1	33.3	0	33.3	16.0	34.0


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.....
* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY *
* DATE:88/06/29 *
.....
* CATEGORY : B-A PRESSURE RETAINING WELDS IN REACTOR VESSEL *
* ITEM NO : B1.22B RV MERIDIONAL BOTTOM HEAD WELDS *
* *
.....

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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	8	1	0	0.0	0	0.0	0.0	34.0
TOTAL	8	1	0	0.0	0	0.0	0.0	34.0


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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY *
* DATE:88/06/29 *
.....

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* CATEGORY : B-A PRESSURE RETAINING WELDS IN REACTOR VESSEL *
* ITEM NO : B1.300 RV SHELL-TO-FLANGE WELD TESTING IN CONJUNCTION WITH CAT B-D *
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	2	2	1	50.0	0	50.0	50.0	50.0
TOTAL	2	2	1	50.0	0	50.0	50.0	50.0

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*****
* NUTECH                                CAROLINA POWER & LIGHT COMPANY          PRISIM *
*                                     BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
*                                     PLANNING
*      INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1          * PAGE:      8 *
*      ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING          * REVISION: NRC0 *
*      THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY                    * DATE: 88/06/29 *
*****
* CATEGORY : B-A      PRESSURE RETAINING WELDS IN REACTOR VESSEL
* ITEM NO  : B1.40   RV HEAD-TO-FLANGE WELD
*
*****

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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIREP (%)	MAXIMUM ALLOWED (%)
RPV	3	3	1	33.3	0	33.3	16.0	34.0
TOTAL	3	3	1	33.3	0	33.3	16.0	34.0

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 * PAGE: 9 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NRC0 *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29 *
.....
* CATEGORY : B-DB FULL PENETRATION WELDS OF NOZZLES IN VESSELS - PROGRAM B *
* ITEM NO : 83. 90 RV NOZZLE-TO-VESSEL WELDS - PROGRAM B *
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	35	35	10	28.6	0	28.6	25.0	50.0
TOTAL	35	35	10	28.6	0	28.6	25.0	50.0

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.....
* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : B1W-02 , PERIOD 1 * PAGE: 10 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NRCO *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29 *
.....
* CATEGORY : B-DB FULL PENETRATION WELDS OF NOZZLES IN VESSELS - PROGRAM B *
* ITEM NO : B3.100 R/V NOZZLE INSIDE RADIUS SECTION - PROGRAM B *
*
.....

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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	35	35	6	17.1	4	28.6	25.0	50.0
TOTAL	35	35	6	17.1	4	28.6	25.0	50.0

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY *
* PAGE: 11 *
* REVISION:NRCO *
* DATE:88/06/29 *
.....
* CATEGORY : B-E PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS *
* ITEM NO : B4.11 VESSEL NOZZLE PARTIAL PENETRATION WELDS *
* *
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	1	3	1	33.3	0	33.3	16.0	34.0
TOTAL	1	3	1	33.3	0	33.3	16.0	34.0

MSC/88-153

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*****
* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *****
* INSERVICE INSPECTION STATUS REPORT : B1W-02 , PERIOD 1 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY *
* PAGE: 12 *
* REVISION: NRC0 *
* DATE: 88/06/29 *
*****

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* CATEGORY : B-E PRESSURE RETAINING PARTIAL PENETRATION WELDS IN VESSELS *
* ITEM NO : B4.12 CONTROL ROD DRIVE NOZZLE PARTIAL PENETRATION WELDS *
* *
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	317	951	317	33.3	0	33.3	16.0	34.0
TOTAL	317	951	317	33.3	0	33.3	16.0	34.0


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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
* PLANNING
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 * PAGE: 13 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NR00 *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29 *
.....
* CATEGORY : B-F PRESSURE RETAINING DISSIMILAR METAL WELDS
* ITEM NO : 85. 10 RV NOZZLE-TO-SAFE END BUTT WELDS, NPS >= 4 INCHES
*
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CS	2	2	0	0.0	0	0.0	16.0	34.0
JPI	2	2	1	50.0	0	50.0	16.0	34.0
RCR	12	12	0	0.0	2	16.7	16.0	34.0
TOTAL	16	16	1	6.3	2	18.8	16.0	34.0

MSC/88-153

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
* PLANNING
* INSERVICE INSPECTION STATUS REPORT : B1W-02 , PERIOD 1 * PAGE: 14 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NRCO *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29 *
.....
* CATEGORY : B-F PRESSURE RETAINING DISSIMILAR METAL WELDS
* ITEM NO : B5. 20 RV NOZZLE-TO-SAFE END BUTT WELDS, NPS < 4 INCHES
*
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
=====	=====	=====	=====	=====	=====	=====	=====	=====
CRD	1	1	0	0.0	0	0.0	25.0	50.0
RPV	6	6	2	33.3	0	33.3	25.0	50.0
SLC	1	1	1	100.0	0	100.0	25.0	50.0
=====	=====	=====	=====	=====	=====	=====	=====	=====
TOTAL	8	8	3	37.5	0	37.5	25.0	50.0

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 * PAGE: 15 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NRC0 *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29 *
.....
* CATEGORY : B-F PRESSURE RETAINING DISSIMILAR METAL WELDS *
* ITEM NO : 85.130 NOMINAL PIPE SIZE >= 4 IN. DISSIMILAR METAL PIPING BUTT WELD *
* *
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CS	3	3	0	0.0	0	0.0	16.0	34.0
RCR	10	10	1	10.0	1	20.0	16.0	34.0
RHR	3	3	1	33.3	0	33.3	16.0	34.0
RWC	1	1	0	0.0	0	0.0	16.0	34.0
TOTAL	17	17	2	11.8	1	17.6	16.0	34.0

41

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* NUTECH                                CAROLINA POWER & LIGHT COMPANY          PRISIM *
*                                     BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
*                                     PLANNING
*                                     INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1
*                                     ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING
*                                     THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY
*                                     * PAGE:      16
*                                     * REVISION:NR0
*                                     * DATE:88/06/29
*****
* CATEGORY : B-G-1  PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
* ITEM NO  : B6.10  RV CLOSURE HEAD NUTS                                (> 2")
*
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	64	64	0	0.0	0	0.0	0.0	34.0
TOTAL	64	64	0	0.0	0	0.0	0.0	34.0

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.....
* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : B1W-02 , PERIOD : * PAGE: 17 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NRCO *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29 *
.....
* CATEGORY : B-G-1 PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER *
* ITEM NO : B6. 20 RV CLOSURE STUDS, IN PLACE (> 2") *
* *
.....

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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	64	-----	0	-----	0	-----	0.0	4.0
TOTAL	64	59	0	0.0	0	0.0	0.0	34.0

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 * PAGE: 18 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NR00 *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29 *
.....
* CATEGORY : B-G-1 PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER *
* ITEM NO : 86. 30 RV CLOSURE STUDS, WHEN REMOVED (> 2") *
* *
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	64	-----	0	-----	0	-----	0.0	34.0
TOTAL	64	5	0	0.0	0	0.0	0.0	34.0

MSC/88-153

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 * PAGE: 19 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NRCO *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29 *
.....
* CATEGORY : B-G-1 PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER *
* ITEM NO : B6. 40 RV THREADS IN FLANGE (> 2") *
*
.....

```

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
=====	=====	=====	=====	=====	=====	=====	=====	=====
RPV	64	64	0	0.0	0	0.0	0.0	34.0
TOTAL	64	64	0	0.0	0	0.0	0.0	34.0

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MSC/88-153

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.....
* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 * PAGE: 20 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NRCO *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29 *
.....
* CATEGORY : B-G-1 PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER *
* ITEM NO : B6. 50 RV CLOSURE WASHERS, BUSHINGS (> 2") *
*
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
=====	=====	=====	=====	=====	=====	=====	=====	=====
RPV	128	128	0	0.0	0	0.0	0.0	34.0
	=====	=====	=====	=====	=====	=====	=====	=====
TOTAL	128	128	0	0.0	0	0.0	0.0	34.0


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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 * PAGE: 21 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVIS ON 100 *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:86 29 *
.....
* CATEGORY : B-G-1 PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER *
* ITEM NO : B6.180 PUMP BOLTS AND STUDS (> 2") *
.....

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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RCR	32	32	0	0.0	0	0.0	0.0	34.0
TOTAL	32	32	0	0.0	0	0.0	0.0	34.0

MSC/88-153

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.....
* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : B1W-02 , PERIOD 1 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY *
* PAGE: 22 *
* REVISION:NRCO *
* DATE:88/06/29 *
.....
* CATEGORY : B-G-1 PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER *
* ITEM NO : B6.190 PUMP FLANGE SURFACE WHEN CONNECTION DISASSEMBLED (> 2") *
*
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RCR	2	-----	0	-----	0	-----	0.0	100.0
TOTAL	2	0	0	-----	0	-----	0.0	100.0

MSC/88-153

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY *
* PAGE: 23 *
* REVISION:NRC0 *
* DATE:88/06/29 *
.....
* CATEGORY : B-G-1 PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER *
* ITEM NO : 00.200 PUMP NUTS, BUSHINGS, AND WASHERS (> 2") *
* *
.....

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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIREING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RCR	4	4	0	0.0	0	0.0	0.0	34.0
TOTAL	4	4	0	0.0	0	0.0	0.0	34.0

MSC/88-153

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
* PLANNING
* INSERVICE INSPECTION STATUS REPORT : B1W-02 , PERIOD 1 * PAGE: 24 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NR00 *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE: RR/06/29 *
*
* CATEGORY : B-G-2 PRESSURE RETAINING BOLTS, TWO INCHES AND LESS IN DIAMETER
* ITEM NO : B15.EX EXEMPT CLASS 1 PRESSURE RETAINING COMPONENTS

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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CS	6	0	0	0.0	0	0.0	0.0	100.0
FW	4	0	0	0.0	0	0.0	0.0	100.0
HP	3	0	0	0.0	0	0.0	0.0	100.0
MS	3	0	0	0.0	0	0.0	0.0	100.0
RCI	7	0	0	0.0	0	0.0	0.0	100
RCR	6	0	0	0.0	0	0.0	0.0	100.0
RHR	10	0	0	0.0	0	0.0	0.0	100.0
RWC	5	0	0	0.0	0	0.0	0.0	100.0
SLC	2	0	0	0.0	0	0.0	0.0	100.0
TOTAL	40	0	0	0.0	0	0.0	0.0	100.0

50

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.....
* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 * PAGE: 25 *
ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NRC0 *
THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29 *
.....
* CATEGORY : B-G-2 PRESSURE RETAINING BOLTS, TWO INCHES AND LESS IN DIAMETER *
* ITEM NO : B7.50 PIPING BOLTS, STUDS, AND NUTS (<= 2") *
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
=====	=====	=====	=====	=====	=====	=====	=====	=====
MS	3	3	1	33.3	0	33.3	16.0	34.0
RCR	4	4	0	0.0	1	25.0	16.0	34.0
RHR	4	4	1	25.0	0	25.0	16.0	34.0
RPV	1	1	1	100.0	0	100.0	16.0	34.0
TOTAL	12	12	3	25.0	1	33.3	16.0	34.0

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
 * BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
 * PLANNING *
 * INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 *
 * ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING *
 * THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY *
 * PAGE: 26 *
 * REVISION:NR00 *
 * DATE:88/06/29 *

* CATEGORY : B-G-2 PRESSURE RETAINING BOLTS, TWO INCHES AND LESS IN DIAMETER *
 * ITEM NO : 87.70 VALVE BOLTS, STUDS, AND NUTS (<= 2") *

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CS	2	2	0	0.0	0	0.0	16.0	34.0
FW	2	2	2	100.0	0	100.0	16.0	34.0
MS	21	21	3	14.3	2	23.8	16.0	34.0
RCI	3	3	0	0.0	2	66.7	16.0	34.0
RCR	10	10	2	20.0	2	40.0	16.0	34.0
RHR	4	4	0	0.0	0	0.0	16.0	34.0
RWC	1	1	0	0.0	0	0.0	16.0	34.0
SLC	1	1	0	0.0	1	100.0	16.0	34.0
TOTAL	44	44	7	15.9	7	31.8	16.0	34.0

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : B1W-02 , PERIOD 1 * PAGE: 27 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NR00 *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29 *
.....
* CATEGORY : B-G-2 PRESSURE RETAINING BOLTS, TWO INCHES AND LESS IN DIAMETER *
* ITEM NO : B7.80 CRD HOUSING BOLTS, STUDS, AND NUTS (<= 2") *
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CRD	137	8	8	100.0	0	100.0	100.0	100.0
TOTAL	137	8	8	100.0	0	100.0	100.0	100.0

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* NUTECH

CAROLINA POWER & LIGHT COMPANY
BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
PLANNING

PRISIM *

INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1
ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING
THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY

* PAGE: 28
* REVISION: NRC0
* DATE: 88/06/29

* CATEGORY : B-H INTEGRAL ATTACHMENTS FOR VESSELS
* ITEM NO : BB.10 RV INTEGRALLY WELDED ATTACHMENTS

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	7	7	2	28.6	0	28.6	16.0	34.0
TOTAL	7	7	2	28.6	0	28.6	16.0	34.0

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY *
* PAGE: 29 *
* REVISION:NRC0 *
* DATE:88/06/29 *
.....
* CATEGORY : B-J PRESSURE RETAINING WELDS IN PIPING *
* ITEM NO : B15.EX EXEMPT CLASS 1 PRESSURE RETAINING COMPONENTS *
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
MS	141	0	0	0.0	0	0.0	0.0	100.0
RCI	1	0	0	0.0	0	0.0	0.0	100.0
TOTAL	142	0	0	0.0	0	0.0	0.0	100.0

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* NUTECH                                CAROLINA POWER & LIGHT COMPANY          PRISIM *
*                                     BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
*                                     PLANNING
*                                     *****
*                                     INSERVICE INSPECTION STATUS REPORT : B1W-02 , PERIOD 1
*                                     ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING
*                                     THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY
*                                     * PAGE: 30 *
*                                     * REVISION:NR00 *
*                                     * DATE:88/06/29 *
*                                     *****
*
* CATEGORY : B-J      PRESSURE RETAINING WELDS IN PIPING
* ITEM NO  : B9.11   CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE >= 4 IN.
*
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CS	48	-----	4	-----	0	-----	16.0	34.0
FW	72	-----	6	-----	0	-----	16.0	34.0
HP	31	-----	2	-----	0	-----	16.0	34.0
JPI	2	-----	0	-----	0	-----	16.0	34.0
MS	101	-----	3	-----	6	-----	16.0	34.0
RCI	13	-----	1	-----	0	-----	16.0	34.0
RCR	106	-----	5	-----	4	-----	16.0	34.0
RHR	77	-----	5	-----	1	-----	16.0	34.0
RPV	5	-----	0	-----	0	-----	16.0	34.0
RWC	22	-----	2	-----	0	-----	16.0	34.0
TOTAL	477	116	28	24.1	11	33.6	16.0	34.0

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
* PLANNING
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 * PAGE: 31 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NRCO *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29 *
.....
* CATEGORY : B-J PRESSURE RETAINING WELDS IN PIPING
* ITEM NO : B9.21 CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE < 4 IN.
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
=====	=====	=====	=====	=====	=====	=====	=====	=====
MS	11	-----	1	-----	0	-----	16.0	34.0
RCI	24	-----	2	-----	0	-----	16.0	34.0
RCR	33	-----	3	-----	0	-----	16.0	34.0
SLC	3	-----	0	-----	0	-----	16.0	34.0
	=====	=====	=====	=====	=====	=====	=====	=====
TOTAL	71	18	6	33.3	0	33.3	16.0	34.0

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
* PLANNING
* INSERVICE INSPECTION STATUS REPORT : B1W-02 , PERIOD 1 * PAGE: 32 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NRCO *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29 *
.....
*
* CATEGORY : B-J PRESSURE RETAINING WELDS IN PIPING
* ITEM NO : B9.31 BRANCH PIPE CONNECTION WELDS, NOMINAL PIPE SIZE >= 4 IN.
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
=====	=====	=====	=====	=====	=====	=====	=====	=====
FW	1	----	0	----	0	----	16.0	34.0
MS	14	----	1	----	0	----	16.0	34.0
RCR	14	----	0	----	1	----	16.0	34.0
RHR	1	----	0	----	0	----	16.0	34.0
	=====	=====	=====	=====	=====	=====	=====	=====
TOTAL	30	7	1	14.3	1	28.6	16.0	34.0

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* HUTCH CAROLINA POWER & LIGHT COMPANY PRISM
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
* PLANNING
* INSERVICE INSPECTION STATUS REPORT : B1W-02 , PERIOD 1
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY
*
* CATEGORY : B-J PRESSURE RETAINING WELDS IN PIPING
* ITEM NO : B9.40 PIPE SOCKET WELDS
*
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RCR	37	-----	0	-----	2	-----	16.0	34.0
RPV	57	-----	4	-----	0	-----	16.0	34.0
RWC	21	-----	3	-----	0	-----	16.0	34.0
SLC	31	-----	2	-----	0	-----	16.0	34.0
TOTAL	146	J7	9	24.3	2	29.7	16.0	34.0


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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
* PLANNING
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 * PAGE: 36 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NR00 *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29 *
.....
* CATEGORY : B-K-1 INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES
* ITEM NO : B10.20 PUMP INTEGRALLY WELDED ATTACHMENTS
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RCR	6	6	2	33.3	0	33.3	16.0	34.0
TOTAL	6	6	2	33.3	0	33.3	16.0	34.0

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* NUTECH                                CAROLINA POWER & LIGHT COMPANY                PRISIM *
*                                     BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
*                                     PLANNING
*   INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1
*   ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING
*   THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY
*                                     * PAGE:          37
*                                     * REVISION: NRC0
*                                     * DATE: 88/06/29
.....
* CATEGORY : B-K-1  INTEGRAL ATTACHMENTS FOR PIPING, PUMPS, AND VALVES
* ITEM NO  : B15.EX  EXEMPT CLASS 1 PRESSURE RETAINING COMPONENTS
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
=====	=====	=====	=====	=====	=====	=====	=====	=====
CS	4	0	0	0.0	0	0.0	0.0	100.0
FW	11	0	0	0.0	0	0.0	0.0	100.0
HP	2	0	0	0.0	0	0.0	0.0	100.0
MS	12	0	0	0.0	0	0.0	0.0	100.0
RCI	2	0	0	0.0	0	0.0	0.0	100.0
RHR	11	0	0	0.0	0	0.0	0.0	100.0
	=====	=====	=====	=====	=====	=====	=====	=====
TOTAL	42	0	0	0.0	0	0.0	0.0	100.0

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* NUTECH                                CAROLINA POWER & LIGHT COMPANY          PRISIM *
*                                     BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
*                                     PLANNING
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1          * PAGE: 36 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING          * REVISION: NRC0 *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY          * DATE: 88/06/29 *
*****
* CATEGORY : B-L-2 PUMP CASINGS
* ITEM NO : B12.20 PUMP CASING
*
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
=====	=====	=====	=====	=====	=====	=====	=====	=====
RCR	2	-----	0	-----	0	-----	0.0	100.0
	=====	=====	=====	=====	=====	=====	=====	=====
TOTAL	2	0	0	-----	0	-----	0.0	100.0

 * NUTECH CAROLINA POWER & LIGHT COMPANY PRISM *
 * BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
 * PLANNING *
 * INSERVICE INSPECTION STATUS REPORT : B1W-02 , PERIOD 1 *
 * ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING *
 * THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY *
 * *
 * CATEGORY : B-M-2 VALVE BODIES *
 * ITEM NO : B12.50 VALVE BODY, EXCEEDING 4 IN. NOMINAL PIPE SIZE *
 * *

SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CS	8	-----	0	0	-----	100.0	100.0
FW	6	-----	2	0	-----	100.0	100.0
HP	3	-----	0	0	-----	100.0	100.0
MS	19	-----	1	0	-----	100.0	100.0
RCR	6	-----	0	0	-----	100.0	100.0
RHR	11	-----	1	0	-----	100.0	100.0
RWC	3	-----	0	0	-----	100.0	100.0
TOTAL	56	4	4	0	100.0	100.0	100.0

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* NUTECH ***** CAROLINA POWER & LIGHT COMPANY ***** PRISIM
* ***** BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *****
* ***** PLANNING *****
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 * PAGE: 40
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NRCO
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29
* *****
* CATEGORY : B-N-1 INTERIOR OF REACTOR VESSEL
* ITEM NO : B13.10 RV VESSEL INTERIOR
* *****

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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	1	3	1	33.3	0	33.3	33.3	34.0
TOTAL	1	3	1	33.3	0	33.3	33.3	34.0

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* NUTECH                                CAROLINA POWER & LIGHT COMPANY                PRISIM *
*                                     BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
*                                     PLANNING
*   INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1
*   ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING
*   THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY
*                                     * PAGE:      41
*                                     * REVISION:NR0
*                                     * DATE:88/06/29
*
*   CATEGOR" : B-N-2   RV INTEGRALLY WELDED CORE SUPPORTS AND ATTACHMENTS (BWR)
*   ITEM NO  : B13.20  RV INTERIOR ATTACHMENTS WITHIN BELTLINE REGION (BWR)
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
=====	=====	=====	=====	=====	=====	=====	=====	=====
RPV	1	1	0	0.0	0	0.0	0.0	100.0
	=====	=====	=====	=====	=====	=====	=====	=====
TOTAL	1	1	0	0.0	0	0.0	0.0	100.0

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* NUTECH                                CAROLINA POWER & LIGHT COMPANY                PRISIM *
*                                     BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
*                                     PLANNING
* INSERVICE INSPECTION STATUS REPORT : B1W-02 , PERIOD 1          * PAGE: 42 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING             * REVISION:NRCO *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY                       * DATE:88/06/29 *
.....
* CATEGORY : B-N-2  RV INTEGRALLY WELDED CORE SUPPORTS AND ATTACHMENTS (BWR)
* ITEM NO  : B13.21  RV INTERIOR ATTACHMENTS BEYOND BELTLINE REGION (BWR)
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
=====	=====	=====	=====	=====	=====	=====	=====	=====
RPV	1	1	0	0.0	0	0.0	0.0	100.0
	=====	=====	=====	=====	=====	=====	=====	=====
TOTAL	1	1	0	0.0	0	0.0	0.0	100.0

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* NUTECH                                CAROLINA POWER & LIGHT COMPANY                PRISM *
*                                     BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
*                                     PLANNING
*                                     INSERVICE INSPECTION STATUS REPORT : 31W-02 , PERIOD 1
*                                     ASME SECYION XI, 1980 EDITION THROUGH AND INCLUDING
*                                     THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY
*                                     * PAGE: 43
*                                     * REVISION: NRC0
*                                     * DATE: 88/06/29
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* CATEGORY : B-N-2  RV INTEGRALLY WELDED CORE SUPPORTS AND ATTACHMENTS (BWR)
* ITEM NO  : B13.22 RV CORE SUPPORT STRUCTURE (BWR)
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
=====	=====	=====	=====	=====	=====	=====	=====	=====
RPV	1	1	0	0.0	0	0.0	0.0	100.0
	=====	=====	=====	=====	=====	=====	=====	=====
TOTAL	1	1	0	0.0	0	0.0	0.0	100.0

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
* PLANNING
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 * PAGE: 44 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NRCD *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29 *
.....
* CATEGORY : B-0 PRESSURE RETAINING WELDS IN CONTROL ROD HOUSING
* ITEM NO : B14.10 RV WELDS IN PERIPHERAL CRD HOUSING
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RPV	274	-----	2	-----	0	-----	0.0	34.0
TOTAL	274	7	2	28.6	0	28.6	0.0	34.0

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* NUTECH                                CAROLINA POWER & LIGHT COMPANY                PRISIM *
*                                     BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
*                                     PLANNING
*                                     .....
* INSERVICE INSPECTION STATUS REPORT : B1W-02 , PERIOD 1          * PAGE: 45 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING            * REVISION:NR00 *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY                      * DATE:88/06/29 *
*
* CATEGORY : C-A    PRESSURE RETAINING WELDS IN PRESSURE VESSELS
* ITEM NO  : C1.10  PRESSURE VESSEL SHELL CIRCUMFERENTIAL WELDS
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
=====	=====	=====	=====	=====	=====	=====	=====	=====
RHR	4	2	1	50.0	0	50.0	0.0	50.0
	=====	=====	=====	=====	=====	=====	=====	=====
TOTAL	4	2	1	50.0	0	50.0	0.0	50.0

71

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT ; 81W-02 , PERIOD 1 * PAGE: 46 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NRCO *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29 *
.....
* CATEGORY : C-A PRESSURE RETAINING WELDS IN PRESSURE VESSELS *
* ITEM NO : C1.20 PRESSURE VESSEL HEAD CIRCUMFERENTIAL WELDS *
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
=====	=====	=====	=====	=====	=====	=====	=====	=====
RHR	2	1	0	0.0	0	0.0	0.0	100.0
=====	=====	=====	=====	=====	=====	=====	=====	=====
TOTAL	2	1	0	0.0	0	0.0	0.0	100.0

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY *
* PAGE: 47 *
* REVISION:NRCO *
* DATE:88/06/29 *
.....
* CATEGORY : C-B PRESSURE RETAINING NOZZLE WELDS IN VESSELS *
* ITEM NO : C2.21 NOZZLE-TO-SHELL(OR HEAD), WELD *
* *
* *
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RHR	4	2	1	50.0	0	50.0	0.0	50.0
TOTAL	4	2	1	50.0	0	50.0	0.0	50.0

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*****
* NUTECH                                CAROLINA POWER & LIGHT COMPANY          PRISIM *
*                                     BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2    *
*                                     PLANNING                                *****
*      INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1                * PAGE:    48 *
*      ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING                   * REVISION:NRCO *
*      THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY                             * DATE:88/06/29 *
*****
*
* CATEGORY : C-B      PRESSURE RETAINING NOZZLE WELDS IN VESSELS             *
* ITEM NO   : C2.22   NOZZLE INSIDE RADIUS SECTION IN VESSELS             *
*
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
=====	=====	=====	=====	=====	=====	=====	=====	=====
RHR	4	2	1	50.0	0	50.0	0.0	50.0
	=====	=====	=====	=====	=====	=====	=====	=====
TOTAL	4	2	1	50.0	0	50.0	0.0	50.0

MSC/88-153

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*****
* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY *
*****
* CATEGORY : C-C INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES *
* ITEM NO : C3.10 PRESSURE VESSEL INTEGRALLY WELDED ATTACHMENTS *
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RHR	8	4	1	25.0	0	25.0	16.0	34.0
TOTAL	8	4	1	25.0	0	25.0	16.0	34.0

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : B1W-02 , PERIOD 1 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY *
* PAGE: 50 *
* REVISION:NRCD *
* DATE:88/06/29 *
.....
* CATEGORY : C-C INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES *
* ITEM NO : C3.20 PIPING INTEGRALLY WELDED ATTACHMENTS *
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
=====	=====	=====	=====	=====	=====	=====	=====	=====
CS	4	4	0	0.0	0	0.0	16.0	34.0
HP	5	5	0	0.0	1	20.0	15.0	34.0
MS	5	5	0	0.0	2	40.0	16.0	34.0
RHR	16	16	4	25.0	1	31.3	16.0	34.0
=====	=====	=====	=====	=====	=====	=====	=====	=====
TOTAL	30	30	4	13.3	4	26.7	16.0	34.0

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISM
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
* PLANNING
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1
* ASME SECTION XI , '980 EDITION THROUGH AND INCLUDING
* THE WINTER 1981 ADDENDA , INTERVAL 02 ONLY
*
* CATEGORY : C-C INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES
* ITEM NO : C7-EX EXEMPT CLASS 2 PRESSURE RETAINING COMPONENTS
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*****
* PAGE: 51
* REVISION:NRCO
* DATE:88/06/29
*****

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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
C-C	2	0	0	0.0	0	0.0	0.0	0.0
HP	1	0	0	0.0	0	0.0	0.0	0.0
RCI	2	0	0	0.0	0	0.0	0.0	0.0
RHR	6	0	0	0.0	0	0.0	0.0	0.0
TOTAL	11	0	0	0.0	0	0.0	0.0	0.0

MSC/88-153

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* NUTECH                                CAROLINA POWER & LIGHT COMPANY          PRISIM *
*                                     BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
*                                     PLANNING
* INSERVICE INSPECTION STATUS REPORT : B1W-02 , PERIOD 1          * PAGE: 52 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING             * REVISION:NRCO *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY                       * DATE:88/06/29 *
*****
* CATEGORY : C-D      PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER
* ITEM NO   : C4.30   PUMP BOLTS AND STUDS                          (> 2")
*
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
HP	17	-----	5	-----	0	-----	16.0	34.0
TOTAL	17	26	5	19.2	0	19.2	16.0	34.0


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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 * PAGE: 53 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NR00 *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29 *
.....
* CATEGORY : C-F-2 PRESSURE RETAINING WELDS IN CARBON/LOW ALLOY STEEL PIPING *
* ITEM NO : C5.51 PIPING CIRC. WELD >= 3/8" NOMINAL WALL THICKNESS & NPS > 4 *
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CRD	32	-----	1	-----	0	-----	16.0	34.0
CS	112	-----	2	-----	0	-----	16.0	34.0
FW	107	-----	2	-----	0	-----	16.0	34.0
HP	130	-----	1	-----	1	-----	16.0	34.0
MS	178	-----	2	-----	2	-----	16.0	34.0
F/CI	4	-----	0	-----	0	-----	16.0	34.0
RHR	442	-----	10	-----	1	-----	16.0	34.0
TOTAL	1005	77	18	23.4	4	28.6	16.0	34.0

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : P1W-02 , PERIOD 1 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY *
* *
* CATEGORY : C-F-2 PRESSURE RETAINING WELDS IN CARBON/LOW ALLOY STEEL PIPING *
* ITEM NO : C5.81 PIPE BRANCH CONNECTION CIRCUMFERENTIAL WELD *
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
Fk	1	-----	1	-----	0	-----	16.0	34.0
MS	5	-----	0	-----	0	-----	16.0	34.0
RHR	5	-----	0	-----	0	-----	16.0	34.0
TOTAL	11	3	1	33.3	0	33.3	16.0	34.0

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
* PLANNING
* INSERVICE INSPECTION STATUS REPORT : B1W-02 , PERIOD 1 * PAGE: 55 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NRCD *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29 *
.....
* CATEGORY : C-F-2 PRESSURE RETAINING WELDS IN CARBON/LOW ALLOY STEEL PIPING
* ITEM NO : C7.EX EXEMPT CLASS 2 PRESSURE RETAINING COMPONENTS
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
CS	19	-----	0	-----	0	-----	0.0	0.0
HP	11	-----	0	-----	0	-----	0.0	0.0
RCI	5	-----	0	-----	0	-----	0.0	0.0
RHR	143	-----	0	-----	0	-----	0.0	0.0
TOTAL	178	0	0	-----	0	-----	0.0	0.0

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
* PLANNING
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 * PAGE: 56 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NRC0 *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29 *
.....
* CATEGORY : D-A SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
* ITEM NO : D1.20 RV SHUTDOWN INTEGRAL ATTACHMENTS - SUPPORTS AND RESTRAINTS
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
=====	=====	=====	=====	=====	=====	=====	=====	=====
RCI	2	2	0	0.0	0	0.0	16.0	34.0
RHR	13	13	4	30.8	0	30.8	16.0	34.0
SW	28	28	6	21.4	2	28.6	16.0	34.0
=====	=====	=====	=====	=====	=====	=====	=====	=====
TOTAL	43	43	10	23.3	2	27.9	16.0	34.0

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2
* PLANNING
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 * PAGE: 57 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NRC0 *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29 *
.....
* CATEGORY : D-A SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION
* ITEM NO : D1.30 RV SHUTDOWN INTEGRAL ATTACHMENTS - SNUBBERS
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
=====	=====	=====	=====	=====	=====	=====	=====	=====
RHR	3	3	0	0.0	1	33.3	16.0	34.0
SW	6	6	1	16.7	1	33.3	16.0	34.0
=====	=====	=====	=====	=====	=====	=====	=====	=====
TOTAL	9	9	1	11.1	2	33.3	16.0	34.0

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 * PAGE: 58 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NRCD *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29 *
.....
* CATEGORY : D-A SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION *
* ITEM NO : D1.40 RV SHUTDOWN INTEGRAL ATTACHMENTS - SPRING TYPE SUPPORTS *
* *
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
RHR	2	-----	1	-----	0	-----	0.0	50.0
TOTAL	2	2	1	50.0	0	50.0	0.0	50.0

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 * PAGE: 59 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NRCO *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29 *
.....
* CATEGORY : D-B ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS *
* ITEM NO : D2.20 ECCS, ETC. INTEGRAL ATTACHMENTS - SUPPORTS AND RESTRAINTS *
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
NB	19	19	1	5.3	4	26.3	16.0	34.0
TOTAL	19	19	1	5.3	4	26.3	16.0	34.0

MSC/88-153

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.....
* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : 81W-02 , PERIOD 1 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY *
* PAGE: 60 *
* REVISION:NRCD *
* DATE:88/06/29 *
.....
* CATEGORY : D-B ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS *
* ITEM NO : D2.30 ECCS, ETC. INTEGRAL ATTACHMENTS - SNUBBERS *
* *
.....

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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
NB	38	38	10	26.3	0	26.3	16.0	34.0
TOTAL	38	38	10	26.3	0	26.3	16.0	34.0

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* NUTECH CAROLINA POWER & LIGHT COMPANY PRISIM *
* BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
* PLANNING *
* INSERVICE INSPECTION STATUS REPORT : B1W-02 , PERIOD 1 * PAGE: 61 *
* ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING * REVISION:NRCD *
* THE WINTER 1981 ADDENDA, INTERVAL 02 ONLY * DATE:88/06/29 *
.....
* CATEGORY : D-B ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS *
* ITEM NO : D2.40 ECCS, ETC. INTEGRAL ATTACHMENTS - SPRING TYPE SUPPORTS *
* *
* *
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SYSTEM	TOTAL COMPONENTS	TOTAL REQUIRING EXAMINATION	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
NB	14	14	1	7.1	3	28.6	16.0	34.0
TOTAL	14	14	1	7.1	3	28.6	16.0	34.0

 * CAROLINA POWER & LIGHT COMPANY *
 * BRUNSWICK STEAM ELECTRIC PLANT - UNIT 2 *
 * *****

INSERVICE INSPECTION STATUS REPORT : 81W-02, PERIOD 1
 ASME SECTION XI, 1980 EDITION THROUGH AND INCLUDING
 THE WINTER 1981 ADDENDA, INTERVAL 2 ONLY

* PAGE: 52 *
 * REVISION:NR00 *
 * DATE:88/06/29 *

 * IWF PROGRAM STATUS *

CATEGORY	TOTAL COMPONENTS	EXAMINED TO DATE	EXAMINED TO DATE (%)	SCHEDULED TO BE EXAMINED	EXAMINED & SCHEDULED (%)	MINIMUM REQUIRED (%)	MAXIMUM ALLOWED (%)
*****	*****	*****	*****	*****	*****	*****	*****
F-A	49	7	14.3	6	26.5	16.0	34.0
F-B	504	76	15.1	78	30.5	16.0	34.0
F-C	644	162	25.2	27	29.3	16.0	34.0

CAROLINA POWER & LIGHT COMPANY, RALEIGH, NC
BRUNSWICK STEAM ELECTRIC PLANT, UNIT 2, SOUTHPORT, NC
COMMERCIAL DATE: NOVEMBER 2, 1975

SECTION 9.0

NIS-2 FORMS

CAROLINA POWER AND LIGHT COMPANY, RALEIGH, NC
BRUNSWICK STEAM ELECTRIC PLANT, UNIT 2, SOUTHPORT, NC
COMMERCIAL DATE: NOVEMBER 2, 1975

9.0 NIS-2 FORMS

- DR 85-023
- DR 85-024
- DR 86-0125
- DR 87-0296
- DR 87-0297
- DR 87-0298
- DR 87-0299
- DR 88-0074
- PM 80-29
- PM 84-004
- PM 84-196
- PM 86-036
- PM 86-106
- PM 87-128
- PM 87-128
- PM 87-128
- PM 87-129
- PM 87-199
- PM 87-226
- TECHNICAL SPECIFICATION T4.7.5
- WR/JO 88-ACWK1

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. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: RHR Heat Exchanger Relief Valve 2-E11-V20

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date May 25, 1988
Name
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
Address
2. Plant Brunswick Steam Electric Plant Unit 2
Name
P.O. Box 10429, Southport, NC 28461 WR/JO 85-AEUD1
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by BSEP Mechanical Maintenance Type Code Symbol Stamp N/A
Name Authorization No. N/A
Site Expiration Date N/A
Address
4. Identification of System RHR
5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, NA Addenda, NA Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 80
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-E11-V20	Dresser Industries/ Deluca Valve and Inst. Co.	NA	NA	Model No. 1975C	NA	Replaced	Yes
2-E11-V20	Dresser Industries/ Deluca Valve and Inst. Co.	TG82571	NA	Model No. 1990C	1985	Replacement	Yes

7. Description of Work Replacement of above valve
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Local Leak Rate Test
 Other Pressure 49 psi Test Temp. 74 °F

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 6 on this 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-2 (Back)

9. Remarks Evaluation performed in DR 85-023

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed David R. Haudest Engineer Technical Support Date May 25 19 88
Owner or Owner's Designee Title

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 Lumbermens Mutual Casualty Company of Long Grove, IL

_____ have inspected the components described in this Owner's Report during the period 5-26-88 to 5-27-88, 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.

Gudy Young Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date May 27 19 88

FORM NIS-2 (Back)

9. Remarks Evaluation performed in DR 85-024.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Daniel R. Hardest Engineer Tech Support Date May 25, 19 88
Owner or Owner's Designee Title

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 Lumbermens Mutual Casualty Company of Long Grove, IL

_____ have inspected the components described in this Owner's Report during the period 5-24-88 to 5-27-88, 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.

Grady Young Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date May 27, 19 88

FORM NIS-2 (Back)

9. Remarks Replaced support as per original Bergen-Patterson drawing.

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Daniel R. Hubert Engineer Technical Support Date May 25, 19 88
Owner or Owner's Designee, Title

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 Lumbermens Mutual Casualty Company of Long Grove, IL

have inspected the components described in this Owner's Report during the period 2-22-88 to 5-26-88, 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.

Grady Young Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date May 26, 19 88

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. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: Valve 2-MS-V49

FORM NIS 2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date June 3, 1988
Name
P.O. Box 1551, Raleigh, NC 27602
Address
2. Plant Brunswick Steam Electric Plant Unit 2
Name
P.O. Box 10429, Southport, NC 28461
Address BSEP WR/JO 86-ARWQ1
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Maintenance Type Code Symbol Stamp N/A
Name Authorization No. N/A
Site Expiration Date N/A
Address
4. Identification of System Main Steam
5. (a) Applicable Construction Code ANSI B31.1 1967 Edition N/A Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 Through W81 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-MS-V49	Velan	*	N/A	P35100-1-30	*	Replaced	NO
2-MS-V49	Conval	HT Code SO	N/A	2-11G3PJ-105	*	Replacement	NO

7. Description of Work Replacement of Valve 2-MS-V49
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure >1005 psi Test Temp. >180 °F

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 6 on this 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-2 (Back)

9. Remarks Replacement per DR 87-0296

Applicable Manufacturer's Data Reports to be attached

* Valve is non-Q-list and, therefore, information was not required

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Daniel R Hardesty
D. R. Hardesty, Engineer, Tech Support Date June 3 19 88
Owner or Owner's Designee, Title

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 Lumbermens Mutual Casualty Company of Long Grove, IL

have inspected the components described in this Owner's Report during the period June 4, 1988 June 14, 1988, 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.

Grady Young Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date June 14 19 88

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. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: Valve 2-MS-V47

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date June 3, 1988
Name
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
Address

2. Plant Brunswick Steam Electric Plant Unit 2
Name
P.O. Box 10429, Southport, NC 28461 BSEP WR/JJ 86-ARKM1
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Maintenance Type Code Symbol Stamp N/A
Name Authorization No. N/A
Site Expiration Date N/A
Address

4. Identification of System Main Steam

5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition: N/A Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 Through W81 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-MS-V47	Velan	*	N/A	P35100-1-30	*	Replaced	NO
2-MS-V47	Conval	HT Code UJ	N/A	2-11G3PJ-105	*	Replacement	NO

7. Description of Work Replacement of Valve 2-MS-V47

8. Tests Conducted Hydrostatic Pneumatic Nominal Operating Pressure
 Or: Pressure >1005 psi Test Temp >180 °F

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 6 on this 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-2 (Back)

9. Remarks Replaced per DR 87-0297

Applicable Manufacturer's Data Reports to be attached

* Valve is non-Q-list and, therefore, information was not required

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Daniel R. Hardesty Date June 3 19 88
Owner or Owner's Designee, Title

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 Lumbermens Mutual Casualty Company
Long Grove, IL

have inspected the components described in this Owner's Report during the period June 4, 1988 to June 14, 1988 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.

Erachy King Commissions NC-990
Inspector's Signature National Board, State, Province, and Endorsements

Date June 14 19 88

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. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: Valve 2-MS-V48

FORM NIS 2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date June 3 1988
Name
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
Address
2. Plant Brunswick Steam Electric Plant Unit 2
Name
P.O. Box 10429, Southport, NC 28461 BSEP WR/JO 86-ARKH1
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Maintenance Type Code Symbol Stamp N/A
Name Authorization No. N/A
Site Expiration Date N/A
Address
4. Identification of System Main Steam
5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, N/A Addenda N/A, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 Through W81 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-MS-V48	Velan	*	N/A	P35100-1-30	*	Replaced	NO
2-MS-V48	Conval	HT Code TA	N/A	2-11G3PJ-105	*	Replacement	NO

7. Description of Work Replacement of Valve 2-MS-V48
8. Tests Conducted Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure >1005 ps Test Temp. >180 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this 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-2 (Back)

B. Remarks Replacement per DR 87-0298

Applicable Manufacturer's Data Reports to be attached

* Valve is non-Q-list and, therefore, information was not required

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed D. R. Hardesty Date June 3 19 88
Owner or Owner's Designee, Title

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 Lumbermens Mutual Casualty Company of Long Grove, IL

have inspected the components described in this Owner's Report during the period June 4, 1988 to June 14, 1988, 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.

Grady Gering Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date June 14 19 88

FORM NIS-2 (Back)

9. Remarks Replacement per DR 87-0299

Applicable Manufacturer's Data Reports to be attached

* Valve is non-Q-list and, therefore, information was not required

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed D.R. Hardesty, Engineer, Tech Support Date June 3 19 88
Owner or Owner's Designee, Title

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 Lumbermens Mutual Casualty Company of Long Grove, IL

have inspected the components described in this Owner's Report during the period June 4, 1988 to June 14, 1988, 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.

Grady Young Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date June 14 19 88

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. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/3/75
6. National Board: N/A
7. Component: Valve 2-C41-F007

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date February 25, 1988
Name
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
Address
2. Plant Brunswick Steam Electric Plant Unit 2
Name
P.O. Box 10429, Southport, NC 28461 Direct Replacement 88-0074 (BSEP)
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by CP&L Mechanical Maintenance Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 10429, Southport, NC 28461 Expiration Date N/A
Address
4. Identification of System Stand-By Liquid Control
5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980/W81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Check Valve	Conval	1202-316	N/A	2-C41-F007	1987	Replaced	N/A

7. Description of Work cut out Velan check valve and replace with Conval check valve
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 1715 psi Test Temp. ambient °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this 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-2 (Back)

9. Remarks WR/JO 88-AC11, Direct Replacement 88-0074

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Daniel Hardeth BSEP Technical Support Date 2-25, 19 88
Owner or Owner's Designee, Title

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 Lumbermens Mutual Casualty Company of Long Grove, IL have inspected the components described in this Owner's Report during the period 2-5-88 to 2-25-88, 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.

Grady Young Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date 2-25 19 88

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. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/3/75
6. National Board: N/A
7. Component: Post Accident Sampling

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 09/07/83
Name
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
Address
2. Plant Brunswick Steam Electric Plant Unit 2
Name
P.O. Box 10429, Southport, NC 28461 BSEP PM 80-29
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Brunswick Engineering Support Unit Pos Code Symbol Stamp N/A
Name Authorization No. N/A
PO Box 11060, Southport, NC 28461 Expiration Date N/A
Address
4. Identification of System Post Accident Sampling
5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, NA Addenda, NA Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 77 S78
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification (Model No.)	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2-RXS-SV-4186	Target Rock Corp.	80L-002-5	NA	80L-002	1981	Replacement	No
2-RXS-SV-4187	"	80L-002-3	NA	80L-002	1981	Replacement	No
2-RXS-SV-4188	"	76-EE-004-16	NA	76-EE-004	1981	Replacement	No
2-RXS-SV-4189	"	76-EE-004-2	NA	76-EE-004	1981	Replacement	No
2-RXS-SV-4192	"	79Q-009-2	NA	79Q-009	1981	Replacement	No

7. Description of Work Install Post Accident Sampling Capability For Reactor Coolant and Containment Atmosphere per NUREG-0737.
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp. _____ °F

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 6 on this 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-2 (Back)

9. Remarks Test details dependent on individual line service fluid, pressure
and temperature. Reference BSEP Plant Mod No. 80-29 for detail.
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed BCV [Signature] PROJECT ENGINEER Date FEB. 20, 1987
Owner or Owner's Designer, Title

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 Lumbermens Mutual Casualty Company of Long Grove, IL have inspected the components described in this Owner's Report during the period 3-7-87 to 3-9-87, 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.

[Signature] Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsement

Date 3-9- 1987

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. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/3/75
6. National Board: N/A
7. Component: Instrument Air Supply to SRVs 2-B21-F013B, E, F, & G

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 6/2/88
Name
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 1
Address
2. Plant Brunswick Steam Electric Plant Unit 2
Name
P.O. Box 10429, Southport, NC 28461 BSEP Plant Mod 84-004
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Brunswick Construction Unit Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 10429, Southport, NC 28461 Expiration Date N/A
Address
4. Identification of System Instrument Air Supply to SRVs 2-B21-F013B, E, F, & G
5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, W81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
4" Pipe, A376 TP304 SMLS	Tioga Pipe Supply Co	N/A	N/A	CP&L P.O. B36635	N/A	Replacement	No
4" Pipe Cap, A403, WP304 SMLS	Tioga Pipe Supply Co	N/A	N/A	CP&L P.O. B36635	N/A	Replacement	No

7. Description of Work Installation of SRV air accumulators 2-B21-A003B, E, F, & G
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 150 psi Test Temp. _____ °F

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 6 on this 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-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed William E. Sullivan
Owner or Owner's Designee, Title

Date 6-3, 19 88

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 Lumbermens Mutual Casualty Company of Long Grove, IL

_____ have inspected the components described in this Owner's Report during the period 6-1-88 to 6-3-88, 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.

J. J. [Signature]
Inspector's Signature

Commissions NB 8095, NC 1007 (NYI)(S)
National Board, State, Province, and Endorsements

Date 6-3- 19 88

- (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 #2
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: November 3, 1975
- (6) National Board No.: N/A
- (7) Component: Residual Heat Removal System, Line 2-E11-90-4-600

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

<p>1. Owner <u>Carolina Power & Light Co.</u> <small>Name</small> <u>P.O. Box 1551, Raleigh, NC 27602</u> <small>Address</small></p> <p>2. Plant <u>Brunswick Steam Electric Plant</u> <small>Name</small> <u>P.O. Box 10429, Southport, NC 28461</u> <small>Address</small></p> <p>3. Work Performed by <u>BCU</u> <small>Name</small> <u>P.O. Box 10429, Southport, NC 28461</u> <small>Address</small></p> <p>4. Identification of System <u>Residual Heat Removal System, Class 1</u> <small>ANSI</small></p> <p>5. (a) Applicable Construction Code <u>831.1</u> <u>67</u> Edition, <u>N/A</u> Addenda, <u>N/A</u> Code Case <small>19</small> <small>80, W81</small></p> <p>5. (b) Applicable Edition of Section XI Utilized for Repairs or Replacements <u>19</u></p> <p>6. Identification of Components Repaired or Replaced and Replacement Components</p>	<p>Date <u>March 10, 1988</u></p> <p>Sheet <u>1</u> of <u>1</u></p> <p>Unit <u>2</u> <u>BSEP Plant Mod 88-002</u> <small>Repair Organization P.O. No., Job No., etc.</small></p> <p>Type Code Symbol Stamp <u>N/A</u></p> <p>Authorization No. <u>N/A</u></p> <p>Expiration Date <u>N/A</u></p>
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Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
6", 1500# Blind Flange	HUB, Inc.	N/A	N/A	2E11-90- 4-600	1988	Replacement	No

7. Description of Work Install a Blind Flange at Reactor Vessel Head Nozzle N-6A

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 1090 psi Test Temp. 183 °F

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 6 on this 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-2 (Back)

9. Remarks Line 2-F11-90-4-600 is removed at the vessel head. It is replaced by
Applicable Manufacturer's Data Reports to be attached
a Blind Flange at vessel head penetration N-6A

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp _____ N/A _____

Certificate of Authorization No. _____ N/A _____ Expiration Date _____ N/A _____

Signed William C. [Signature] _____ Date 3-22 _____, 19 88
Owner or Owner's Designee, Title

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 Lumbermans Mutual Casualty Company of Long Grove, IL have inspected the components described in this Owner's Report during the period 6-1-88 to 6-3-88, 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.

[Signature] _____ Commissions MB 9095 NC 1007 (N)(I)(S)
Inspector's Signature National Board, State, Province, and Endorsements

Date 6-3- _____, 19 88

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 #2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/3/75
6. National Board No.: N/A
7. Component: Non-Interruptible Instrument Air System Piping

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Co. Date 4/29/88
Name
P.O. Box 1551 Raleigh, NC 27602
Address
2. Plant Brunswick Steam Electric Plant Unit 2
Name
P.O. Box 10429 Southport, NC 28461
Address BSEP Plant Modification 84-196
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Brunswick Construction Unit Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 10429 Southport, NC 28461 Expiration Date N/A
Address
4. Identification of System Nitrogen Backup System (RNA)
5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, 1980 Addenda N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 77, S78
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Pipe	McJunkin Corp.	N/A	N/A	PO B30962	N/A	Replacement	No
Reducing Tee	Guyon Alloys	N/A	N/A	PO B30755	N/A	Replacement	No
Coupling	Hub, Inc.	N/A	N/A	PO B30021	N/A	Replacement	No
Socket	Guyon Alloys	N/A	N/A	PO B18150	N/A	Replacement	No
Flange	Guyon Alloys	N/A	N/A	PO B31895	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 137.5 psi Test Temp. 85 °F

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 6 on this 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.

(12/82)

This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM NIS-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed J. E. Vincent, Engineer Date 5-2, 19 88
Owner or Owner's Designee, Title

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 Lumbermens Mutual Casualty Co. of Long Grove, IL have inspected the components described in this Owner's Report during the period 5-4-88 to 5-16-88, 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.

Grady Young Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date 5-16, 19 88

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.
4. OWNER CERTIFICATE OF AUTHORIZATION: N/A
5. COMMERCIAL DATE:
6. NATIONAL BOARD: N/A **FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**
7. COMPONENT: **As Required by the Provisions of the ASME Code Section XI**

1. Owner CAROLINA POWER & LIGHT COMPANY Date FEB. 26, 1988
Name
P.O. BOX 1551, RALEIGH, N.C. 27602 Sheet 1 of 1
Address

2. Plant BRUNSWICK STEAM ELECTRIC PLANT Unit TWO
Name
P.O. BOX 10429, SOUTHPORT, N.C. 28461 PID-00149C, P.M. 86-036
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by BESU/BCU Type Code Symbol Stamp NA
Name Authorization No. NA
BSEP SITE Expiration Date NA
Address

4. Identification of System 2C41, STANDBY LIQUID CONTROL

5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, NA Addenda, NA Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1980 THROUGH WINTER 1981 ADDENDA

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
1 1/2" ORIFICE FLG. 1500 # RF, WN	IDEAL FORGING	NA	NA	HT. CODE B650722 HT. NO. C3004 HT. NO. VO	1987	REPLACEMENT	NO
1 1/2" x 3/4" RED. TEES 3000 # SW	ALLOY STAINLESS PRODUCTS	NA	NA	HT. CODE PX	1987	REPLACEMENT	NO
1 1/2" Ø PIPE SCH. 80S	GUYON ALLOYS	NA	NA	HT. NO. 470603	1986	REPLACEMENT	NO

7. Description of Work ADDITION OF FLOW INDICATING LOOP AND TEST CONNECTIONS

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure 1595 ± 8 psi Test Temp AMBIENT °F

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 6 on this 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.

(12/82)

This Form (E00030) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

BSEP/Vol. XX/ENP-03

Form 6a
Sheet 1 of 2

Rev. 33

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

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed Wayne Williams Date 2-27 19 88
Owner or Owner's Designee, Title

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 LUMBERMENS MUTUAL CASUALTY COMPANY of LONG GROVE, IL. have inspected the components described in this Owner's Report during the period 2-25-88 to 2-27-88 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.

Grady Young Commissions NB 990
Inspector's Signature National Board, State, Province, and Endorsements

Date 2-27 19 88

(12/82)

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 14029, Southport, NC 28461
- (3) Unit No. 2
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date:
- (6) National Board: N/A
- (7) Component: Pipe Support

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 4/8/87
Name
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
Address
2. Plant Brunswick Steam Electric Plant Unit 2
Name
P.O. Box 14029, Southport, NC 28461 PM 86-106
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Brunswick Construction Unit Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 10429, Southport, NC 28461 Expiration Date N/A
Address
4. Identification of System Residual Heat Removal Piping System Class 1B
5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 w/81 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Pipe Support							
2E11-83SS-446	N/A	N/A	N/A	N/A		Replacement	No

7. Description of Work Upgrade support Load Capacity (See Attached)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure (See Attached)
 Other Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this 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-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Charles M. [Signature] Date April 10th, 19 87
Owner or Owner's Designee Title

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 Lumbermens Mutual Casualty Company of Long Grove, IL

have inspected the components described in this Owner's Report during the period 7-30-87 to 7-22-87, 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.

Bradley Young Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date 5-1- 19 87
8 7-22-87

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. Brunswick Unit 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/3/75
6. National Board: N/A
7. Component: Reactor Coolant Recirculation System Welds

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Co. Date February 29, 1988
Name
P.O. Box 1551, Raleigh, NC 27602
Address

2. Plant Brunswick Steam Electric Plant Sheet 1 of 2
Name
P.O. Box 10429, Southport, NC 28461
Address Unit 2
RSEP Plant Mod 87-128
Repair Organization P.O. No., Job No., etc.

3. Work Performed by Brunswick Construction Unit Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 10429, Southport, NC 28461 Expiration Date N/A
Address

4. Identification of System Reactor Coolant Recirculation Piping System Class 1
ANSI

5. (a) Applicable Construction Code B31.1. 19 67 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 w/81 Addenda Code Case N-308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	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 Pressure * psi Test Temp. * °F *See attached

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 6 on this 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-2 (Back)

9. Remarks Exception to Section XI taken with NRC concurrence, Defects
were not repaired but were weld overlay. Applicable Manufacturer's Data Reports to be attached

(See Step 9)

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Barry Kaufe RESPONSIBLE ENGINEER Date MARCH 10 19 88
Owner or Owner's Designee, Title

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 Lumbermens Mutual Casualty Company of Long Grove, IL have inspected the components described in this Owner's Report during the period 2-15-88 to 3-15-88, 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.

Garry Hessing Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date 5-10 19 88

1. Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461 Unit 2
3. Brunswick Construction Unit, P.O. Box 10429, Southport, NC 28461 PM87-128
4. Reactor Coolant Recirculation Piping System Class 1
5. a) ANSI B31.1 1967
b) ASME Sect XI 1980 W 1981 Addenda, Code Case N-308
6. Identification of Components

The following listed Reactor Coolant Recirculation System Welds were worked:

<u>ISI REF. NO.</u>	<u>WELD NO.</u>
12ARD2	2-B32-796
28A4	2-B32-765A
28B3	2-B32-768A
28B4	2-B32-769A

7. Description of work (NOTE: No thru-wall leakage occurred during repairs)
 - a) Weld overlays (new) were performed on:
12ARD2 (2-B32-796)
 - b) Previously overlaid welds upgraded (required additional welding and surface preparation):
28A4 (2-B32-765A)
28B3 (2-B32-768A)
28B4 (2-B32-769A)

8. Hydrostatic Pressure Test

Weld Overlays tested during PT80.1

Pressure 1090 psig Test Temp 190 °F

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 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/3/75
6. National Board: N/A
7. Component: Reactor Coolant Recirculation System Welds

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Co. Date March 1, 1993
Name
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
Address
2. Plant Brunswick Steam Electric Plant Unit 2
Name
P.O. Box 10429, Southport, NC 28461 BSEP Plant Mod 87-128
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by General Electric Company Type Code Symbol Stamp N/A
Name Authorization No. N/A
999 W. Valley Road, Wayne, PA 19087 Expiration Date N/A
Address
4. Identification of System Reactor Pressure Vessel
ASME
5. (a) Applicable Construction Code Sect. III 19 65 Edition, Summer 67 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80 W' 91 Addenda Code Case N432
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	N/A	N/A	N/A	N/A		Repaired	No
*Reactor Pressure Vessel		Nozzle/Safe End (See attached)					

7. Description of Work Repair IGSCC by Weld Overlay (See attached)
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure * psi Test Temp. * °F (See attached)

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 6 on this 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-2 (Back)

9. Remarks Exception taken to Section XI with NRC concurrence.
Applicable Manufacturer's Data Reports to be attached
Defects were not replaced but were weld overlaid.

CERTIFICATE OF COMPLIANCE See Step 9

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Barry Kaufman Responsible Engineer Date March 10, 19 88
Owner or Owner's Designee, Title

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 Lumbermens Mutual Casualty Company of Long Grove, IL have inspected the components described in this Owner's Report during the period 2-15-88 to 3-15-88, 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.

Buddy Young Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date 5-10, 19 88

1. Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461 Unit 2
3. General Electric Company, 999 W. Valley Road, Wayne, PA. 19087, PM 87-128
4. Reactor Pressure Vessel
5. a) ASME Sect. III 1965 w/Summer 1967 Addenda
b) ASME Sect XI 1980 W 1981 Addenda, Code Case N-432
6. Identification of Components

The following listed Reactor Pressure Vessel Nozzle to Safe End weld was repaired:

<u>ISI REF. NO.</u>	<u>WELD NO.</u>
12ARE5	2-B32-795

7. Description of work (NOTE: No thru-wall leakage occurred during repair)

An inconel weld overlay was applied to

12ARE5 (2-B32-795)

8. Hydrostatic Test Pressure

Weld Overlay tested during PT80.1

Pressure 1090 psig Test Temp 190 °F

1. Carolina Power & Light Company, P.O. Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429
3. Unit 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/3/75
6. National Board: N/A
7. Component: Reactor Coolant Recirculation System Welds

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Co. Date March 7, 1988
Name
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 2
Address

2. Plant Brunswick Steam Electric Plant Unit 2
Name
P.O. Box 10429, Southport, NC 28461 BSEP Plant Mod 87-128
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Brunswick Construction Unit Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 10429, Southport, NC 28461 Expiration Date N/A
Address

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

5. a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case
 b) Applicable Edition of Section XI Utilized for Repairs or Replacements is 80 W'81 Addenda Code Case N308

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	N/A	N/A	N/A	N/A		Repaired	No
*	[Penetration Seal Connection (see attached)						

7. Description of Work Repair thru-wall leak on B21 Penetration Seal Connection (see attached)

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

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 6 on this 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-2 (Back)

9. Remarks N/A

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Bam Kemp Responsible Engineer Date March 10, 19 88
Owner or Owner's Designee, Title

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 Lumbermens Mutual Casualty Company of Long Grove IL have inspected the components described in this Owner's Report during the period 2-15-88 to 3-15-88, 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.

Grady Young Commissions NC 990
Inspector Signature National Board, State, Province, and Endorsements

Date 5-10 - 19 88

- (1) Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
- (2) Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461 Unit 2
- (3) Brunswick Construction Unit, P.O. Box 6425, Southport, NC 28461 PM 87-128
- (4) Nuclear Boiler System (B21) Class 1
- (5a) ANSI B31.1 1967
- (5b) ASME Sect. XI 1980W1981 Addenda Code Case N308

(6) Identification of Components

- 1) JPI Pump Instrumentation (JPI) Penetration Seal Connection "B"
N8B Nozzle existing weld no. 10, new weld no. 2B21-1237
- 2) 3/4" cryofit coupling manufactured by Raychem Corp. used to repair line no. 2-B21-737-3/4"-603 (Ref. FSI 7030 sh. 19-8)

(7) Description of Work

- 1) JPI Penetration Seal was repaired per plant mod 87-128 procedures by applying reinforcement to existing weld.
- 2) 3/4" cryofit coupling was installed in Line No. 2B21-737-3/4"-603 to repair cut made to enable draining of line to fix thru wall leak on JPI Penetration Seal Connection.

(8) Hydrostatic Pressure Test

Item 1 & 2 from above to be tested during performance of PT 80.1

Pressure 1090 psig Test Temp. 190 ° F.

1. Carolina Power & Light Co po Box 1551 Raliegh, NC 27602
2. Brunswick Steam Electric Plant PO Box 10429 Southport, NC 28461, Unit 2
3. Brunswick Construction Unit po Box 10429 Southport, NC 28461, PM 87-129
4. Reactor Pressure Vessel Class 1
5. a. ASME Sect III 1965 w/ Summer 1967 Addenda
b. ASME Sect XI 1980 w/ Winter 1981 Addenda

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Co.
Name
P.O. Box 1551, Raleigh, NC 27602
Address

Date March 29, 1988

Sheet 1 of 2

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

Unit 2

BSEP Plant Mod 87-129
Repair Organization P.O. No., Job No., etc

3. Work Performed by BCU
Name
P.O. Box 10429, Southport, NC 28461
Address

Type Code Symbol Stamp N/A

Authorization No. N/A

Expiration Date N/A

4. Identification of System Reactor Pressure Vessel (See Attached Sheet 2)

ASME summer

5. (a) Applicable Construction Code III 19 65 Edition, 67 Addenda, N/A Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 80, W81 addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
*	*	*	*	*	*	Repaired	No
* Reactor Pressure Vessel Nozzle/Safe End (See attached sheet 2)							

7. Description of Work Mechanical Stress Improvement Process to mitigate IGSCC

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
Other Pressure * psi Test Temp. * °F * See Attached Sheet

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 6 on this 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-2 (Back)

9. Remarks Exception taken to Section XI, Nozzles were
Applicable Manufacturer's Data Reports to be attached
Stress Improved using Mechanical Stress Improvement Process,

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Repair conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Barry Kauf Date March 29, 19 88
Owner or Owner's Designee, Title

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 Lumbermens Mutual Casualty Company of Long Grove, IL have inspected the components described in this Owner's Report during the period 5-12-88 to 5-12-88, 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.

Brady Young Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date May 12, 19 88

1. Carolina Power & Light Co., P.O. Box 1551, Raleigh, NC 27602
2. Brunswick Steam Electric Plant, P.O. Box 10429, Southport, NC 28461 Unit 2
3. General Electric Company, 999 W. Valley Road, Wayne, PA. 19087, PM 87-129
4. Reactor Pressure Vessel
5. a) ASME Sect. III 1965 w/Summer 1967 Addenda
 b) ASME Sect XI 1980 W 1981 Addenda, v. Je Case N-432
6. Identification of Components

The following listed Reactor Pressure Vessel Nozzle to Safe End welds were repaired (treated by MSIP)

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Ident.	Year Built	Repaired Replaced Replacement	ASME Code Stamp
Nozzle/ Safe-End	Chicago Bridge & Iron Corp	T-4	3902	12ARA5	1975	Repaired	No
				12ARB5			
				12ARC5			
				12ARD5			
				12ARE5			
				12ARF5			
				12ARG5			
				12ARH5			
				12ARJ5			
				12ARK5			
				28A1			
				28B1			
				10N5A			
				10N5B			
				4N8A			
				4N8B			

7. Description of Work

- 1) All of the above welds were treated by the Mechanical Stress Improvement Process.

8. Hydrostatic Pressure Test:

The above welds to be examined during performance of PT80.1

Pressure 1090 psig Test Temp 190°F

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 #2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/3/75
6. National Board No.: N/A
7. Component: HPCI System Check Valve 2-E41-F049

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Co. Date 3/10/88
Name
P.O. Box 1551, Raleigh, NC 27602
Address Sheet 1 of 1
2. Plant Brunswick Steam Electric Plant Unit 2
Name
P.O. Box 10429, Southport, NC 28461
Address BSEP Plant Modification 87-199
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Brunswick Construction Unit Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 10429, Southport, NC 28461 Expiration Date N/A
Address
4. Identification of System High pressure coolant injection Class 2
5. (a) Applicable Construction Code B31.1 19 67 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80, w/81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Check valve 2-E41-F049	Anchor-Darling	E-A101-1-2	N/A	CP&L P.O. B524934	1986	Replacement	No
Support 2-E41-6VH41	Bergen-Patterson	N/A	N/A	CP&L P.O. 538967	1987	Replacement	No

7. Description of Work Replace valve 2-E41-F049
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure (See Item 9 on back.)
 Other Pressure 188 psi Test Temp. 65 °F

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 6 on this 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-2 (Back)

9. Remarks Discharge side weld 2-E41-339 is tested as shown. Inlet side
weld 2-E41-340 will be visually inspected during the system functional
test. The lack of system isolation/overpressure protection prohibits
a hydrostatic test.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed *Matthew E. Sullivan* Date 6-14, 19 88
Owner or Owner's Designee, Title

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 Lumbermens Mutual Casualty Co. of Long Grove, IL have inspected the components described in this Owner's Report during the period 5-9-88 to 5-12-88, 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.

Grady Young Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date June 14, 19 88

- (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 #2
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: November 3, 1975
- (6) National Board No.: N/A
- (7) Component: Pipe Support

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

<p>1. Owner <u>Carolina Power & Light Co.</u> <small>Name</small> <u>P.O. Box 1551, Raleigh, NC 27602</u> <small>Address</small></p> <p>2. Plant <u>Brunswick Steam Electric Plant</u> <small>Name</small> <u>P.O. Box 10429, Southport, NC 28461</u> <small>Address</small></p> <p>3. Work Performed by <u>Brunswick Construction Unit</u> <small>Name</small> <u>P.O. Box 10429 Southport, NC 28461</u> <small>Address</small></p> <p>4. Identification of System <u>Residual Heat Removal Class 2</u> <small>ANSI</small></p> <p>5. (a) Applicable Construction Code <u>B31.1</u> 19 <u>67</u> Edition, <u>N/A</u> Addenda, <u>N/A</u> Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 <u>80 W*81</u> Addenda</p> <p>6. Identification of Components Repaired or Replaced and Replacement Components</p>	<p>Date <u>April 15, 1988</u></p> <p>Sheet <u>1</u> of <u>2</u></p> <p>Unit <u>2</u></p> <p><u>BSEP Plant Mod 87-226</u> <small>Repair Organization P.O. No., Job No., etc.</small></p> <p>Type Code Symbol Stamp <u>N/A</u> Authorization No. <u>N/A</u> Expiration Date <u>N/A</u></p>
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Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Pipe Support							
2E11-21A75	Brown & Root/CP&L	BP-20675	N/A	2E11-21-14-300	1975	Repair	No
2E11-89A471	Brown & Root/CP&L	BP-25471	N/A	2E11-89-4-300	1975	Repair	No

7. Description of Work Upgrade support local capacity (see attached)

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

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 6 on this 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-2 (Back)

N/A

9. Remarks

Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Robert L. Rawson STRUCT. ENGR Date 4/15/88, 1988
Owner or Owner's Designee, Title

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 Lumbermens Mutual Casualty Company of Long Grove, IL have inspected the components described in this Owner's Report during the period 6-22-88 to 6-28-88, 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.

Grady Young Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date 6-28 19 88

- (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 #2
- (4) Owner Certificate of Authorization: N/A
- (5) Commercial Date: November 3, 1975
- (6) National Board No.: N/A
- (7) Component: Pipe Support

1. Carolina Power & Light Co. April 15, 1988
P.O. Box 1551, Raleigh, NC 27602 Sheet 2 of 2
2. Brunswick Steam Electric Plant
P.O. Box 10429, Southport, NC 28461 BSEP Plant Mod 87-226
3. BCU
P.O. Box 10429, Southport, NC 28461
4. Residual Heat Removal, Class 2
7. Pipe support 2E11-21A75 and 2E11-89A471 were repaired to upgrade the capacity of the support and misc. steel which were installed during original construction.
8. Test Conducted: VT-3 for supports.

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. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: Snubbers

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date June 20, 1988
Name
P.O. Box 1551, Raleigh, NC 27602 Sheet 1 of 15
Address
2. Plant Brunswick Steam Electric Plant Unit 2
Name
P.O. Box 10429, Southport, NC 28461 See "Other Identification" below
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by CP&L Mechanical Maintenance Type Code Symbol Stamp N/A
Name Authorization No. N/A
BSEP - Southport, NC 28461 Expiration Date N/A
Address
4. Identification of System See "Name of Component"
5. (a) Applicable Construction Code ANSI B31.1 19 67 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 80W81
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2E11-5SS398	Bergen Paterson	N/A	N/A	WR/J0 87-AYHK1 BSEP 1271	1987	Replacement	No
2E11-5SS902	Bergen Paterson	N/A	N/A	WR/J0 87-AYHK1 BSEP 397	1987	Replacement	No
2E11-132SS414	Bergen Paterson	N/A	N/A	WR/J0 87-AYHK1 BSEP 720	1986	Replacement	No
2E11-89SS480	Bergen Paterson	N/A	N/A	WR/J0 87-AYHK1 BSEP 1326	1987	Replacement	No
2E11-89SS489	Bergen Paterson	N/A	N/A	WR/J0 87-AYHK1 BSEP 1391	1987	Replacement	No

7. Description of Work Snubber Replacement
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure N/A psi Test Temp. N/A °F

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 6 on this 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-2 (Back)

9. Remarks Technical Specification T4.7.5
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed L. D. Whately Project Engineer Date 6-29-88 1988
Owner or Owner's Designee, Title

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 Lumbermens Mutual Casualty Company of Long Grove, IL have inspected the components described in this Owner's Report during the period 6-24-88 to 6-28-88, 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.

Gudy Spring Commissions NC 990
Inspector's Signature National Board, State, Province, and Endorsements

Date 6-29 1988

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.: 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: Snubbers

Sheet 2 of 15

Unit 2

See "Other Identification" below
Repair Organization PO No.,
Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2E11-89SS491	Bergen Paterson	N/A	N/A	WR/JO 87-AYHK1 BSEP 1684	1986	Repaired	No
2E11-58SS514	Bergen Paterson	N/A	N/A	WR/JO 87-AYHK1 BSEP 1400	1987	Replacement	No
2E11-49SS515	Bergen Paterson	N/A	N/A	WR/JO 87-AYHK1 BSEP 605	1987	Replacement	No
2E11-132SS619	Bergen Paterson	N/A	N/A	WR/JO 87-AYHK1 BSEP 1751	1986	Replacement	No
2E41-44SS86	Bergen Paterson	N/A	N/A	WR/JO 88-ABDX1 BSEP 949	1987	Repaired & Replacement	No
2E41-44SS98	Bergen Paterson	N/A	N/A	WR/JO 88-ABDR1 BSEP 1257	1987	Replacement	No
2E41-61SS99	Bergen Paterson	N/A	N/A	WR/JO 87-AYHY1 BSEP 517	1987	Replacement	No
2E41-60SS101	Bergen Paterson	N/A	N/A	WR/JO 88-ABDS1 BSEP 670	1987	Replacement	No
2E41-2SS106	Bergen Paterson	N/A	N/A	WR/JO ABDT1 BSEP 478	1987	Replacement	No
2SW-142SS163	Bergen Paterson	N/A	N/A	WR/JO 88-ABYZ1 BSEP 1377	1987	Replacement	No
2G41-5SS152	Bergen Paterson	N/A	N/A	WR/JO 88-ADXC1 BSEP 1314	1987	Replacement	No
2E21-25SS96	Bergen Paterson	N/A	N/A	WR/JO 87-BATU1 BSEP 487	1987	Replacement	No
2G41-12SS32	Bergen Paterson	N/A	N/A	WR/JO 88-ADXB1 BSEP 1527	1987	Replacement	No
2E21-7SS54	Bergen Paterson	N/A	N/A	WR/JO 88-ADPP1 BSEP 503	1987	Replacement	No
2B21-PS-3554	Bergen Paterson	N/A	N/A	WR/JO 87-BAWT1 BSEP 545	1987	Replacement	No
2B21-PS-3722A	Bergen Paterson	N/A	N/A	WR/JO 87-BAWT1 BSEP 1402	1987	Replacement	No
2B21-PS-3722B	Bergen Paterson	N/A	N/A	WR/JO 87-BAWT1 BSEP 157	1987	Replacement	No

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.: 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: Snubbers

Sheet 3 of 15

Unit 2

See "Other Identification" below
 Repair Organization PO No.,
 Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2E11-90SS267	Bergen Paterson	N/A	N/A	WR/JO 87-BAUN1 BSEP 485	1987	Replacement	No
2E11-90SS268	Bergen Paterson	N/A	N/A	WR/JO 87-BAUN1 BSEP 1435	1987	Replacement	No
2E11-90SS271	Bergen Paterson	N/A	N/A	WR/JO 87-BAUN1 BSEP 403	1987	Replacement	No
2E11-90SS274	Bergen Paterson	N/A	N/A	WR/JO 87-BAUN1 BSEP 1115	1987	Replacement	No
2E11-90SS275	Bergen Paterson	N/A	N/A	WR/JO 87-BAUN1 BSEP 502	1987	Replacement	No
2E11-1SS302	Bergen Paterson	N/A	N/A	WR/JO 88-ACBM1 BSEP 915	1987	Replacement	No
2E11-1SS303	Bergen Paterson	N/A	N/A	WR/JO 88-ACBM1 BSEP 1354	1987	Replacement	No
2E11-1SS305	Bergen Paterson	N/A	N/A	WR/JO 88-ACBM1 BSEP 1747	1987	Replacement	No
2E11-1SS306	Bergen Paterson	N/A	N/A	WR/JO 88-ACBM1 BSEP 326	1987	Replacement	No
2E11-84SS309	Bergen Paterson	N/A	N/A	WR/JO 88-ACBM1 BSEP 1343	1987	Replacement	No
2E11-87SS315	Bergen Paterson	N/A	N/A	WR/JO 87-AYHJ1 BSEP 1913	1987	Replacement	No
2B21-11SS221	Bergen Paterson	N/A	N/A	WR/JO 87-BAUG1 BSEP 183	1987	Replacement	No
2B21-27SS267	Bergen Paterson	N/A	N/A	WR/JO 87-BAUG1 BSEP 296	1987	Replacement	No
2B21-12SS310	Bergen Paterson	N/A	N/A	WR/JO 87-BAUG1 BSEP 1445	1987	Replacement	No
2B21-3SS11	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1145	1987	Replacement	No
2B21-5SS17	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1059	1987	Replacement	No
2B21-5SS18	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1164	1987	Replacement	No

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.: 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: Snubbers

Sheet 4 of 15

Unit 2

See "Other Identification" below
 Repair Organization PO No.,
 Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2B21-6SS20	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1095	1987	Replacement	No
2B21-6SS25	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1890	1987	Replacement	No
2B21-19SS190	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1574	1987	Replacement	No
2B21-19SS192	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1141	1987	Replacement	No
2B21-19SS193	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1414	1987	Replacement	No
2B21-19SS194	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 248	1987	Replacement	No
2B21-19SS195	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1076	1987	Replacement	No
2B21-19SS196	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1046	1987	Replacement	No
2B21-19SS199	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1269	1988	Replacement	No
2B21-26SS201	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 422	1987	Replacement	No
2B21-26SS203	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 245	1987	Replacement	No
2B21-26SS204	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1100	1987	Replacement	No
2B21-26SS206	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1239	1988	Replacement	No
2B21-26SS208	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1074	1987	Replacement	No
2B21-18SS212	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1160	1987	Replacement	No
2B21-18SS213	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1446	1987	Replacement	No
2B21-18SS215	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1204	1987	Replacement	No

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.: 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: Snubbers

Sheet 5 of 15

Unit 2

See "Other Identification" below
 Repair Organization PO No.,
 Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2B21-18SS216	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 82	1987	Replacement	No
2B21-11SS220	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 1921	1987	Replacement	No
2B21-11SS225	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 1342	1988	Replacement	No
2B21-1SS228	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 81	1987	Replacement	No
2B21-2SS229	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 1352	1987	Replacement	No
2B21-2SS230	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 1507	1987	Replacement	No
2B21-3SS231	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 247	1987	Replacement	No
2B21-3SS232	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 1083	1987	Replacement	No
2B21-3SS233	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 1009	1987	Replacement	No
2B21-3SS234	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 576	1987	Replacement	No
2B21-3SS235	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 1219	1987	Replacement	No
2B21-4SS236	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 109	1987	Replacement	No
2B21-4SS237	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 1153	1987	Replacement	No
2B21-5SS238	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 104	1987	Replacement	No
2B21-5SS239	Bergen Paterson	N/A	N/A	WR/JC 87-BAUP1 BSEP 1039	1987	Replacement	No
2B21-6SS240	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 1097	1987	Replacement	No
2B21-6SS241	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 84	1987	Replacement	No

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.: 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: Snubbers

Sheet 6 of 15

Unit 2

See "Other Identification" below
 Repair Organization PO No.,
 Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2B21-65S242	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1474	1987	Replacement	No
2B21-65S243	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 470	1987	Replacement	No
2B21-65S244	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1255	1987	Replacement	No
2B21-33S245	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1920	1987	Replacement	No
2B21-33S246	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1096	1987	Replacement	No
2B21-33S249	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 752	1987	Replacement	No
2B21-33S251	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 319	1987	Replacement	No
2B21-20S258	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 564	1987	Replacement	No
2B21-20S260	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 871	1987	Replacement	No
2B21-20S261	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 861	1987	Replacement	No
2B21-20S262	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1523	1987	Replacement	No
2B21-27S268	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1919	1987	Replacement	No
2B21-27S270	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1931	1987	Replacement	No
2B21-27S272	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1142	1987	Replacement	No
2B21-58S276	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1922	1987	Replacement	No
2B21-58S277	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1158	1987	Replacement	No
2B21-58S279	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1099	1987	Replacement	No

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.: 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: Snubbers

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Unit 2

See "Other Identification" below
 Repair Organization PO No.,
 Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2B21-12SS288	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 528	1987	Replacement	No
2B21-12SS290	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 103	1987	Replacement	No
2B21-34SS299	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1917	1987	Replacement	No
2B21-34SS300	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 3SEP 1924	1987	Replacement	No
2B21-58SS306	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1916	1987	Replacement	No
2B21-19SS317	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1918	1987	Replacement	No
2B21-59SS325	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1928	1987	Replacement	No
2B21-59SS326	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1915	1987	Replacement	No
2B21-59SS327	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1921	1987	Replacement	No
2B21-59SS329	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1058	1987	Replacement	No
2B21-33SS332	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1929	1987	Replacement	No
2B21-33SS335	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1930	1987	Replacement	No
2B21-33SS337	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1521	1987	Replacement	No
2B21-11SS341	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1925	1987	Replacement	No
2B21-11SS344	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 312	1987	Replacement	No
2B21-59SS356	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1544	1987	Replacement	No
2B21-51SS103	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1465	1987	Replacement	No

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.: 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: Snubbers

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Unit 2

See "Other Identification" below
 Repair Organization PO No.,
 Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2B21-50SS109	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 1246	1987	Replacement	No
2B21-44SS129	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 74	1987	Replacement	No
2B21-44SS131	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 1473	1987	Replacement	No
2B21-44SS134	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 1292	1987	Replacement	No
2B21-44SS136	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 72	1987	Replacement	No
2B21-44SS137	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 61	1987	Replacement	No
2B21-44SS138	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 703	1987	Replacement	No
2B21-44SS141	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 1243	1987	Replacement	No
2B21-44SS142	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 1022	1987	Replacement	No
2B21-44SS143	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 1288	1987	Replacement	No
2B21-44SS146	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 574	1987	Replacement	No
2B21-44SS147	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 359	1987	Replacement	No
2B21-44SS149	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 60	1987	Replacement	No
2B21-44SS150	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 1369	1987	Replacement	No
2B21-47SS155	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 1394	1987	Replacement	No
2B21-47SS156	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 76	1987	Replacement	No
2B21-47SS157	Bergen Paterson	N/A	N/A	WR/J0 87-BAUP1 BSEP 1126	1987	Replacement	No

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.: 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: Snubbers

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Unit 2

See "Other Identification" below
 Repair Organization PO No.,
 Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2B21-701SS164	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1171	1987	Replacement	No
2B21-701SS167	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 52	1987	Replacement	No
2B21-701SS169	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 333	1987	Replacement	No
2B21-701SS170	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1361	1987	Replacement	No
2B21-701SS171	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 110	1987	Replacement	No
2B21-701SS172	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 645	1987	Replacement	No
2B21-701SS175	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 696	1987	Replacement	No
2B21-701SS177	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1215	1987	Replacement	No
2B21-701SS178	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1120	1987	Replacement	No
2B21-701SS179	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 286	1987	Replacement	No
2B21-701SS184	Bergen Paterson	N/A	N/A	WR/JO 87-BAUP1 BSEP 1005	1987	Replacement	No
2RCC-60SS122	Bergen Paterson	N/A	N/A	WR/JO 88-ACLK1 BSEP 1364	1987	Replacement	No
2RCC-65SS128	Bergen Paterson	N/A	N/A	WR/JO 88-ACLK1 BSEP 1030	1987	Replacement	No
2RCC-65SS129	Bergen Paterson	N/A	N/A	WR/JO 88-ACLK1 BSEP 1699	1987	Replacement	No
2RCC-71SS139	Bergen Paterson	N/A	N/A	WR/JO 88-ACLK1 BSEP 426	1987	Replacement	No
2RCC-73SS145	Bergen Paterson	N/A	N/A	WR/JO 88-ACLK1 BSEP 631	1987	Replacement	No
2RCC-19SS157	Bergen Paterson	N/A	N/A	WR/JO 88-ACLK1 BSEP 1389	1987	Replacement	No

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.: 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: Snubbers

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Unit 2

See "Other Identification" below
 Repair Organization PO No.,
 Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2RCC-19SS160	Bergen Paterson	N/A	N/A	WR/JO 88-ACLK1 BSEP 683	1987	Replacement	No
2E21-3SS47	Bergen Paterson	N/A	N/A	WR/JO 88-ACBW1 BSEP 1305	1987	Replacement	No
2B21-34SS298	Bergen Paterson	N/A	N/A	WR/JO 88-ADFH1 BSEP 1934	1988	Replacement	No
2B21-12SS287	Bergen Paterson	N/A	N/A	WR/JO 88-AEXN1 BSEP 1740	1986	Replacement	No
2B21-58SS281	Bergen Paterson	N/A	N/A	WR/JO 88-ABED1 BSEP 1061	1987	Replacement	No
2B21-58SS280	Bergen Paterson	N/A	N/A	WR/JO 88-AAUU1 BSEP 1268	1988	Replacement	No
2B21-27SS269	Bergen Paterson	N/A	N/A	WR/JO 88-ABEG1 BSEP 275	1987	Replacement	No
2B21-20SS256	Bergen Paterson	N/A	N/A	WR/JO 88-AAUT1 BSEP 878	1987	Replacement	No
2B21-33SS248	Bergen Paterson	N/A	N/A	WR/JO 88-AAUS1 BSEP 321	1987	Replacement	No
2B21-11SS223	Bergen Paterson	N/A	N/A	WR/JO 88-ABEF1 BSEP 1162	1987	Replacement	No
2B21-18SS211	Bergen Paterson	N/A	N/A	WR/JO 88-ADQA1 BSEP 379	1987	Replacement	No
2B21-6SS27	Bergen Paterson	N/A	N/A	WR/JO 88-ABWD1 BSEP 445	1987	Replacement	No
2B21-3SS6	Bergen Paterson	N/A	N/A	WR/JO 88-AAUN1 BSEP 165	1987	Replacement	No
2E11-90SS388	Bergen Paterson	N/A	N/A	WR/JO 88-ADJB1 BSEP 1240	1987	Replacement	No
2E11-84SS311	Bergen Paterson	N/A	N/A	WR/JO 88-ABWH1 BSEP 1206	1987	Replacement	No
2E51-43SS04	Bergen Paterson	N/A	N/A	WR/JO 88-ACTX1 BSEP 1385	1987	Replacement	No
2E51-43SS100	Bergen Paterson	N/A	N/A	WR/JO 88-ABEC1 BSEP 939	1987	Replacement	No

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.: 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: Snubbers

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Unit 2

See "Other Identification" below
 Repair Organization PO No.,
 Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2E41-4SS51	Bergen Paterson	N/A	N/A	WR/J0 88-AEXQ1 BSEP 1067	1987	Replacement	No
2C41-9SS8	Bergen Paterson	N/A	N/A	WR/J0 88-ACTF1 BSEP 1438	1987	Replacement	No
2SW-153SS102	Bergen Paterson	N/A	N/A	WR/J0 87-AZYR1 BSEP 562	1986	Replacement	No
2SW-153SS109	Bergen Paterson	N/A	N/A	WR/J0 87-AZYR1 BSEP 757	1986	Replacement	No
2SW-153SS115	Bergen Paterson	N/A	N/A	WR/J0 87-AZYR1 BSEP 139	1986	Replacement	No
2SW-103SS117	Bergen Paterson	N/A	N/A	WR/J0 87-AZYR1 BSEP 1079	1986	Replacement	No
2SW-103SS121	Bergen Paterson	N/A	N/A	WR/J0 87-AZYR1 BSEP 1575	1987	Replacement	No
2SW-103SS126	Bergen Paterson	N/A	N/A	WR/J0 87-AZYR1 BSEP 122	1986	Replacement	No
2SW-103SS127	Bergen Paterson	N/A	N/A	WR/J0 87-AZYR1 BSEP 351	1986	Replacement	No
2SW-103SS131	Bergen Paterson	N/A	N/A	WR/J0 87-AZYR1 BSEP 708	1986	Replacement	No
2SW-106SS151	Bergen Paterson	N/A	N/A	WR/J0 87-AZYR1 BSEP 276	1986	Replacement	No
2SW-106SS156	Bergen Paterson	N/A	N/A	WR/J0 87-AZYR1 BSEP 547	1986	Replacement	No
2SW-106SS212	Bergen Paterson	N/A	N/A	WR/J0 87-AZYR1 BSEP 410	1987	Replacement	No
2SW-106SS213	Bergen Paterson	N/A	N/A	WR/J0 87-AZYR1 BSEP 107	1986	Replacement	No
2SW-106SS214	Bergen Paterson	N/A	N/A	WR/J0 87-AZYR1 BSEP 140	1986	Replacement	No
2SW-142SS164	Bergen Paterson	N/A	N/A	WR/J0 87-AYGZ1 BSEP 1584	1987	Replacement	No
2E11-53SS962	Bergen Paterson	N/A	N/A	WR/J0 87-AZYW1 BSEP 1362	1987	Replacement	No

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.: 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: SSubbers

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Unit 2

See "Other Identification" below
Repair Organization PO No.,
Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2E11-53SS463	Bergen Paterson	N/A	N/A	WR/J0 87-AZYW1 BSEP 1359	1987	Replacement	No
2E11-53SS464	Bergen Paterson	N/A	N/A	WR/J0 87-AZYW1 BSEP 1112	1987	Replacement	No
2E11-53SS465	Bergen Paterson	N/A	N/A	WR/J0 87-AZYW1 BSEP 1478	1987	Replacement	No
2E11-53SS466	Bergen Paterson	N/A	N/A	WR/J0 87-AZYW1 BSEP 1108	1987	Replacement	No
2E11-56SS13	Bergen Paterson	N/A	N/A	WR/J0 87-AZYT1 BSEP 154	1986	Replacement	No
2E11-35SS361	Bergen Paterson	N/A	N/A	WR/J0 87-AZYU1 BSEP 751	1985	Replacement	No
2E11-91SS99	Bergen Paterson	N/A	N/A	WR/J0 87-AZYU1 BSEP 1749	1987	Replacement	No
2E11-56SS15	Bergen Paterson	N/A	N/A	WR/J0 87-AYHJ1 BSEP 1646	1987	Replacement	No
2E11-47S326	Bergen Paterson	N/A	N/A	WR/J0 87-AYHJ1 BSEP 1456	1987	Replacement	No
2E11-47SS328	Bergen Paterson	N/A	N/A	WR/J0 87-AYHJ1 BSEP 413	1986	Replacement	No
2CO-202SS12	Bergen Paterson	N/A	N/A	WR/J0 88-ABZW1 BSEP 644	1987	Replacement	No
2E11-53SS197	Bergen Paterson	N/A	N/A	WR/J0 87-AYHS1 BSEP 579	1987	Replacement	No
2E11-60SS443	Bergen Paterson	N/A	N/A	WR/J0 87-AYHS1 BSEP 1245	1987	Replacement	No
2E11-132SS618	Bergen Paterson	N/A	N/A	WR/J0 88-ADXH1 BSEP 1750	1986	Repaired & Replacement	No
2E11-18SS469	Bergen Paterson	N/A	N/A	WR/J0 88-ABTC1 BSEP 1392	1987	Replacement	No
2E11-89SS487	Bergen Paterson	N/A	N/A	WR/J0 88-ABZC1 BSEP 1469	1987	Replacement	No
2E11-56SS504	Bergen Paterson	N/A	N/A	WR/J0 88-ABTD1 BSEP 1025	1987	Replacement	No

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.: 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: Snubbers

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Unit 2

See "Other Identification" below
Repair Organization PO No.,
Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2E11-56SS505	Bergen Paterson	N/A	N/A	WR/JO 88-ABTE1 BSEP 1218	1987	Replacement	No
2E11-46SS512	Bergen Paterson	N/A	N/A	WR/JO 88-ABTF1 BSEP 1526	1987	Replacement	No
2E11-50SS468	Bergen Paterson	N/A	N/A	WR/JO 88-ABTA1 BSEP 1054	1987	Replacement	No
2E11-45SS422	Bergen Paterson	N/A	N/A	WR/JO 88-ADYH1 BSEP 1334	1987	Replacement	No
2E11-2SS397	Bergen Paterson	N/A	N/A	WR/JO 88-AFPB1 BSEP 630	1987	Repaired & Replacement	No
2E11-132SS264	Bergen Paterson	N/A	N/A	WR/JO 88-AADE1 BSEP 1287	1987	Replacement	No
2E11-131SS255	Bergen Paterson	N/A	N/A	WR/JO 88-ADYG1 BSEP 1356	1987	Replacement	No
2E11-58SS36	Bergen Paterson	N/A	N/A	WR/JO 88-AADF1 BSEP 1148	1987	Replacement	No
2E11-58SS33	Bergen Paterson	N/A	N/A	WR/JO 88-AECX1 BSEP 1489	1984	Replacement	No
2E11-95SS20	Bergen Paterson	N/A	N/A	WR/JO 87-BMTA1 BSEP 131	1986	Repaired & Replacement	No
2SW-106SS211	Bergen Paterson	N/A	N/A	WR/JO 88-ACQD1 BSEP 1114	1987	Replacement	No
2E11-46SS7	Bergen Paterson	N/A	N/A	WR/JO 88-ABSZ1 BSEP 1121	1987	Replacement	No
2E51-42SS76	Bergen Paterson	N/A	N/A	WR/JO 88-ABRR1 BSEP 376	1987	Replacement	No
2E21-7SS55	Bergen Paterson	N/A	N/A	WR/JO 88-AJQD1 BSEP 1742	1987	Replacement	No
2E51-41SS89	Bergen Paterson	N/A	N/A	WR/JO 88-AAUX1 BSEP 1324	1987	Replacement	No
2RCC-38SS81	Bergen Paterson	N/A	N/A	WR/JO 88-AAAI1 BSEP 1189	1987	Replacement	No
2RCC-6SS107	Bergen Paterson	N/A	N/A	WR/JO 88-AAHP1 BSEP 1085	1988	Replacement	No

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.: 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: Snubbers

Sheet 14 of 15

Unit 2

See "Other Identification" below
 Repair Organization PO No.,
 Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2RCC-47SS167	Bergen Paterson	N/A	N/A	WR/J0 88-AAAT1 BSEP 409	1987	Replacement	No
2RCC-48SS169	Bergen Paterson	N/A	N/A	WR/J0 88-ABUP1 BSEP 810	1988	Replacement	No
2PSN-D2SS69	Bergen Paterson	N/A	N/A	WR/J0 88-ABE11 BSEP 1062	1987	Replacement	No
2E41-2SS5	Bergen Paterson	N/A	N/A	WR/J0 87-AZYN1 BSEP 672	1986	Replacement	No
2E41-60SS9	Bergen Paterson	N/A	N/A	WR/J0 87-AZYN1 BSEP 876	1987	Replacement	No
2E41-20SS15	Bergen Paterson	N/A	N/A	WR/J0 87-AZYN1 BSEP 874	1987	Replacement	No
2E41-6SS27	Bergen Paterson	N/A	N/A	WR/J0 87-AZYN1 BSEP 341	1986	Replacement	No
2E41-6SS28	Bergen Paterson	N/A	N/A	WR/J0 87-AZYN1 BSEP 1739	1986	Replacement	No
2E41-6SS30	Bergen Paterson	N/A	N/A	WR/J0 87-AZYN1 BSEP 1732	1986	Replacement	No
2E41-6SS32	Bergen Paterson	N/A	N/A	WR/J0 87-AZYN1 BSEP 1744	1986	Replacement	No
2E41-6SS33	Bergen Paterson	N/A	N/A	WR/J0 87-AZYN1 BSEP 1644	1986	Replacement	No
2E41-6SS35	Bergen Paterson	N/A	N/A	WR/J0 87-AZYN1 BSEP 197	1986	Replacement	No
2E41-6SS36	Bergen Paterson	N/A	N/A	WR/J0 87-AZYN1 BSEP 126	1986	Replacement	No
2E41-6SS37	Bergen Paterson	N/A	N/A	WR/J0 87-AZYN1 BSEP 167	1987	Replacement	No
2E41-6SS38	Bergen Paterson	N/A	N/A	WR/J0 87-AZYN1 BSEP 603	1986	Replacement	No
2E41-6SS40	Bergen Paterson	N/A	N/A	WR/J0 87-AZYN1 BSEP 88	1986	Replacement	No
2E41-6SS42	Bergen Paterson	N/A	N/A	WR/J0 87-AZYN1 BSEP 1146	1987	Replacement	No

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.: 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: November 3, 1975
6. National Board: N/A
7. Component: Snubbers

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Unit 2

See "Other Identification" below
 Repair Organization PO No.,
 Job No., etc.

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
2E41-60SS52	Bergen Paterson	N/A	N/A	WR/JO 87-AZYN1 BSEP 601	1986	Replacement	No
2E41-60SS64	Bergen Paterson	N/A	N/A	WR/JO 87-AZYN1 BSEP 701	1987	Replacement	No
2E41-61SS71	Bergen Paterson	N/A	N/A	WR/JO 87-AZYN1 BSEP 501	1987	Replacement	No
2E41-61SS72	Bergen Paterson	N/A	N/A	WR/JO 87-AZYN1 BSEP 469	1987	Replacement	No
2E41-61SS73	Bergen Paterson	N/A	N/A	WR/JO 87-AZYN1 BSEP 1515	1987	Replacement	No
2E41-21SS76	Bergen Paterson	N/A	N/A	WR/JO 87-AZYN1 BSEP 218	1987	Replacement	No
2E41-21SS77	Bergen Paterson	N/A	N/A	WR/JO 87-AZYN1 BSEP 839	1987	Replacement	No
2E41-44SS84	Bergen Paterson	N/A	N/A	WR/JO 87-AZYN1 BSEP 1306	1987	Replacement	No
2SW-133SS22	Bergen Paterson	N/A	N/A	WR/JO 87-AZYQ1 BSEP 75	1986	Replacement	No
2SW-110SS35	Bergen Paterson	N/A	N/A	WR/JO 87-AZYQ1 BSEP 1741	1986	Replacement	No
2SW-142SS74	Bergen Paterson	N/A	N/A	WR/JO 87-AZYQ1 BSEP 309	1986	Replacement	No
2SW-142SS75	Bergen Paterson	N/A	N/A	WR/JO 87-AZYQ1 BSEP 1458	1987	Replacement	No

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. 2
4. Owner Certificate of Authorization: N/A
5. Commercial Date: 11/3/75
6. National Board: N/A
7. Component: Hanger 2-C41-9VH9

FORM NIS 2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date February 25, 1988
Name
P.O. Box 1551, Raleigh, NC 27602
Address Sheet 1 of 1
2. Plant Brunswick Steam Electric Plant Unit 2
Name
P.O. Box 10429, Southport, NC 28461
Address BSEP WR/JO 88-ACWK1
Repair Organization P.O. No., Job No., etc.
3. Work Performed by CP&L Mechanical Maintenance Type Code Symbol Stamp N/A
Name Authorization No. N/A
P.O. Box 10429, Southport, NC 28461 Expiration Date N/A
Address
4. Identification of System Stand-By Liquid Control
5. (a) Applicable Construction Code ANSI B31.1 1967 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 80/W81

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Variable Hanger	Bergen Paterson	216	N/A	2-C41-9VH9	1974	Repaired	N/A

7. Description of Work Ground out old weld and rewelded
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure
 Other Pressure _____ psi Test Temp _____ °F
VT-3, VT-4

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 6 on this 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.

CAROLINA POWER & LIGHT COMPANY, RALEIGH, NC
BRUNSWICK STEAM ELECTRIC PLANT, UNIT 2, SOUTHPORT, NC
COMMERCIAL DATE: NOVEMBER 2, 1975

SECTION 10.0

INSPECTION CHECKLISTS (IWB AND IWC)
AND SUPPORT LISTING (IWF)

CAROLINA POWER AND LIGHT COMPANY, RALEIGH, NC
BRUNSWICK STEAM ELECTRIC PLANT, UNIT 2, SOUTHPORT, NC
COMMERCIAL DATE: NOVEMBER 2, 1975

10.1 IWF AND IWC INSPECTION CHECKLISTS

IC NUMBER	REVISION
2-AUG-1	3
2-AUG-2	2
2-AUG-3	2
2-AUG-4	1
2-AUG-5	1
2-AUG-6	1
2-AUG-7	1
2-AUG-8	1
2-AUG-9	1
2-AUG-10	2
2-RPV-1	2
2-RPV-2	3
2-MS-1	1
2-FW-1	2
2-RPV INST.-1	1
2-RPV DRAIN-1	1
2-CRD-1	1
2-SLC-1	1
2-RHR-1	2
2-CS-1	2
2-HPCI-1	1
2-RCIC-1	1
2-RWCU-1	1
2-FW2-1	1
2-MS2-1	1
2-CRD2-1	1
2-RHR2-1	3
2-RHR2-2	2
2-RHR2-3	1
2-CS2-1	1
2-HPCI2-1	2
2-HPCI STUDS-1	2

ABBREVIATION INDEX: 0313=DRAFT OF NUREG 0313, REV 2; 0619=NUREG 0619, REV 2;
PRM=PREMSIP; POM=POSTMSIP; IA=INTEGRAL ATTACHMENT; PS=PRESERVICE; IB=INCONEL
BUTTER; 85.10,85.130,89.11,89.12,810.10=CODE CREDIT

CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 2, COMMERCIAL DATE 11/02/75

SYSTEM: REACTOR RECIRCULATION
 JFT PUMP INSTRUMENTATION

IC NO. 2-AUG-1
 REVISION 3

COMPONENT NUMBER	TYPE	ISOMETRIC C2404-	EXAM METH.	ALSTD	EXAM DATE	COMMENTS
2B32-RECIRC-28"- A-1	N-SE	19-1	UT	002,46B 58B	01-10-88	0313, IB, PRM
2B32-RECIRC-28"- B-1	N-SE	20-1	UT	002,46B 58B	01-09-88	0313, IB, PRM
2B32-RECIRC-12"- AR-A5	SE-N	21-1	UT	49B 83B	01-16-88	0313, IB, PRM
2B32-RECIRC-12"- AR-B5	SE-N	21-1	UT	49B 83B	01-14-88	0313, IB, PRM
2B32-RECIRC-12"- AR-C5	SE-N	21-1	UT	49B 83B	01-15-88	0313, IB, PRM
2B32-RECIRC-12"- AR-D5	SE-N	21-1	UT	49B 83B	01-12-88	0313, IB, PRM
2B32-RECIRC-12"- AR-E5	SE-N	21-1	UT	49B 83B	01-10-88	0313, IB, PRM
2B32-N2E-TS 150	SE-TS	21-1	UT	83B	01-26-88	0313, PRM
2B32-RECIRC-12"- BR-F5	SE-N	22-1	UT	49B 83B	01-09-88	0313, IB, PRM
2B32-RECIRC-12"- BR-G5	SE-N	22-1	UT	49B 83B	01-11-88	0313, IB, PRM
2B32-RECIRC-12"- BR-H5	SE-N	22-1	UT	49B 83B	01-12-88	0313, IB, PRM
2B32-RECIRC-12"- BR-J5	SE-N	22-1	UT	49B 83B	01-13-88	0313, IB, PRM
2B32-RECIRC-12"- BR-K5	SE-N	22-1	UT	49B 83B	01-15-88	0313, IB, PRM
2B32-N2K-TS 330	SE-TS	21-1	UT	83B	01-29-88	0313 PRM
2B11N8A-RPV-SWAB	SE-N	3-1	PT	NA	01-12-88	B5.10 PRM

CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 2, COMMERCIAL DATE 11/02/75

SYSTEM: REACTOR RECIRCULATION, CORE SPRAY
 JET PUMP INSTRUMENTATION

IC NO. 2-AUG-2
 REVISION 2

COMPONENT NUMBER	TYPE	ISOMETRIC C2404-	EXAM METH.	UT CALSTD	EXAM DATE	COMMENTS
2B11N8A-RPV-SWAB	SE-N	3-1	UT	36B 39B	01-13-88	B5.10, 0313 PRM, 1B
2B11N8B-RPV-SWAB	SE-N	3-1	UT	36B 39B	01-16-88	0313, 1B PRM
2B11N5A-4-FWRN16	SE-N	35-1	UT	49B 83B	01-24-88	0313, 1B PRM
2B11N5B-8-FWRN17	SE-N	36-1	UT	49B 83B	01-26-88	C313, 1B PRM
2B32-RECIRC-28"- A-1	N-SE	19-1	UT	002,46B 58B	02-20-88	POM
2B32-RECIRC-28"- B-1	N-SE	20-1	UT	002,46B 58B	02-22-88	POM
2B32-RECIRC-12"- AR-A5	SE-N	21-1	UT	49B 83B	02-19-88	POM
2N32-N2A-TS 30	SE-TS	21-1	UT	83B	02-17-88	POM
2B32-RECIRC-12"- AR-B5	SE-N	21-1	UT	49B 83B	02-15-88	POM
2B32-N2B-TS 60	SE-TS	21-1	UT	83B	02-17-88	POM
2B32-RECIRC-12"- AR-C5	SE-N	21-1	UT	49B 83B	02-22-88	POM
2B32-N2C-TS 90	SE-TS	21-1	UT	83B	02-18-88	POM
2B32-RECIRC-12"- AR-D5	SE-N	21-1	UT	49B 83B	02-22-88	POM
2B32-N2D-TS 120	SE-TS	21-1	UT	83B	02-18-88	POM
2B32-RECIRC-12"- BR-F5	SE-N	22-1	UT	49B 83B	02-16-88	POM

CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 2, COMMERCIAL DATE 11/02/75

SYSTEM: REACTOR RECIRCUATION, CORE SPRAY
 JET PUMP INSTRUMENTATION

IC NO. 2-AUG-3
 REVISION 2

COMPONENT NUMBER	TYPE	ISOMETRIC C2404-	EXAM METH.	UT CALSTD	EXAM DATE	COMMENTS
2B32-N2F-TS 210	SE-TS	22-1	UT	83B	02-20-88	POM
2B32-RECIRC-12"- BR-G5	SE-N	22-1	UT	49B 83B	02-15-88	POM
2B32-N2G-TS 240	SE-TS	22-1	UT	83B	02-20-88	POM
2B32-RECIRC-12"- BR-H5	SE-N	22-1	UT	49B 83B	02-22-88	POM
2B32-N2H-TS 270	SE-TS	22-1	UT	83B	02-23-88	POM
2B32-RECIRC-12"- BR-J5	SE-N	22-1	UT	49B 83B	02-23-88	POM
2B32-N2J-TS 300	SE-TS	22-1	UT	83B	02-25-88	POM
2B32-RECIRC-12"- BR-K5	SE-N	22-1	UT	49B 83B	02-25-88	POM
2B32-N2K-TS 330	SE-TS	22-1	UT	83B	02-27-88	POM
2B11N8A-RPV-SWAB	SE-N	3-1	UT	36B 39B	02-17-89	POM
2B11N8B-RPV-SWAB	SE-N	3-1	UT	36B 39B	02-17-88	POM
2B11N5A-4-FWRN16	SE-N	35-1	UT	49B 83B	02-17-88	POM
2B11N59-8-FWRN17	SE-N	36-1	UT	49B 83B	02-18-88	POM
2B32-RECIRC-28"- A-2	SE-P	19-1	UT	9BR	01-12-88	0313 A LOOP

CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 2, COMMERCIAL DATE 11/02/75

SYSTEM: REACTOR RECIRCUATION, CORE SPRAY
 JET PUMP INSTRUMENTATION

IC NO. 2-AUG-3
 REVISION 2

COMPONENT NUMBER	TYPE	ISOMETRIC C2404-	EXAM METH.	UT CALSTD	EXAM DATE	COMMENTS
2B32-N2F-TS 210	SE-TS	22-1	UT	83B	02-20-88	POM
2B32-RECIRC-12"- BR-G5	SE-N	22-1	UT	49B 83B	02-15-88	POM
2B32-N2G-TS 240	SE-TS	22-1	UT	83B	02-20-88	POM
2B32-RECIRC-12"- BR-H5	SE-N	22-1	UT	49B 83B	02-22-88	POM
2B32-N2H-TS 270	SE-TS	22-1	UT	83B	02-23-88	POM
2B32-RECIRC-12"- BR-J5	SE-N	22-1	UT	49B 83B	02-23-88	POM
2B32-N2J-TS 300	SE-TS	22-1	UT	83B	02-25-88	POM
2B32-RECIRC-12"- BR-K5	SE-N	22-1	UT	49B 83B	02-25-88	POM
2B32-N2K-TS 330	SE-TS	22-1	UT	83B	02-27-88	POM
2B11N8A-RPV-SWAB	SE-N	3-1	UT	36B 39B	02-17-89	POM
2B11N8B-RPV-SWAB	SE-N	3-1	UT	36B 39B	02-17-88	POM
2B11N5A-4-FWRN16	SE-N	35-1	UT	49B 83B	02-17-88	POM
2B11N5B-8-FWRN17	SE-N	36-1	UT	49B 83B	02-18-88	POM
2B32-RECIRC-28"- A-2	SE-P	19-1	UT	9BR	01-12-88	0313 A LOOP

CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 2, COMMERCIAL DATE 11/02/75

SYSTEM: REACTOR RECIRCULATION

IC NO. 2-AUG-4
 REVISION 1

COMPONENT NUMBER	TYPE	ISOMETRIC C2404-	EXAM METH.	UT CALSTD	EXAM DATE	COMMENTS
2B32-RECIRC-28"- A-3	P-ELB	19-1	UT	9BR	01-13-88	0313 A LOOP
2B32-RECIRC-28"- A-5	P-TEE	19-1	UT	9BR	01-13-88	0313 A LOOP
2B32-RECIRC-28"- A-6	TEE-P	19-1	UT	9BR	01-14-88	0313 A LOOP
2B32-RECIRC-28"- A-9BC-1	P-WOL	19-1	UT	9BR 39B	02-05-88	0313 A LOOP
2B32-RECIRC-28"- A-12BC	P-WOL	19-1	UT	9BR	02-05-88	0313 A LOOP
2B32-RECIRC-28"- A-15BC-1	WOL-P	19-1	UT	9BR	02-08-88	0313 A LOOP
2B32-RECIRC-22"- AM-1	V-P	21-1	UT	7BR	01-22-88	0313 A LOOP
2B32-RECIRC-22"- AM-2	P-V	21-1	UT	7BR	01-20-88	0313 A LOOP
2B32-RECIRC-22"- AM-3	V-P	21-1	UT	7BR	01-20-88	0313 A LOOP
2B32-RECIRC-22"- AM-6	P-CAP	21-1	UT	7BR	01-19-88	0313 A LOOP
2B32-RECIRC-12"- AR-A1	SWP-P	21-1	UT	5BR	01-22-88	0313 A LOOP
2B32-RECIRC-12"- AR-A4	P-EXT	21-1	UT	5BR	01-16-88	0313 A LOOP
2B32-RECIRC-12"- AR-B1	SWP-P	21-1	UT	5BR	01-21-88	0313 A LOOP
2B32-RECIRC-12"- AR-B4	P-EXT	21-1	UT	5BR	01-27-88	0313 A LOOP
2B32-RECIRC-12"- AR-D2	P-ELB	21-1	UT	5BR	01-18-88	0313 A LOOP

CAROLINA POWER & LIGHT COMPANY
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 BRUNSWICK STEAM ELECTRIC PLANT
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SYSTEM: REACTOR RECIRCULATION

IC NO. 2-AUG-5
 REVISION 1

COMPONENT NUMBER	TYPE	ISOMETRIC C2404-	EXAM METH.	UT CALSTD	EXAM DATE	COMMENTS
2B32-RECIRC-12"- AR-D3	ELB-P	21-1	UT	5BR	01-17-88	0313 A LOOP
2B32-RECIRC-12"- AR-E1	SWP-P	21-1	UT	5BR	01-20-88	0313 A LOOP
2B32-RECIRC-12"- AR-E4A	SWP-P	21-1	UT	5BR	01-28-88	0313 A LOOP
2B32-N2E-TS 150	SE-TS	21-1	UT	VY-83 83B	02-27-88	0313 A LOOP
2B32-RECIRC-4"- A-5	TEE-P	19-1	PT	NA	01-31-88	B9.11, POM A LOOP
			UT	2B	02-02-88	B9.11 A LOOP
2B32-RECIRC-4"- A-6	P-F	19-1	PT	NA	01-31-88	B9.11 A LOOP
			UT	2B	02-11-88	B9.11 A LOOP
2B32-RECIRC-28"- B-2	SE-P	19-1	UT	9BR	01-25-88	0313 B LOOP
2B32-RECIRC-28"- B-6	P-P	20-1	PT	NA	01-11-88	B9.11 B LOOP
			UT	9BR	01-11-88	0313, B9.11 B LOOP
2B32-RECIRC-28"- B-6 (LU)	L-S	20-1	PT	NA	01-11-88	B9.11 B LOOP
			UT	9BR	01-12-88	0313, B9.11 B LOOP
2B32-RECIRC-28"- B-6 (LD)	L-S	20-1	PT	NA	01-11-88	B9.11 B LOOP
			UT	9BR	01-12-88	0313, B9.11 B LOOP

CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 2, COMMERCIAL DATE 11/02/75

SYSTEM: REACTOR RECIRCULATION

IC NO. 2-AUG-6
 REVISION 1

COMPONENT NUMBER	TYPE	ISOMETRIC C2404-	EXAM METH.	UT CALSTD	EXAM DATE	COMMENTS
2B32-RECIRC-28"- B-9BC	P-WOL	20-1	UT	9BR 39B	02-15-88	0313 B LOOP
2B32-RECIRC-28"- B-12BC-1	P-WOL	20-1	UT	9BR	02-05-88	0313 B LOOP
2B32-RECIRC-28"- B-15BC-1	P-WOL	20-1	UT	9BR	02-03-88	0313 B LOOP
2B32-RECIRC-28"- B-16	P-TEE	20-1	UT	9BR	01-15-88	0313 B LOOP
2B32-RECIRC-12"- BR-F1	SWP-P	22-1	UT	5BR	01-19-88	0313 B LOOP
2B32-RECIRC-12"- BR-H1	RED-P	22-1	UT	5BR	01-18-88	0313 B LOOP
2B32-RECIRC-12"- BR-H3	ELB-P	22-1	UT	5BR	01-17-88	0313 B LOOP
2B32-RECIRC-12"- BR-J1	SWP-P	22-1	UT	5BR	01-20-88	0313 B LOOP
2B32-RECIRC-12"- BR-J4	P-EXT	22-1	UT	5BR	01-28-88	0313 B LOOP
2B32-RECIRC-12"- BR-K1	SWP-P	22-1	UT	5BR	01-22-88	0313 B LOOP
2B32-RECIRC-12"- BR-K4	P-EXT	22-1	UT	5BR	01-16-88	0313 B LOOP
2B32-RECIRC-12"- BR-K4A	EXT-SE	22-1	PT	NA	01-11-88	85.130 B LOOP
			UT	5BR 49B	01-17-88	0313, 85.130 B LOOP

CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 2, COMMERCIAL DATE 11/02/75

SYSTEM: REACTOR RECIRCULATION
 FEEDWATER

IC NO. 2-AUG-7
 REVISION 1

COMPONENT NUMBER	TYPE	ISOMETRIC C2404-	EXAM METH.	UT CALSTD	EXAM DATE	COMMENTS
2B11-RPV-N4A-IRS	NIR	1-1	PT	NA	02-15-88	0619
				68B 69B	01-29-88	0619
2B11-RPV-N4A- SE 45	SE	1-1	UT	59B	02-12-88	0619
2B11-RPV-N4B-IRS	NIR	1-1	PT	NA	02-15-88	0619
				68B 69B	02-01-88	0619
2B11-RPV-N4B- SE 135	SE	1-1	UT	59B	02-12-88	0619
2B11-RPV-N4C-IRS	IRS	1-1	PT	NA	02-15-88	0619
				68B 69B	02-01-88	0619
2B11-RPV-N4C- SE 225	SE	1-1	UT	59B	02-12-88	0619
2B11-RPV-N4D-IRS	NIR	1-1	PT	NA	02-15-88	0619
				68B 69C	01-29-88	0619
2B11-RPV-N4D- SE 315	SE	1-1	UT	59B	02-12-88	0619
2B32-RECIRC-28"- A-14HL	IA	19-1	PT	NA	01-31-88	B10.10, IA
2B32-RECIRC-28"- A-15HL-1	IA	19-1	PT	NA	01-31-88	B10.10, IA
2B32-RECIRC-22"- AM-3HL	IA	21-1	PT	NA	01-12-88	B10.10, IA

CAROLINA POWER & LIGHT COMPANY
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 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 2, COMMERCIAL DATE 11/02/75

SYSTEM: REACTOR RECIRCULATION

IC NO. 2-AUG-8
 REVISION 1

COMPONENT NUMBER	TYPE	ISOMETRIC C2404-	EXAM METH.	UT CALSTD	EXAM DATE	COMMENTS
2B32-RECIRC-28"- B-16HL-1	IA	20-1	PT	NA	01-11-88	B10.10, IA
2B32-RECIRC-28"- B-6HL-1	IA	20-1	PT	NA	01-11-88	B10.10, IA
2B32-RECIRC-28"- B1PHL	IA	20-1	PT	NA	01-31-88	B10.20, IA
2B32-RECIRC-28"- B3PHL	IA	20-1	PT	NA	01-31-88	B10.20, IA
2B32-RECIRC-28"- A-4	ELP-P	15-1	PT	NA	01-29-88	B9.11 OVERLAY, PS
			UT	102ROL	02-02-88	B9.11, 0313 OVERLAY, PS
2B32-RECIRC-12"- AR-A2	P-ELB	21-1	UT	100ROL	01-25-88	0313 OVERLAY
2B32-RECIRC-12"- AR-C1	RED-P	21-1	PT	NA	01-11-88	B9.11 OVERLAY
			UT	100ROL	01-21-88	B9.11, 0313 OVERLAY
2B32-RECIRC-12"- AR-C1LD	L-S	21-1	PT	NA	01-11-88	B9.12
			UT	5BR	01-11-88	B9.12, 0313
2B32-RECIRC-12"- AR-C2	P-ELB	21-1	UT	100ROL	02-01-88	0313 OVERLAY
2B32-RECIRC-12"- AR-C3	ELB-P	21-1	UT	100ROL	01-24-88	0313 OVERLAY
2B32-RECIRC-12"- AR-C4	P-EXT	21-1	UT	100ROL	01-29-88	0313 OVERLAY
2B32-RECIRC-12"- AR-D1	SWP-P	21-1	UT	100ROL	01-31-88	0313 OVERLAY

CAROLINA POWER & LIGHT COMPANY
 PO BOX 1551, RALEIGH, NC 27602
 BRUNSWICK STEAM ELECTRIC PLANT
 SOUTHPORT, NC 28461
 UNIT 2, COMMERCIAL DATE 11/02/75

SYSTEM: REACTOR RECIRCULATION

IC NO. 2-AUG-9
 REVISION 1

COMPONENT NUMBER	TYPE	ISOMETRIC C2404-	EXAM METH.	UT CALSTD	EXAM DATE	COMMENTS
2B32-RR-12"-AR-D2	SWP-P	21-1	PT	NA	01-29-88	B9.11 OVERLAY, PS
			UT	100ROL	01-31-88	B9.11, 0313 OVERLAY, PS
2B32-RECIRC-12"- AR-E4	RED-P	21-1	PT	NA	02-03-88	B9.11 OVERLAY
			UT	100ROL	01-29-88	B9.11, 0313 OVERLAY
2B32-RECIRC-12"- AR-E4 (LU)	L-S	21-1	PT	NA	02-03-88	B9.12
			UT	5BR	01-26-88	B9.12
2B32-RR-12"-AR-E5	SE-N	21-1	PT	NA	01-25-88	B5.10 OVERLAY, PS
			UT	VY-83	02-26-88	B5.10, 0313 OVERLAY, PS
2B32-RECIRC-4"- A-11	P-WOL	19-1	UT	110ROL	02-01-88	0313 OVERLAY
2B32-RECIRC-28"- B-3	P-ELB	20-1	UT	102ROL	01-28-88	0313, PS OVERLAY
2B32-RECIRC-28"- B-4	ELB-P	20-1	PT	NA	01-23-88	B9.11, PS OVERLAY
			UT	102ROL	01-31-88	0313, B9.11 OVERLAY, PS
2B32-RECIRC-28"- B-5	P-P	20-1	UT	102ROL	02-03-88	0313 OVERLAY
2B32-RECIRC-22"- BM-1	P-CAP	22-1	UT	112ROL	01-19-88	0313 OVERLAY
2B32-RECIRC-12"- BR-G2	P-ELB	22-1	UT	100ROL	02-03-88	0313 OVERLAY

CAROLINA POWER & LIGHT COMPANY
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SYSTEM: REACTOR PRESSURE VESSEL

IC NO. 2-RPV-2
 REVISION 3

COMPONENT NUMBER	TYPE	ISOMETRIC C2404-	EXAM METH.	UT CALSTD	EXAM DATE	COMMENTS
2B11-RPV-AA	HS-HS	2-1	UT	45BR	01-16-88	B1.22
2B11-RPV-B1	HS-HS	2-1	UT	45BR	01-16-88	B1.21
2B11-RPV-C1	H-F	2-1	MT	NA	01-15-88	B1.40
			UT	45BR	01-16-88	B1.40
2B11-RPV-N6A	N-S	2-1	UT	45BR	01-17-88	B3.90
2B11-RPV-N6A-IRS	IRS	2-1	UT	78B	02-01-88	B3.100
2B11-RPV-N6B	N-S	2-1	UT	45BR	01-17-88	B3.90
2B11-RPV-N6B-IRS	IRS	2-1	UT	78B	02-01-88	B3.100
2B11-RPV-N7	N-S	2-1	UT	45BR	01-17-88	B3.90
2B11-RPV-N7-IRS	IRS	2-1	UT	78B	02-01-88	B3.100
2B11-RPV-LUG45	IA	5-1	MT	NA	01-30-88	B8.10
2B11-RPV-SKIRTO-120	IA	5-1	MT	NA	01-27-88	B8.10
		5-1	UT	45BR	01-27-88	B8.10

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SYSTEM: MAIN STEAM

IC NO. 2-MS-1
 REVISION 1

COMPONENT NUMBER	TYPE	ISOMETRIC C2404-	EXAM METH.	'JT CALSTD	EXAM DATE	COMMENTS
2B21PS1A3-6''-SWF	SWP-P	6-1	MT	NA	01-31-88	B9.11
			UT	21B	02-01-88	B9.11
2B21PS1A3-24''-SWE	P-SWP	6-1	MT	NA	01-31-88	B9.31
			UT	19B	01-31-88	B9.31
2B21PS1A2-24''- FWPSA23	IA	6-1	MT	NA	02-03-88	B10.10
2B21PS1B2-24''-FWB2	P-P	7-1	MT	NA	01-30-88	B9.11
			UT	19B	01-31-88	B9.11
2B21PS1D6-24''- FWG10	P-V	9-1	MT	NA	01-13-88	B9.11
			UT	19B	01-14-88	B9.11
2B21A12-40-FW110-E	P-R	10-1	MT	NA	01-21-88	B9.21

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SYSTEM: FEEDWATER

IC NO. 2-FW-1
 REVISION 2

COMPONENT NUMBER	TYPE	ISOMETRIC C2404-	EXAM METH.	UT CALSTD	EXAM DATE	COMMENTS
2B211-1-1-FWR12	V-REDT	13-1	MT	NA	01-13-88	B9.11
			UT	17B	01-14-88	B9.11
2B211-1-1-SWA	REDT-P	13-1	MT	NA	01-13-88	B9.11
			UT	17B	01-14-88	B9.11
2B212-2-2-SWB	E-P	13-1	MT	NA	01-30-88	B9.11
			UT	59B	02-02-88	B9.11
2B212-2-2-SWA	P-P	13-1	MT	NA	01-30-88	B9.11
			UT	59B	02-02-88	B9.11
2B211-2-1-FWR8B	1A	13-1	MT	NA	01-18-88	B10.10
2B212-2-2-FW2SS230	1A	13-1	MT	NA	02-03-88	B10.10
2B214-2-4-SWE	P-E	14-1	MT	NA	01-21-88	B9.11
			UT	17B	01-21-88	B9.11
2B215-2-5-FWR23	E-P	14-1	MT	NA	01-21-88	B9.11
			UT	59B	01-21-88	B9.11

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SYSTEM: RESIDUAL HEAT REMOVAL

IC NO. 2-RHR-1
 REVISION 2

COMPONENT NUMBER	TYPE	ISOMETRIC C2404-	EXAM METH.	UT CALSTD	EXAM DATE	COMMENTS
2E1179-117-FW110	P-V	29-1	MT	NA	01-11-88	B9.11
			UT	66B	01-12-88	B9.11
2E1184-3-84-FWR4	P-E	29-1	MT	NA	01-26-88	B9.11
			UT	66B	01-28-88	B9.11
2E1184-3-84-SWA	E-E	29-1	MT	NA	01-21-88	B9.11
			UT	66B	01-22-88	B9.11
2E1110-9-10-FWR21	P-V	31-1	PT	NA	01-21-88	B5.130
			UT	68R 18B	01-22-88	B5.130
2E1190-20-90-SWA	F-P	32-1	MT	NA	01-08-88	B9.11
			UT	11B	01-08-88	B.911
2E1190-19-90-SWA	P-F	32-1	MT	NA	01-08-88	B9.11
			UT	11B	01-08-88	B9.11

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SYSTEM: RESIDUAL HEAT REMOVAL

IC NO. 2-RHR2-1
 REVISION 3

COMPONENT NUMBER	TYPE	ISOMETRIC C2404-	EXAM METH.	UT CALSTD	EXAM DATE	COMMENTS
2E111-116-FW2	E-P	66-1	MT	NA	01-20-88	C5.51
			UT	82B	01-20-88	C5.51
2E114-155-FW5	E-V	66-1	MT	NA	01-11-88	C5.51
			UT	82B	01-11-88	C5.51
2E114-155-SWA	P-E	66-1	MT	NA	01-11-88	C5.51
			UT	32B	01-11-88	C5.51
2E1128-5-FW5SS400	IA	69-1	MT	NA	02-09-88	C3.10
2E1150-145- FW145VH241	IA	73-1	MT	NA	02-08-88	C3.20
2E1150-145-SWA	P-E	73-1	MT	NA	02-08-88	C5.51
			UT	31B	02-08-88	C5.51
2E1148-20-FW20 FS29	IA	73-1	MT	NA	02-12-88	C3.20

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SYSTEM: RESIDUAL HEAT REMOVAL

IC NO. 2-RHR2-2
 REVISION 2

COMPONENT NUMBER	TYPE	ISOMETRIC C2404-	EXAM METH.	UT CALSTD	EXAM DATE	COMMENTS
2E11HX-2A-SWC3	F-S	75-1	UT	72B	01-09-88	C1.10
2E11HX-2A-SWN3	N-S	75-1	MT	NA	01-09-88	C2.21
			UT	71B	01-11-88	
2E11HX-2A-N3N1R	IRS		UT	79B	02-04-88	C2.22
2E11HX-2A-SUPO	IA	75-1	MT	NA	01-09-88	C3.10
2E11HX-2B-SWN4	N-S	75-1	UT	72B	02-10-88	INDICATION SIZING. REQ'D BY PREV EXAM
2E1164-21-SWA	T-R	76-1	MT	NA	02-08-88	C5.51
			UT	30B	02-10-88	C5.51
2E1162-21- FW21SS445	IA	76-1	MT	NA	02-08-88	C3.20
2E1193-17-FW128	V-P	82-1	MT	NA	01-12-88	C5.51
			UT	96B	01-13-88	C5.51
2E11109-56-FW155	NOZ- REDEL	83-1	MT	NA	01-09-88	C5.51
			UT	31B	01-09-88	C5.51
2E11111-58-SWB	E-P	83-1	MT	NA	02-08-88	C5.51

CAROLINA POWER AND LIGHT COMPANY, RALEIGH, NC
BRUNSWICK STEAM ELECTRIC PLANT, UNIT 2, SOUTHPORT, NC
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10.2 SUPPORT LISTING

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F-A	CS	2	98-1 H	2-X-227A
F-A	RHR	2	66-1 H	2-X-225A
F-A	RHR	2	70-1 H	2-X-225B
F-A	RHR	2	86-1 H	2-E11-21A75
F-A	SW	3	145-1 H	2-SW-PS2111A
F-A	SW	3	145-1 H	2-SW-PS2112A
F-A	SW	3	153-1 H	2-SW-103PG11B
F-B	CS	2	97-1 H	2-E21-40FS90
F-B	CS	2	98-1 H	2-E21-39FS110
F-B	CS	2	98-1 H	2-E21-39PG9
F-B	FW	2	54-1 H	2-FW-8A33
F-B	FW	2	54-1 H	2-FW-8FH30
F-B	HP	2	105-1 H	2-E41-59PG25
F-B	HP	2	107-1 H	2-E41-2FH3
F-B	HP	2	107-1 H	2-E41-2FH4
F-B	HP	2	109-1 H	2-E41-60FH54
F-B	HP	2	109-1 H	2-E41-60FH60
F-B	HP	2	109-1 H	2-E41-60PG55
F-B	MS	2	59-1 H	2-MS-3FH25
F-B	NB	3	116-1 H	2-B21-11PG313
F-B	NB	3	119-1 H	2-B21-19PG198
F-B	NB	3	124-1 H	2-B21-34PG296
F-B	RCR	1	19-1 H	2-B32-PS-7505B

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CATEGORY	SYSTEM	ISICLSS	REFDWG	COMPNO
F-B	RCR	1	24-1 H	2-B32-26PG114
F-B	RHR	2	66-1 H	2-E11-116FS144
F-B	RHR	2	66-1 H	2-E11-155FS147
F-B	RHR	2	67-1 H	2-E11-2PG135
F-B	RHR	2	67-1 H	2-E11-2PG136
F-B	RHR	2	68-1 H	2-E11-3FS141
F-B	RHR	2	68-1 H	2-E11-9PG148
F-B	RHR	2	69-1 H	2-E11-5FS154
F-B	RHR	2	70-1 H	2-E11-113FS158
F-B	RHR	2	70-1 H	2-E11-154FS161
F-B	RHR	2	71-1 H	2-E11-12PG159
F-B	RHR	2	73-1 H	2-E11-145PG421
F-B	RHR	2	77-1 H	2-E11-68PG58
F-B	RHR	2	78-1 H	2-E11-18PG49
F-B	RHR	2	78-1 H	2-E11-18PG50
F-B	RHR	2	78-1 H	2-E11-73FH44
F-B	RHR	2	81-1 H	2-E11-46PG6
F-B	RHR	2	86-1 H	2-E11-21PC299
F-B	RHR	2	91-1 H	2-E11-18PG289
F-B	RHR	3	132-1 H	2-E11-132PG261
F-P	RHR	3	133-1 H	2-E11-128PG603
F-B	RHR	3	133-1 H	2-E11-128PG605
F-B	RHR	3	133-1 H	2-E11-128PG606

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CATEGORY	SYSTEM	ISICLSS	REFDWG	COMPNO
F-B	RHR	3	134-1 H	2-E11-128PG251
F-B	RHR	3	134-1 H	2-E11-128PG602
F-B	RHR	3	137-1 H	2-E11-126PG1000
F-B	RHR	3	137-1 H	2-E11-127PG1005
F-B	RHR	3	137-1 H	2-E11-127PG1006
F-B	RHR	3	137-1 H	2-E11-127PG1017
F-B	RHR	3	137-1 H	2-E11-127PG243
F-B	RHR	3	137-1 H	2-E11-127PG375
F-B	RHR	3	139-1 H	2-E11-129PG369
F-B	RHR	3	139-1 H	2-E11-131PG366
F-B	RHR	3	151-1 H	2-E11-128PG609
F-B	RPV	1	15-1 H	2-B21-PS-3551
F-B	SW	3	136-1 H	2-SW-PS4941
F-B	SW	3	142-1 H	2-SW-142PG510
F-B	SW	3	142-1 H	2-SW-31PG513
F-B	SW	3	142-1 H	2-SW-31PG586
F-B	SW	3	142-1 H	2-SW-31PG588
F-B	SW	3	142-1 H	2-SW-31PG595
F-B	SW	3	144-1 H	2-SW-PS1720
F-B	SW	3	145-1 H	2-SW-3PG415
F-B	SW	3	146-1 H	2-SW-127FH4
F-B	SW	3	146-1 H	2-SW-127PG10
F-B	SW	3	147-1 H	2-SW-127PG13

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CATEGORY	SYSTEM	ISICLSS	REFDWG	COMPNO
F-B	SW	3	148-1 H	2-SW-117PG53
F-B	SW	3	148-1 H	2-SW-117PG54
F-B	SW	3	148-1 H	2-SW-120A55
F-B	SW	3	148-1 H	2-SW-123FS58
F-B	SW	3	148-1 H	2-SW-123PG65
F-B	SW	3	148-1 H	2-SW-123PG67
F-B	SW	3	150-1 H	2-SW-133PG28
F-B	SP	3	150-1 H	2-SW-142FS73
F-B	SW	3	152-1 H	2-SW-101PG501
F-B	SW	3	152-1 H	2-SW-102PG500
F-B	SW	3	152-1 H	2-SW-105PG135
F-B	SW	3	153-1 H	2-SW-103PG122
F-B	SW	3	157-1 H	2-SW-PS2211A
F-B	SW	3	157-1 H	2-SW-PS4094
F-C	CS	1	35-1 H	2-E21-3SS46
F-C	CS	1	35-1 H	2-E21-3SS47
F-C	CS	1	35-1 H	2-E21-4CH51
F-C	CS	1	36-1 H	2-E21-7CH52
F-C	CS	1	36-1 H	2-E21-7SS53
F-C	CS	1	36-1 H	2-E21-7SS54
F-C	CS	1	36-1 H	2-E21-8CH58
F-C	FW	1	13-1 H	2-B21-1CH1
F-C	FW	1	13-1 H	2-B21-1SS228

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CATEGORY	SYSTEM	ISICLSS	REFDWG	COMPNO
F-C	FW	1	13-1 H	2-B21-2CH5
F-C	FW	1	13-1 H	2-B21-2SS230
F-C	FW	1	13-1 H	2-B21-3CH7
F-C	FW	1	13-1 H	2-B21-3SS11
F-C	FW	1	13-1 H	2-B21-3SS13
F-C	FW	1	13-1 H	2-B21-3SS233
F-C	FW	1	13-1 H	2-B21-3SS235
F-C	FW	1	14-1 H	2-B21-5SS17
F-C	FW	1	14-1 H	2-B21-5SS238
F-C	FW	1	14-1 H	2-B21-6CH21
F-C	FW	1	14-1 H	2-B21-6CH24
F-C	FW	1	14-1 H	2-B21-6SS20
F-C	FW	1	14-1 H	2-B21-6SS241
F-C	FW	1	14-1 H	2-B21-6SS243
F-C	FW	1	14-1 H	2-B21-6SS26
F-C	FW	2	52-1 H	2-FW-6VH19
F-C	FW	2	52-1 H	2-FW-8VH24
F-C	FW	2	52-1 H	2-FW-8VH29
F-C	FW	2	53-1 H	2-FW-10VH49
F-C	FW	2	53-1 H	2-FW-9SS883
F-C	FW	2	53-1 H	2-FW-9SS884
F-C	FW	2	53-1 H	2-FW-9VH45
F-C	FW	2	54-1 H	2-FW-8VH31

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CATEGORY	SYSTEM	ISICLSS	REFDWG	COMPNO
F-C	HP	1	40-1 H	2-E41-4CH46
F-C	HP	1	40-1 H	2-E41-4SS45
F-C	HP	1	40-1 H	2-E41-4SS49
F-C	HP	1	40-1 H	2-E41-4SS50
F-C	HP	1	40-1 H	2-E41-4SS51
F-C	HP	2	104-1 H	2-E41-6SS27
F-C	HP	2	104-1 H	2-E41-6SS38
F-C	HP	2	104-1 H	2-E41-6SS42
F-C	HP	2	106-1 H	2-E41-VS79
F-C	HP	2	100-1 H	2-E41-61VH6
F-C	HP	2	109-1 H	2-E41-60SS9
F-C	MS	1	10-1 H	2-B21-40VH128
F-C	MS	1	59-1 H	2-MS-3SS136
F-C	MS	1	6-1 H	2-PSN-A2SS30
F-C	MS	1	6-1 H	2-PSN-A2SS31
F-C	MS	1	6-1 H	2-PSN-A3SS34
F-C	MS	1	8-1 H	2-B21-27SS272
F-C	MS	1	8-1 H	2-PSN-C3CH59
F-C	MS	1	8-1 H	2-PSN-C3SS58
F-C	MS	1	8-1 H	2-PSN-C5SS64
F-C	MS	1	9-1 H	2-PSN-D2SS68
F-C	MS	1	9-1 H	2-PSN-D2SS69
F-C	MS	1	9-1 H	2-PSN-D3SS72

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IMF SUPPORTS EXAMINED FOR 1988 INTERVAL 2, PERIOD 1, RFO 7

CATEGORY	SYSTEM	ISICLASS	REFDWG	COMPNO
F-C	MS	1	9-1 H	2-PSN-D3SS73
F-C	MS	2	57-1 H	2-MS-5S156
F-C	MS	2	57-1 H	2-MS-15S117
F-C	MS	2	57-1 H	2-MS-15S120
F-C	MS	2	57-1 H	2-MS-15S121
F-C	MS	2	57-1 H	2-MS-15S123
F-C	MS	2	58-1 H	2-MS-25S126
F-C	MS	2	58-1 H	2-MS-25S131
F-C	MS	2	59-1 H	2-MS-35S135
F-C	MS	2	59-1 H	2-MS-35S138
F-C	MS	2	60-1 H	2-MS-45S141
F-C	MS	2	60-1 H	2-MS-45S142
F-C	MS	2	61-1 H	2-MS-95S149
F-C	MS	2	61-1 H	2-MS-95S150
F-C	NB	3	116-1 H	2-B21-11SS221
F-C	NB	3	116-1 H	2-B21-11SS225
F-C	NB	3	116-1 H	2-B21-11SS344
F-C	NB	3	116-1 H	2-B21-11VH219
F-C	NB	3	117-1 H	2-B21-12SS288
F-C	NB	3	118-1 H	2-B21-18SS212
F-C	NB	3	118-1 H	2-B21-18SS216
F-C	NB	3	119-1 H	2-B21-19SS192
F-C	NB	3	119-1 H	2-B21-19SS195

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CATEGORY	SYSTEM	ISICLSS	REFDWG	COMPNO
F-C	NB	3	120-1 H	2-B21-20VH259
F-C	NB	3	121-1 H	2-B21-26SS206
F-C	NB	3	121-1 H	2-B21-26VH202
F-C	NB	3	123-1 H	2-B21-33SS245
F-C	NB	3	123-1 H	2-B21-33SS248
F-C	NB	3	123-1 H	2-B21-33SS250
F-C	NB	3	123-1 H	2-B21-33SS332
F-C	NB	3	123-1 H	2-B21-33SS335
F-C	NB	2	124-1 H	2-B21-34SS300
F-C	NB	3	124-1 H	2-B21-34SS337
F-C	NB	3	125-1 H	2-B21-58SS277
F-C	NB	3	125-1 H	2-B21-58SS279
F-C	NB	3	126-1 H	2-B21-59SS330
F-C	RCI	1	44-1 H	2-E51-4SS100
F-C	RCI	1	44-1 H	2-E51-4SS101
F-C	RCR	1	19-1 H	2-B32-HB2
F-C	RCR	1	19-1 H	2-B32-HB8
F-C	RCR	1	19-1 H	2-B32-SSB11
F-C	RCR	1	20-1 H	2-B32-HA2
F-C	RCR	1	20-1 H	2-B32-HA6
F-C	RCR	1	20-1 H	2-B32-HA7
F-C	RCR	1	20-1 H	2-B32-SSA1
F-C	RCR	1	20-1 H	2-B32-SSA12A

IWF SUPPORTS EXAMINED FOR 1988 INTERVAL 2, PERIOD 1, RFO 7

CATEGORY	SYSTEM	ISICLSS	REFDWG	COMPNO
F-C	RCR	1	20-1 H	2-B32-SSA12B
F-C	RCR	1	20-1 H	2-B32-SSA2
F-C	RCR	1	21-1 H	2-B32-HB4
F-C	RCR	1	24-1 H	2-B32-26VH115
F-C	RCR	1	24-1 H	2-B32-26VH229
F-C	RHR	1	29-1 H	2-E11-117V555
F-C	RHR	1	29-1 H	2-E11-84SS311
F-C	RHR	1	29-1 H	2-E11-84SS312
F-C	RHR	1	29-1 H	2-E11-84VH313
F-C	RHR	1	32-1 H	2-E11-90SS271
F-C	RHR	1	32-1 H	2-E11-90SS388
F-C	RHR	1	32-1 H	2-E11-90SS389
F-C	RHR	1	32-1 H	2-E11-90SS392
F-C	RHR	2	66-1 H	2-E11-116SS143
F-C	RHR	2	67-1 H	2-E11-25S413
F-C	RHR	2	68-1 H	2-E11-8SS405
F-C	RHR	2	68-1 H	2-E11-9SS411
F-C	RHR	2	68-1 H	2-E11-9VS149
F-C	RHR	2	69-1 H	2-E11-5SS402
F-C	RHR	2	71-1 H	2-E11-12VS160
F-C	RHR	2	73-1 H	2-E11-145VS242
F-C	RHR	2	73-1 H	2-E11-20SS415
F-C	RHR	2	74-1 H	2-E11-95SS417

MSC/88-153

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IWF SUPPORTS EXAMINED FOR 1988 INTERVAL 2, PERIOD 1, RFO 7

MSC/88-153

178

CATEGORY	SYSTEM	ISICLSS	R2FDWG	COMPNO
F-C	RHR	2	74-1 H	2-E11-95SS418
F-C	RHR	2	74-1 H	2-E11-95VH25
F-C	RHR	2	76-1 H	2-E11-21SS63
F-C	RHR	2	77-1 H	2-E11-68SS448
F-C	RHR	2	78-1 H	2-E11-18SS40
F-C	RHR	2	80-1 H	2-E11-17SS3
F-C	RHR	2	81-1 H	2-E11-46SS218
F-C	RHR	2	81-1 H	2-E11-46SS7
F-C	RHR	2	81-1 H	2-E11-46VH8
F-C	RHR	2	82-1 H	2-E11-56SS507
F-C	RHR	2	82-1 H	2-E11-56SS508
F-C	RHR	2	82-1 H	2-E11-56VH12
F-C	RHR	2	83-1 H	2-E11-56SS504
F-C	RHR	2	83-1 H	2-E11-56VH16
F-C	RHR	2	83-1 H	2-E11-58SS32
F-C	RHR	2	83-1 H	2-E11-58SS33
F-C	RHR	2	84-1 H	2-E11-75SS449
F-C	RHR	2	86-1 H	2-E11-21SS297
F-C	RHR	2	86-1 H	2-E11-21SS70
F-C	RHR	2	86-1 H	2-E11-21SS71
F-C	RHR	2	91-1 H	2-E11-18VH288
F-C	RHR	3	133-1 H	2-E11-128SS612
F-C	RHR	3	138-1 H	2-E11-131SS257

* 06/23/88

NUTECH/PRISIM
QUERY RESPONSE REPORT
BRUNSWICK 2

PAGE: 11

IWF SUPPORTS EXAMINED FOR 1988 INTERVAL 2, PERIOD 1, RFO 7

CATEGORY	SYSTEM	ISICLSS	REFDWG	COMPNO
F-C	RHR	3	139-1 H	2-E11-142VH368
F-C	RHR	3	139-1 H	2-E11-143VH372
F-C	RHR	3	161-1 H	2-E11-60SS423
F-C	RHR	3	161-1 H	2-E11-60VS121
F-C	RPV	1	15-1 H	2-B21-PS-3740
F-C	RPV	1	16-1 H	2-B21-PS-3563
F-C	RWC	1	47-1 H	2-G31-1SS3
F-C	SLC	1	27-1 H	2-C41-9SS11
F-C	SLC	1	27-1 H	2-C41-9SS8
F-C	SLC	1	27-1 H	2-C41-9VH1
F-C	SW	3	147-1 H	2-SW-173SS175
F-C	SW	3	151-1 H	2-SW-142SS75
F-C	SW	3	152-1 H	2-SW-103SS:26
F-C	SW	3	153-1 H	2-SW-106SS211
F-C	SW	3	154-1 H	2-SW-110SS35

NSC/88-153

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CAROLINA POWER & LIGHT COMPANY, RALEIGH, NC
BRUNSWICK STEAM ELECTRIC PLANT, UNIT 2, SOUTHPORT, NC
COMMERCIAL DATE: NOVEMBER 2, 1975

SECTION 11.0

WELD AND SUPPORT
ISOMETRICS (ASME XI)

CAROLINA POWER AND LIGHT COMPANY, RALEIGH, NC
 BRUNSWICK STEAM ELECTRIC PLANT, UNIT 2, SOUTHPORT, NC
 COMMERCIAL DATE: NOVEMBER 2, 1975

IWB, IWC, IWF ISOMETRICS

ISOMETRIC NUMBER	REVISION	ISOMETRIC NUMBER	REVISION
C2404- 1-1	0	C2404- 84-1	0
2-1	0	91-1	0
3-1	0	98-1	0
5-1	0	104-1	0
6-1	0	105-1	0
7-1	0	106-1	0
8-1	0	109-1	0
9-1	0		
10-1	0		
13-1	0		
14-1	0		
15-1	0		
16-1	0		
19-1	0		
20-1	0		
21-1	0		
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23-1	0		
24-1	0		
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27-1	0		
29-1	0		
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73-1	0		
75-1	0		
76-1	0		
82-1	0		
83-1	0		

CAROLINA POWER AND LIGHT COMPANY, RALEIGH, NC
BRUNSWICK STEAM ELECTRIC PLANT, UNIT 2, SOUTHPORT, NC
COMMERCIAL DATE: NOVEMBER 2, 1975

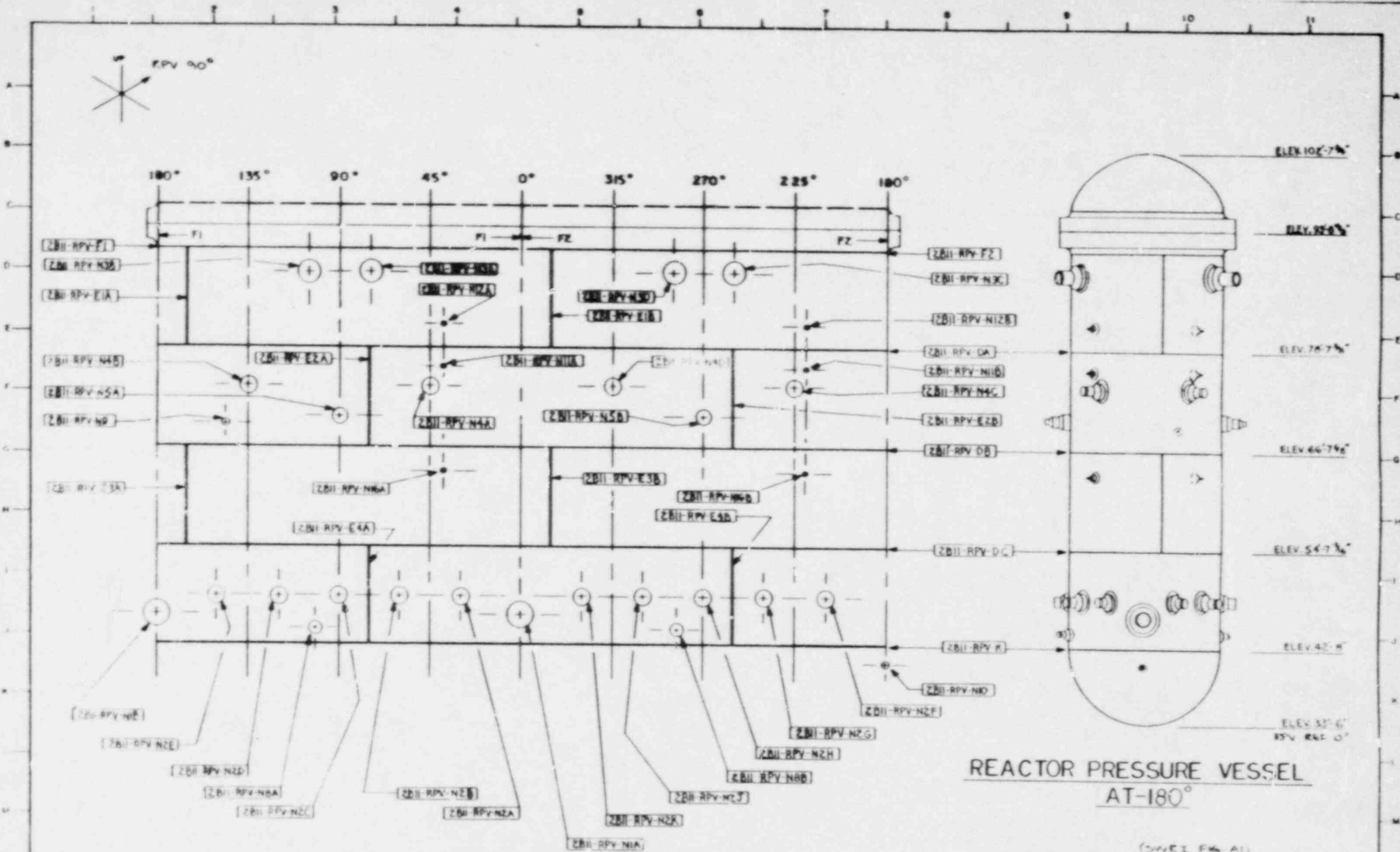
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61-1	0
64-1	0
66-1	0
67-1	0
68-1	C
69-1	0
70-1	0
71-1	0
72-1	0

CAROLINA POWER AND LIGHT COMPANY, RALEIGH, NC
BRUNSWICK STEAM ELECTRIC PLANT, UNIT 2, SOUTHPORT, NC
COMMERCIAL DATE: NOVEMBER 2, 1975

ISOMETRIC NUMBER	REVISION
C2409- 73-1	0
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76-1	0
77-1	0
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79-1	0
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120-1	0
121-1	0
122-1	0
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125-1	0
126-1	0
127-1	0
128-1	0

CAROLINA POWER AND LIGHT COMPANY, RALEIGH, NC
BRUNSWICK STEAM ELECTRIC PLANT, UNIT 2, SOUTHPORT, NC
COMMERCIAL DATE: NOVEMBER 2, 1975

ISOMETRIC NUMBER	REVISION
C2409-131-1	0
132-1	0
133-1	0
134-1	0
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162-1	0
163-1	0



REACTOR PRESSURE VESSEL
AT-180°

FOR INFORMATION ONLY

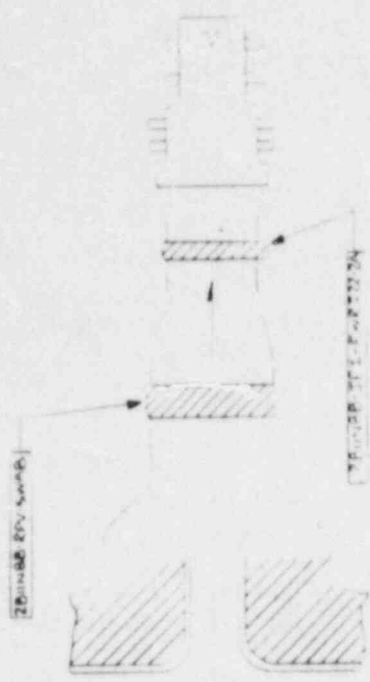
NOTE: VESSEL INTERNALS ARE DESIGNATED
ZBI-RPV-COESUPPORT, ZBI-RPV-INBELT,
ZBI-RPV-INTEROE, & ZBI-RPV-INTNONBELT.

NOTE: NOZZLE INNER RADIUS IS DESIGNATED BY
ADDING IRS TO NOZZLE IDENTIFICATION
EX: ZBI-RPV-N1B-IRS

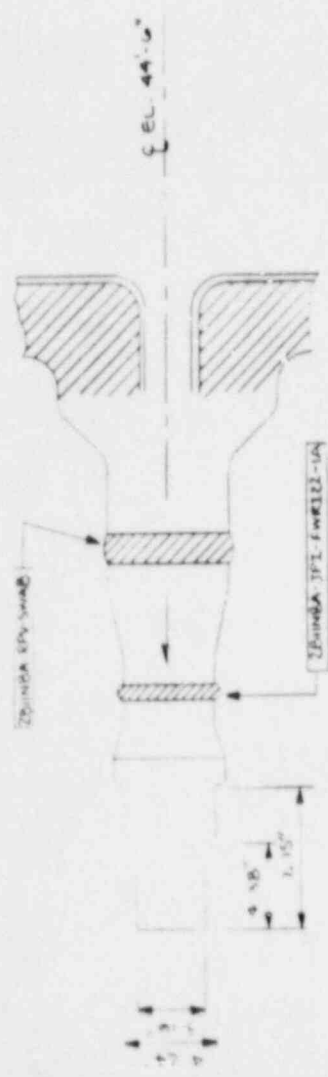
(SWEI FIG. A1)

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO DUPLICATE TEAM ELEVATION PLANT			
UNIT NO. 2			
INSERVICE INSPECTION ISOMETRIC FOR REACTOR PRESSURE VESSEL WELD & NOZZLE LOCATION			
ASME CLASS 1			
7-2404 SHEET 1-1			

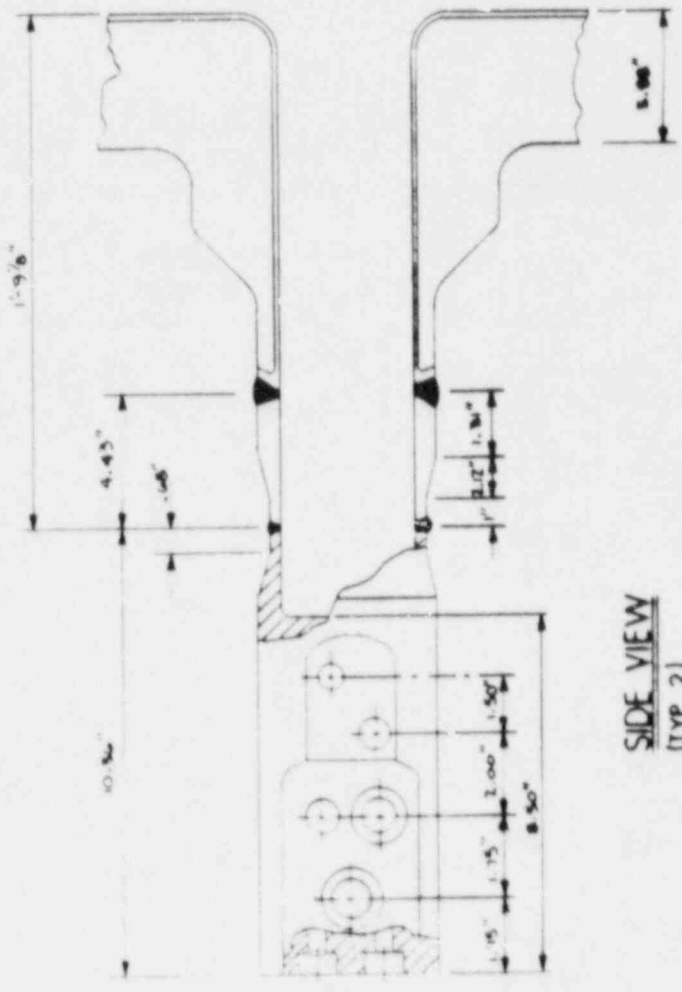
DRAWN
J.C. HAUBNER
BY
J. Connelly
7-2404



TOP VIEW
NOZZLE - N8B
AZIM. 285°



TOP VIEW
NOZZLE - N8A
AZIM. 105°



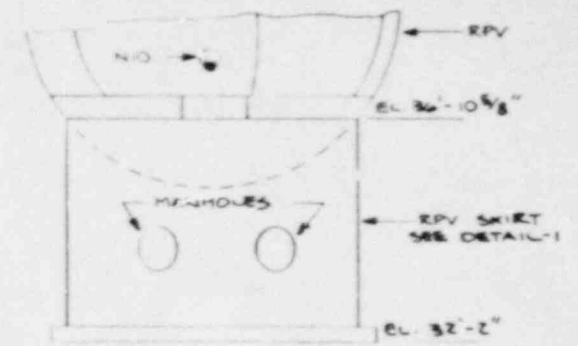
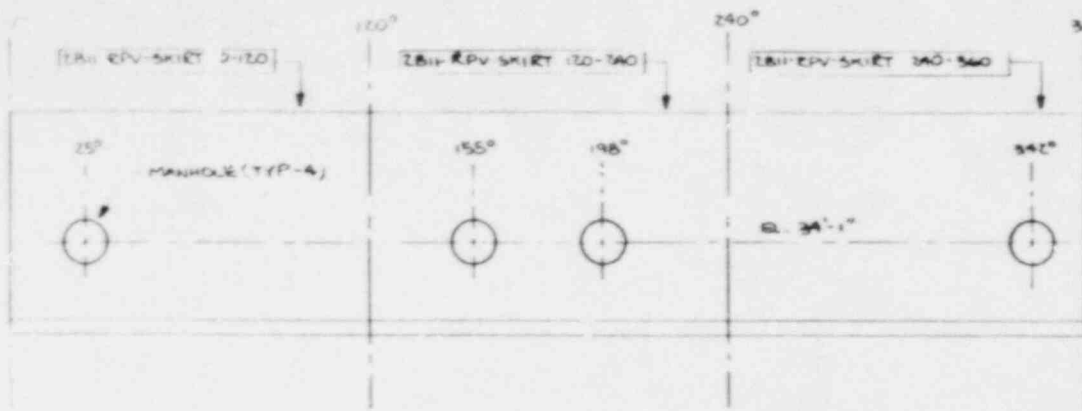
SIDE VIEW
(TYP. 2)

FOR INFORMATION ONLY

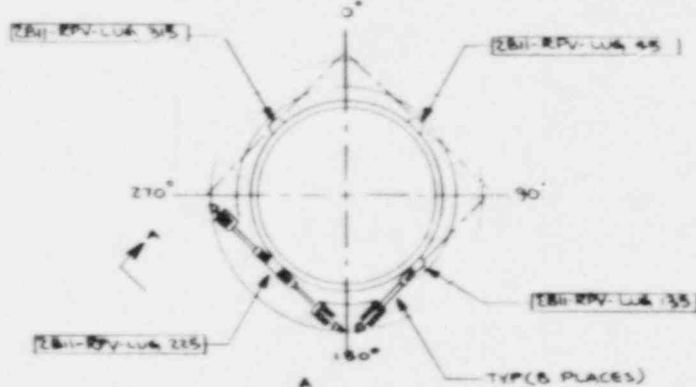
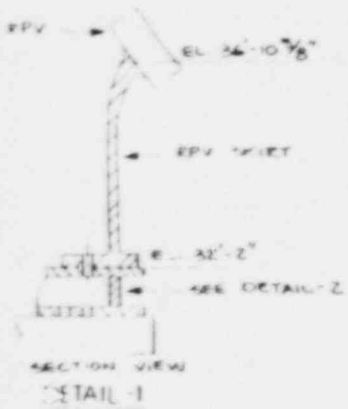
NO.	DATE	REVISION

CAROLINA POWER & LIGHT CO.
MEMPHIS STEAM ELECTRIC PLANT
(UNIT NO. 2)
SERVICE INSPECTION ISOMETRIC FOR
REACTOR PRESSURE VESSEL
NOZZLE DETAIL
C. 2404 SHEET 3-1 0

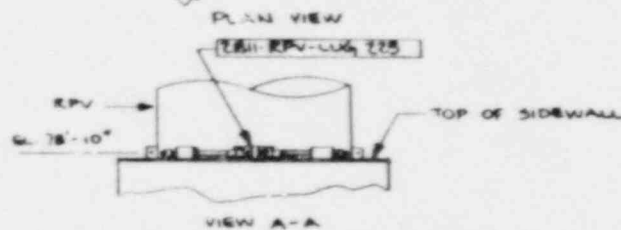
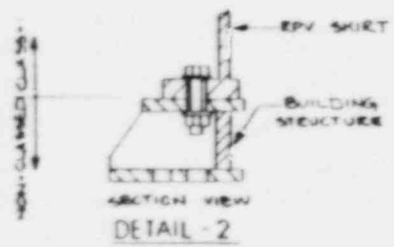
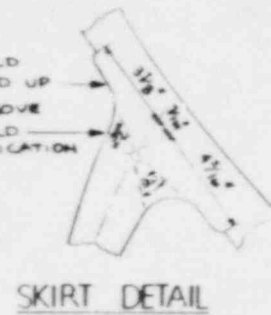
INSPECTED BY
C. J. [Signature]
C. J. [Signature]
C. J. [Signature]



RPV SKIRT
AT 180°



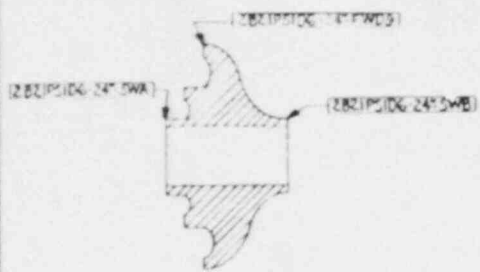
WELD BUILD UP
SEE ABOVE
FOR WELD
IDENTIFICATION



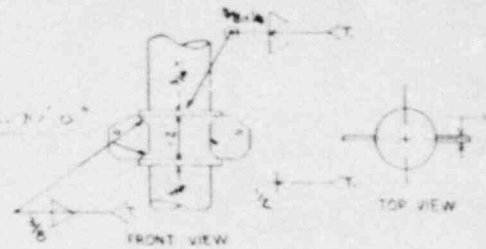
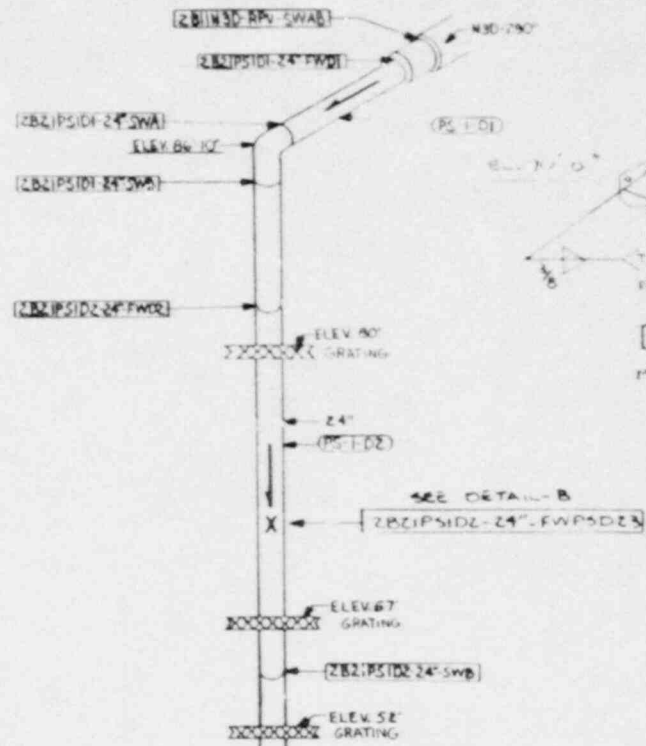
RPV STABILIZER

FOR INFORMATION ONLY

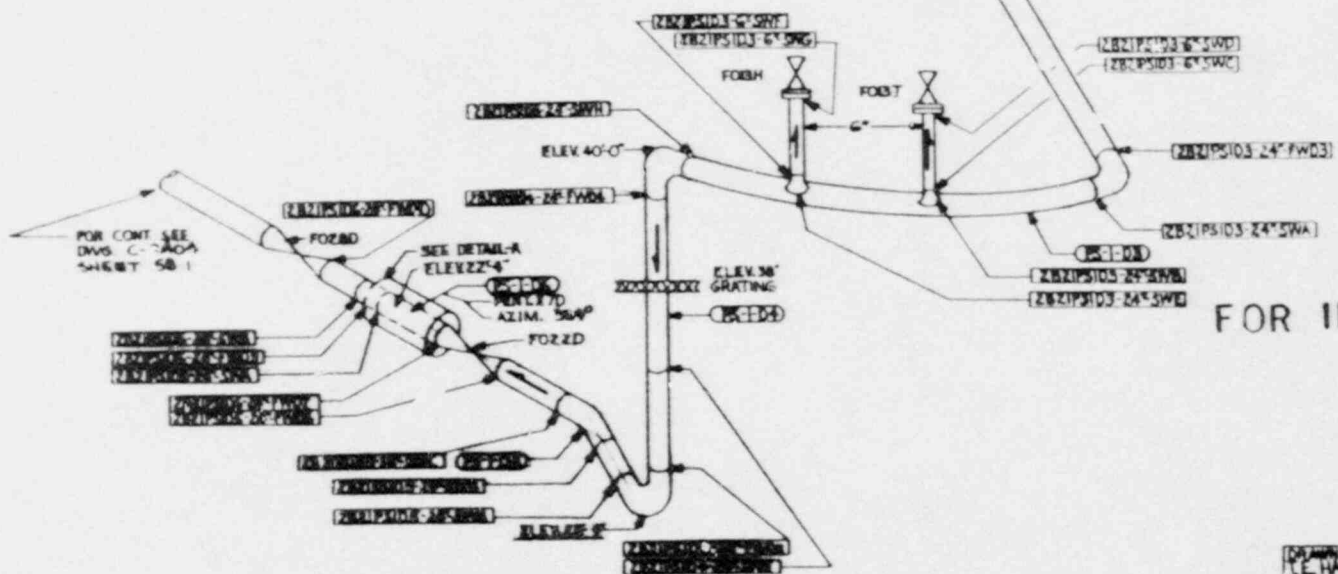
NO	DATE BY	REVISION
CAROLINA POWER & LIGHT CO BRUNSWICK STEAM ELECTRIC PLANT		
UNIT NO. 2		
INSERVICE INSPECTOR SIGNATURE FOR REACTOR PRESSURE VESSEL WELD SUPPORT LOCATION CLASS 1		
DATE	BY	NO.
10/1/80	C-2404	10
SHEET 5-1		10



DETAIL-A
FLUED-HEAD



DETAIL-B
MARK NO. Z-P5N-D7C4-67



FOR CONT. SEE
DIV. C-7A0A
SHEET 5B-1

FOR INFORMATION ONLY
(SWEL FIG. A9 & A10)

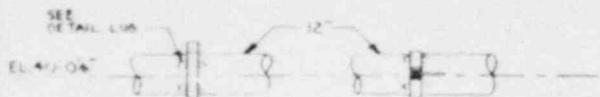
NOTE: VALVE DESIGNATION Z-BZ-XXXX
EX: Z-BZ-FO13J.

REF DWG.
P5-N-300-EXT-4

DESIGNED BY
E. HAUBNER
CHECKED BY
D. Connelly
DATE
10/2/57

NO.	DATE BY	REVISION

CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR
PRIMARY STEAM SYSTEM
LOOP 'D' WELD LOCATION
CLASS 2
C-7A0A SHEET 9-1



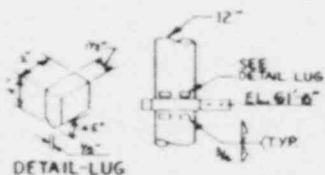
FRONT VIEW

BOTTOM VIEW

DETAIL LUG

DETAIL-C

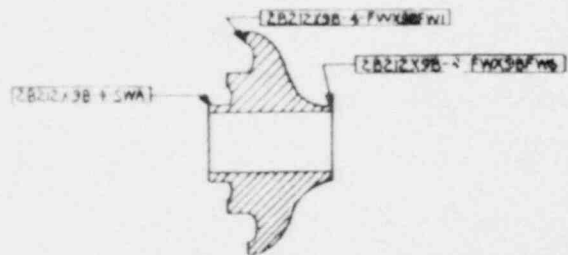
MARK NO. 2-BCL-65225



DETAIL-LUG

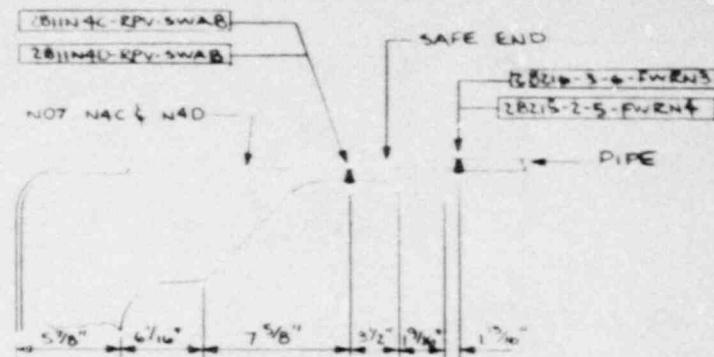
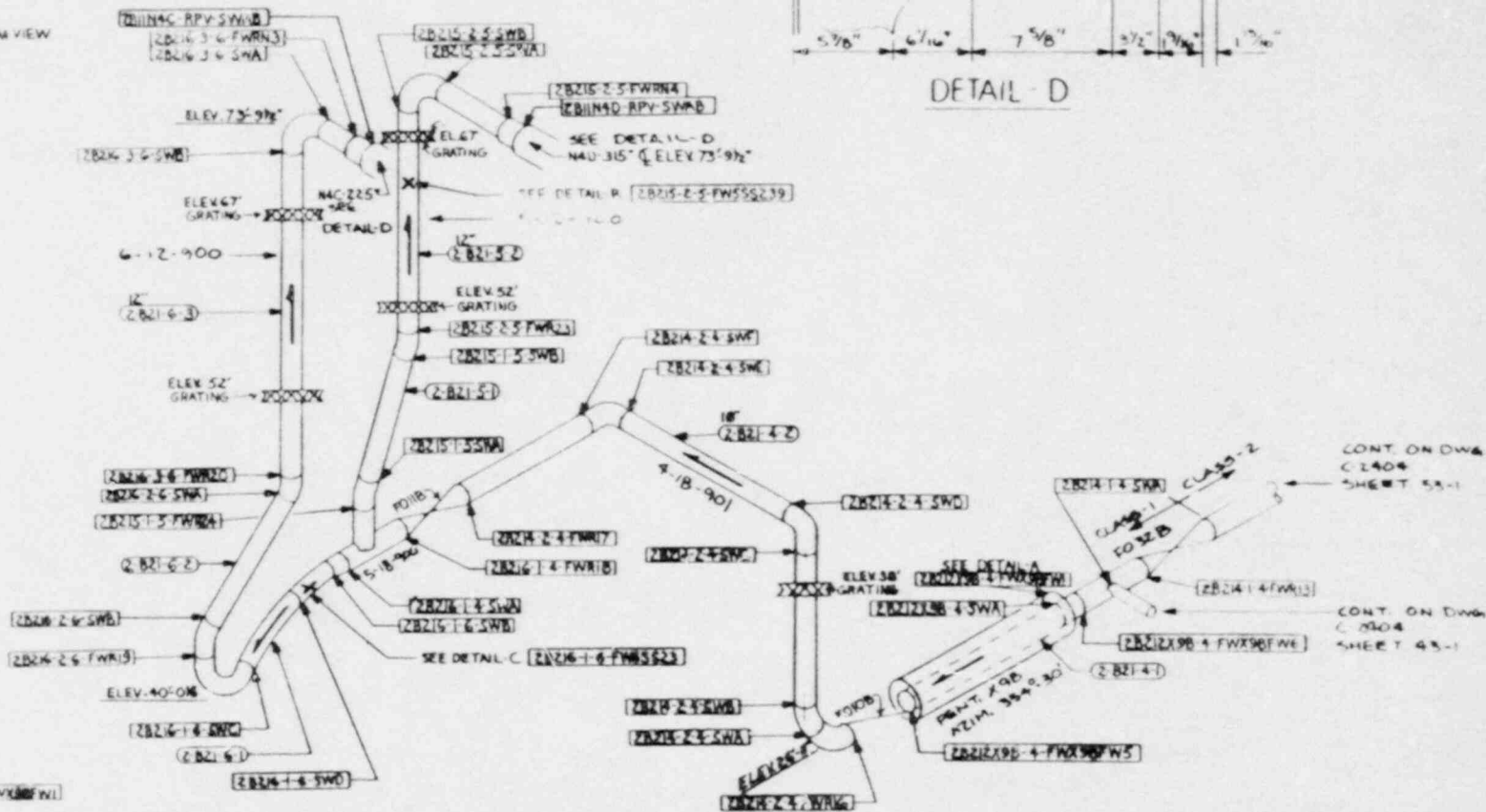
DETAIL-B

MARK NO. 2-BCL-55239



DETAIL-A
FLUED-HEAD

NOTE: VALVE DESIGNATION: ZB21-KKXX
EX: ZB21-FO10B

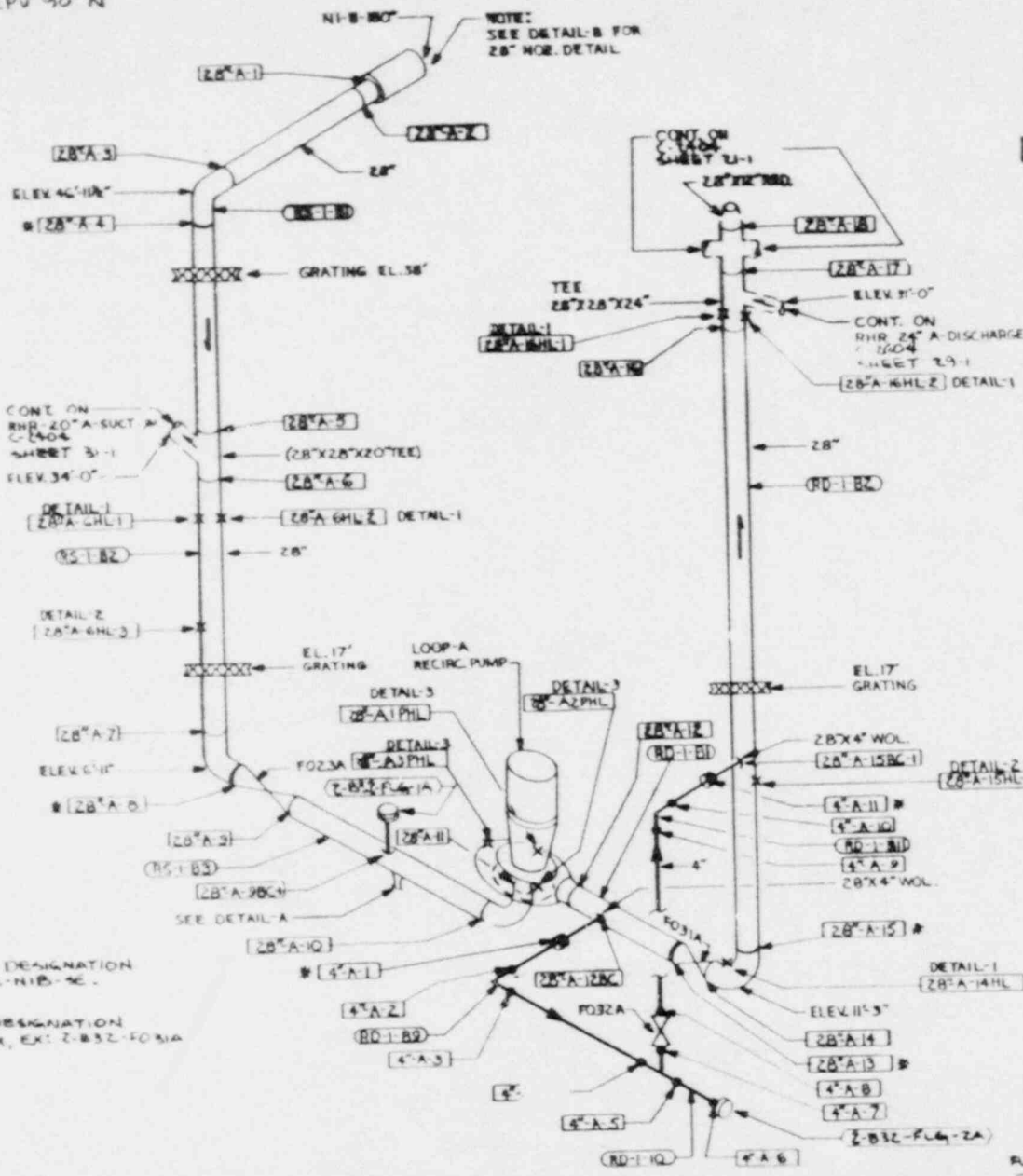
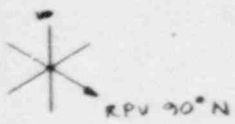


DETAIL-D

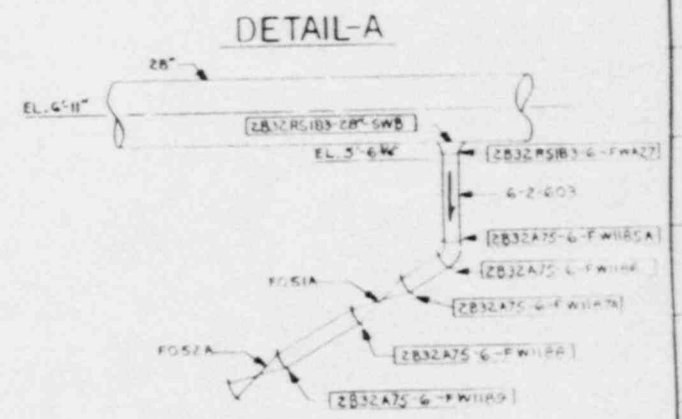
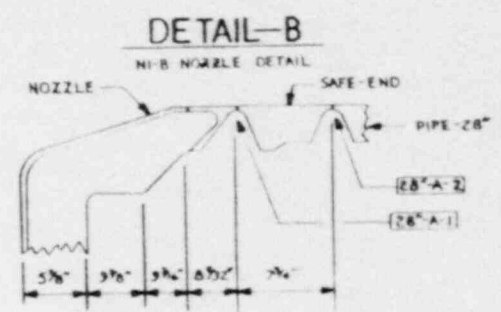
FOR INFORMATION ONLY

NO DATE BY	REVISION
CAROLINA POWER & LIGHT CO WPL ISWICK STEAM ELECTRIC PLANT	
UNIT NO 2	
INSERVICE INSPECTION ISOMETRIC FOR FLUEWATER SYSTEM LOOP-B	
WELD LOCATION	
PIPE CLASS 2	
C-2404 SHEET 53-1	

W. J. ...
C. ...



FOR INFORMATION ONLY



(SHEET FIG. 4-5)

NO.	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO
 ENGINEERING - STEAM SYSTEMS GROUP
 UNIT NO. 2
 INSERVICE INSPECTION ISOMETRIC FOR
 REACTOR RECIRCULATION SYSTEM
 WELD LOCATION
 ASME CLASS 2
 K 2404 SHEET 19-1

NOTE: SAFE END DESIGNATION ZB32RECIRC-NIB-36.

NOTE: VALVE DESIGNATION Z-RZ-XXXX, EX: Z-B32-F031A

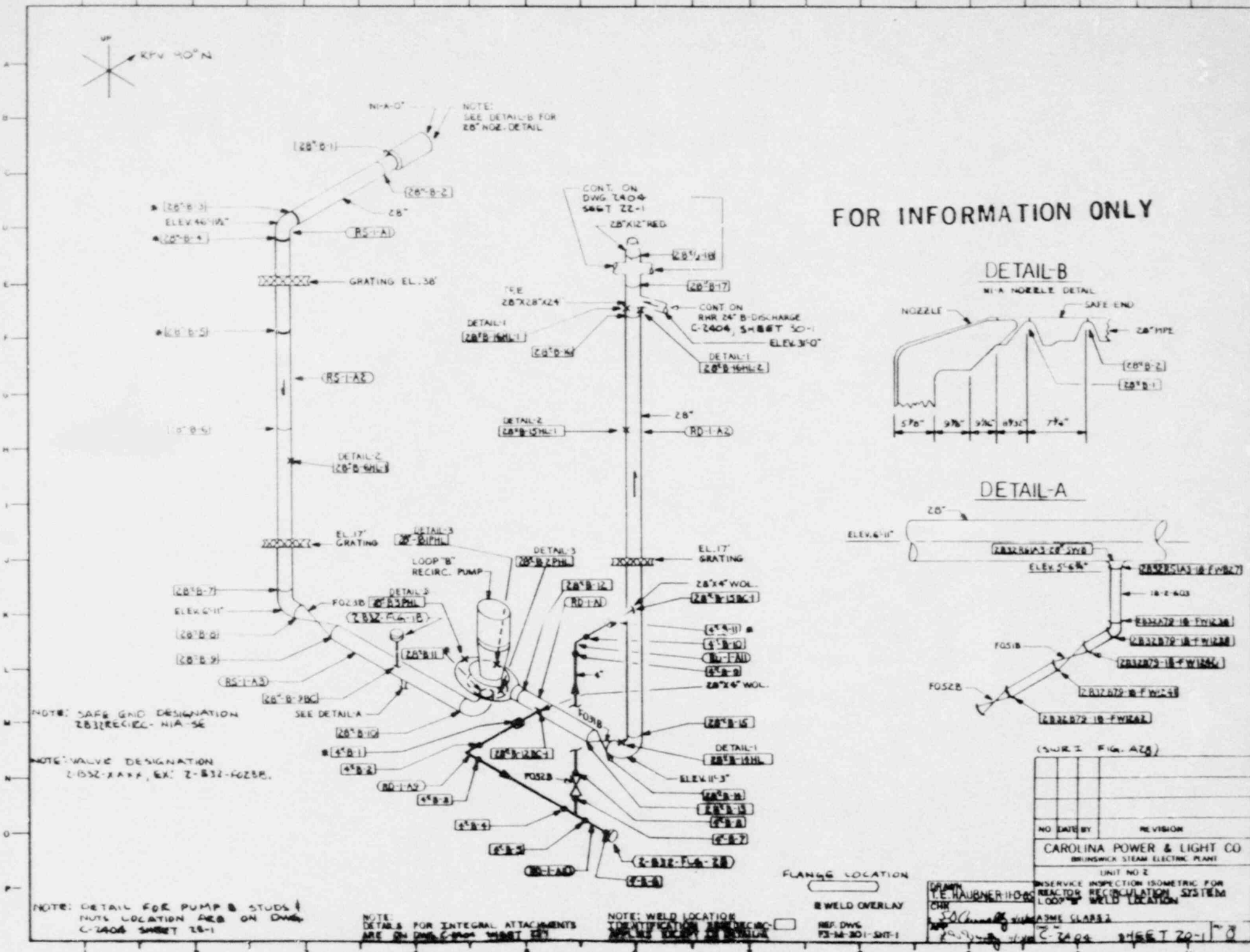
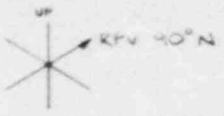
NOTE: DETAIL FOR PUMP A STUDS & NUTS LOCATION ARE ON TBA 2304 SHEET 25-11.

NOTE: DETAILS FOR INTEGRAL ATTACHMENTS ARE ON DWG. C-2404 SHEET 23-1

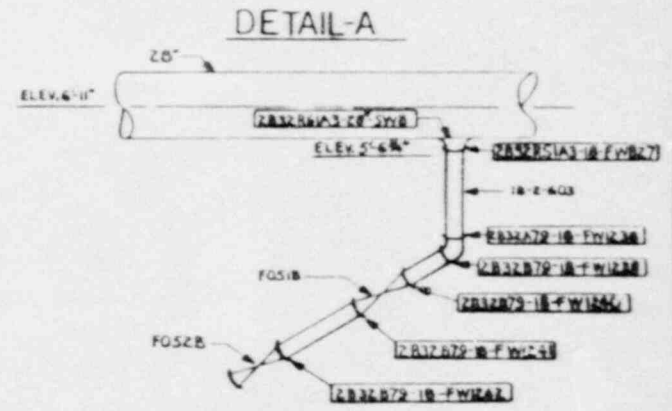
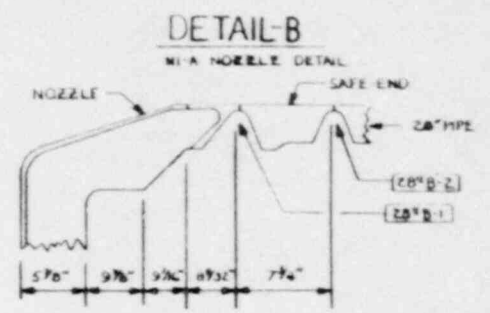
NOTE: WELD LOCATION IDENTIFICATION ZB32RECIRC-□ APPLIES EXCEPT IN DETAIL-A.

PIPE LOCATION
 WELD OVERLAY
 REF. DWG. FS-M-302-SHT-1

DRAWN
 I.E. HAUBNER
 CHECKED
 J.D. Connelly
 APP
 0



FOR INFORMATION ONLY



NOTE: SAFE GND DESIGNATION
ZB32RECIRC-N/A-56

NOTE: VALVE DESIGNATION
Z-B32-XA-X, EX: Z-B32-FOZB.

NOTE: DETAIL FOR PUMP B STUDS &
NUTS LOCATION ARE ON DWG.
C-2406 SHEET ZB-1

NOTE: DETAILS FOR INTEGRAL ATTACHMENTS
ARE ON DWG. C-2406 SHEET ZB-1

NOTE: WELD LOCATION
IDENTIFICATION ARE ON DWG.
C-2406 SHEET ZB-1

FLANGE LOCATION

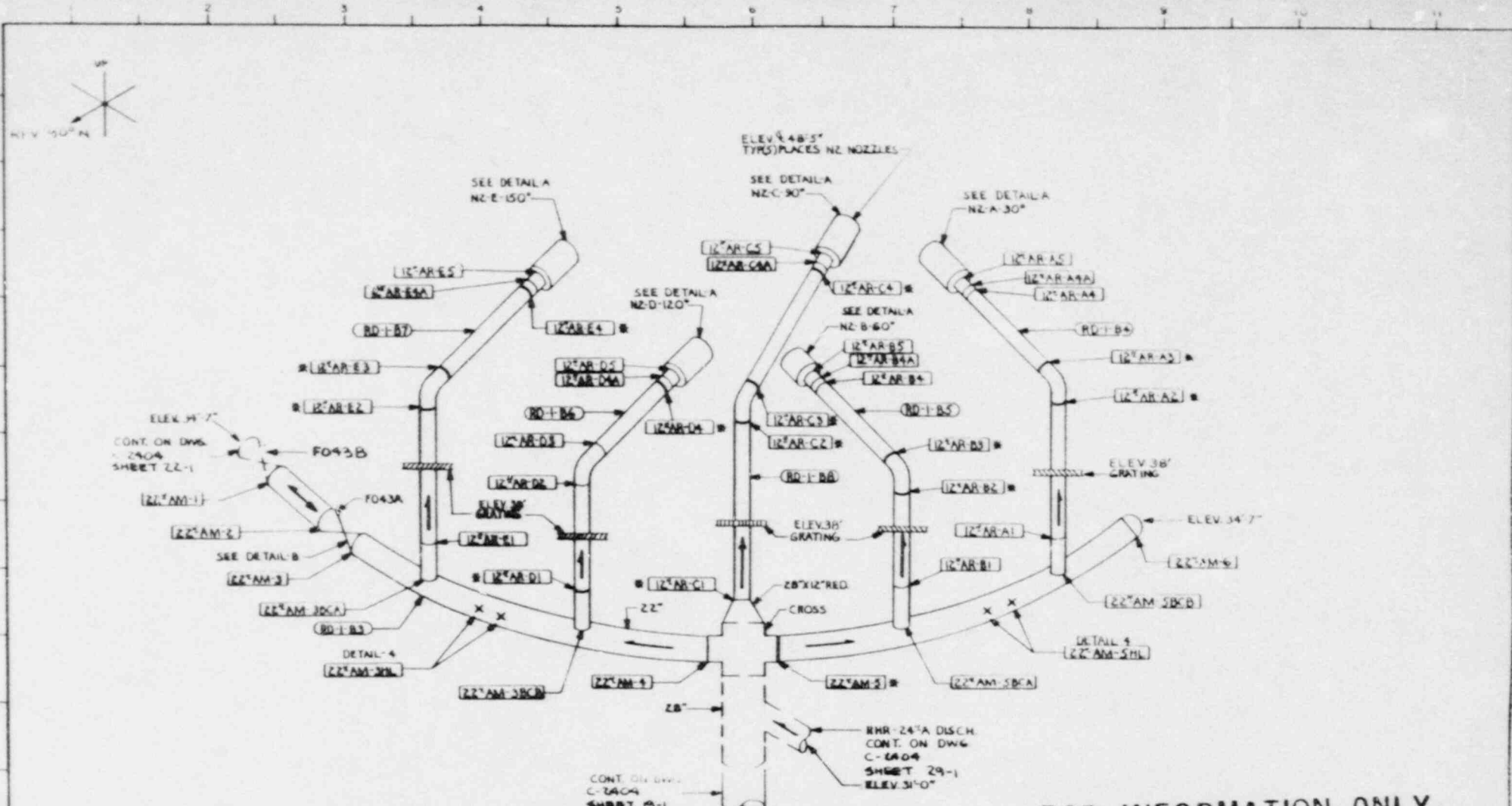
W WELD OVERLAY

REF. DWG
P3-M-301-SHT-1

(SHEET FIG. A28)

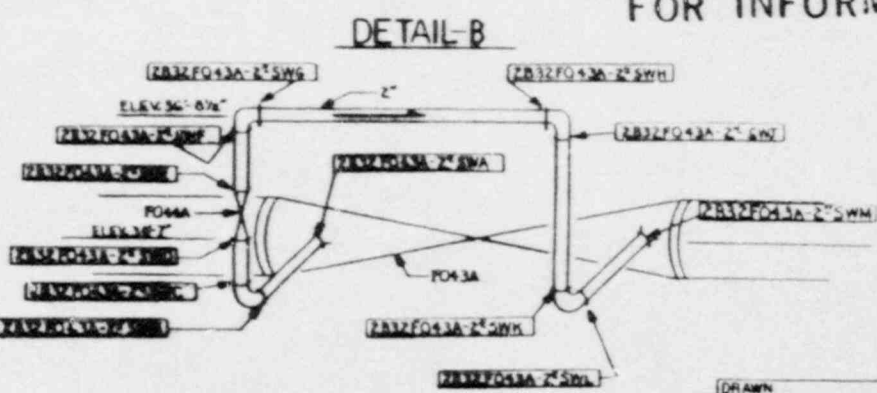
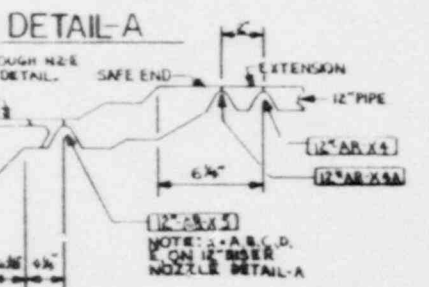
NO.	DATE BY	REVISION
CAROLINA POWER & LIGHT CO BRINNICK STEAM ELECTRIC PLANT		
UNIT NO 2		
INSERVICE INSPECTION ISOMETRIC FOR REACTOR RECIRCULATION SYSTEM LOOP B WELD LOCATION		
ASME CLASS 2		
C-2406 SHEET ZB-1		

DRN
T.E. HAUBNER-110-0
CHR
SAC
C-2406 SHEET ZB-1



NOTE: 1. END ORIGINATION
 Z: 12\"/>

NOTE: VALVE DESIGNATION
 Z-BBZ-X A X A A, B, Z: Z-BW-F043A



NOTE: WELD LOCATION IDENTIFICATION APPLIES EXCEPT WHERE SHOWN OTHERWISE

WELD OVERLAY

REF. DWG. M-302-SHT1

FOR INFORMATION ONLY

(SEE FIG. A31 & A29)

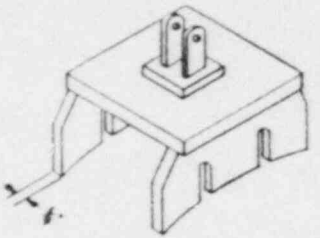
NO.	DATE BY	REVISION

CAROLINA POWER & LIGHT CO.
 BRUNSWICK STEAM ELECTRIC PLANT
 UNIT NO. 2

INTERVIEW INSPECTION ISOMETRIC FOR REACTOR RECIRCULATION SYSTEM LOOP A WELD LOCATION

ASME CLASS 2

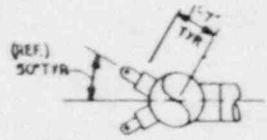
C-2404 SHEET 21-1



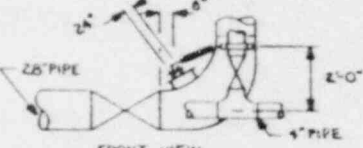
TOP VIEW
DETAIL FOR HANGERS
28^A-4HL1 & 4HL2.



TOP VIEW
DETAIL FOR HANGERS 28^A-14HL & 28^B-14HL

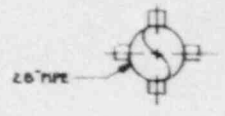


TOP VIEW
DETAIL FOR HANGERS 28^A-15HL1, 28^B-15HL1, & 28^B-15HL2.

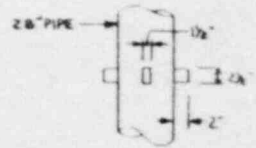


FRONT VIEW
DETAIL FOR HANGERS 28^A-14HL & 28^B-14HL

DETAIL-1

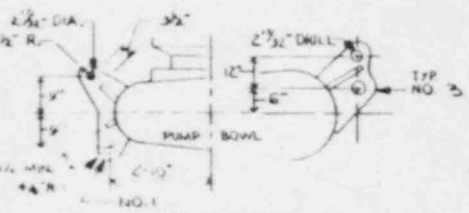


TOP VIEW

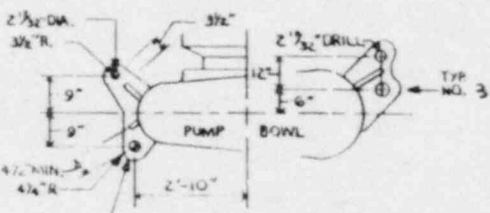


FRONT VIEW
DETAIL FOR HANGERS
28^A-4HL3, 28^A-15HL1, 28^B-4HL1, & 28^B-15HL1.

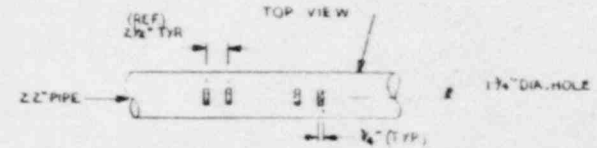
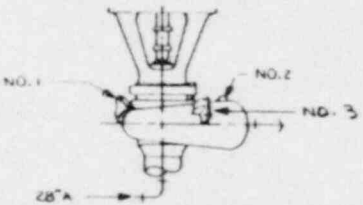
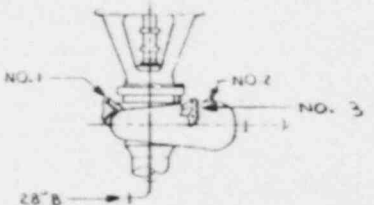
DETAIL-2



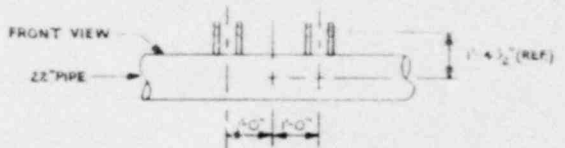
RECIRC. LOOP B PUMP



RECIRC. LOOP A PUMP



TOP VIEW



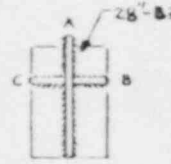
FRONT VIEW

DETAIL-4

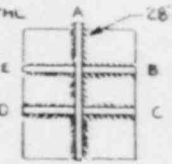
DETAIL FOR HANGERS 22^A-AM 3HL, 3HL & 22^B-AM-1HL, 3HL.

(SEE FIG. ASS. ASG PUMP
LUGS ONLY)

FOR INFORMATION ONLY

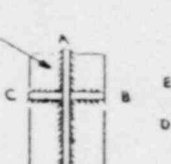


(1 PER PUMP)

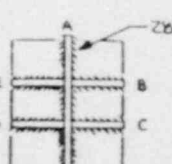


(2 PER PUMP)

DETAIL-3



(1 PER PUMP)



(2 PER PUMP)

CAUTION: THIS DRAWING TO BE USED
IN CONJUNCTION WITH C-2904
SHEETS N, O, Z1, & Z2

NO.	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO
BRIDGEWATER STEAM ELECTRIC PLANT

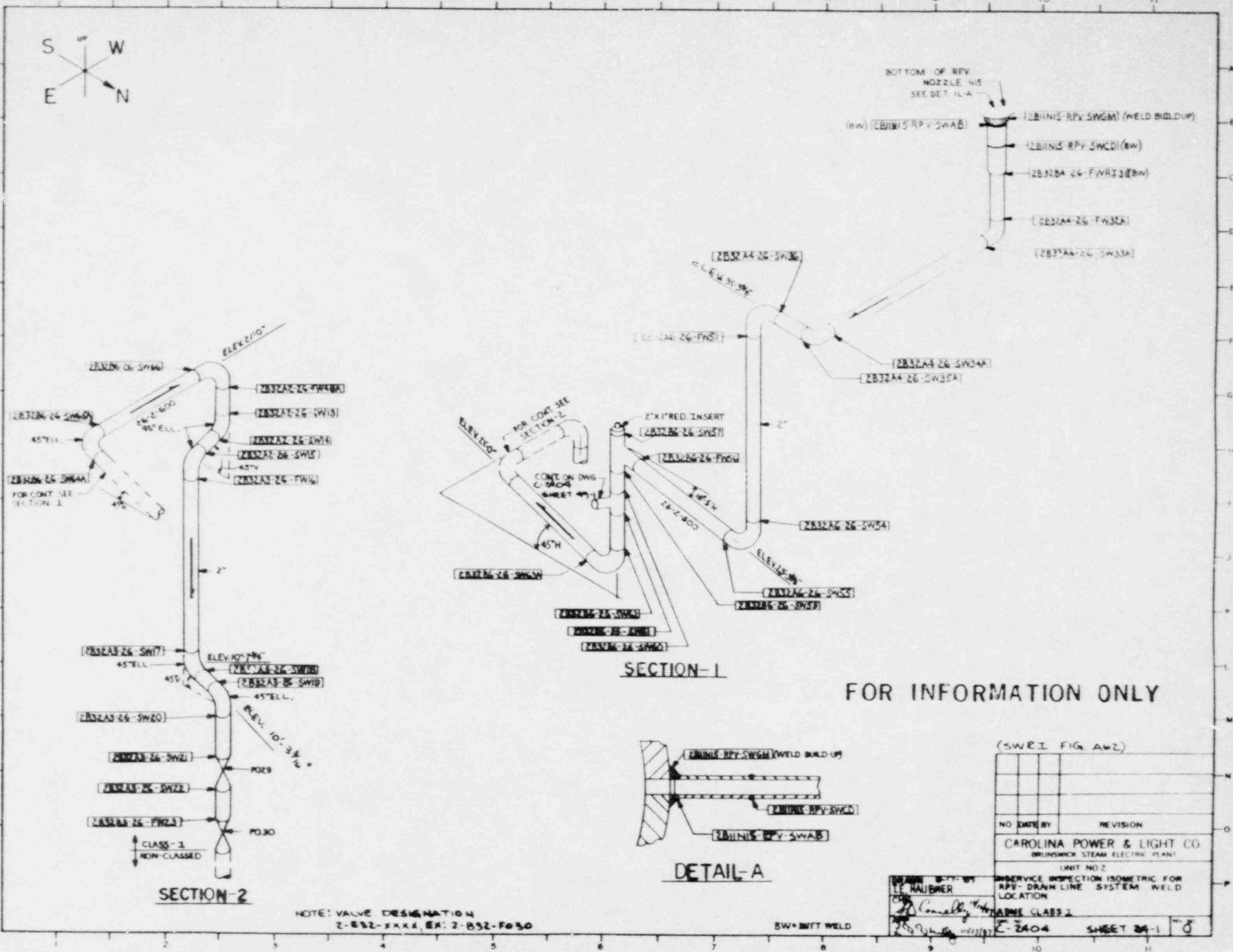
1981 NO. 2

INSERVICE INSPECTION ISOMETRIC FOR
REACTOR RECIRCULATION B-F-I
INTEGRALLY WELD ATTACHMENT

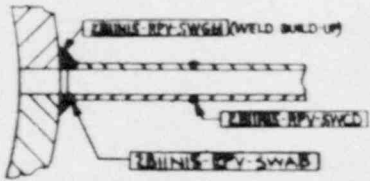
ASME CLASS 2

C-2904 SHEET Z-1

DRAWN
T.E. HAUBNER-HBOS
CHK
J.L. B. (11/1/81)
APP
J.L. B.



FOR INFORMATION ONLY



DETAIL-A

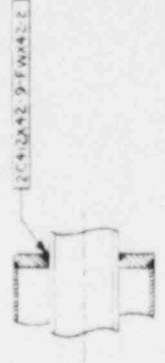
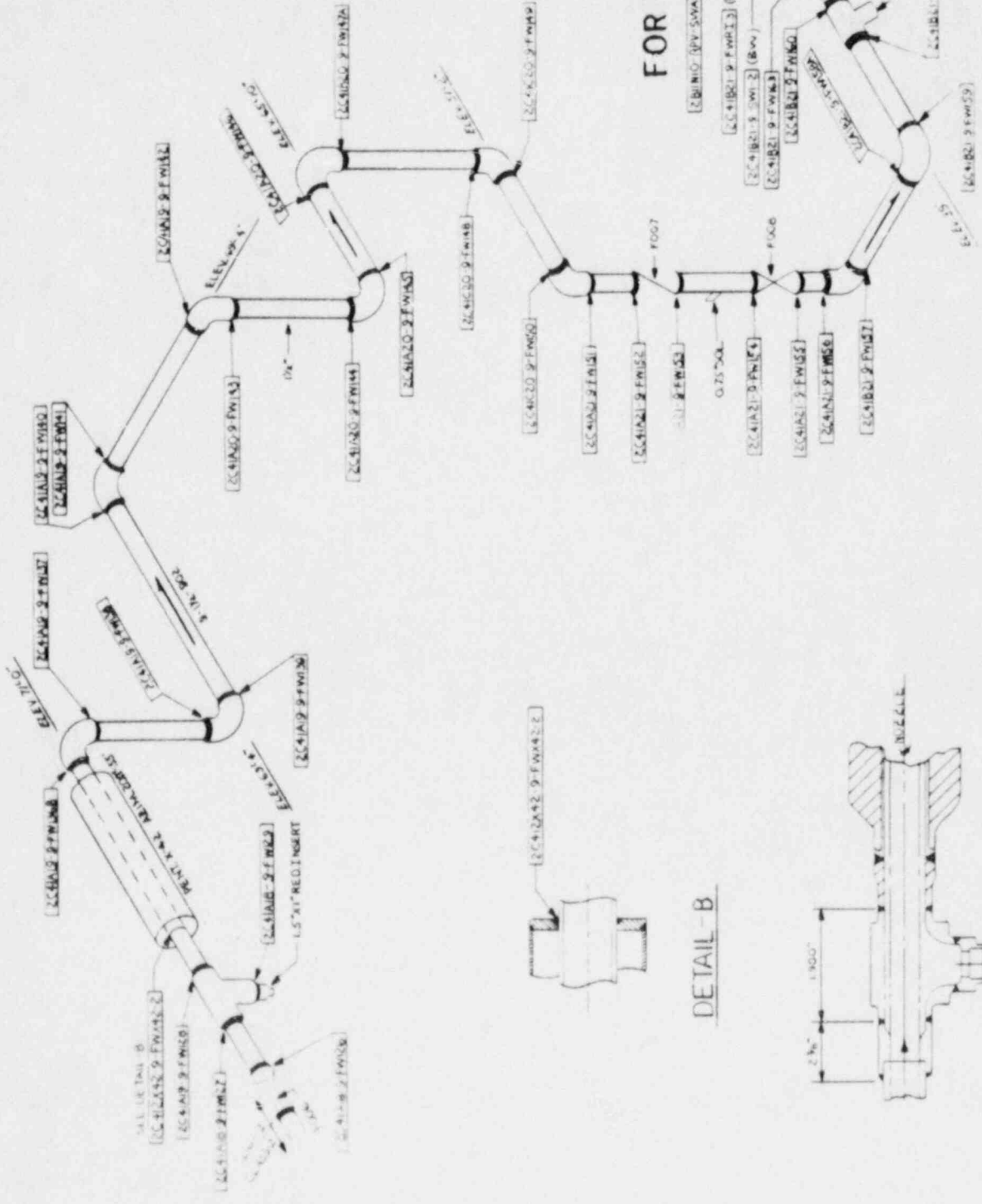
NOTE: VALVE DESIGNATION
Z-B52-XXXX, EX: Z-B52-F030

BW= BUTT WELD

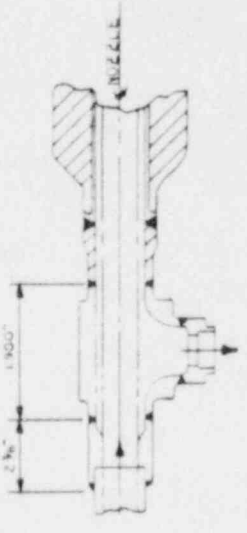
DESIGNED BY
E. HAUBNER
CHECKED BY
C. Connelly
DATE
11/17/77

(SWRI FIG. A6Z)

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO BRUNSWICK STEAM ELECTRIC PLANT UNIT NO 2 INSERVICE INSPECTION ISOMETRIC FOR RPV-DRAIN LINE SYSTEM WELD LOCATION NAME CLASS 2 C-2A04 SHEET 29-1			



DETAIL-B



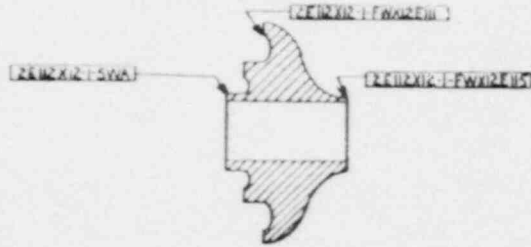
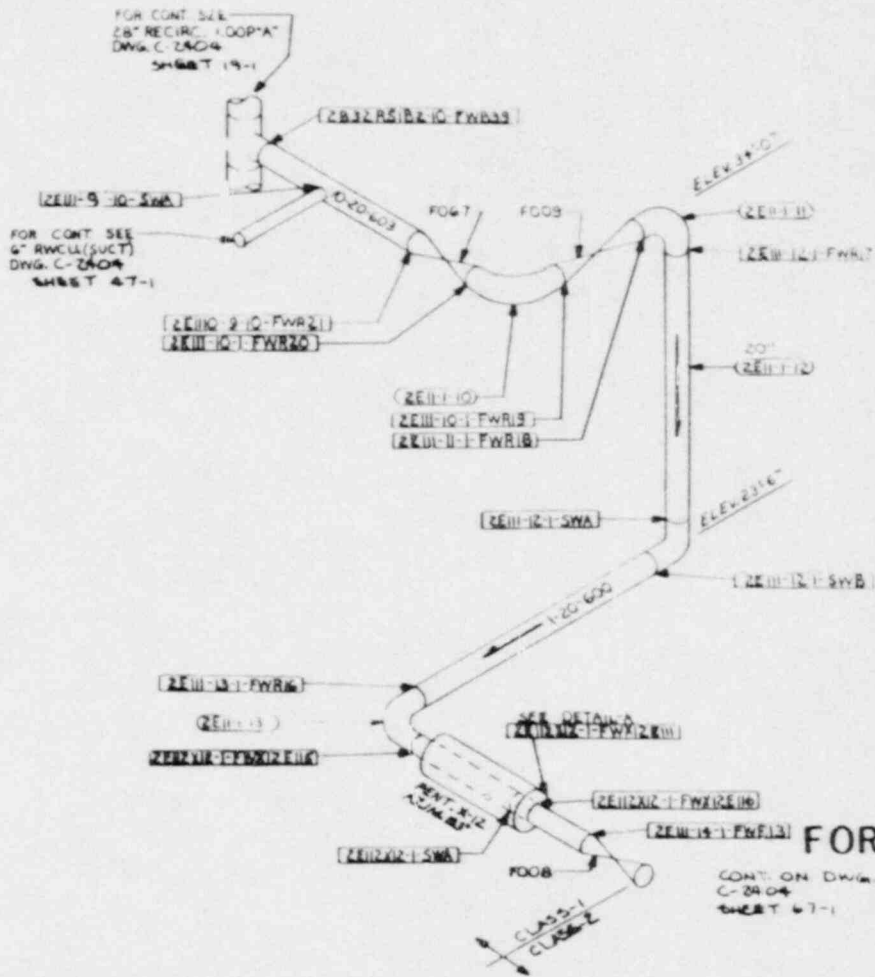
DETAIL-A
NOZZLE N-10

FOR INFORMATION ONLY

NO.	DATE	BY	REVISION

DRAWN BY: BT
 CHECKED BY: BT
 PROJECT: NOZZLE N-10
 LOCATION: CAROLINA PRINCE & HIGHT
 SHEET NO. 2

NOTES: UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES.



DETAIL-A
FLUID-HEAD

NOTE: VALVE DESIGNATION Z-B1-XXXX
BX: Z-B11-7067

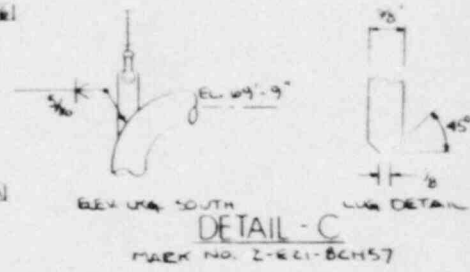
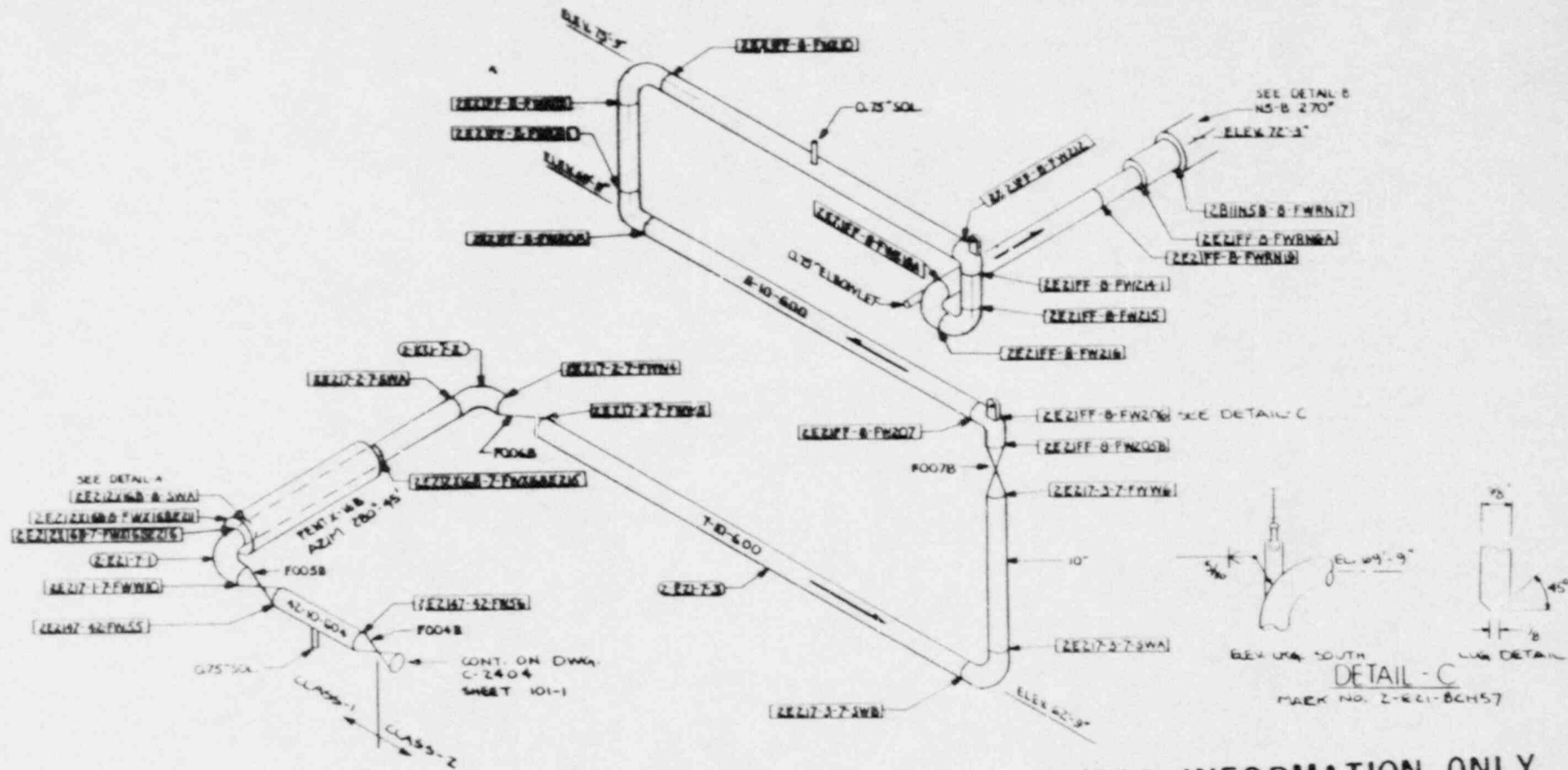
FOR INFORMATION ONLY

CONT. ON DWG.
C-2404
SHEET 31-1

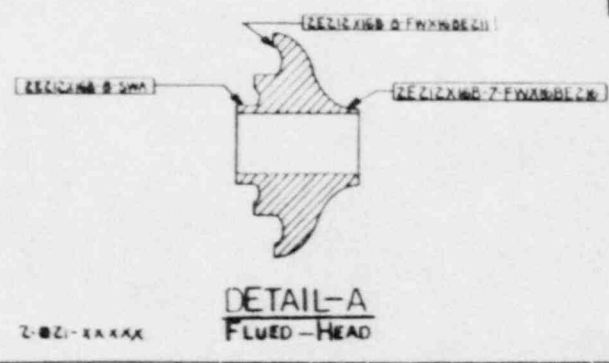
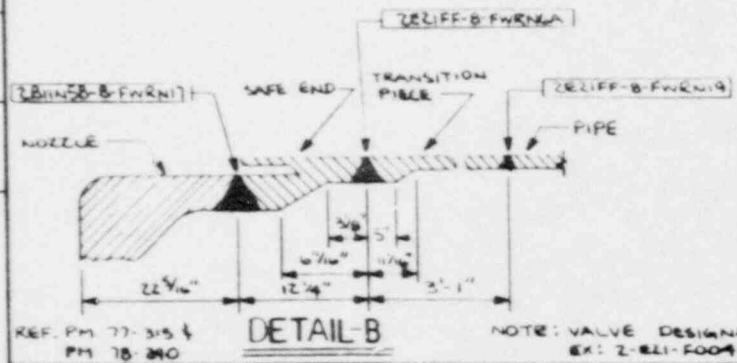
DRAWN
T.E. HALBNER
CHECKED
C. J. [Signature]
DATE 7-1-57

(SMALL FIG. ASS)

NO.	DATE BY	REVISION
CAROLINA POWER & LIGHT CO BRUNSWICK STEAM ELECTRIC PLANT		
UNIT NO 2		
SERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL (SHUTDOWN COOLING SUCTION) WELD LOCATION		
ASME CLASS 3		
C-2404	SHEET 31-1	0



FOR INFORMATION ONLY



NO.		DATE	BY	REVISION
CAROLINA POWER & LIGHT CO. WENDELL LEAM ELECTRIC PLANT UNIT NO. 2 INSERVICE INSPECTION ISOMETRIC FOR CORE SPRAY 10" B DISCHARGE SYSTEM WELD LOCATION ASME CLASS I C-2404 SHEET 30-1				

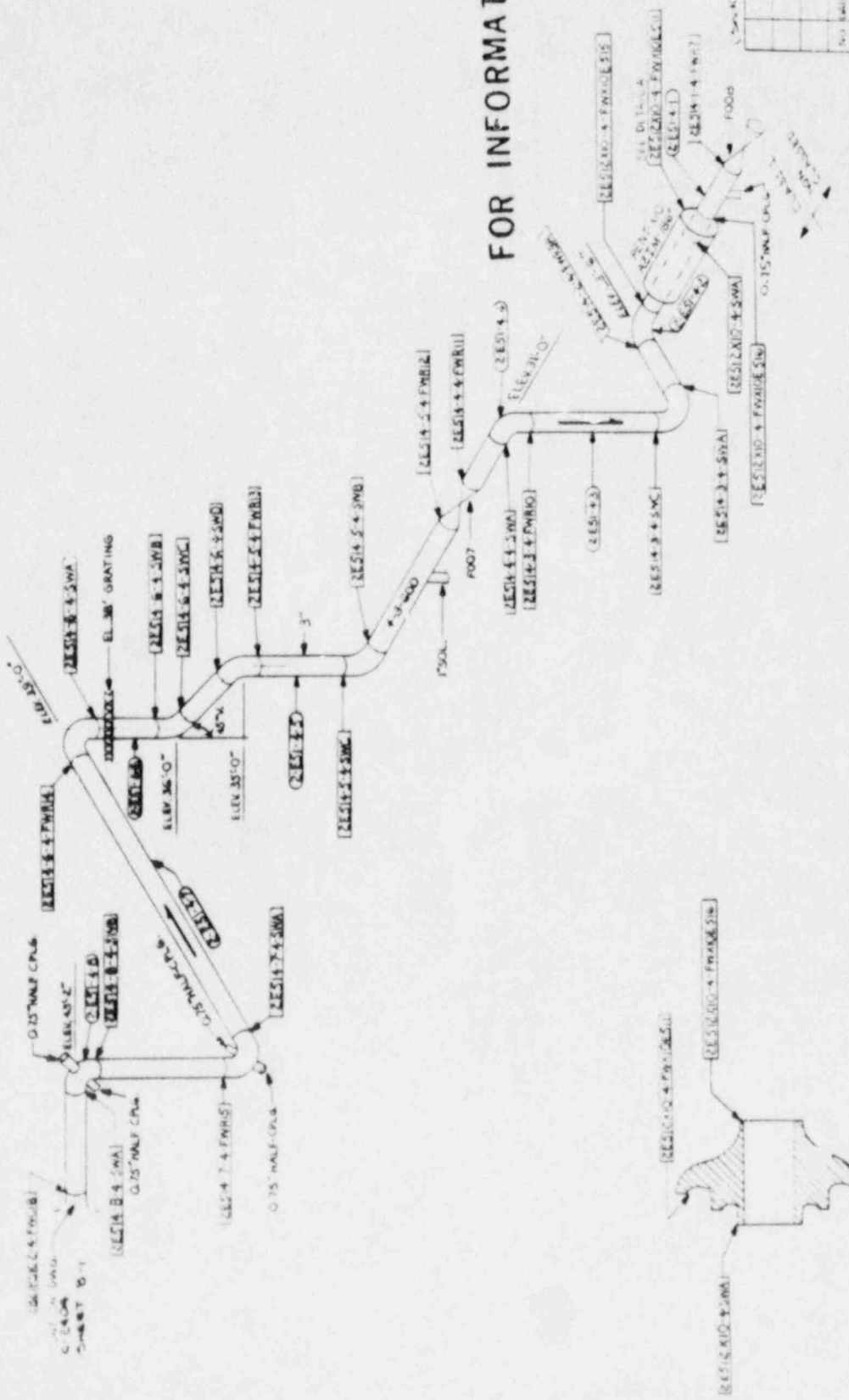
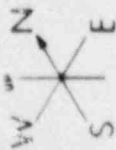
REF. PH 77-315 &
PH 78-210

DETAIL-B

NOTE: VALVE DESIGNATION Z-BZ1-XXXX
EX: Z-BZ1-F004B

DETAIL-A
FLUED-HEAD

DRAWN
T.E. WAUBNER
NO. 480
APP
C-2404 SHEET 30-1



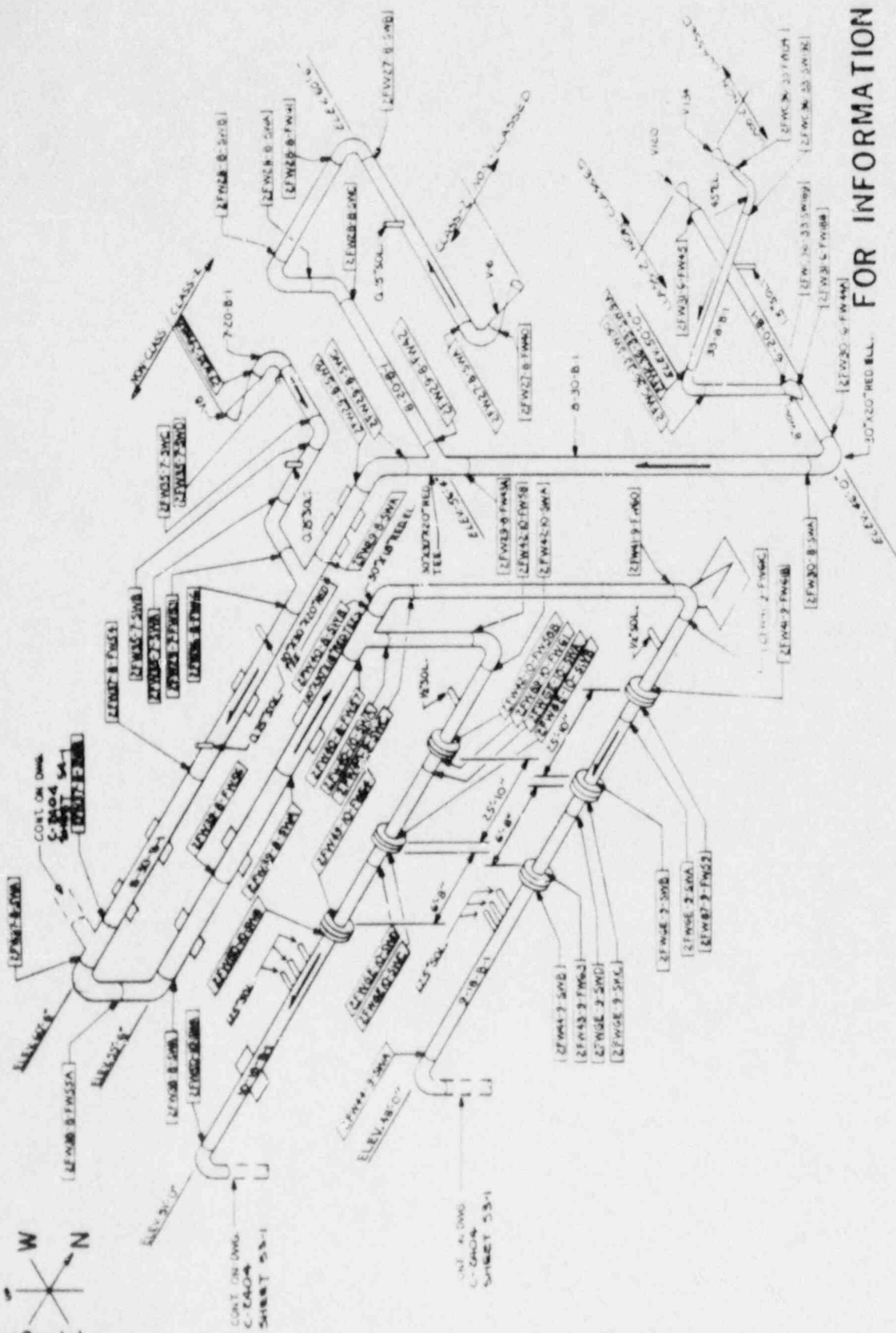
DETAIL-A
FLUED-HEAD

NOTE: VALVE COMBINATION Z-ES1-AAAA
 EX: Z-ES1-FOOT

FOR INFORMATION ONLY

NO. SHEET	NO. SHEETS
CAROLINA POWER & LIGHT CO.	
MEMBER ENGINEERING DIVISION FOR HEAVY AND INDUSTRIAL WORK HEAVY SUPPLY DIVISION HEAVY CONSTRUCTION	

DATE: 10-1-27
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 PROJECT NO.: [Number]
 SHEET NO.: [Number]

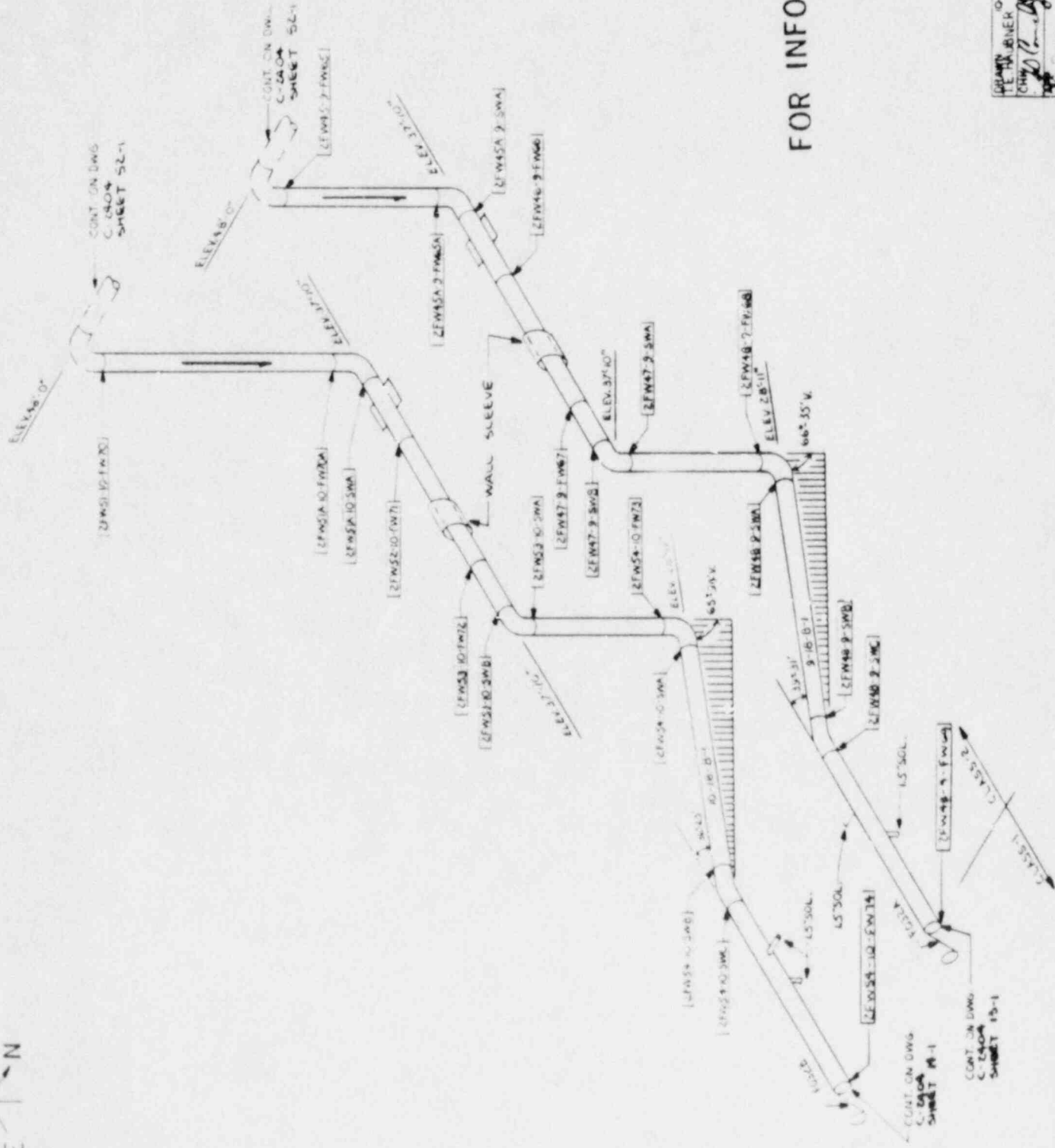


FOR INFORMATION ONLY

NO.	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO.
 ENGINEERING DEPARTMENT
 1000 S. W. BROAD ST.
 RALEIGH, N. C. 27604

PROJECT NO. 2404
 SHEET 53-1

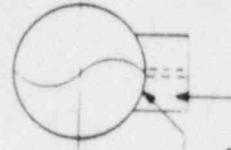
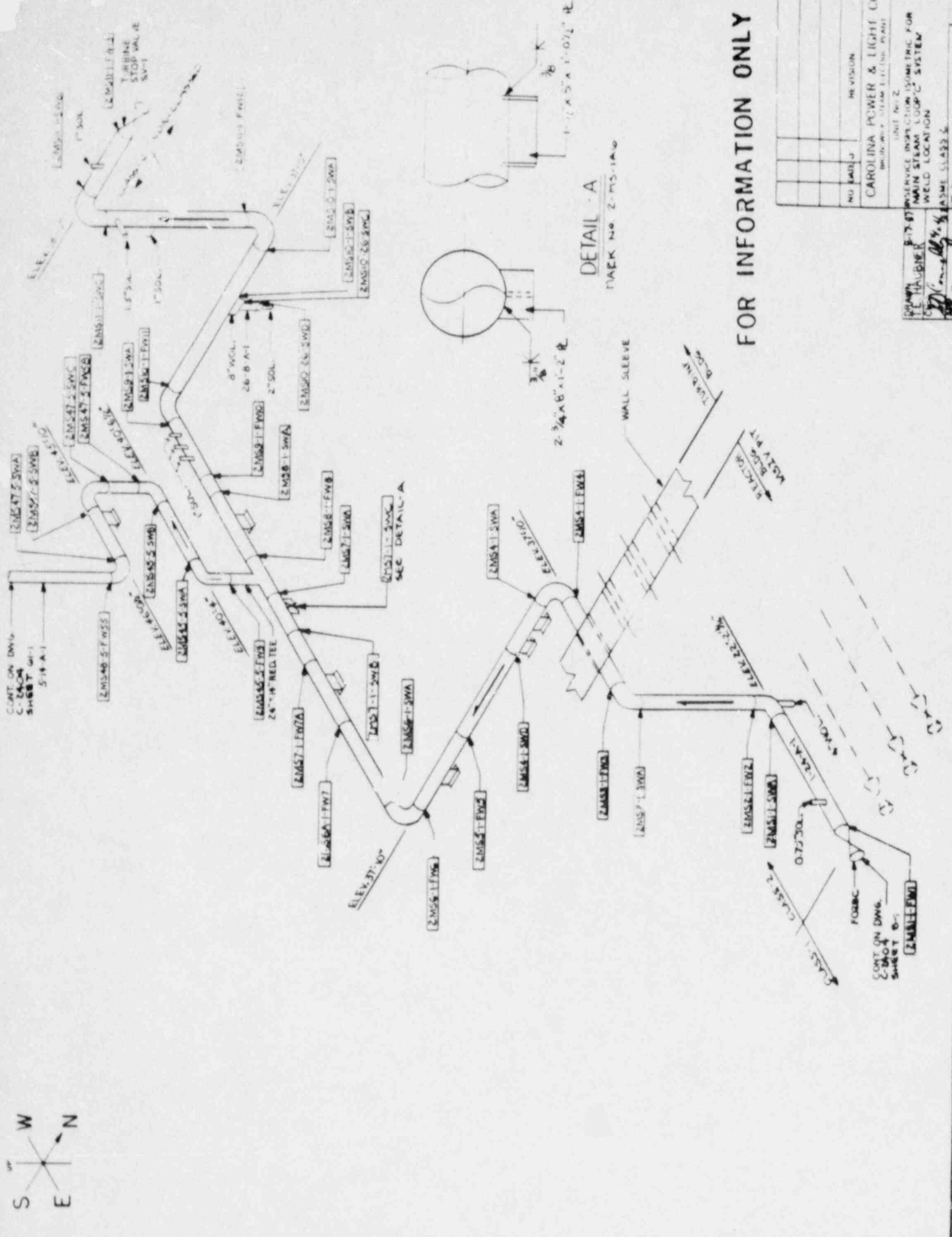
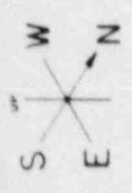


FOR INFORMATION ONLY

NO.	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO.
 PROJECT NO. 2
 SERVICE INSPECTION ISOMETRIC FOR
 CLASS 2 FEED WATER SYSTEM WELLS
 LOCATION
 UNIT NO. 2
 CLASS 2 FEED WATER SYSTEM WELLS
 SHEET 52-1

SHEET 52-1
 CLASS 2 FEED WATER SYSTEM WELLS
 UNIT NO. 2
 CAROLINA POWER & LIGHT CO.



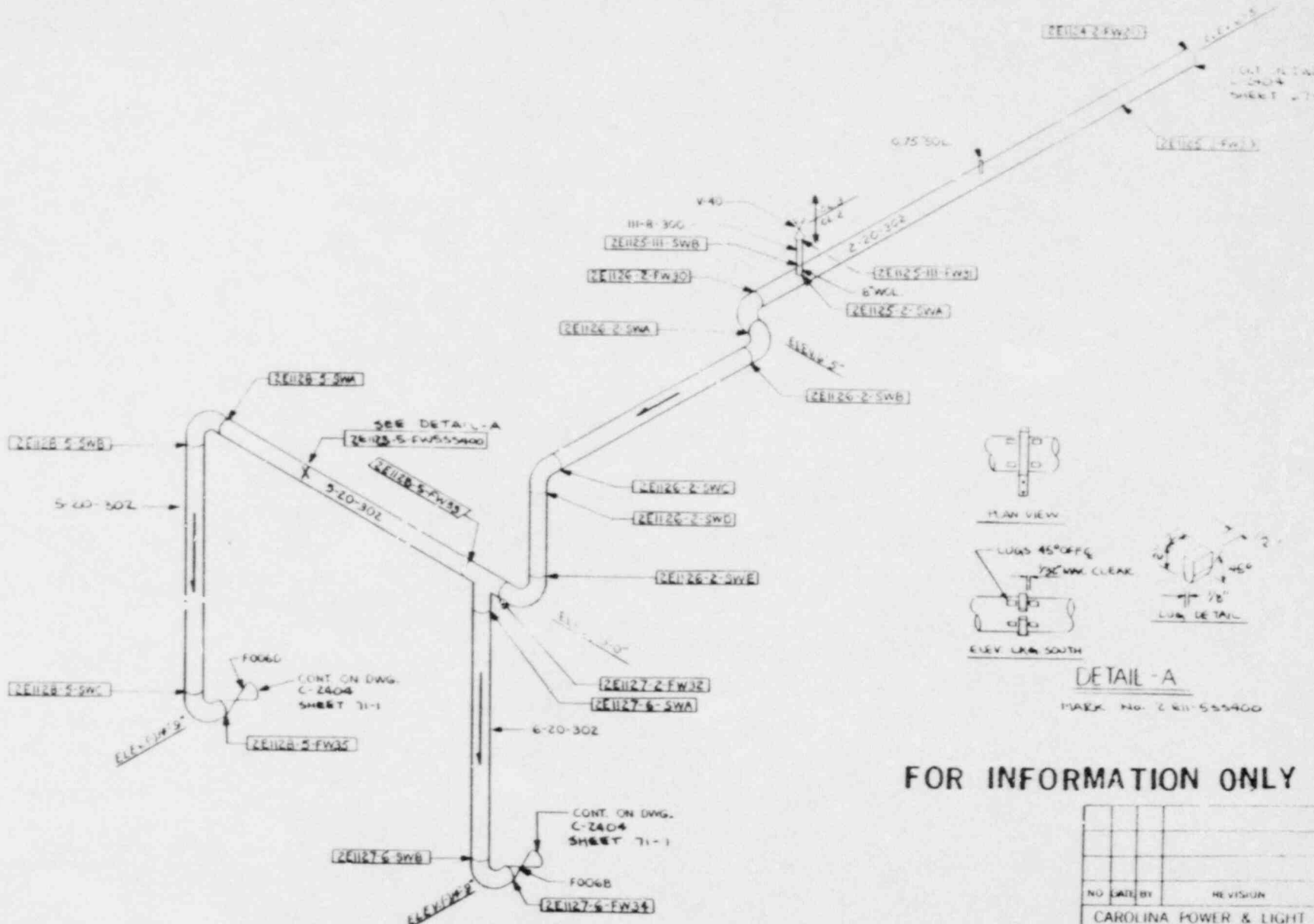
DETAIL - A

MARK No. 2-MS-1A0

FOR INFORMATION ONLY

NO.	DATE	REVISION

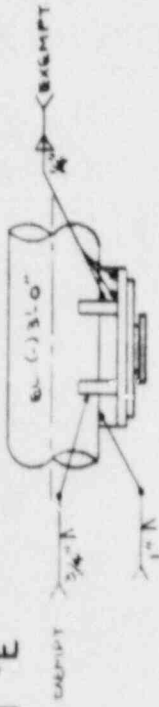
CAROLINA POWER & LIGHT CO.
 UNIT No. 2
 INSERVICE INSPECTION ISOMETRIC FOR
 MAIN STEAM LOOP "C" SYSTEM
 WELD LOCATION
 DRAWN BY: J. HAUBER
 CHECKED BY: J. HAUBER
 DATE: 11/10/83
 SHEET 57



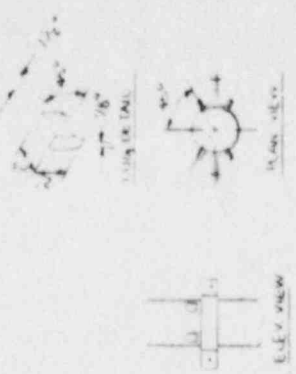
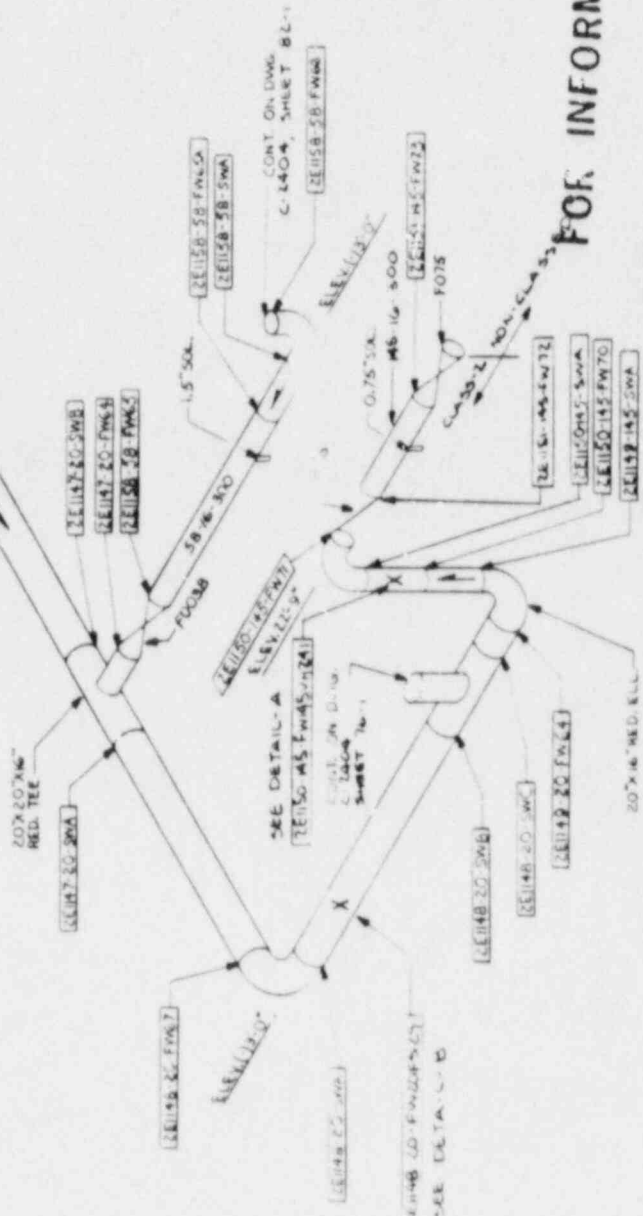
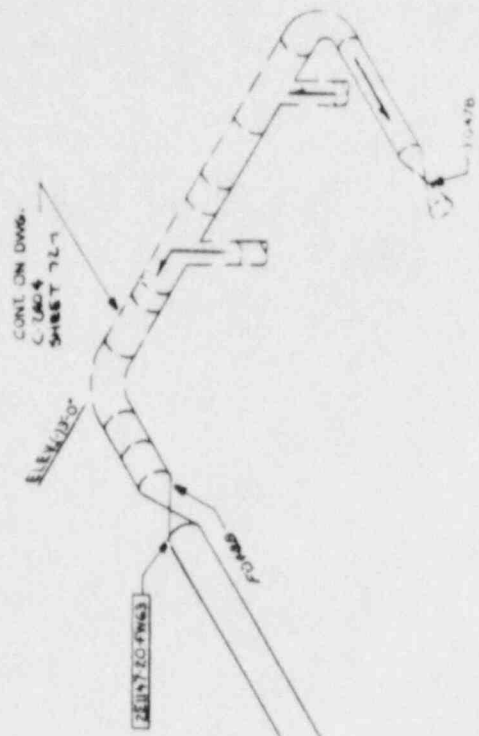
DETAIL-A
MARK NO. C-111-555400

FOR INFORMATION ONLY

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO. BRUNSWICK STEAM ELECTRIC PLANT			
UNIT NO. 2			
DRAWN BY: B-1-87			
CHECKED BY: [Signature]			
SERVICE INSPECTION ISOMETRIC FOR REPAIRS (PARTIAL) PUMP AND SUCTION COOLING PARTIAL PUMP AND SUCTION WELD LOCATION ASME CLASS 2			
C-2404 SHEET 69-1			



ELEV. LUG. NOET-1
DETAIL - B
 DRAW. NO. E-311-804529



DETAIL - A

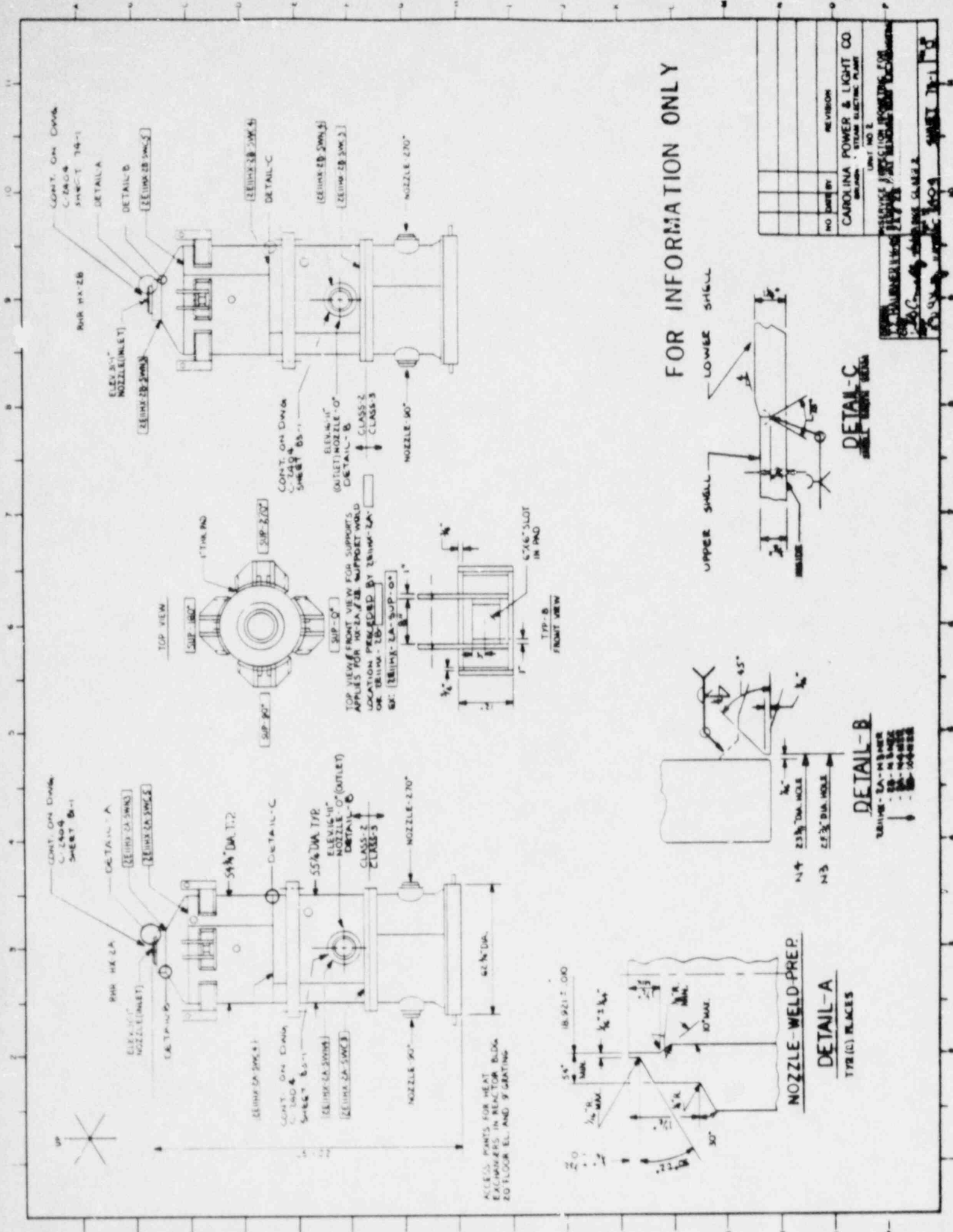
DRAW. NO. E-311-804529

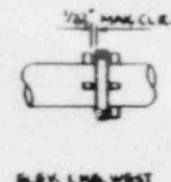
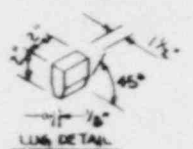
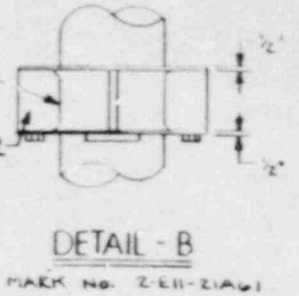
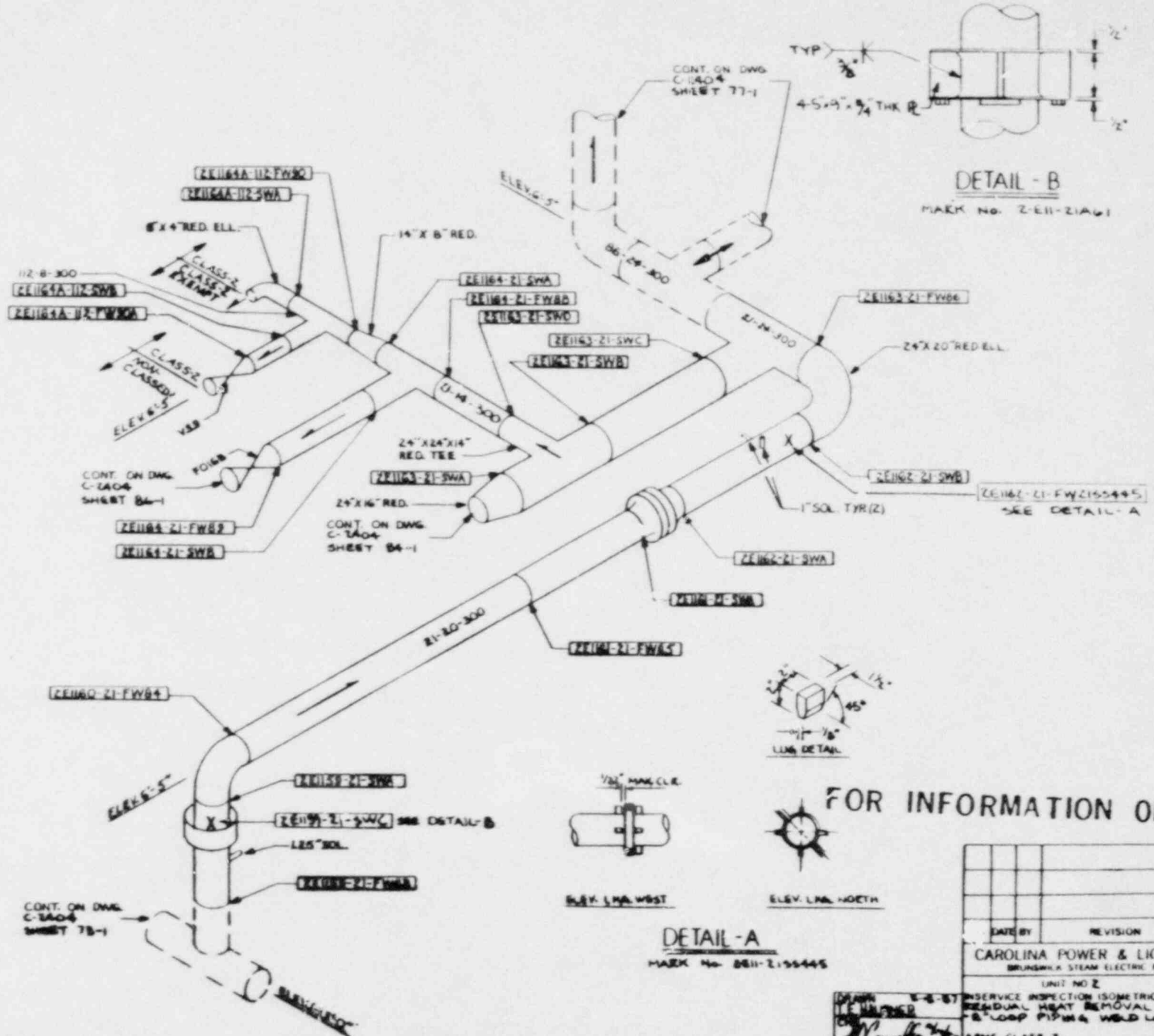
NO.	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO.
 1000 W. 11TH ST. RALEIGH, N.C. 27601

FOR INFORMATION ONLY

REVISIONS:
 1. REVISED TO SHOW PUMP HEAD CONNECTIONS TO BE MADE AT THE HEAD OF THE LOOP SYSTEM.
 2. REVISED TO SHOW PUMP HEAD CONNECTIONS TO BE MADE AT THE HEAD OF THE LOOP SYSTEM.
 3. REVISED TO SHOW PUMP HEAD CONNECTIONS TO BE MADE AT THE HEAD OF THE LOOP SYSTEM.





FOR INFORMATION ONLY

DETAIL - A
MARK No. 2-11-215445

DATE	BY	REVISION

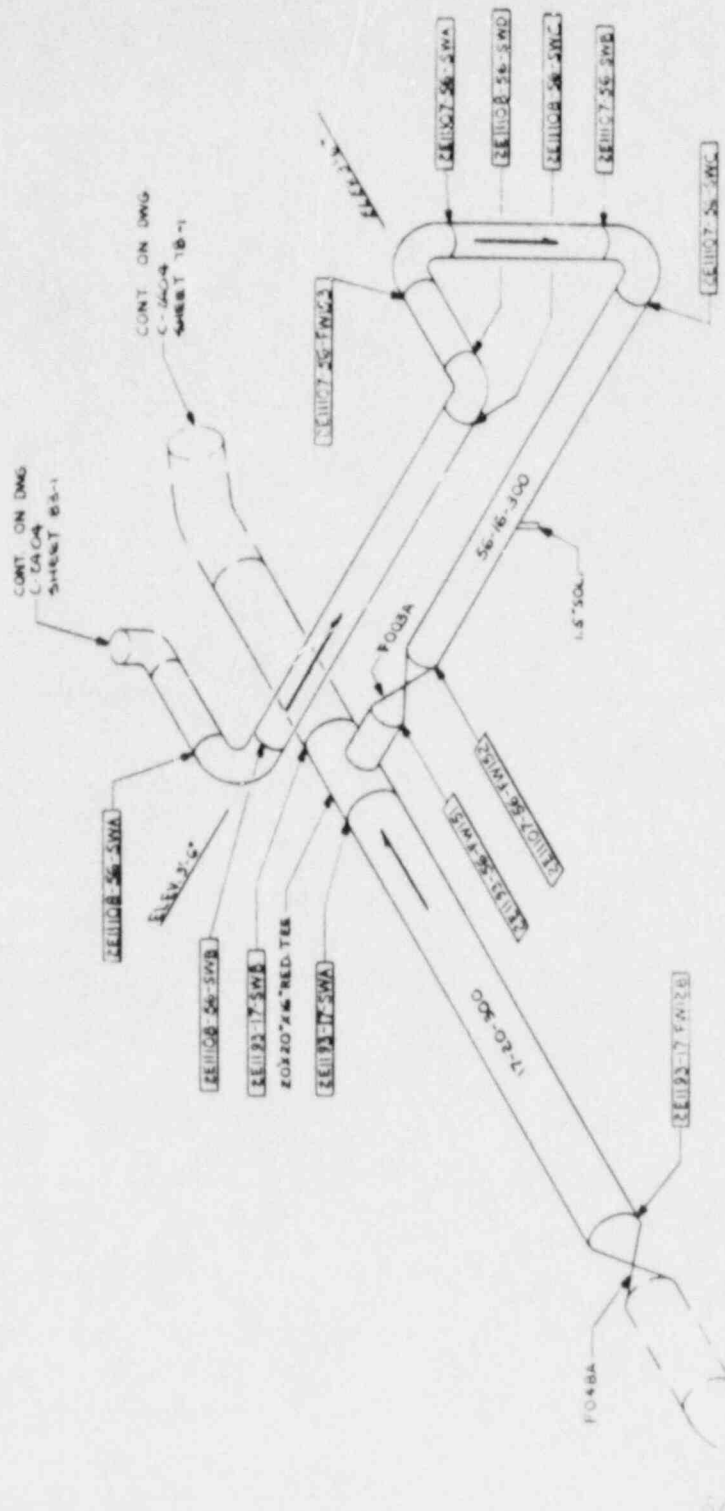
CAROLINA POWER & LIGHT CO
BRUNNEN Steam Electric Plant
UNIT NO. 2

INSERVICE INSPECTION ISOMETRIC FOR
RESIDUAL HEAT REMOVAL SYSTEM
- B LOOP PIPING WELD LOCATION

ADME CLASS 2
C-2A04 SHEET 76-1

REVISIONS

1-2-87
C-2A04

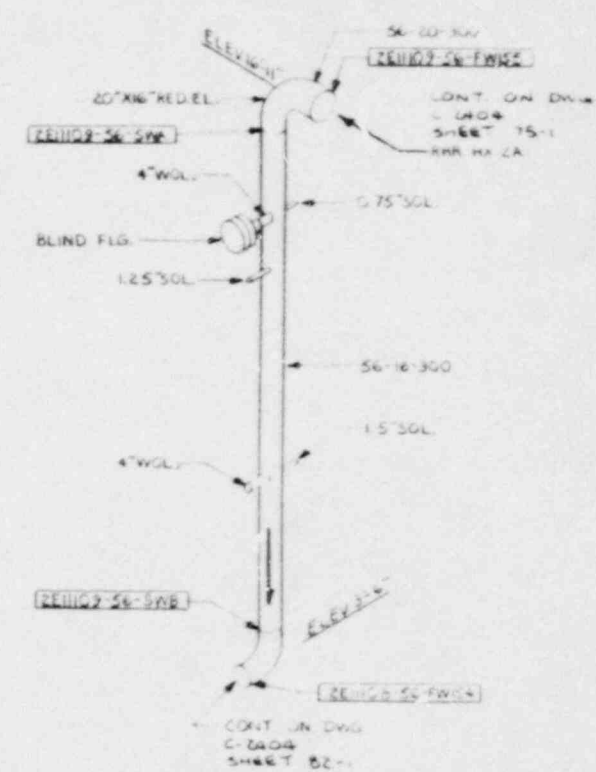
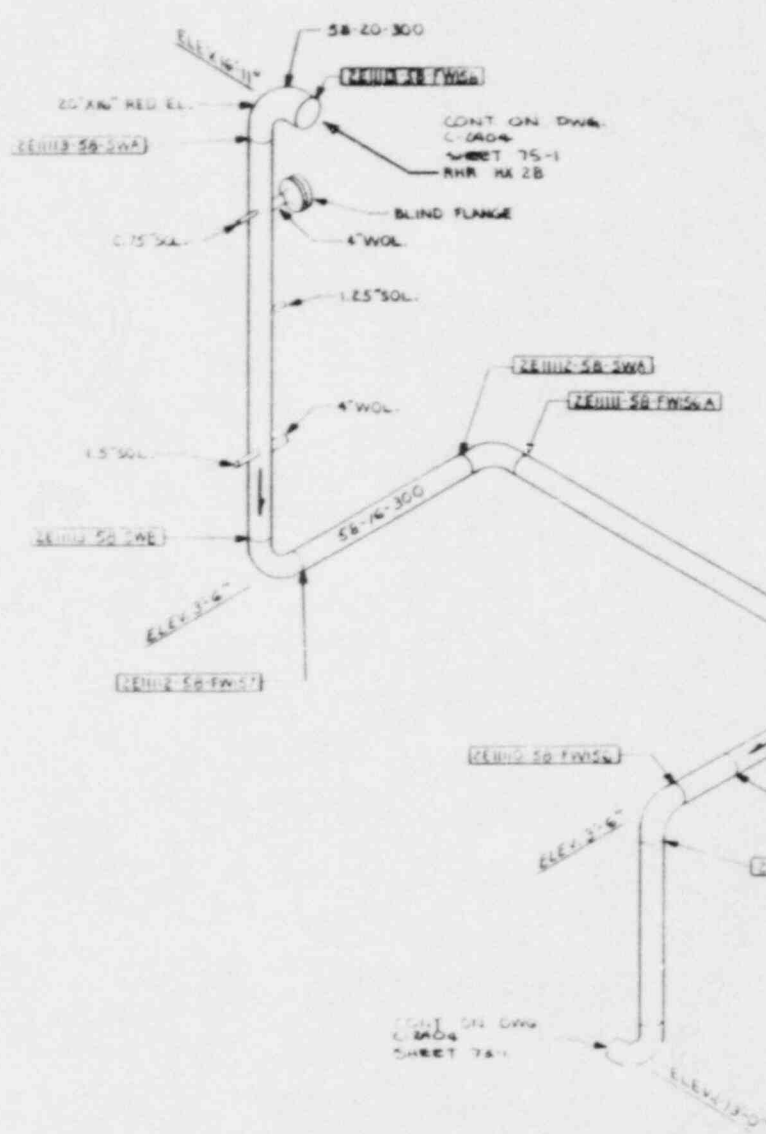


FOR INFORMATION ONLY

NO.	DATE	REVISION

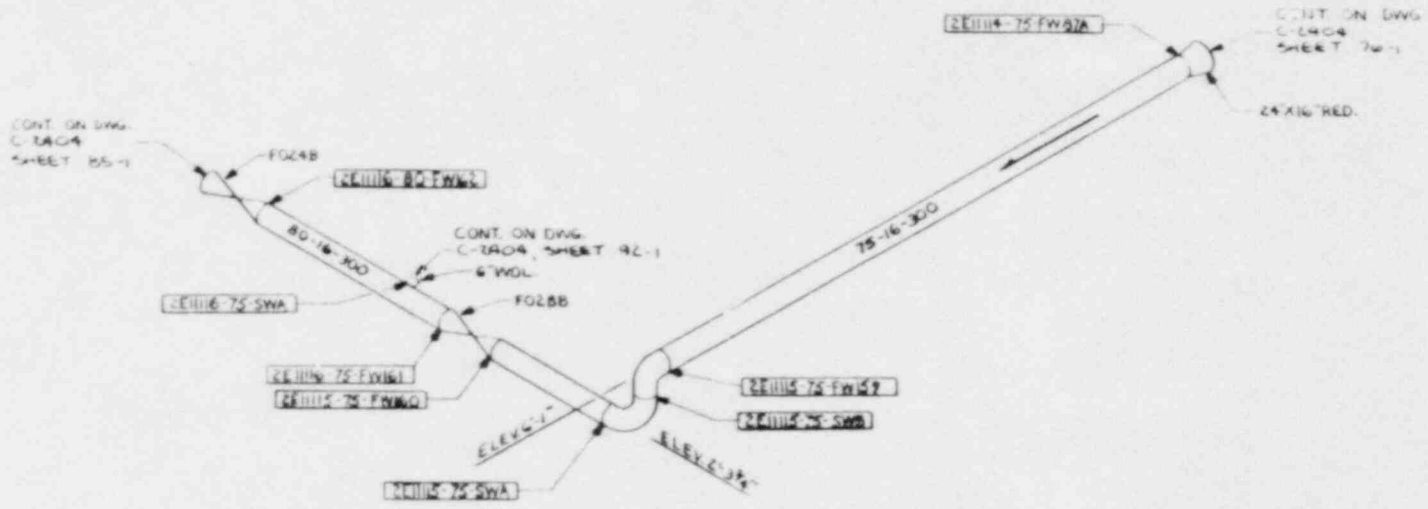
CAROLINA POWER & LIGHT CO.
 PROJECT NO. 2
 PROJECT DESCRIPTION: RENEWAL OF 1.5\"/>

DESIGNED BY: B. B. BENTLEY
 DRAWN BY: T. L. HARRIS
 CHECKED BY: J. W. HARRIS
 DATE: 11/1/58
 SHEET NO. 2 OF 4



FOR INFORMATION ONLY

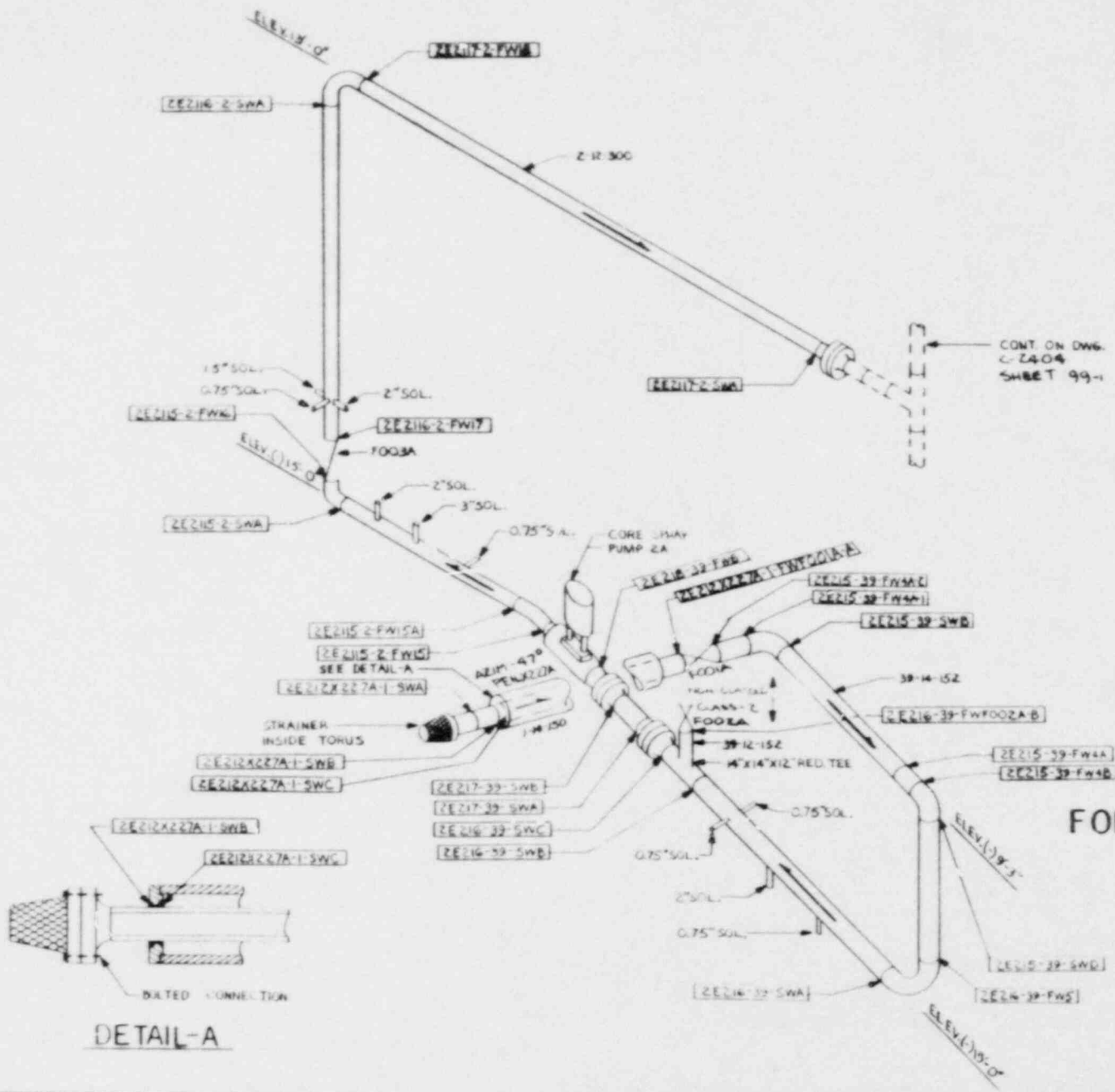
NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO.			
PLANT NO. 2			
UNIT NO. 2			
DRAWING NO. 2			
DRAWN T. HAUBNER DATE 8-16-87	CHECKED DATE APP.	INTERICE INSPECTION NUMBER 1348 REVIEWED AND RECOMMENDED BY A. E. LEWIS DATE 8-16-87	SHEET NO. SHEET 25



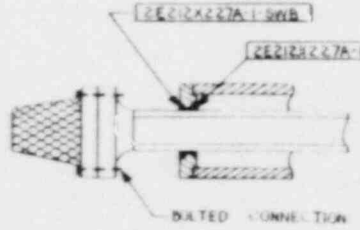
FOR INFORMATION ONLY

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO. WINSTON-SALEM STEAM ELECTRIC PLANT UNIT NO. 2			
INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL SYSTEM LOOP TO... SPRAY & TEST RETURN LINE HEADER SYSTEM WELD LOCATION ASME CLASS 2			
C-2A04 SHEET 89-1			

DRAWN BY B-B-B
 T.E. HALLNER
 CHECKED BY J.C. CONNOR
 DATE 11/1/87



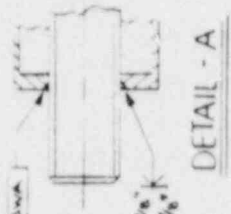
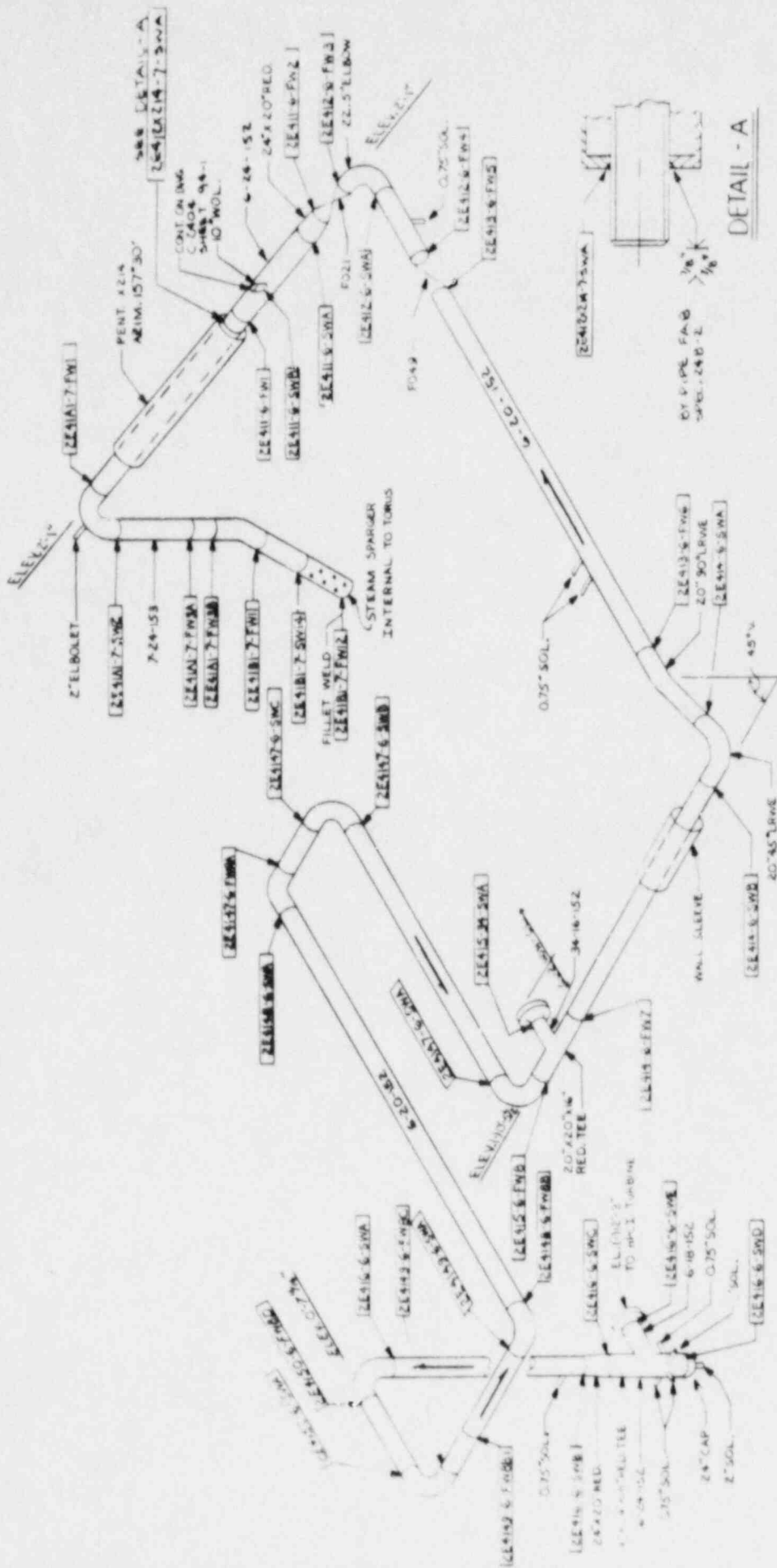
FOR INFORMATION ONLY



DETAIL-A

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO BRIDGEWATER STEAM ELECTRIC PLANT UNIT NO 2 INSERVICE INSPECTION ISOMETRIC FOR CLASS II LOOP A CORE SPRAY SYSTEM WELD LOCATION ASME CLASS 2 C-2404 SHEET 99-1			

DRAWN: E. HAUGNER
 CHECKED: [Signature]
 DATE: 5-18-81

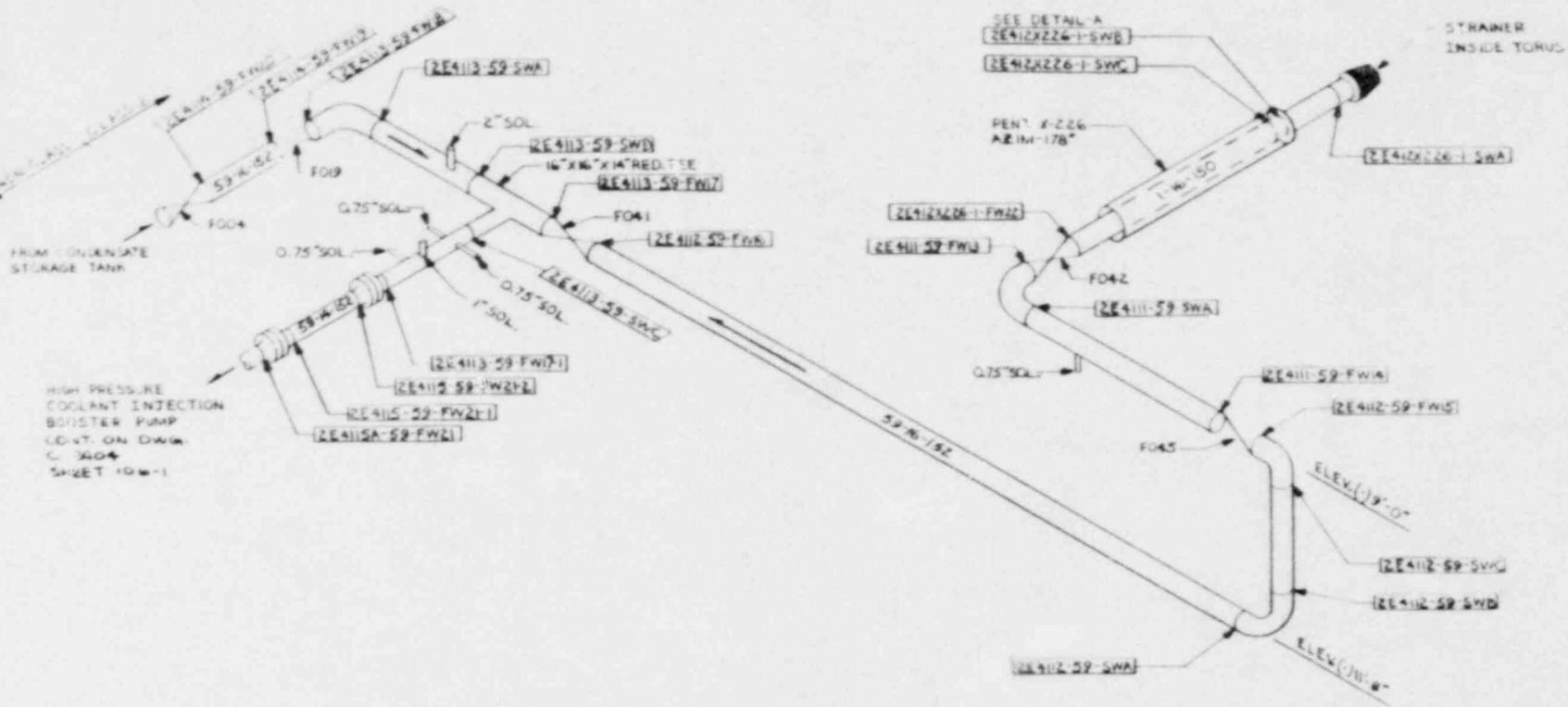


FOR INFORMATION ONLY

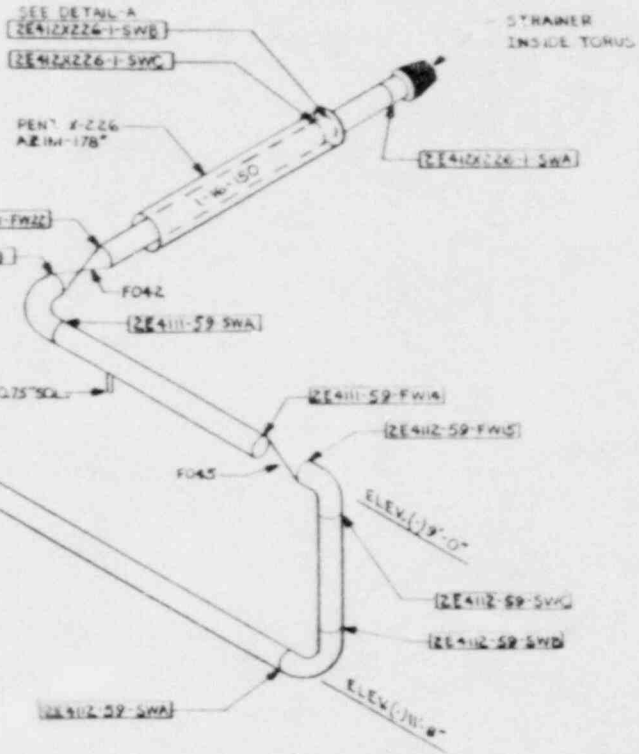
NO.	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO.
 PROJECT NO. 10000
 SHEET 104

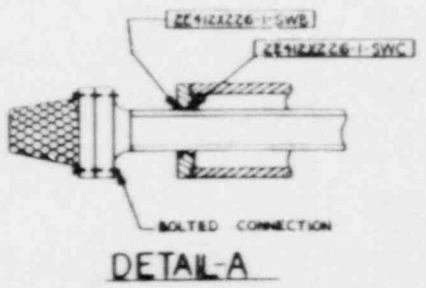
DRAWN BY: B. B. B. (10-8)
 ENGINEER: J. H. H. (10-8)
 CHECKED BY: J. H. H. (10-8)
 DATE: 10-1-61
 PROJECT: CAROLINA POWER & LIGHT CO.
 SHEET 104



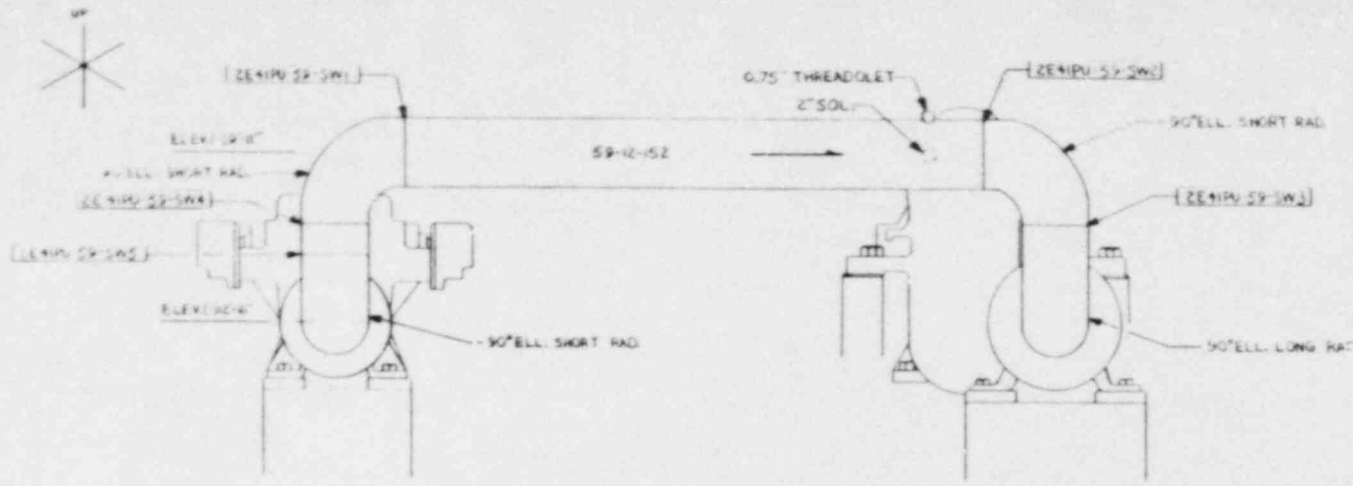
HIGH PRESSURE
COOLANT INJECTION
BOOSTER PUMP
CONT. ON DWG.
C-3404
SHEET 104-1



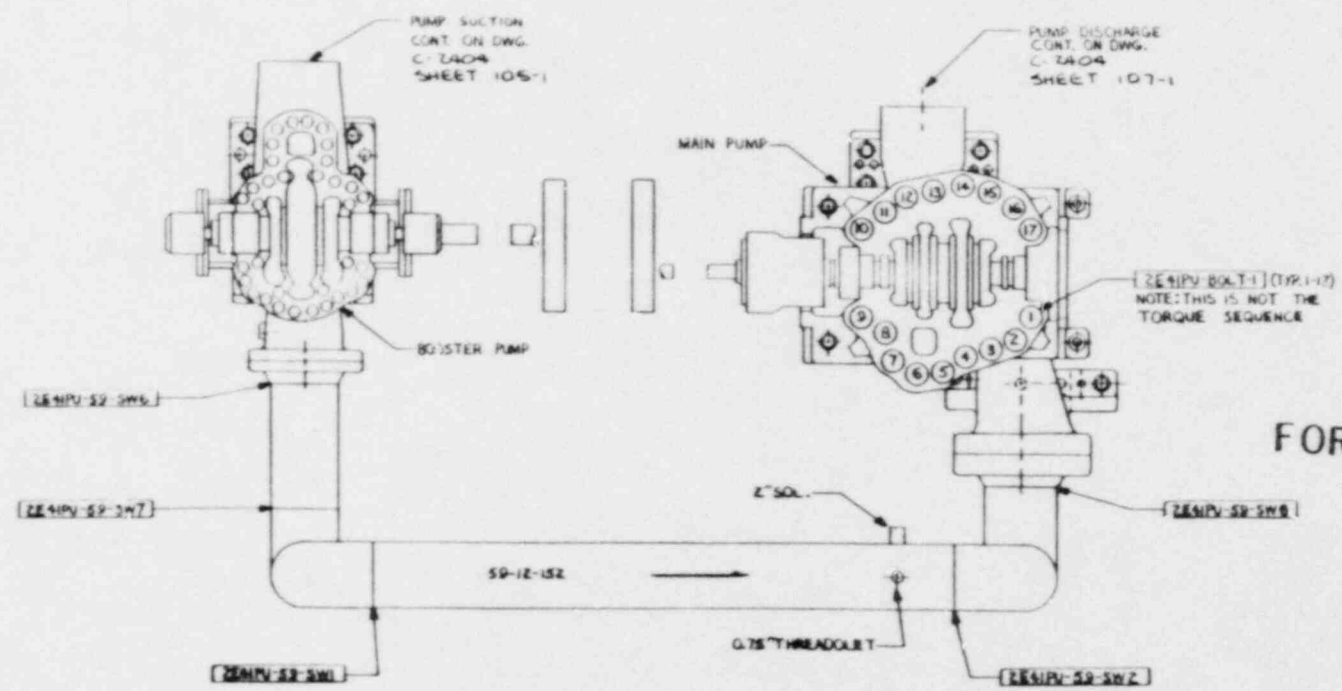
FOR INFORMATION ONLY



NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO BRUNSWICK STEAM ELECTRIC PLANT			
UNIT NO. 2			
INSERVICE INSPECTION ISOMETRIC FOR CLASS II HIGH PRESSURE COOLANT INJECTION SYSTEM WELD LOCATION			
DRAWN BY E. C. HAUBNER		ASME CLASS 2	
CHECKED BY [Signature]		C-2404	
DATE [Date]		SHEET 104-1	



ELEVATION VIEW

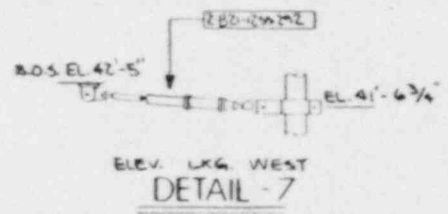
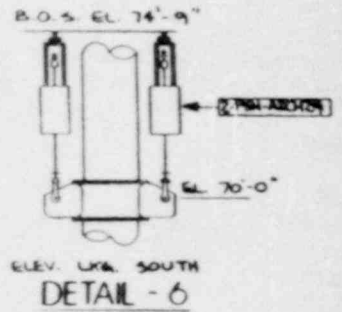
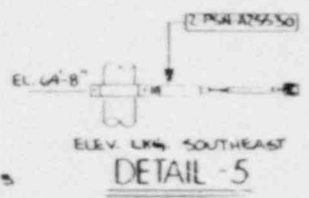
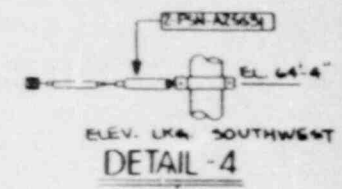
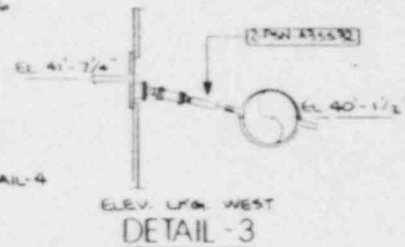
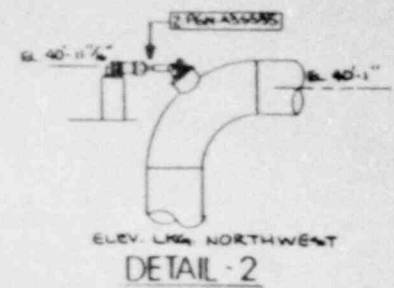
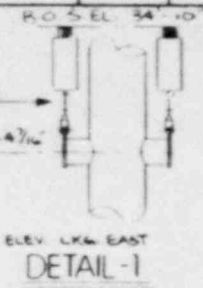
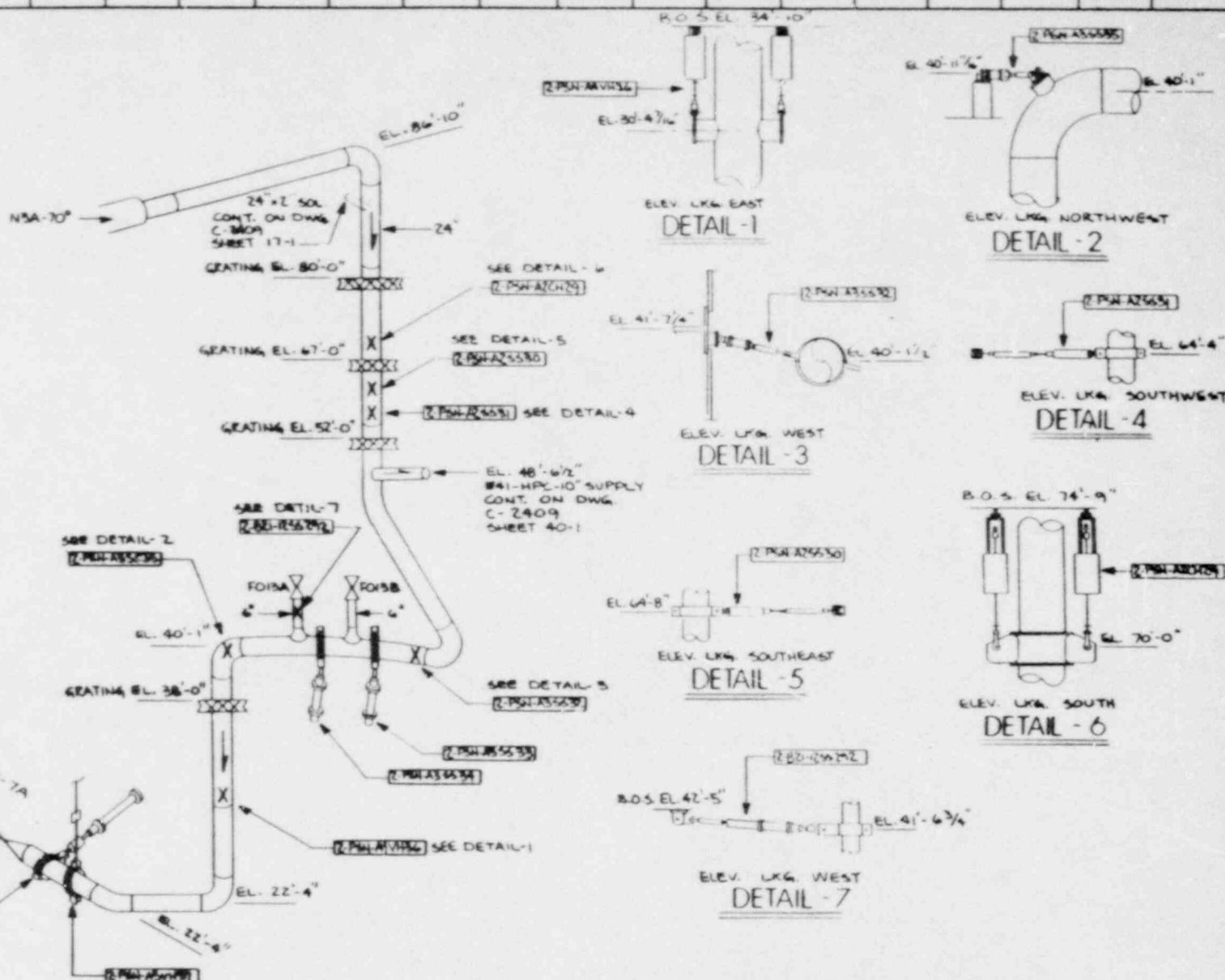


PLAN VIEW

FOR INFORMATION ONLY

DRAWN BY B-15-BY
 T.E. HAUBNER
 CHECKED BY [Signature]
 DATE 10/15/51

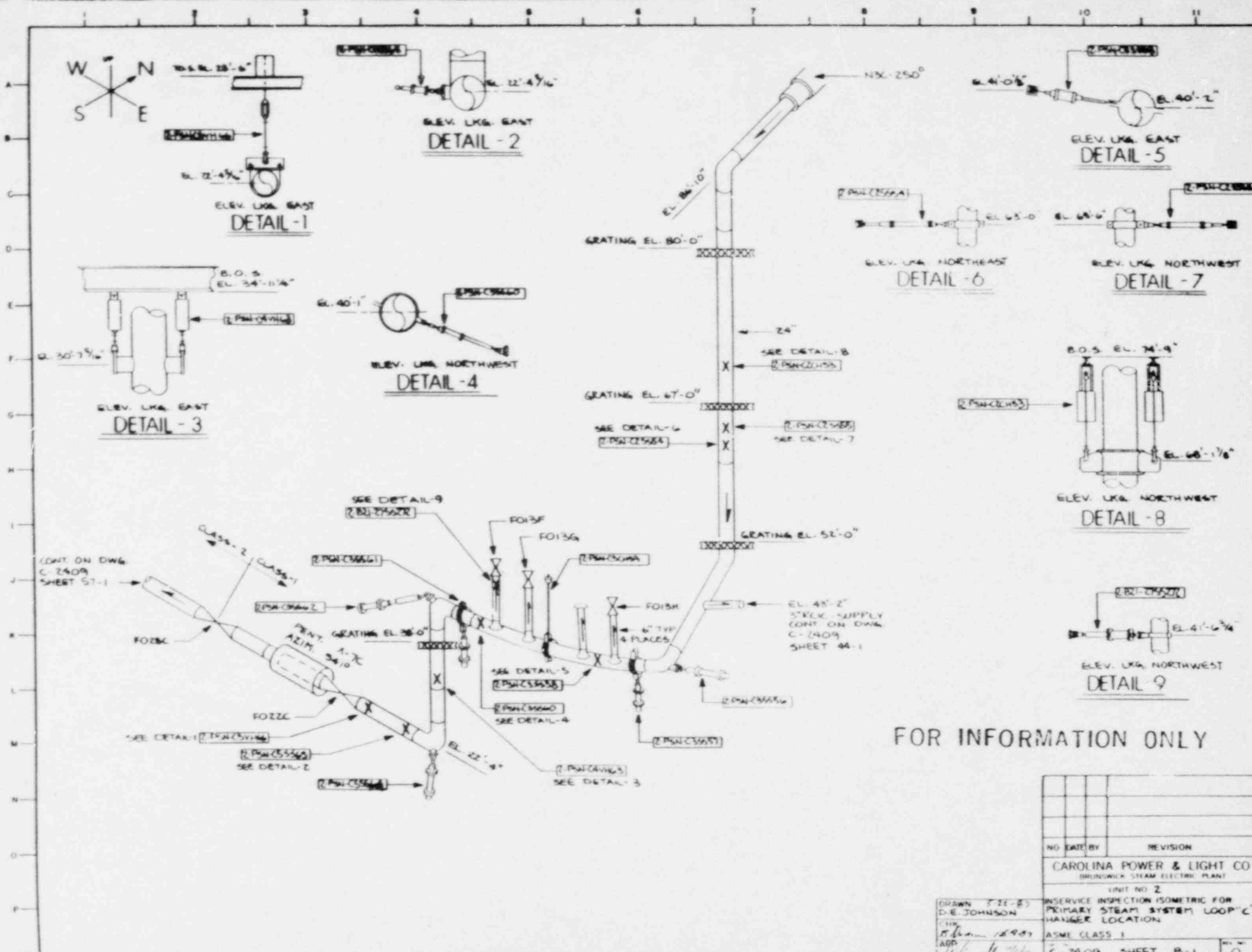
NO	DATE BY	REVISION
CAROLINA POWER & LIGHT CO BROWNS STEAM ELECTRIC PLANT UNIT NO 2		
INSERVICE INSPECTION ISOMETRIC FOR HPK I BOOSTER TO MAIN PUMP PIPING SYSTEM WELD LOCATION ASME CLASS 2 C-2A04 SHEET 106-1		



FOR INFORMATION ONLY

NO.	DATE BY	REVISION
CAROLINA POWER & LIGHT CO. DUPLICATE STEAM ELECTRIC PLANT		
UNIT NO. 2		
INSERVICE INSPECTOR REGISTERED FOR PRIMARY STEAM SYSTEMS LOOP "A" WABASH WORKERS		
ASME CLASS 1		
C-2409 SHEET 9-1		

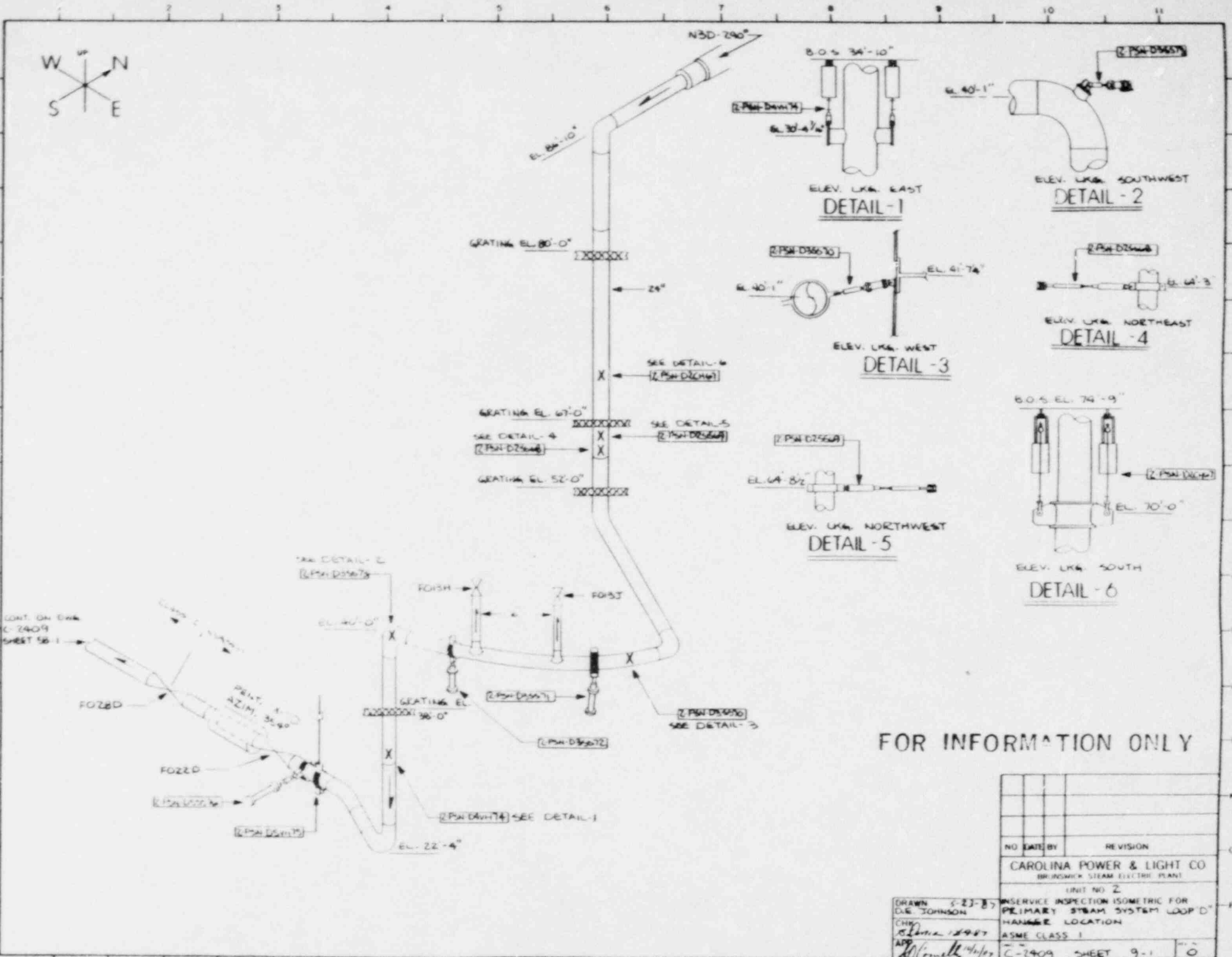
DRAWN 5-27-97
D.E. JOHNSON
CHK
10/18/98
APR
K. M. Kelly



FOR INFORMATION ONLY

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO BRUNSWICK STEAM ELECTRIC PLANT UNIT NO 2 INSERVICE INSPECTION ISOMETRIC FOR PRIMARY STEAM SYSTEM LOOP "C" HANGER LOCATION ASME CLASS 1			
C-2409 SHEET 8-1			0

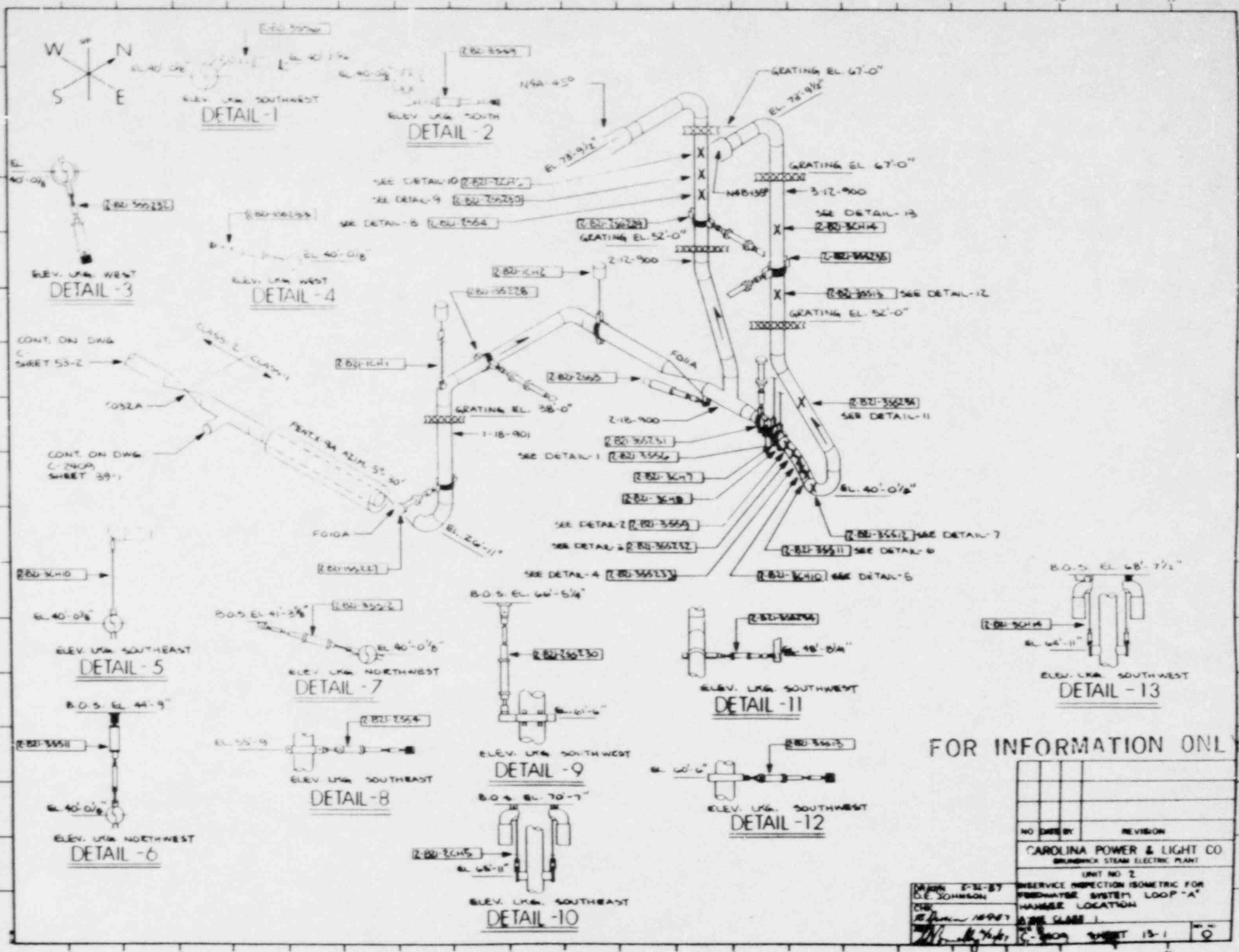
DRAWN 3-21-57
 D.E. JOHNSON
 CHK
 5/11/58
 APP
 11/11/58



FOR INFORMATION ONLY

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO BRUNSWICK STEAM ELECTRIC PLANT UNIT NO 2 SERVICE INSPECTION ISOMETRIC FOR PRIMARY STEAM SYSTEM LOOP D HANGER LOCATION ASME CLASS 1 C-2409 SHEET 9-1			

DRAWN 5-23-87
 D.E. JOHNSON
 CHG
 15 APR 1987
 APP
 [Signature]



ELEV. LK. SOUTHWEST
DETAIL - 1

ELEV. LK. SOUTH
DETAIL - 2

ELEV. LK. WEST
DETAIL - 3

ELEV. LK. WEST
DETAIL - 4

ELEV. LK. SOUTHEAST
DETAIL - 5

ELEV. LK. NORTHEAST
DETAIL - 7

ELEV. LK. SOUTHWEST
DETAIL - 9

ELEV. LK. NORTHWEST
DETAIL - 6

ELEV. LK. SOUTHEAST
DETAIL - 8

ELEV. LK. SOUTHEAST
DETAIL - 10

ELEV. LK. SOUTHWEST
DETAIL - 11

ELEV. LK. SOUTHWEST
DETAIL - 13

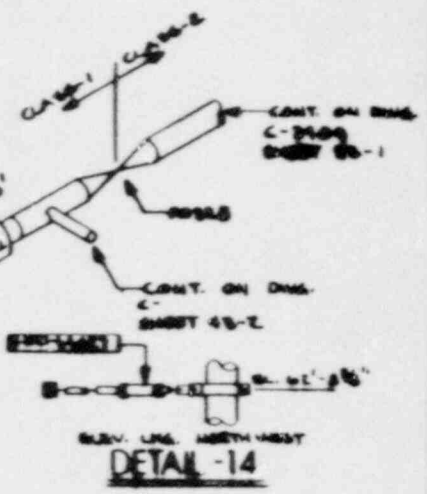
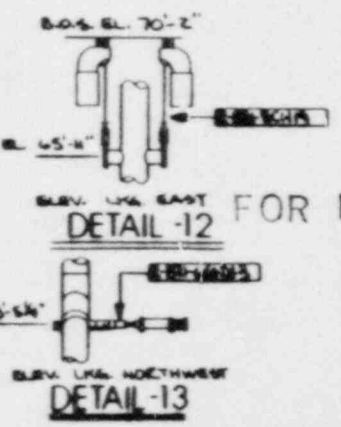
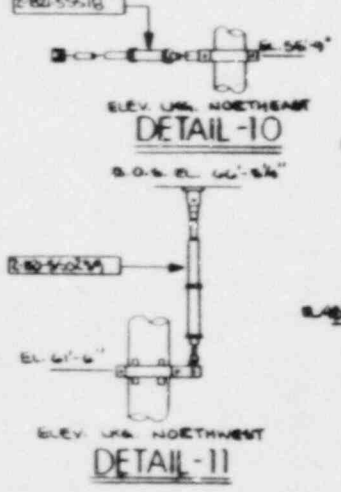
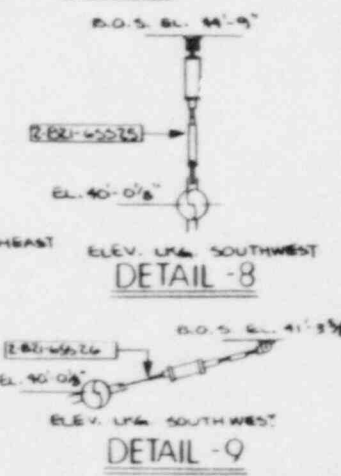
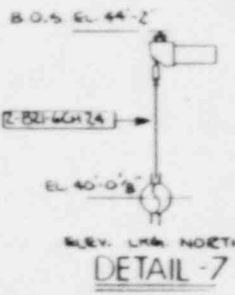
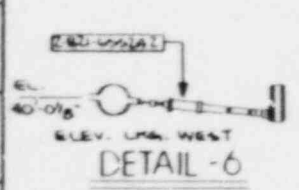
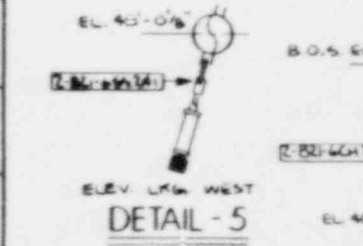
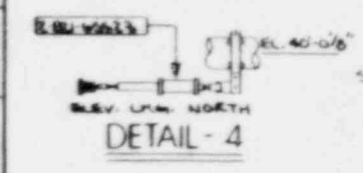
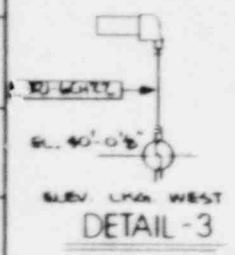
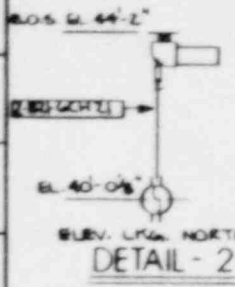
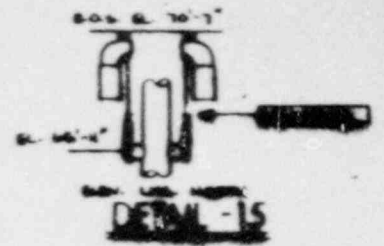
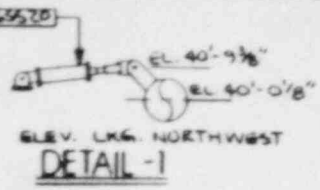
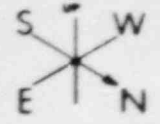
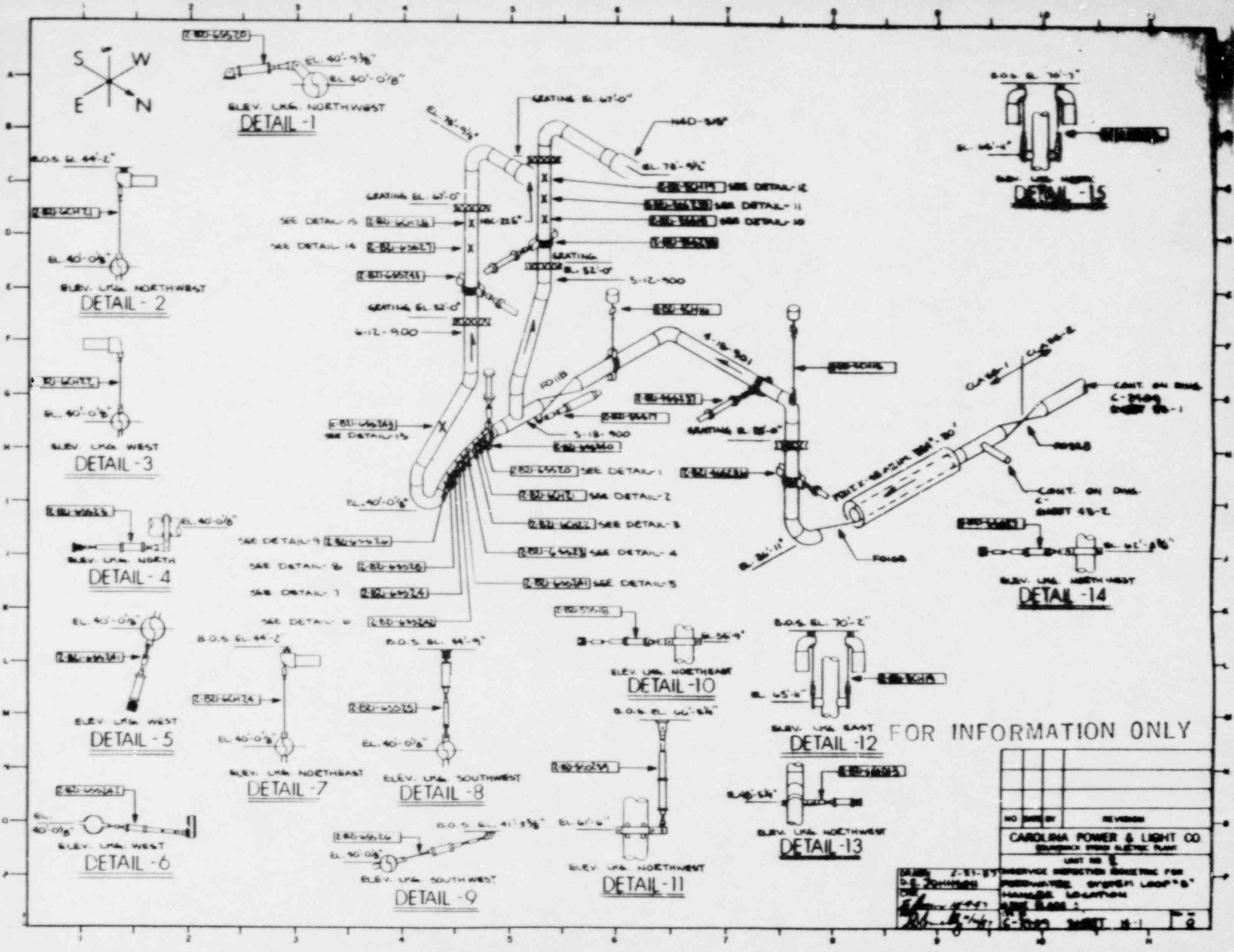
ELEV. LK. SOUTHWEST
DETAIL - 12

FOR INFORMATION ONLY

NO.	DATE	BY	REVISION

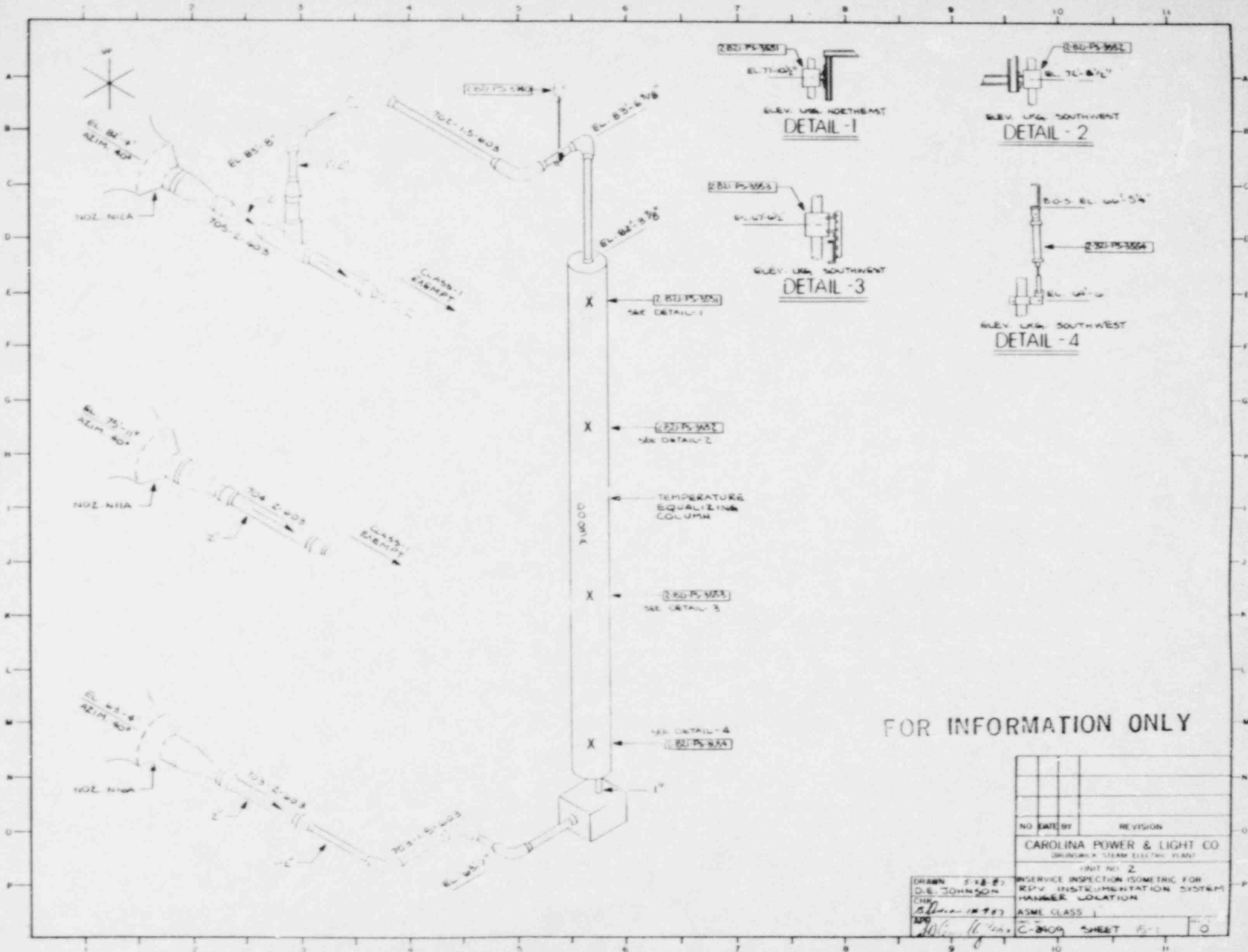
CAROLINA POWER & LIGHT CO.
BRUNNICK STEAM ELECTRIC PLANT
UNIT NO. 2
DESIGN 2-31-57
O.E. JOHNSON
CUB
12/1/57
SHEET 13-1

SERVICE INSPECTION ISOMETRIC FOR
FEEDWATER SYSTEM LOOP "A"
HAZARD LOCATION
CLASS I



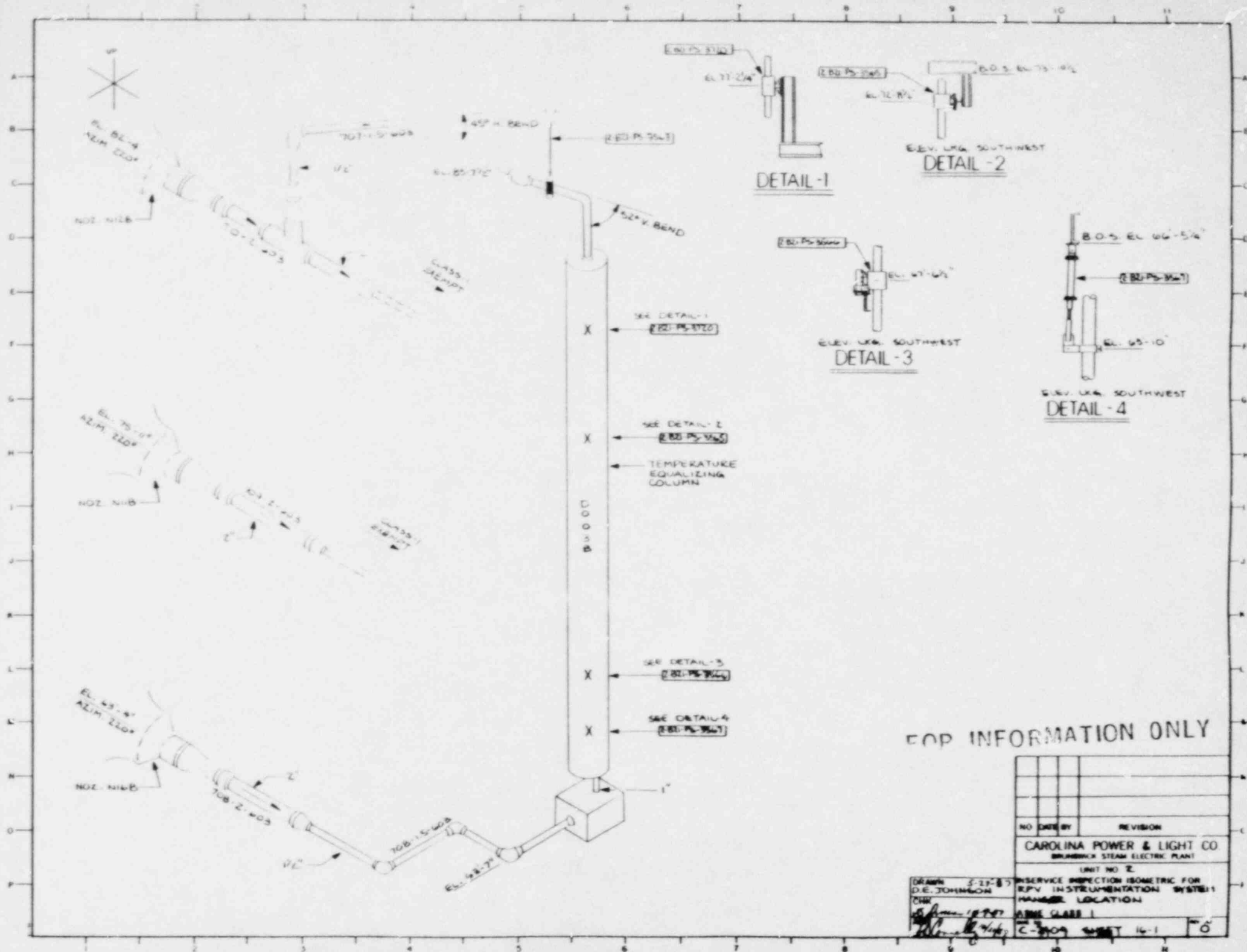
FOR INFORMATION ONLY

NO. DRAWN BY	REVISION
CAROLINA POWER & LIGHT CO. SOUTHWEST POWER ELECTRIC PLANT	
SHEET NO. 8	
DRAWN BY: [Signature]	
CHECKED BY: [Signature]	
DATE: 7-21-57	
DESIGNED BY: [Signature]	
PROJECT: [Signature]	
SHEET NO. 8-1	



FOR INFORMATION ONLY

NO.	DATE BY	REVISION
CAROLINA POWER & LIGHT CO GREENSBORO STEAM ELECTRIC PLANT UNIT NO. 2 INSERVICE INSPECTION ISOMETRIC FOR RPV INSTRUMENTATION SYSTEM HAMMER LOCATION ASME CLASS 1		
DRAWN: S.F.B. C.H. 12/12/73 APP: [Signature]	D.E. JOHNSON 12/12/73	C-2409 SHEET 15-1 0



DETAIL-1

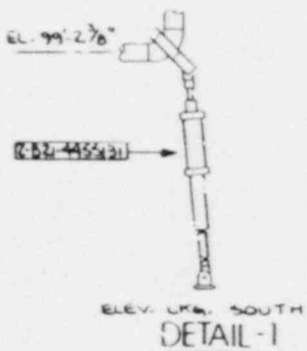
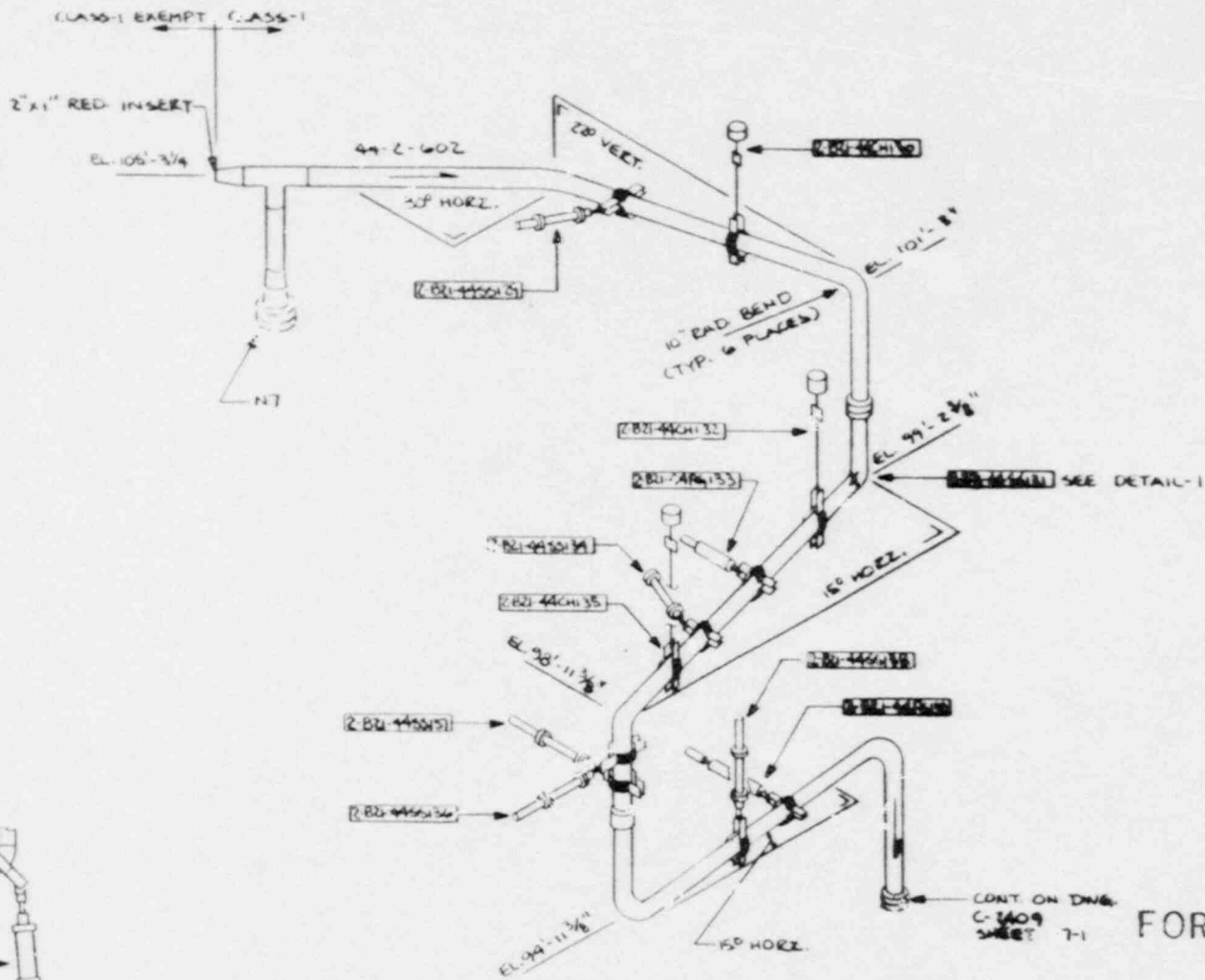
DETAIL-2
ELEV. UGA. SOUTHWEST

DETAIL-3
ELEV. UGA. SOUTHWEST

DETAIL-4
ELEV. UGA. SOUTHWEST

FOR INFORMATION ONLY

NO.	DATE BY	REVISION
CAROLINA POWER & LIGHT CO. BRUNNICK STEAM ELECTRIC PLANT		
UNIT NO. 2		
DRAWN	5-27-87	INSERVICE INSPECTION ISOMETRIC FOR
D.E. JOHNSON		RFPV INSTRUMENTATION SYSTEM 11
CHK		HANGER LOCATION
		NAME CLASS 1
		C-309 SHEET 16-1

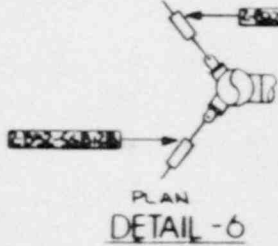
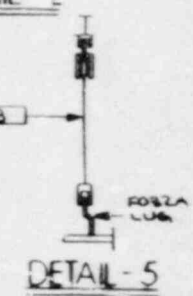
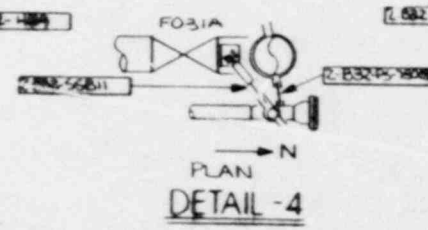
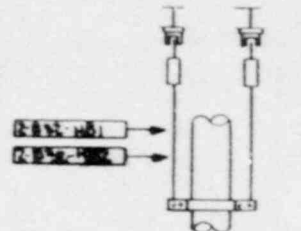
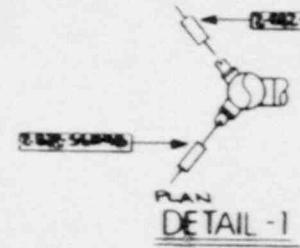
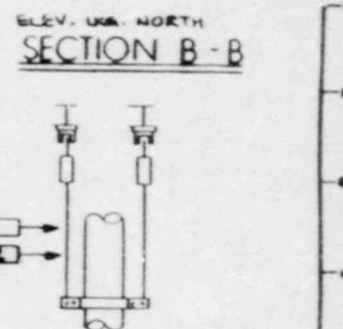
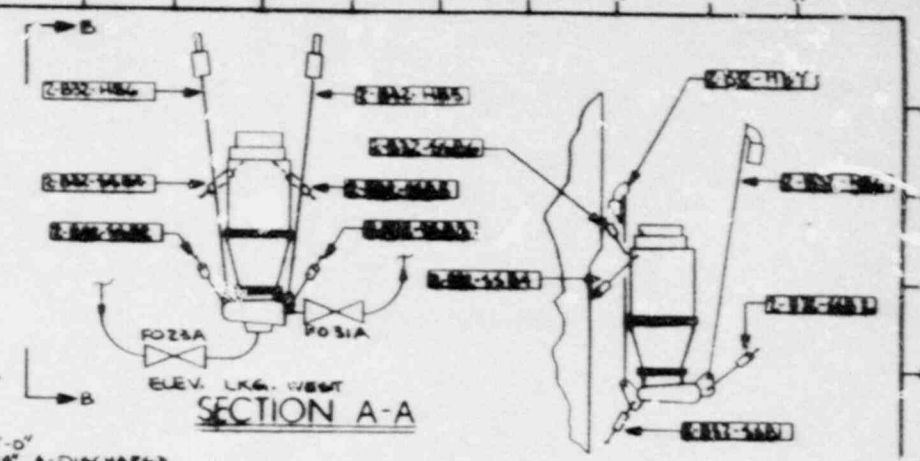
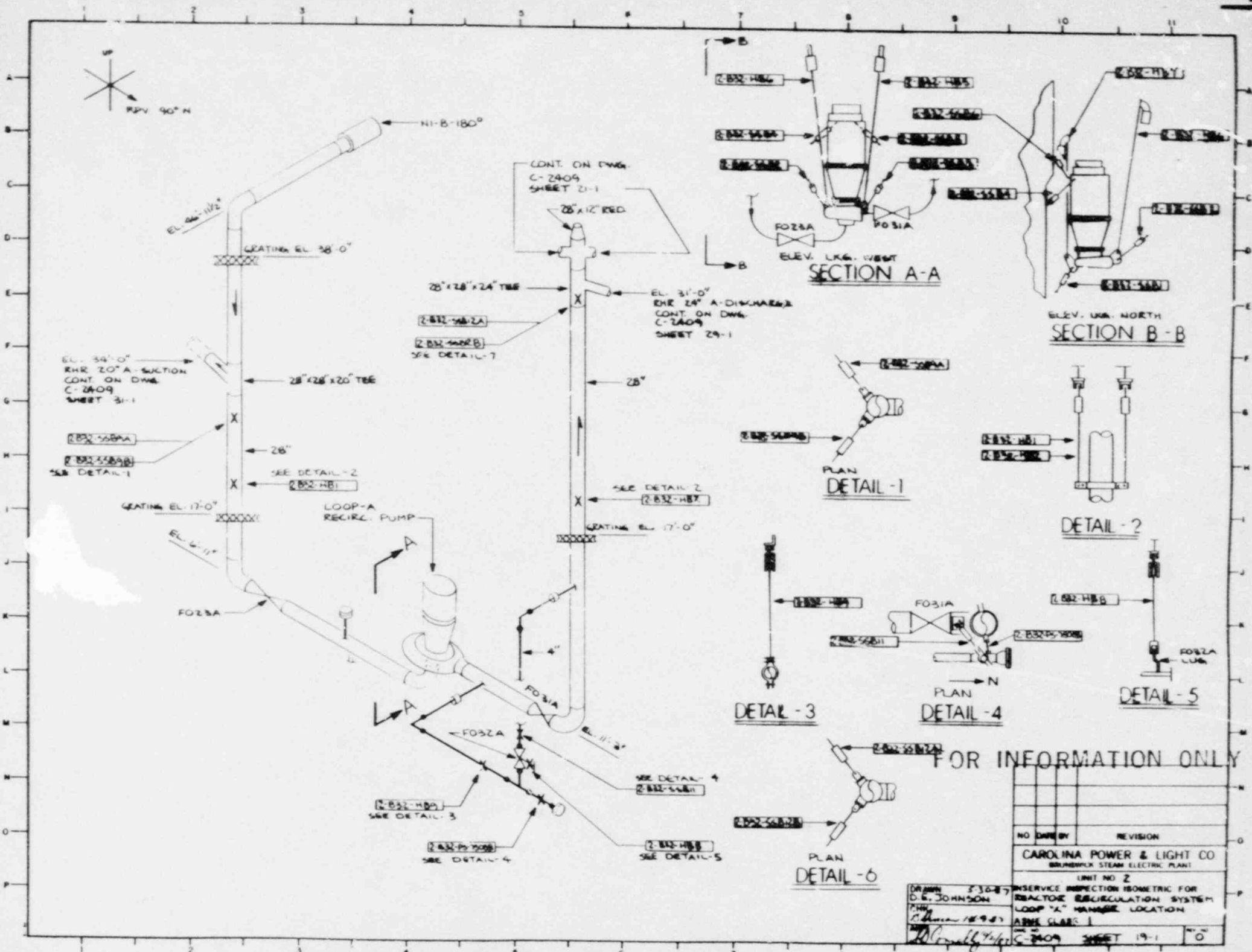


FOR INFORMATION ONLY

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO. BIRMINGHAM STEAM ELECTRIC PLANT UNIT NO. E			
SERVICE INSPECTION ISOMETRIC FOR PRIMARY STEAM SYSTEM WANNABE LOCATION ASME CLASS I			

DRAWN 4.7.27
 D.E. JOHNSON
 CHK
 15 Nov 1940
 E. M. Kelly 7/4/41

C-3609
 SHEET 18-1



FOR INFORMATION ONLY

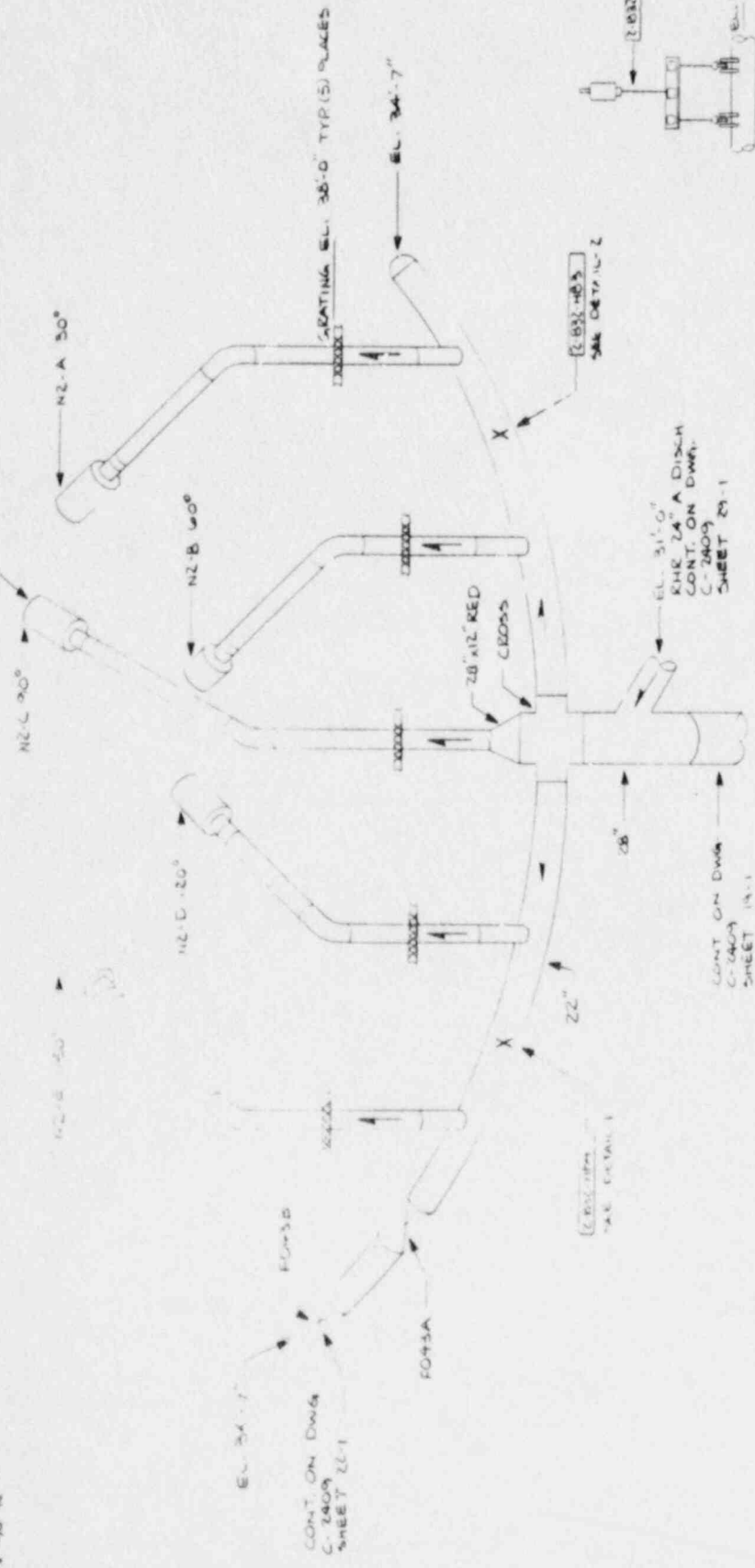
NO.	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO
BRUNNEN STEAM ELECTRIC PLANT
UNIT NO 2
INSERVICE INSPECTION ISOMETRIC FOR
REACTOR RECIRCULATION SYSTEM
LOOP "A" MANAGER LOCATION
APRIL 1981
C-2409 SHEET 19-1

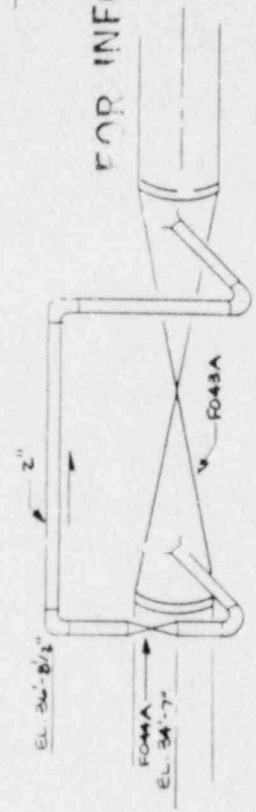
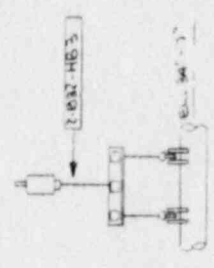
DRAWN 3-30-87
D. S. JOHNSON
CHKD
C. Johnson 10/9/87
20/10/11/87



(See 405 TYP(S) PLACES NZ NOZZLES



DETAIL - 2



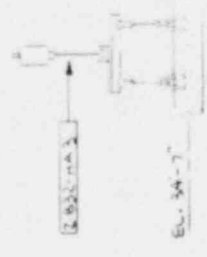
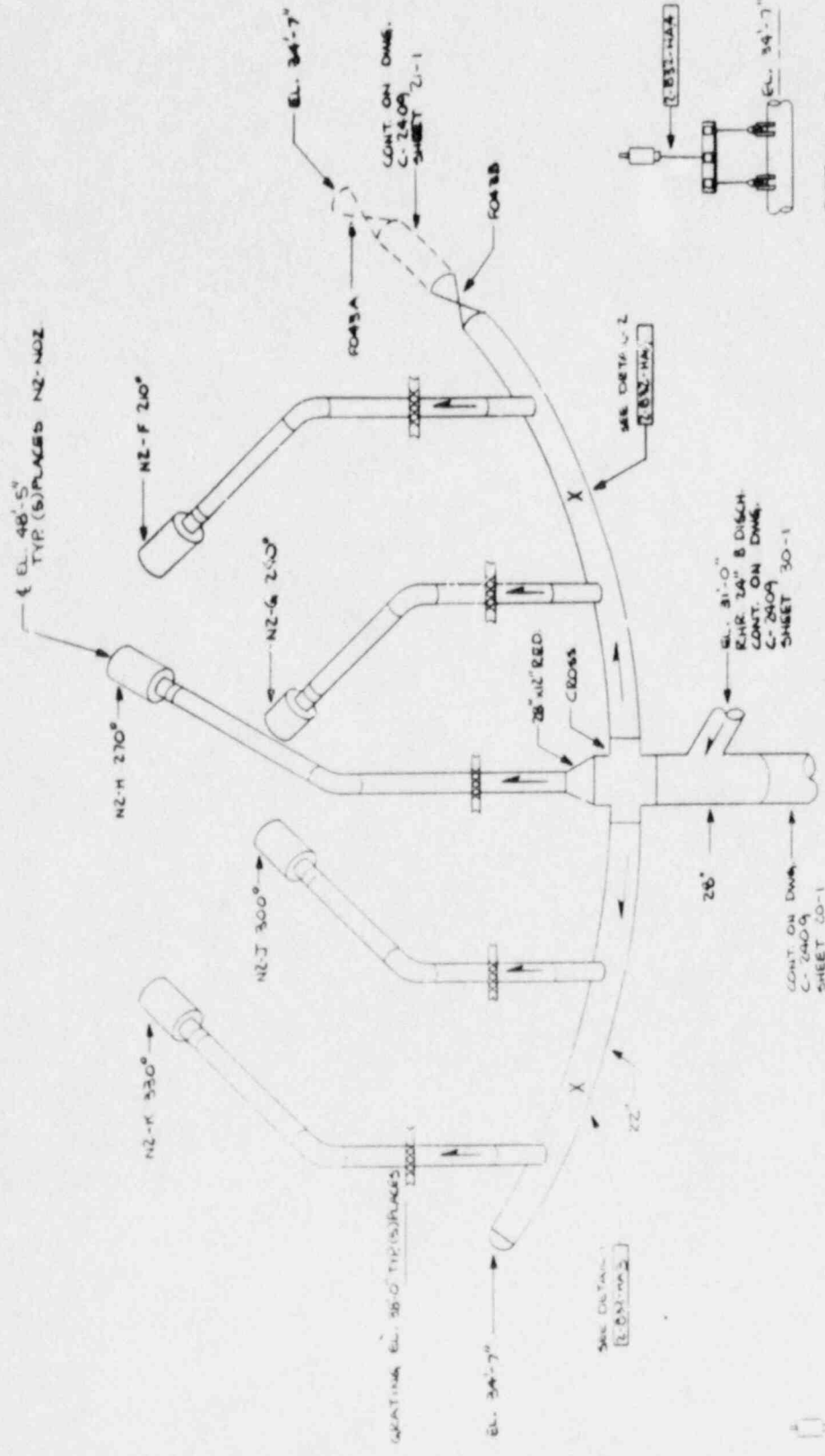
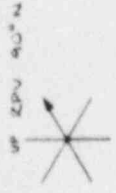
DETAIL - 1

FOR INFORMATION ONLY

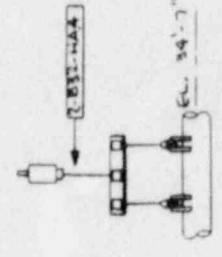
NO	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO
 WINDSBICK STEAM ELECTRIC PLANT
 UNIT NO. 2
 RESERVE INSPECTION ISOMETRIC FOR
 REACTOR REGULATION SYSTEM
 LOOP "A" - HANGAR LOCATION
 ASME CLASS 1
 C-2409
 SHEET 2-1

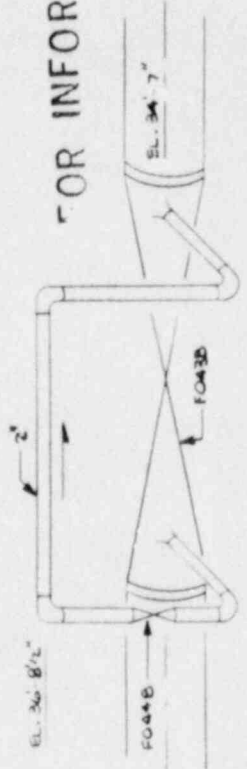
DRAWN BY
 C.E. JOHNSON
 CHECKED BY
 J. HARRIS
 DATE
 12/14/67
 SHEET 2-1



DETAIL - 1



DETAIL - 2

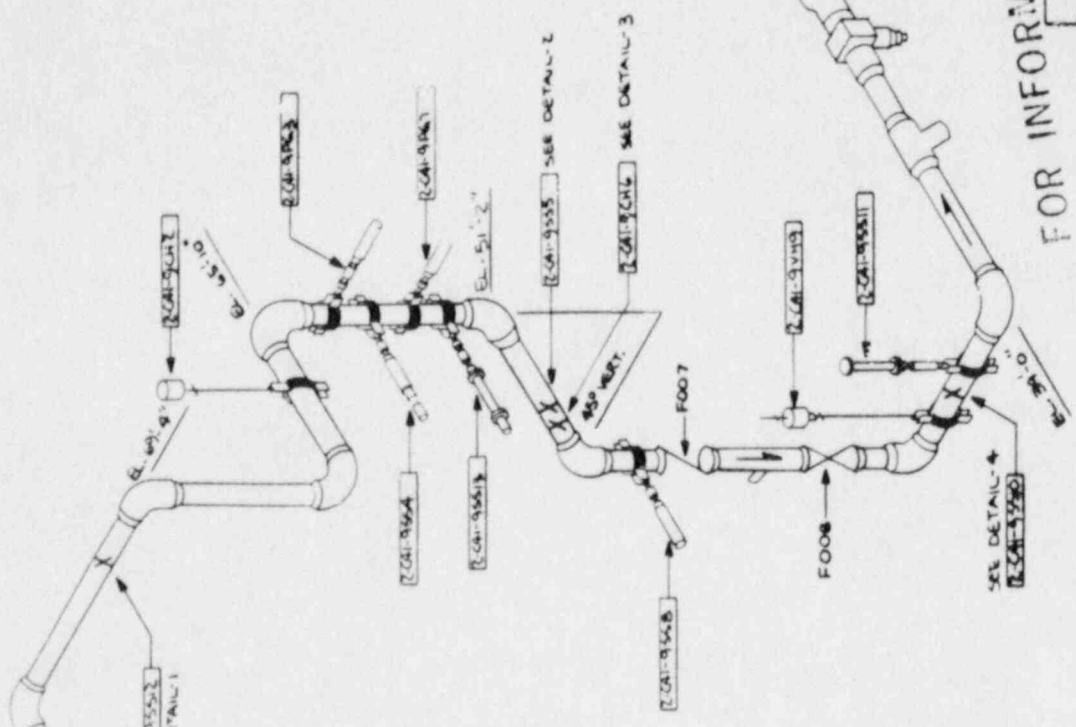
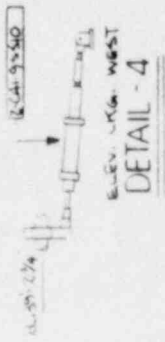
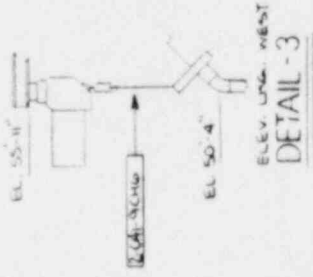
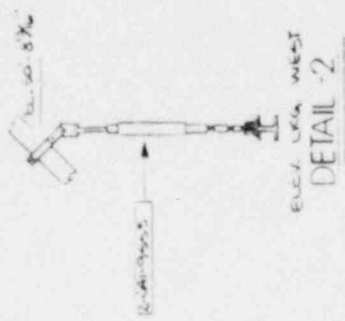
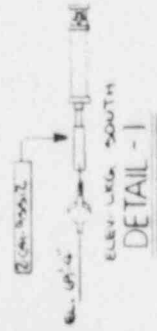
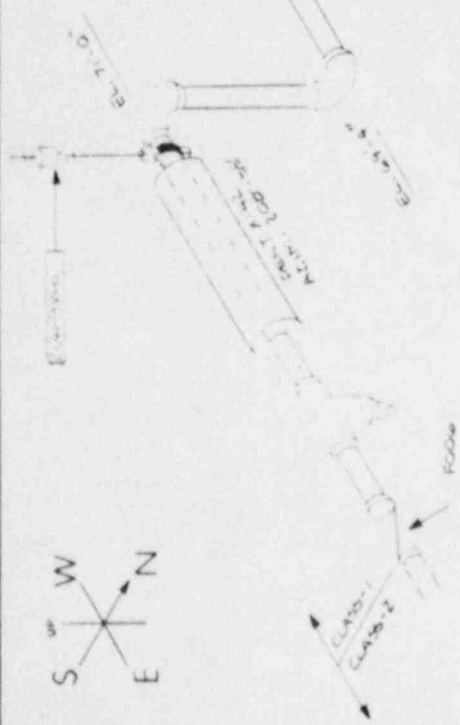


FOR INFORMATION ONLY

NO	DATE BY	REVISION

UNIT NO 2
 SERVICE INSPECTION ISOMETRIC FOR
 REACTOR REGULATION SYSTEM
 LOOP "B" MANHOLE LOCATION
 ASME CLASS 1
 C-2409 SHEET 22-1

DRAWN BY: D.E. JOHNSON
 CHECKED BY: J. L. JOHNSON
 DATE: 10/18/57
 PROJECT: C-2409



FOR INFORMATION ONLY

NO.	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO.
 INDEPENDENT STATION ELECTRIC PLANT
 UNIT NO. 2
 OBSERVE CHECKING SOMETHING FOR
 STANDBY LIQUID CONTROL SYSTEM
 WALTER L. JOHNSON
 ENGINEER

DATE: 1-2-57
 O. E. JOHNSON
 CHECKED
 W. L. JOHNSON
 ENGINEER

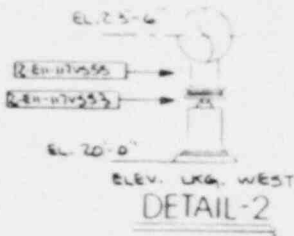
PROJECT: 17-1
 SHEET: 17-1-8



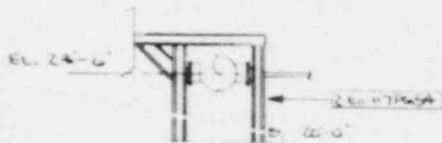
05" RESIDUAL LOOP "A"
CONT. ON DWG
C-2409
SHEET 29-1



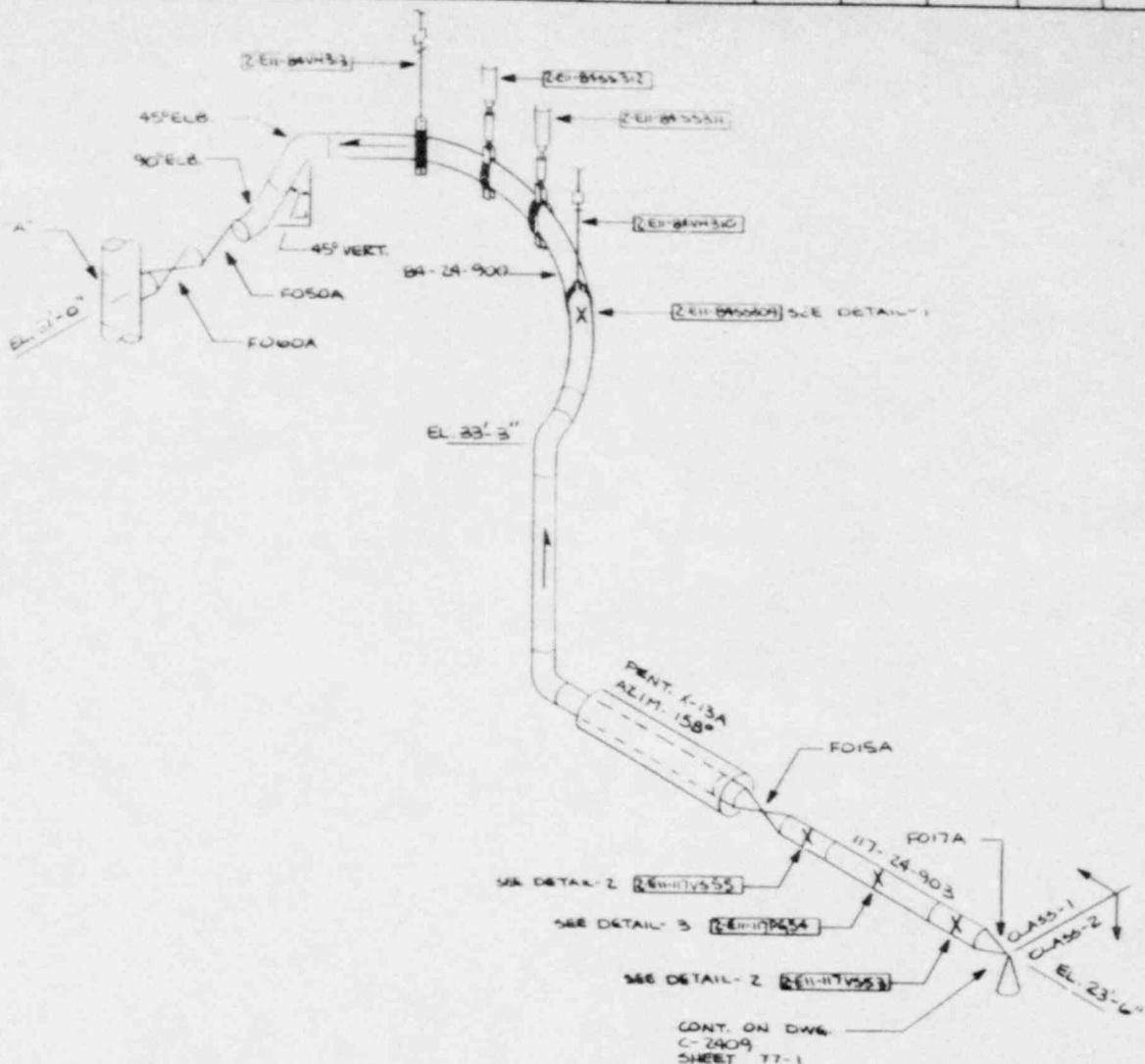
ELEV. UGA NORTHWEST
DETAIL-1



ELEV. UGA WEST
DETAIL-2



ELEV. UGA EAST
DETAIL-3



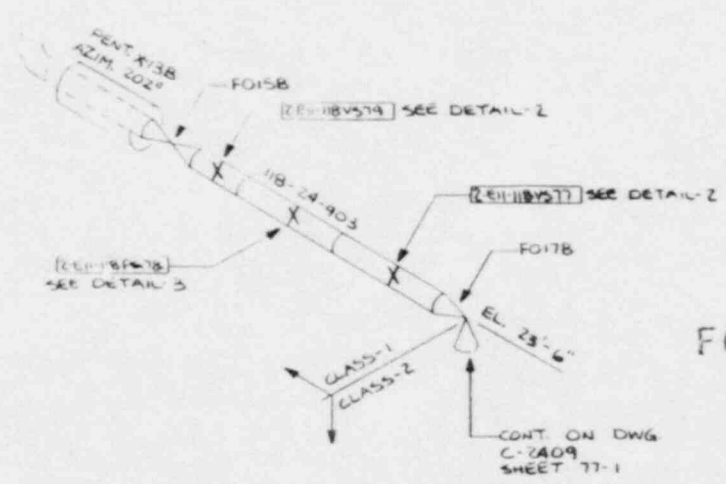
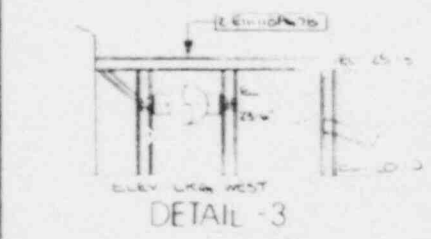
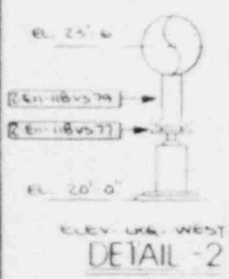
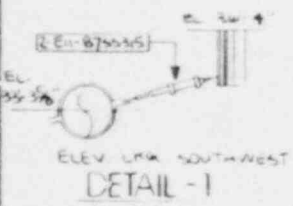
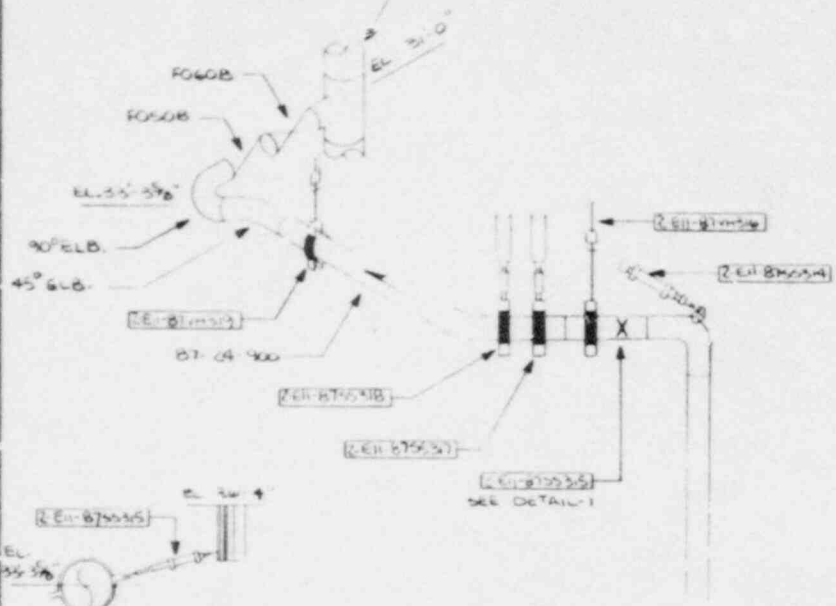
FOR INFORMATION ONLY

NO	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO BRUNSWICK STEAM ELECTRIC PLANT UNIT NO 2			
INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL SYSTEM LOOP "A" MANIFOLD LOCATION ASME CLASS 1			
C-2409 SHEET 29-1			

DRAWN 6-2-87
 D.G. JOHNSON
 CHK
 [Signature]
 [Signature]



CO. RESIDUAL LOOP B
CONT. ON DWG.
C-2409
SHEET 22-1

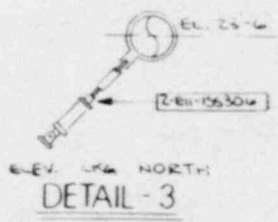
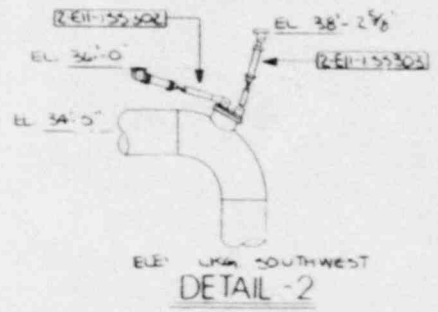
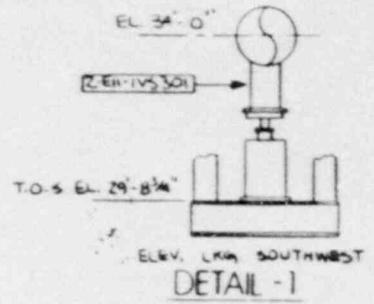
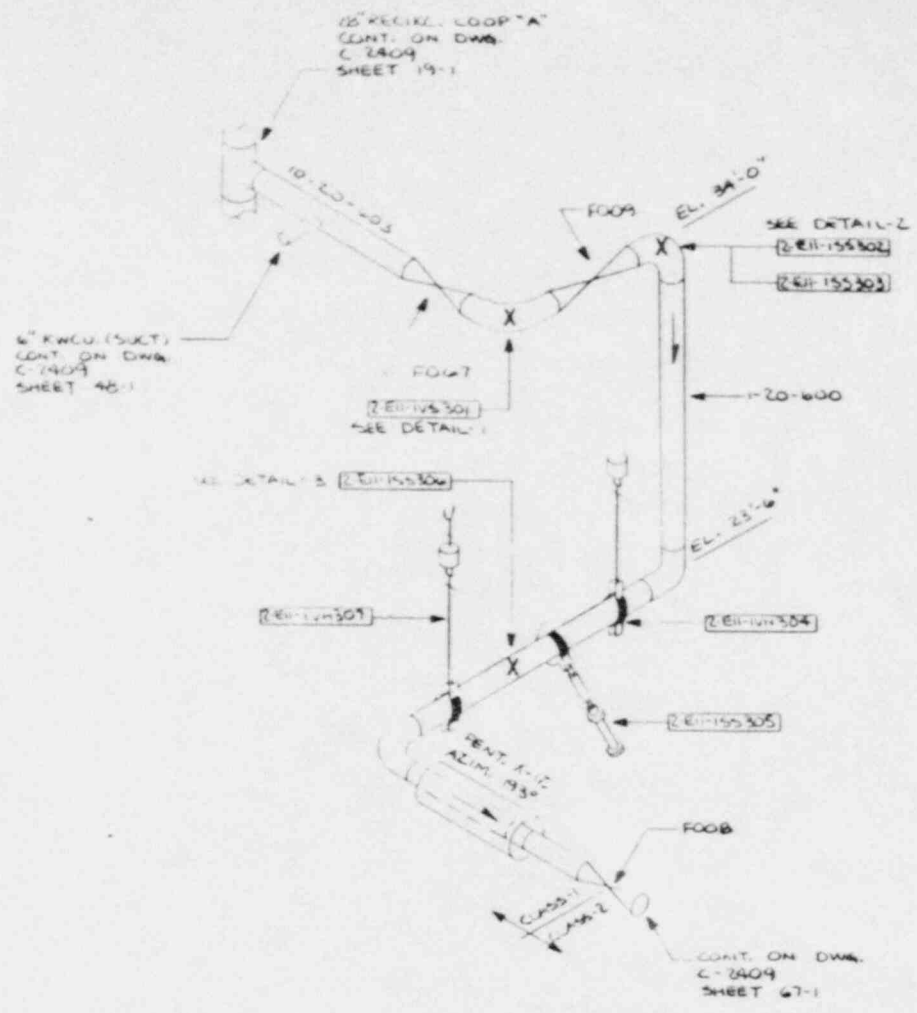


FOR INFORMATION ONLY

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO BRUNSWICK STEAM ELECTRIC PLANT			
UNIT NO. 2			
INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL LOOP B			
MANAGER LOCATION			
ASME CLASS 1			
C-2409 SHEET 30-1			

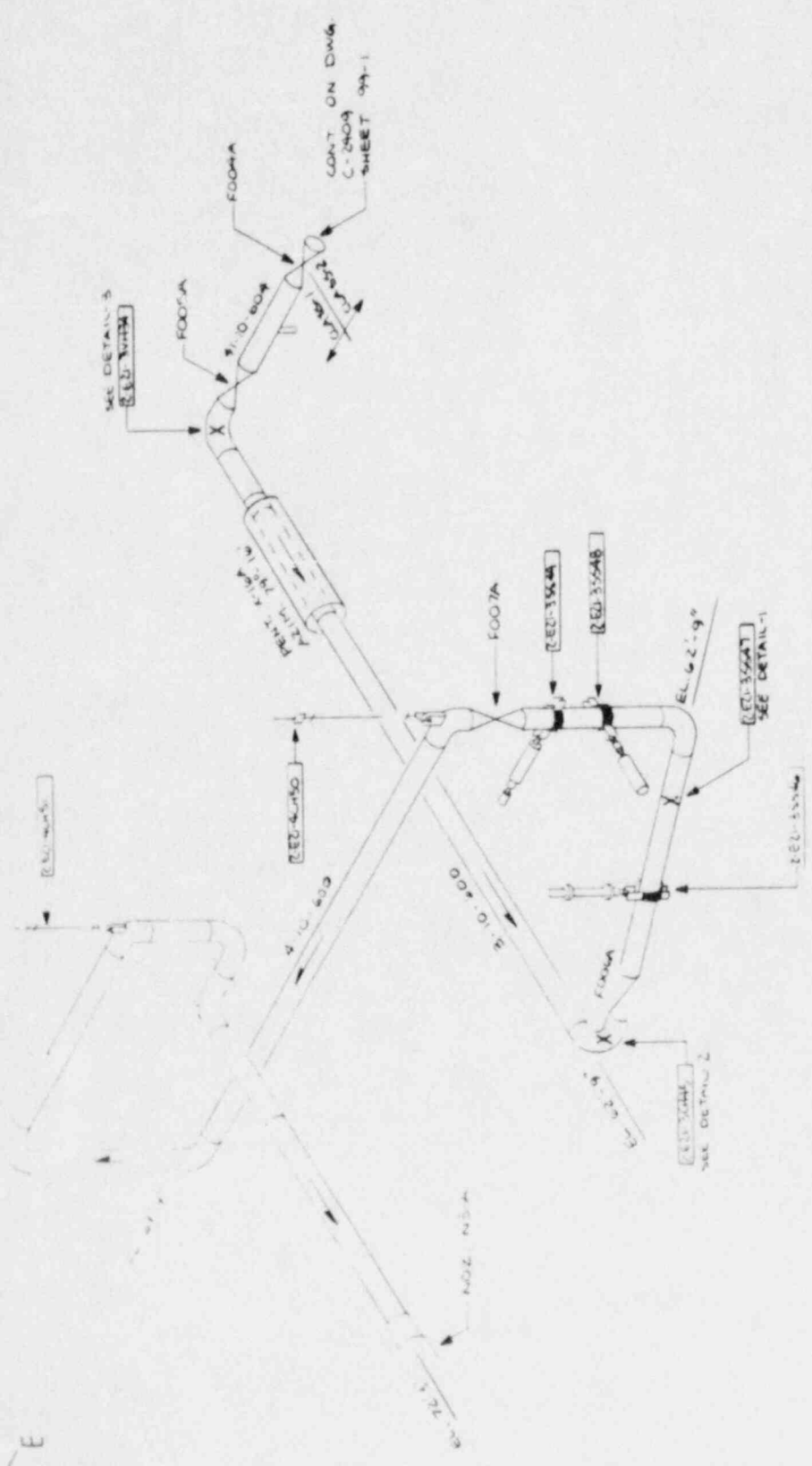
DRAWN 4-3-87
D.E. JOHNSON
CHK
B. [unclear] 12/2/87
APP
[unclear] 7/2/87

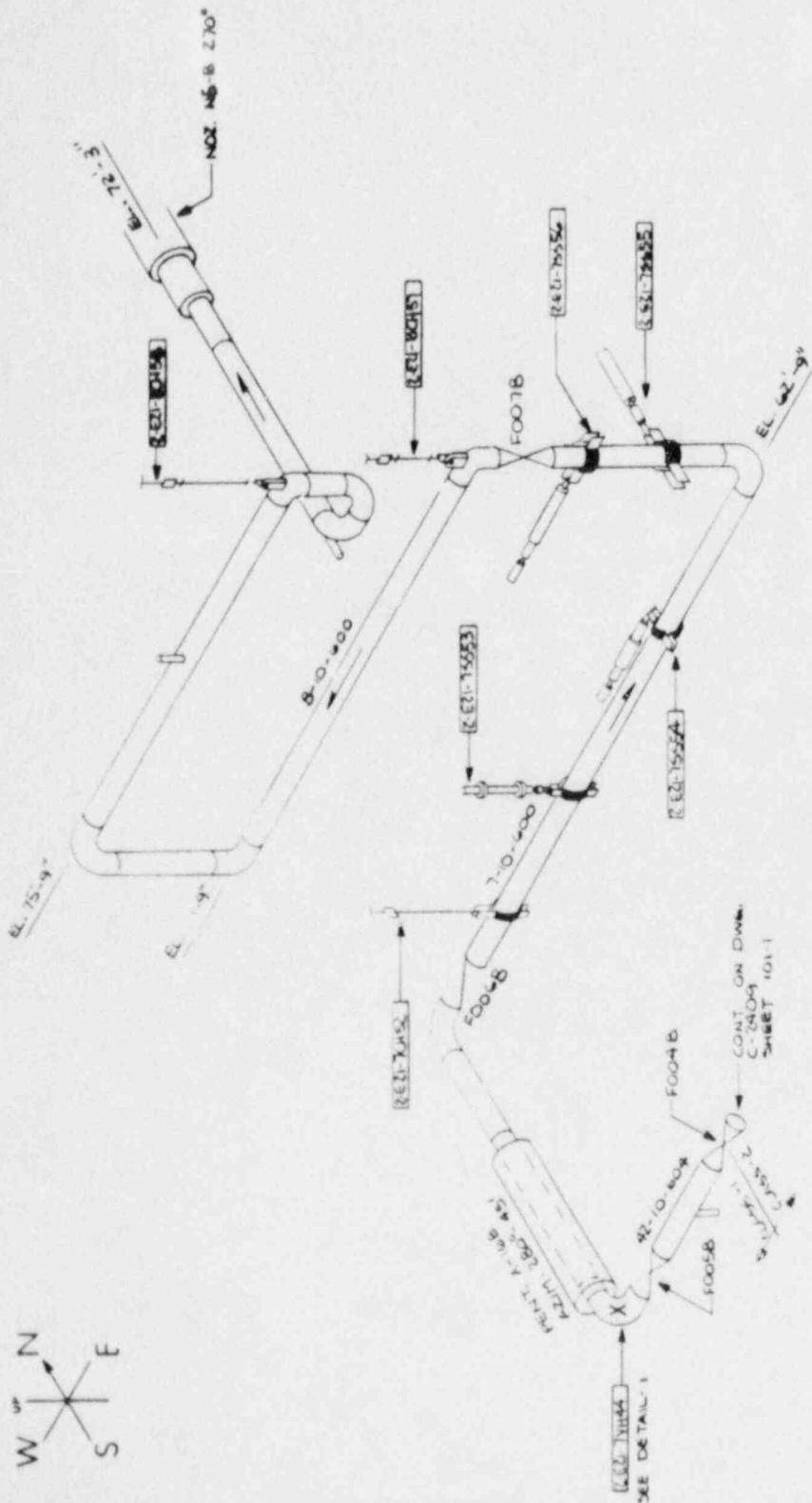
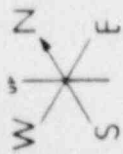
REV. 0



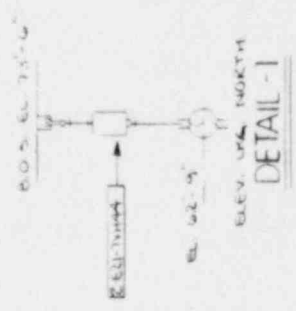
FOR INFORMATION ONLY

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO BRUNSWICK STEAM ELECTRIC PLANT UNIT NO. 2			
INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL (SHUTDOWN COOLING SUCTION) HANGER LOCATION ASME CLASS 1			
DRAWN D.E. JOHNSON CHKD [Signature] APPR [Signature]	4-3-67 1-9-67 4/10	C-2409 SHEET 31-1	10





FOR INFORMATION ONLY



NO.	DATE BY	REVISION

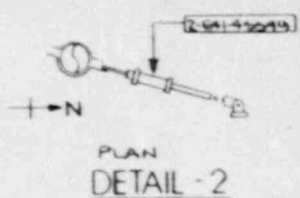
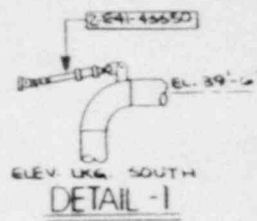
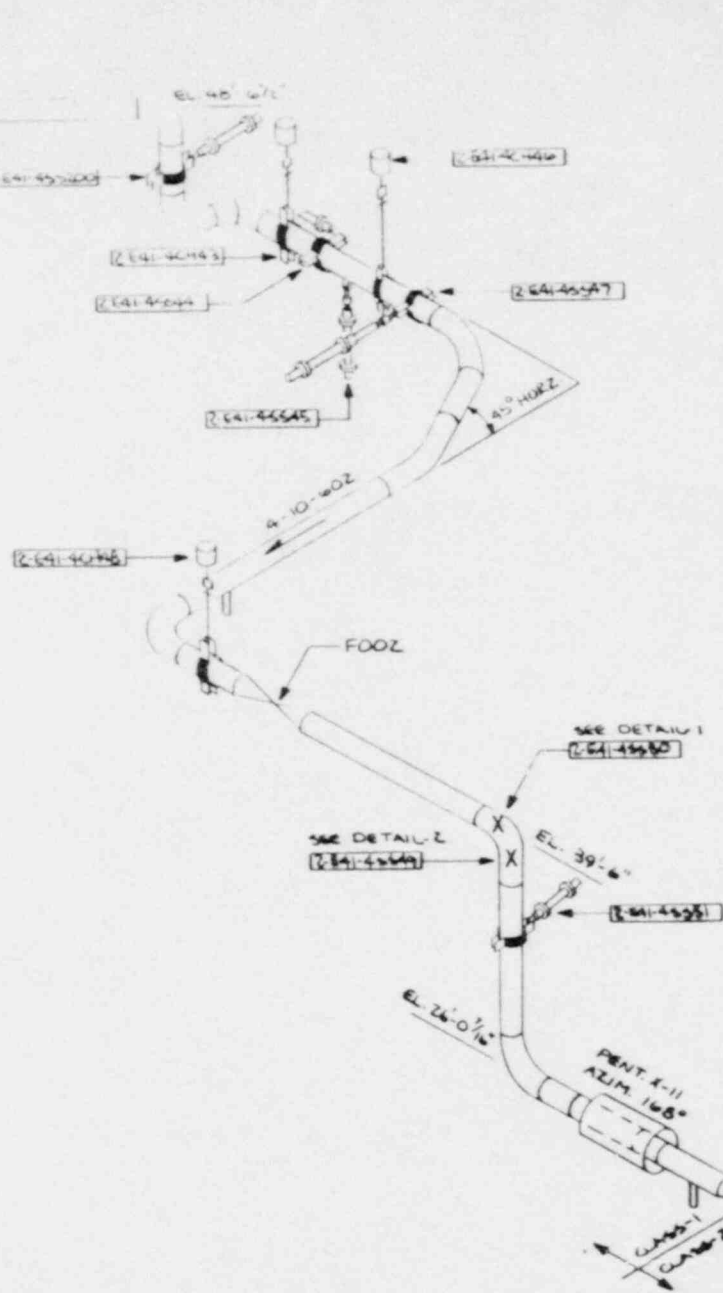
UNIT NO. 2
 CAROLINA POWER & LIGHT CO.
 BRUNSWICK STEAM ELECTRIC PLANT

DESIGNED BY: T. R. JOHNSON
 CHECKED BY: J. W. JOHNSON
 DATE: 10/1/47
 ASME CLASS: C-2409
 SHEET: 34-1

SERVICE INSPECTOR ISOMETRIC FOR
 COKE SPRAY TO B-DISCHARGE
 SYSTEM HANGER LOCATION



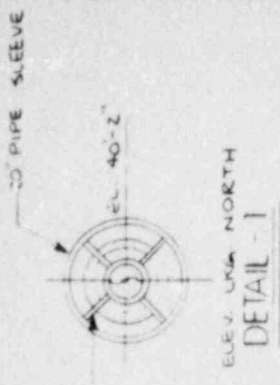
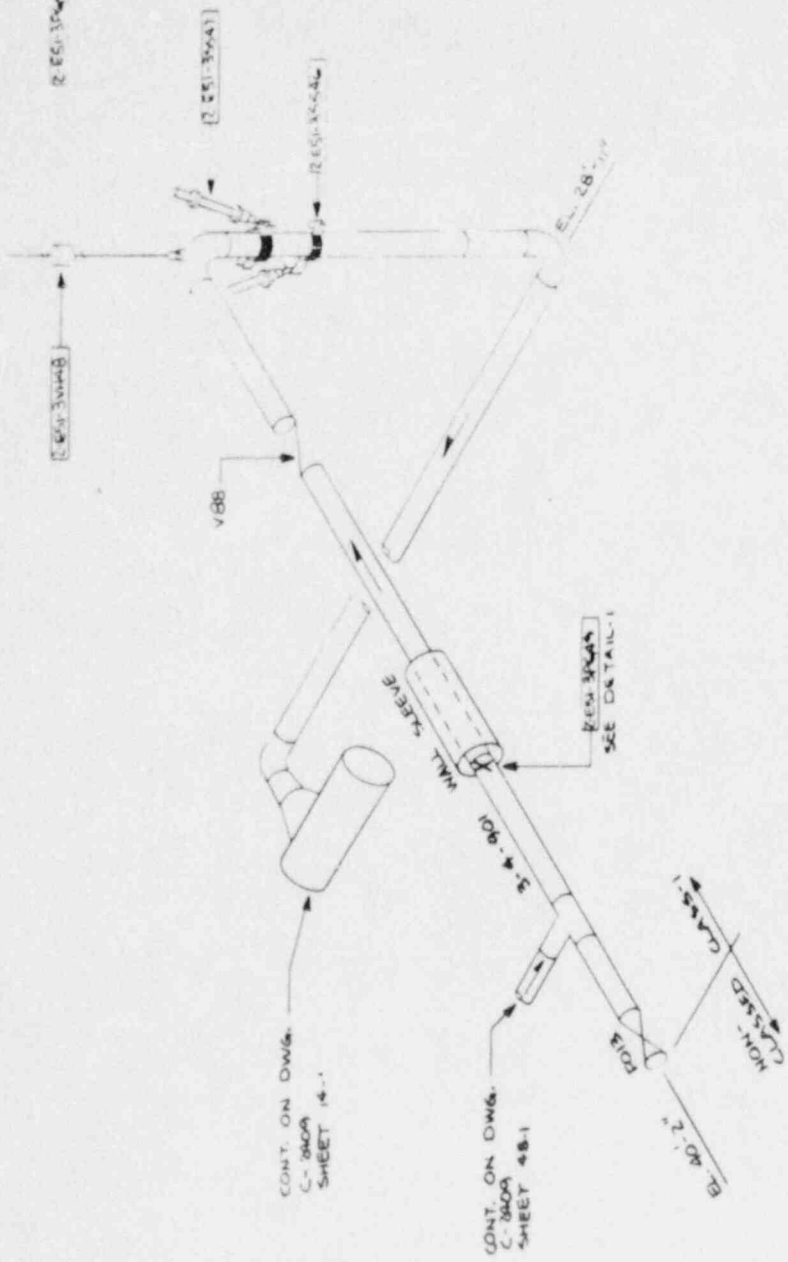
CONT. ON DWG.
C-2904
SHEET 6-1



FOR INFORMATION ONLY

CONT. ON DWG.
C-2904
SHEET 10B-1

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO.			
BIRMINGHAM STATION ELECTRICAL PLANT			
UNIT NO. 2			
DRAWN & CHECKED BY		APPROVED FOR THE PROJECT	
D.E. JOHNSON		[Signature]	
DATE		DATE	
7/2/41		7/2/41	



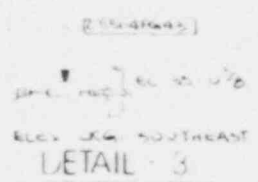
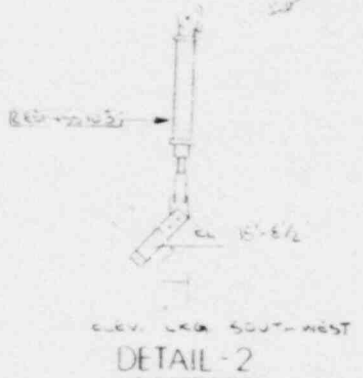
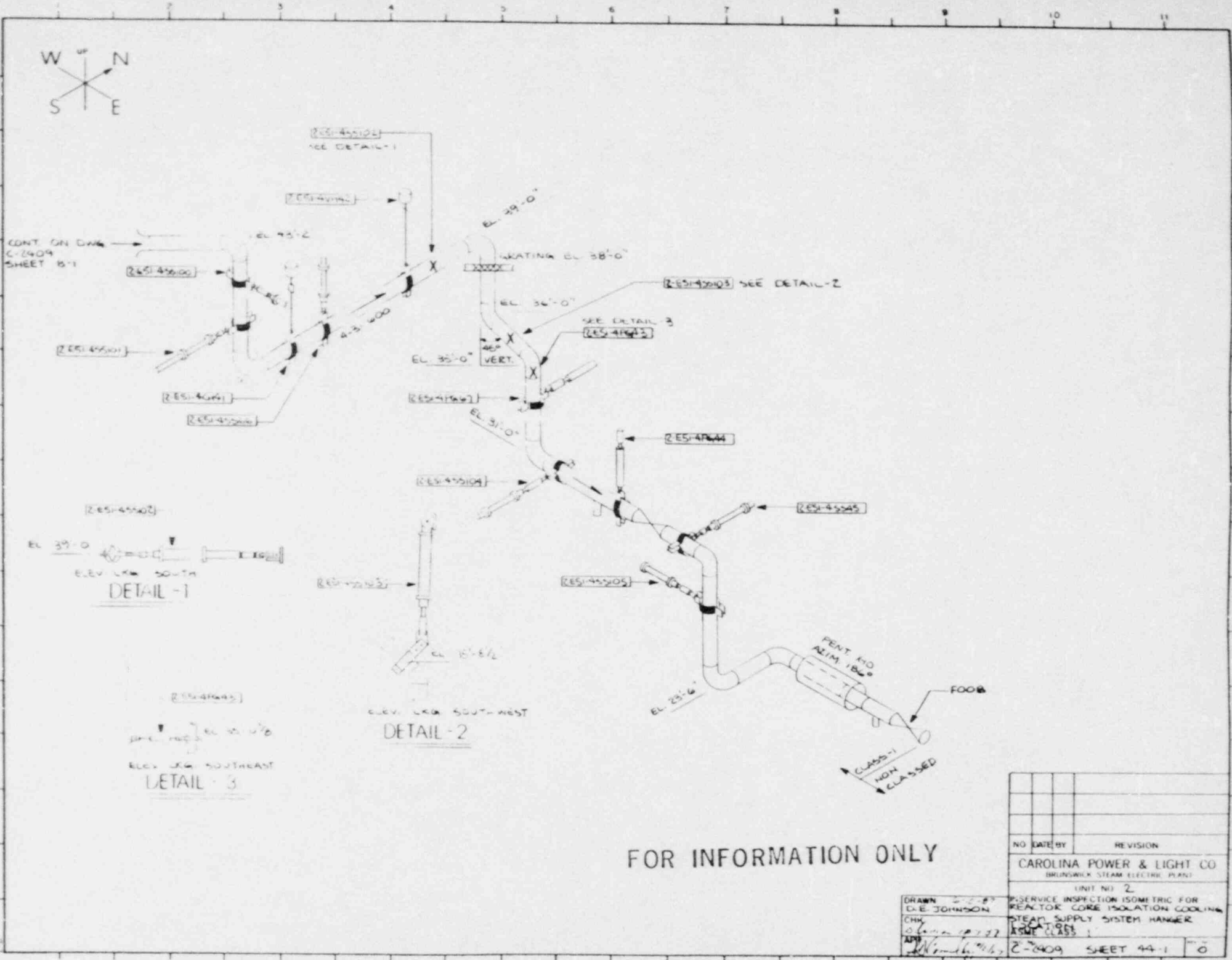
ELEV. 40' NORTH
DETAIL - 1

FOR INFORMATION ONLY

NO.	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO.
FURNONICK STEAM ELECTRIC PLANT
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR
REACTOR CORE ISOLATION COOLING
SYSTEM HANGER LOCATION
ASME CLASS 1
C-2809 SHEET 43-1 11" O

DRAWN BY
D.E. JOHNSON
CHKD BY
R. J. ...
DATE
12-15-87

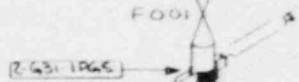
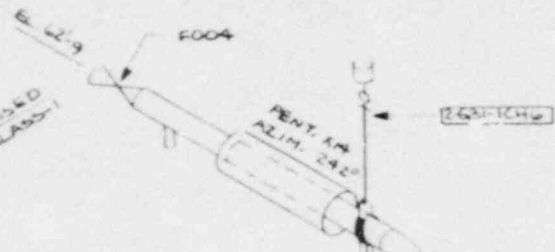


FOR INFORMATION ONLY

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO BRUNSWICK STEAM ELECTRIC PLANT			
UNIT NO. 2			
DRAWN: C. JOHNSON			
CHK: [Signature]			
DATE: 1/22/77			
APP: [Signature]			
SERVICE INSPECTION ISOMETRIC FOR REACTOR CORE ISOLATION COOLING STEAM SUPPLY SYSTEM HANGER ISOMETRIC CLASS 1			
C-2409 SHEET 14-1			0



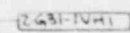
NON
CLASS'D
CLASS 1



GRATING EL. 52'-0"



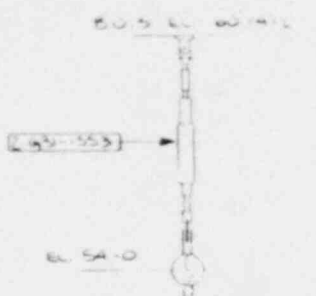
GRATING EL. 38'-0"



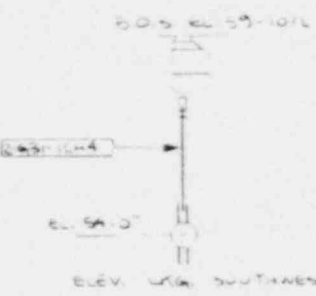
CONT. ON DWG
C-2409
SHEET 49-1

CONT. ON DWG.
C-2409
SHEET 31-1

FOR INFORMATION ONLY



DETAIL-1

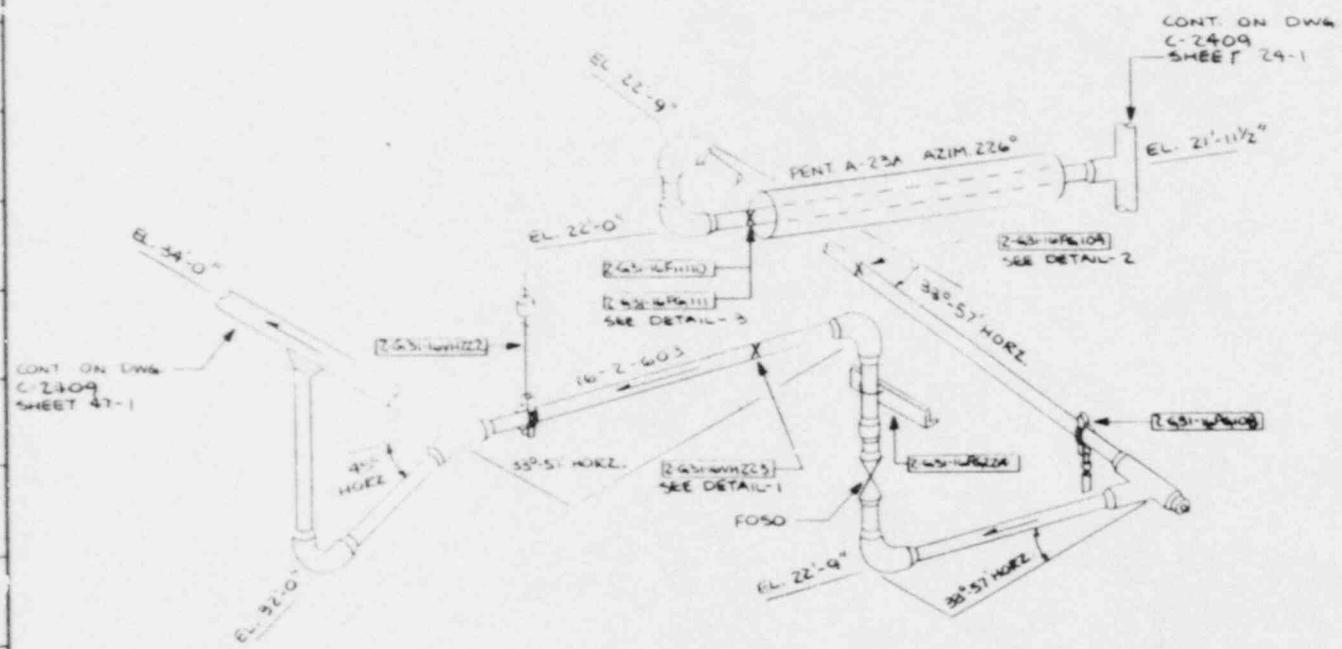
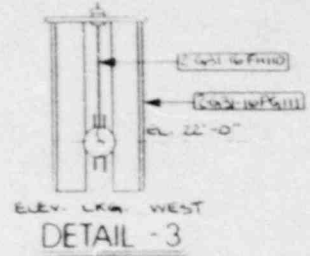
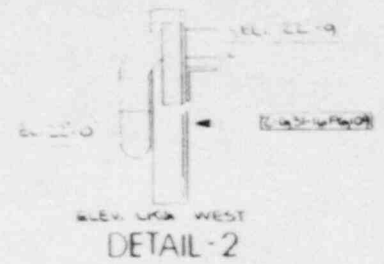
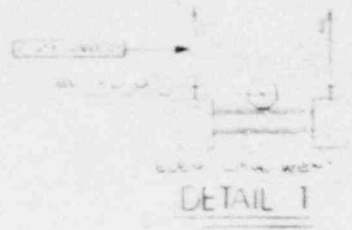


DETAIL-2

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO BRUNSWICK STEAM ELECTRIC PLANT			
UNIT NO 2			
INSERVICE INSPECTION ISOMETRIC FOR REACTOR WATER CLEAN-UP 6" SUCTION HANGER LOCATION			
ASME CLASS 1			
C-2409 SHEET 47-1			REV. 0

DRAWN 6-10-87
D.E. JOHNSON
CHK
C. J. ...
APP
...

INSERVICE INSPECTION ISOMETRIC FOR
REACTOR WATER CLEAN-UP 6"
SUCTION HANGER LOCATION
ASME CLASS 1
C-2409 SHEET 47-1 REV. 0

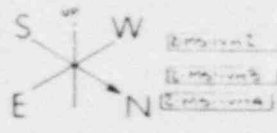
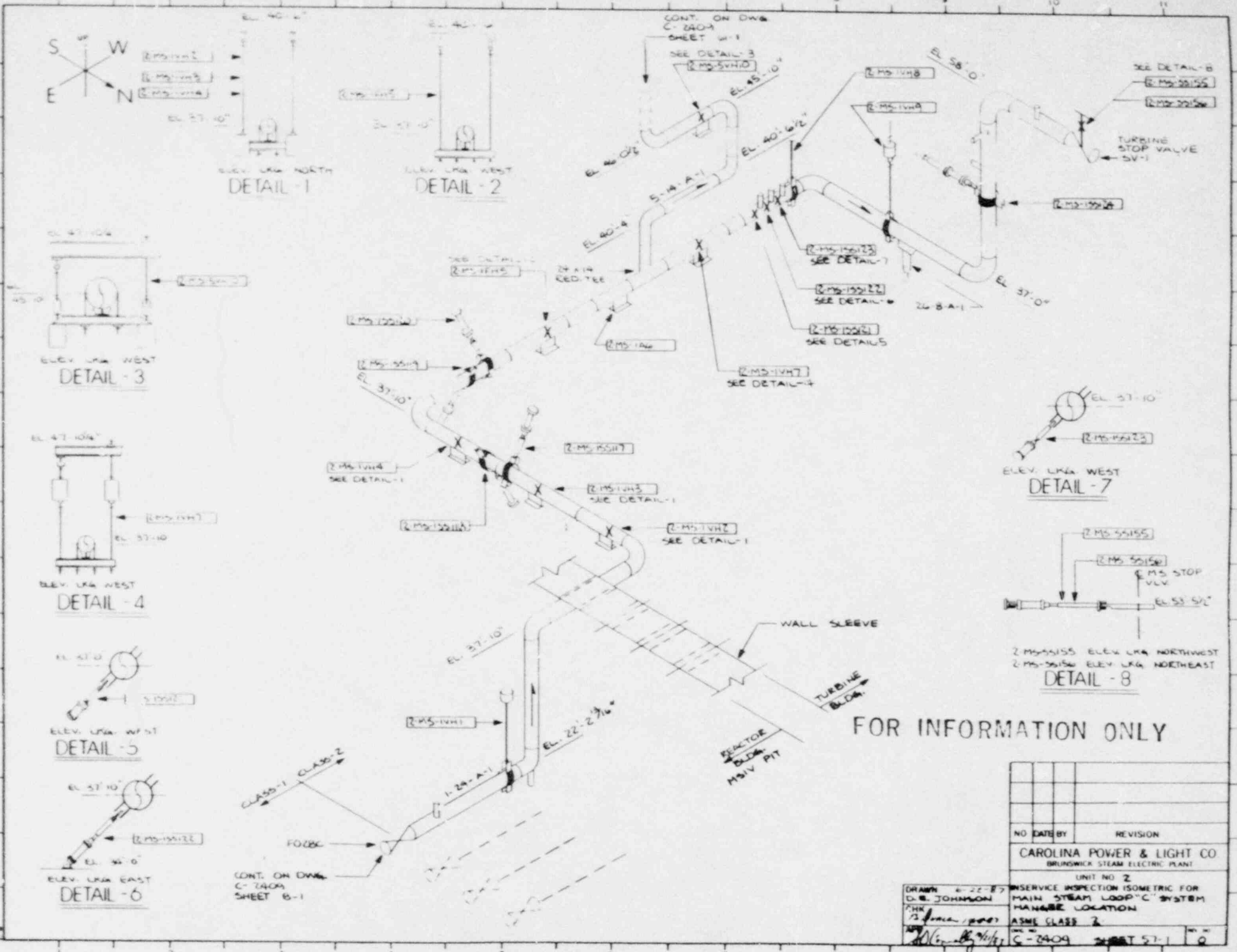


FOR INFORMATION ONLY

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO BRUNSWICK STEAM ELECTRIC PLANT UNIT NO. 2			
INSERVICE INSPECTION ISOMETRIC FOR REACTOR BUILDING REACTOR WATER CLEAN-UP SYSTEM HANGAR LOCATION			
DRAWN 6-10-87 E. E. JOHNSON CHK [Signature]		ASME CLASS 1 C-2409 SHEET 19-1	

CONT. ON DWG
C-2409
SHEET 17-1

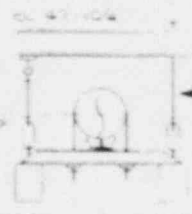
CONT. ON DWG
C-2409
SHEET 19-1



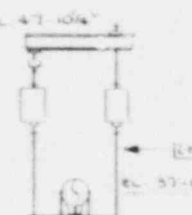
Removal
 Reassembly
 Reassembly

ELEV. LGA NORTH
 DETAIL - 1

ELEV. LGA WEST
 DETAIL - 2



ELEV. LGA WEST
 DETAIL - 3



ELEV. LGA WEST
 DETAIL - 4



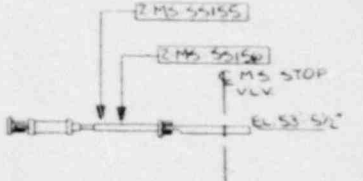
ELEV. LGA WEST
 DETAIL - 5



ELEV. LGA EAST
 DETAIL - 6



ELEV. LGA WEST
 DETAIL - 7



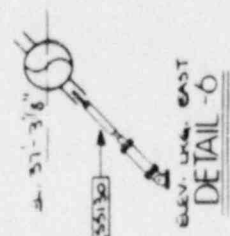
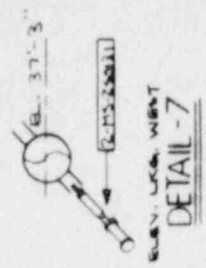
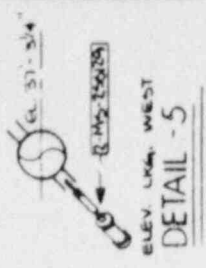
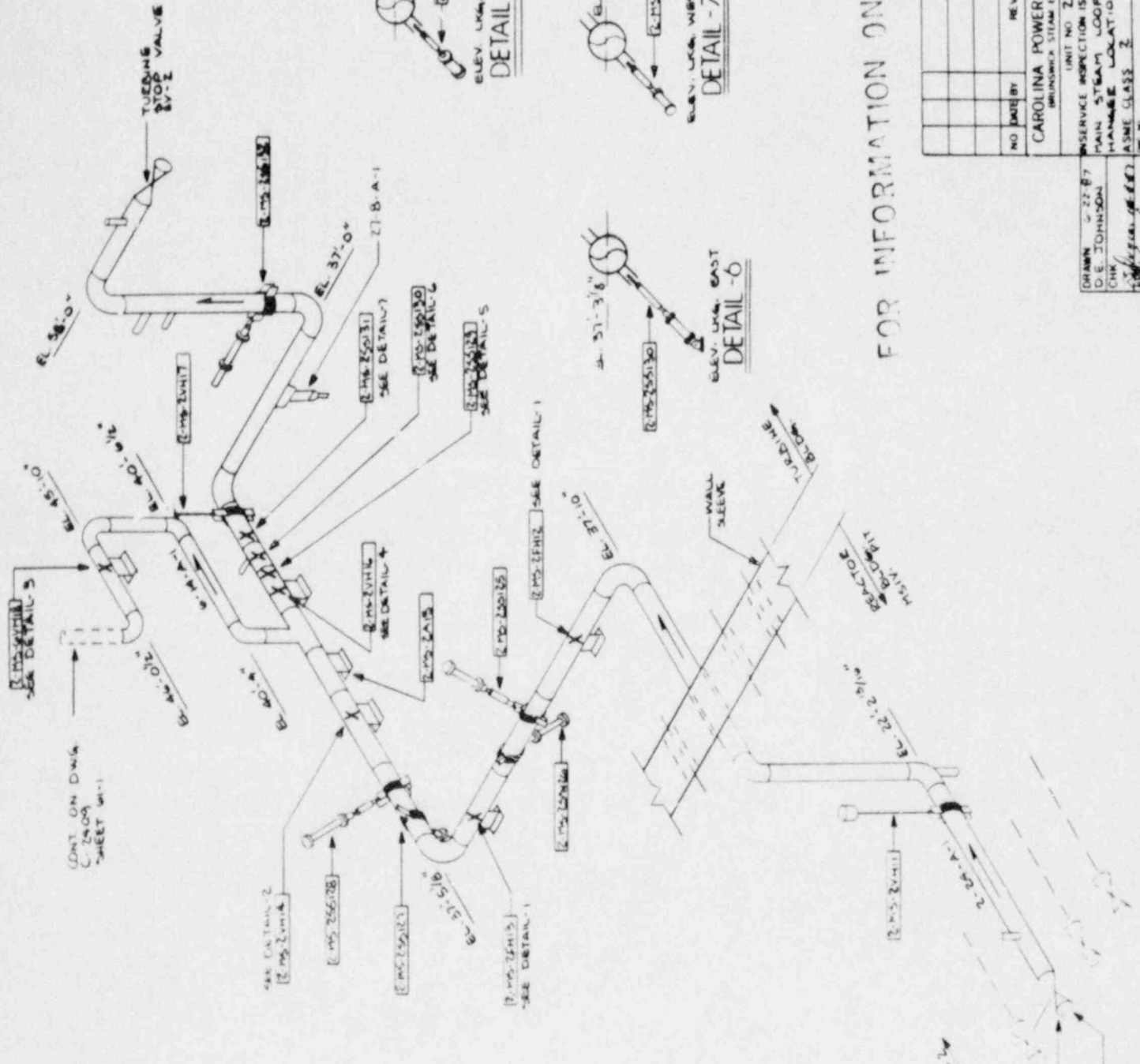
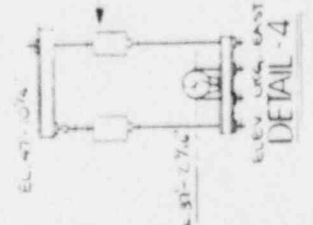
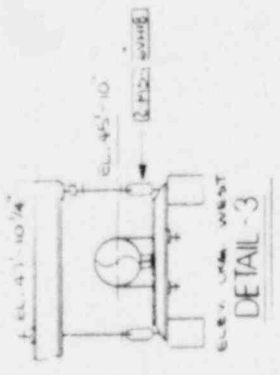
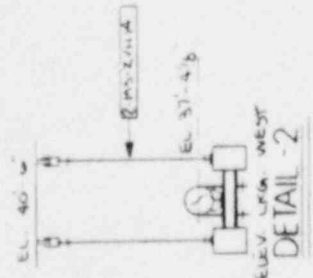
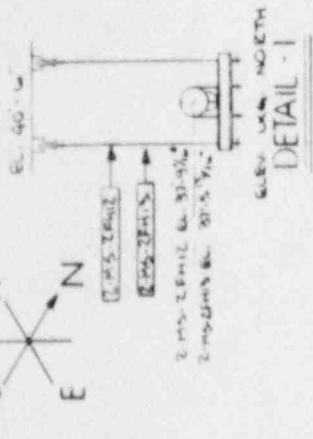
2 MS-55155 ELEV. LGA NORTHWEST
 2 MS-55156 ELEV. LGA NORTHEAST
 DETAIL - 8

FOR INFORMATION ONLY

CONT. ON DWG
 C-2409
 SHEET B-1

DRAWN 4-22-87
 D. B. JOHNSON
 CHK
 J. J. JONES / 1000
 APP
 [Signature]

NO	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO BRUNSWICK STEAM ELECTRIC PLANT UNIT NO 2 INSERVICE INSPECTION ISOMETRIC FOR MAIN STEAM LOOP "C" SYSTEM MANABEE LOCATION ASME CLASS 2 C-2409 SHEET 57-1			



FOR INFORMATION ONLY

NO.	DATE	BY	REVISION

UNIT NO. 2
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT

INSERVICE INSPECTION ISOMETRIC FOR
MAIN STEAM LOOP "D" SYSTEM
MANAGE LOCATION
ASME CLASS 2

UNIT NO. 2
CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT

NO. DATE BY REVISION

DRAWN: 2-22-87
D.E. JOHNSON
CHK: [Signature]
DATE: 2/22/87
C-2409 SHEET 58-1

CONT. ON DWG. C-2409 SHEET 11

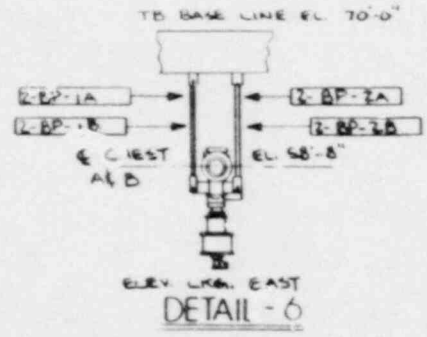
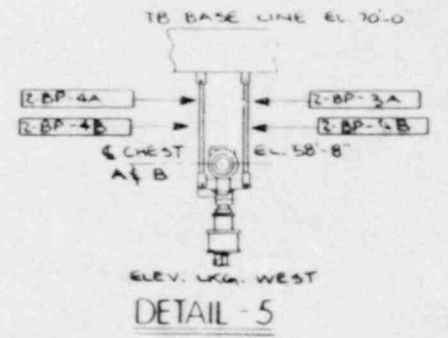
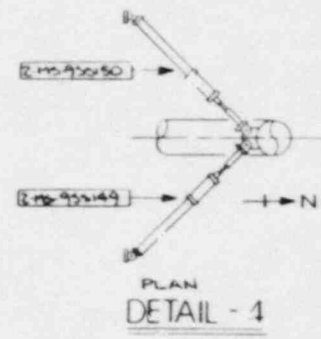
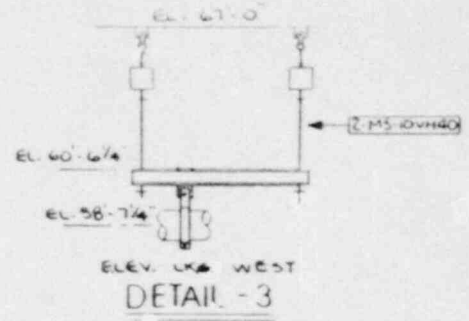
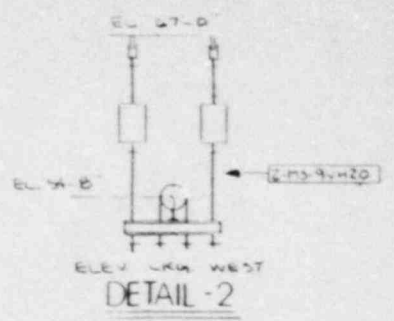
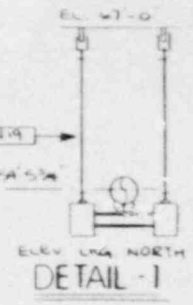


CONT. ON DWG.
C-2404
SHEET 59-1

CONT. ON DWG.
C-2404
SHEET 58-1

CONT. ON DWG.
C-2404
SHEET 60-1

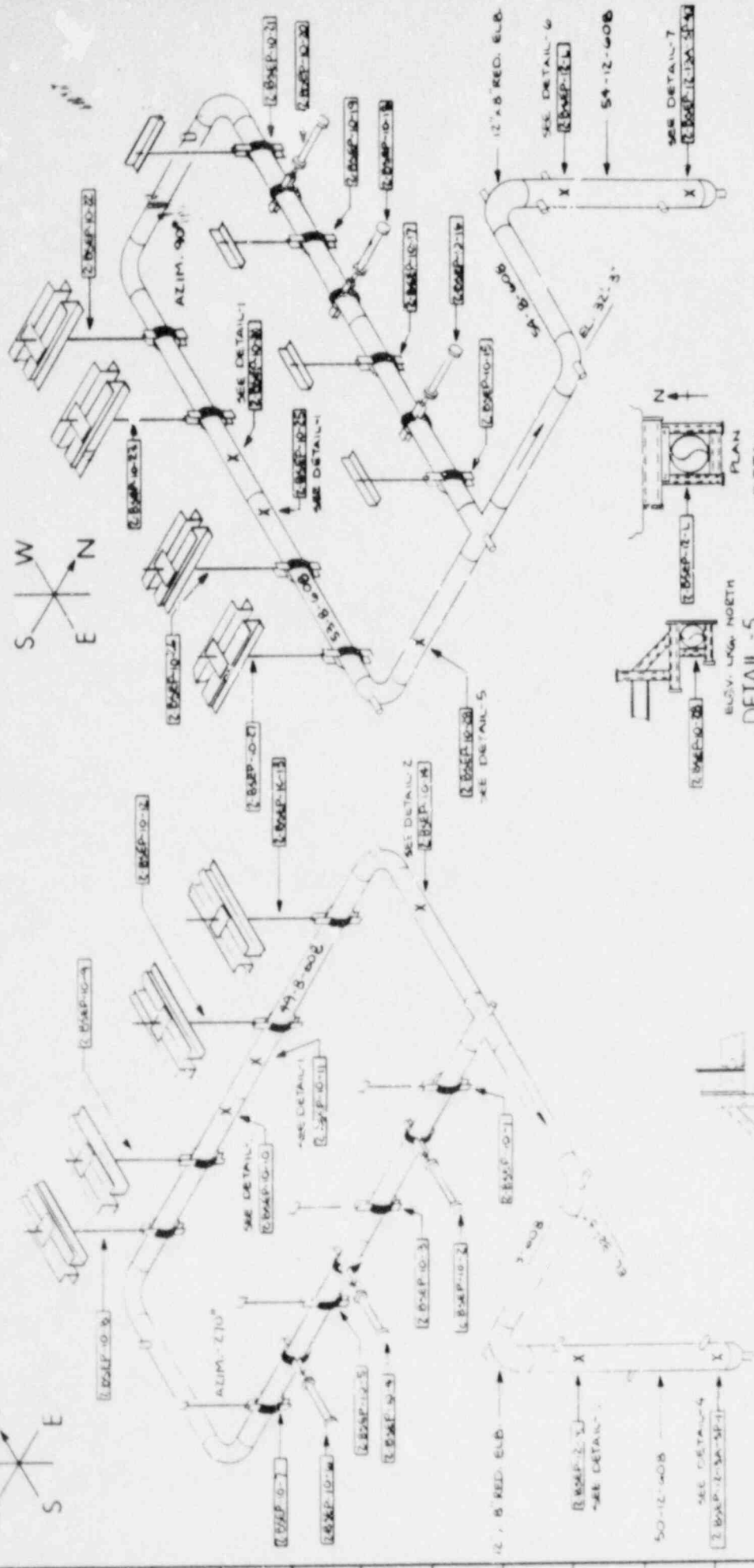
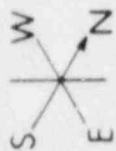
CLASS 2 / NON-CLASSIFIED



FOR INFORMATION ONLY

NO.	DATE BY	REVISION
CAROLINA POWER & LIGHT CO. BRUNSWICK STEAM ELECTRIC PLANT		
UNIT NO. 2		
INSERVICE INSPECTION ISOMETRIC FOR MAIN STEAM BYPASS CHEST PIPING SYSTEM MANAGER LOCATION		
ASME CLASS 2		
DRW. C-2404	DATE 10-20-67	SHEET 61-1
CHK. AS	APP. [Signature]	REV. NO. 0

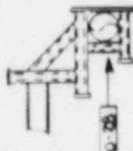
DRAWN C-2404 BY
D.E. JOHNSON
CHK. AS
DATE 10-20-67
APP. [Signature]



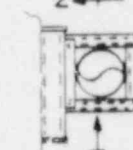
ELEV. VIEW SOUTH
DETAIL - 2



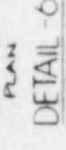
ELEV. VIEW EAST
DETAIL - 1



ELEV. VIEW NORTH
DETAIL - 5



ELEV. VIEW NORTH
DETAIL - 7



PLAN
DETAIL - 6



PLAN
DETAIL - 4

FOR INFORMATION ONLY

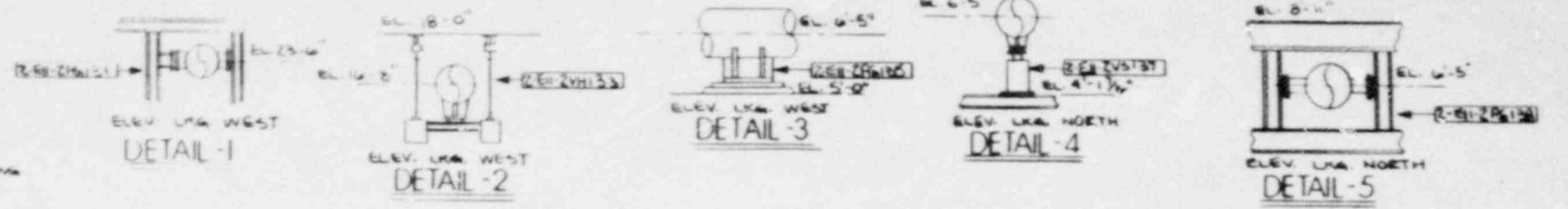
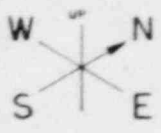
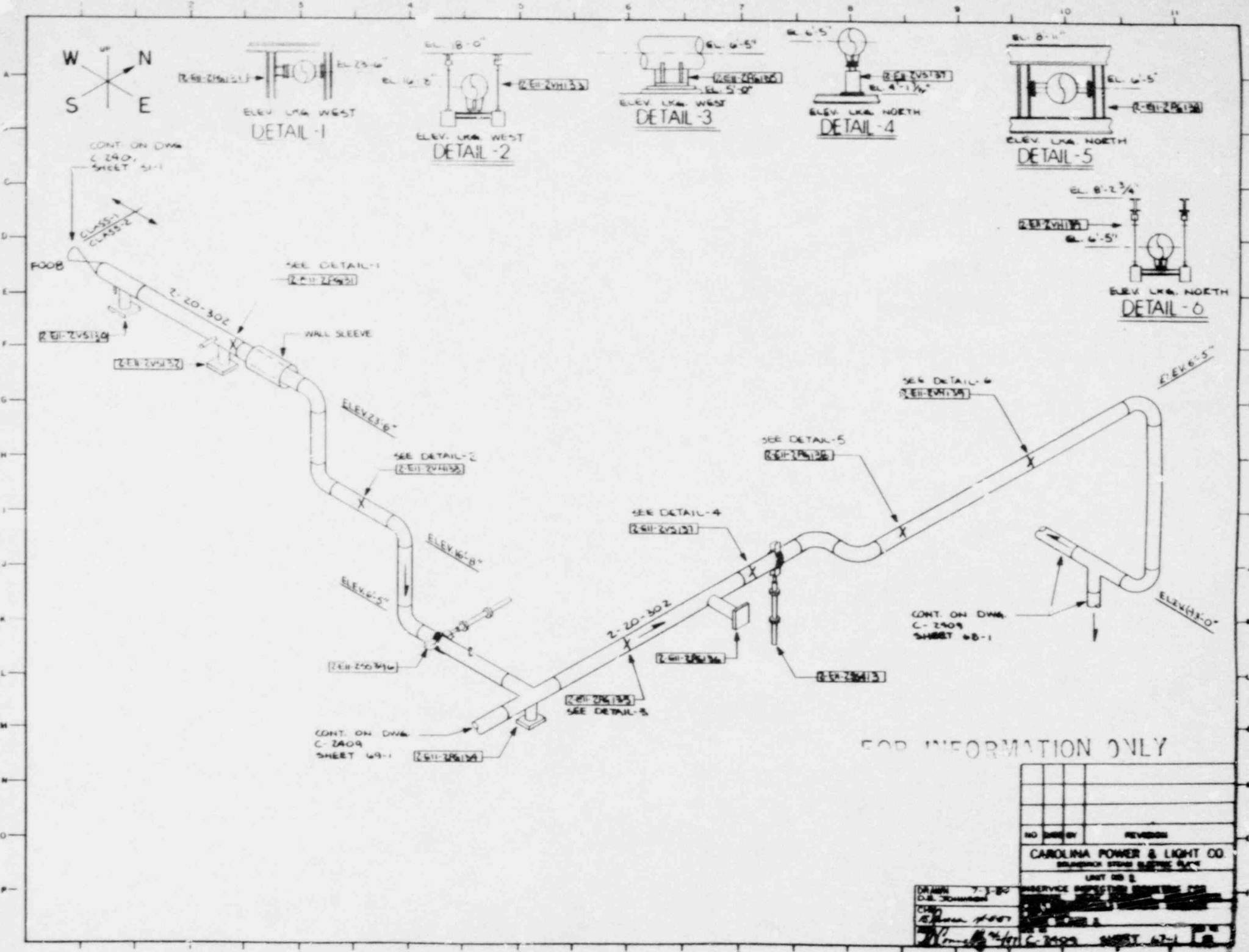
NO.	DATE	BY	REVISION

UNIT NO. 2
SERVICE INSPECTION ISOMETRIC FOR
CAROLINA POWER & LIGHT CO
BRUNNICK STEAM ELECTRIC PLANT

DRAWN 6-2-87
D. E. JOHNSON
CHK'D
ASME CLASS 2
DATE 7/1/87

3-KAY DISCHARGE VOLUME
4 HEADERS MANNER LOCATION

11-2409 SHEET 64-1



CONT. ON DWA
C-240,
SHEET 51-1

SEE DETAIL-1
[R-91-216151]

SEE DETAIL-6
[R-91-216151]

SEE DETAIL-2
[R-91-216153]

SEE DETAIL-5
[R-91-216153]

SEE DETAIL-4
[R-91-216151]

CONT. ON DWA
C-2409
SHEET 49-1

CONT. ON DWA
C-2409
SHEET 49-1

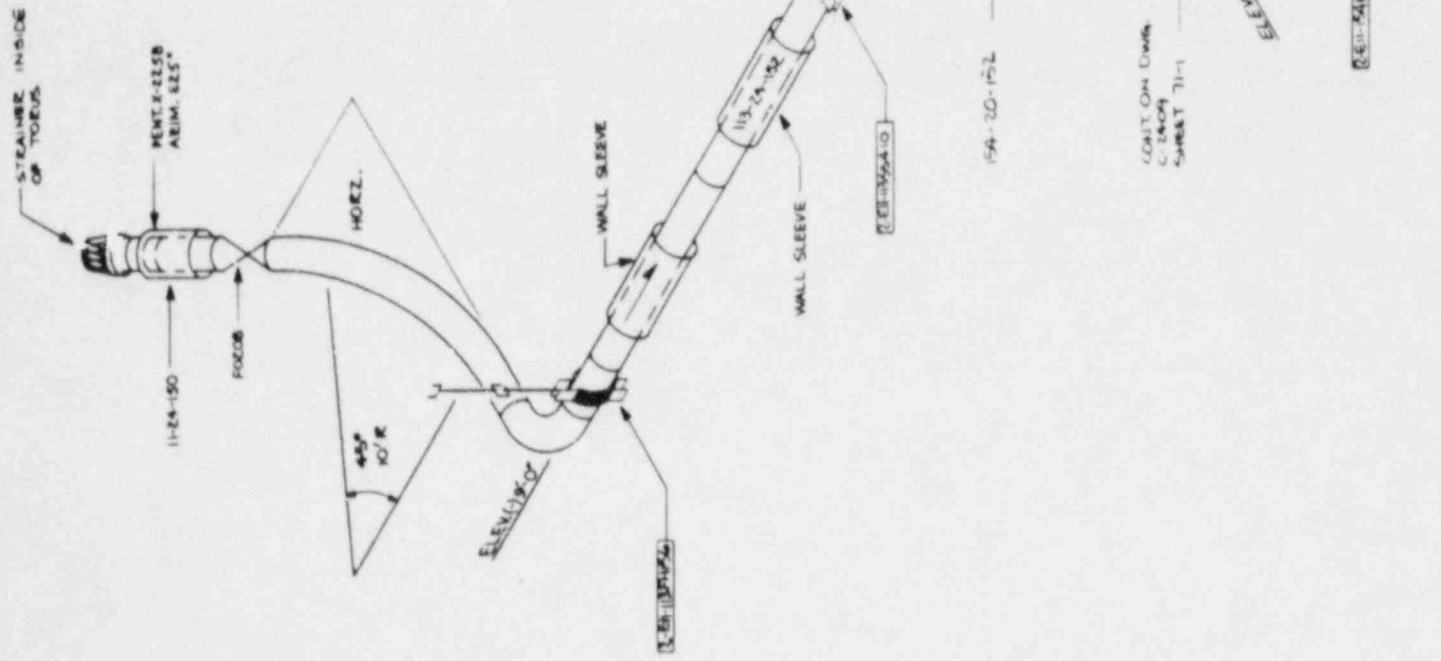
SEE DETAIL-3
[R-91-216151]

[R-91-216153]

FOR INFORMATION ONLY

NO.	BY	REVISION
CAROLINA POWER & LIGHT CO.		
BALANCE OF STATE ELECTRIC CO.		
UNIT 00 8		
SERVICE INSPECTOR		
DATE		
DRAWN		
C-2409 SHEET 47-1		

DRAWN 7-30
D.B. [unclear]
C-2409 SHEET 47-1

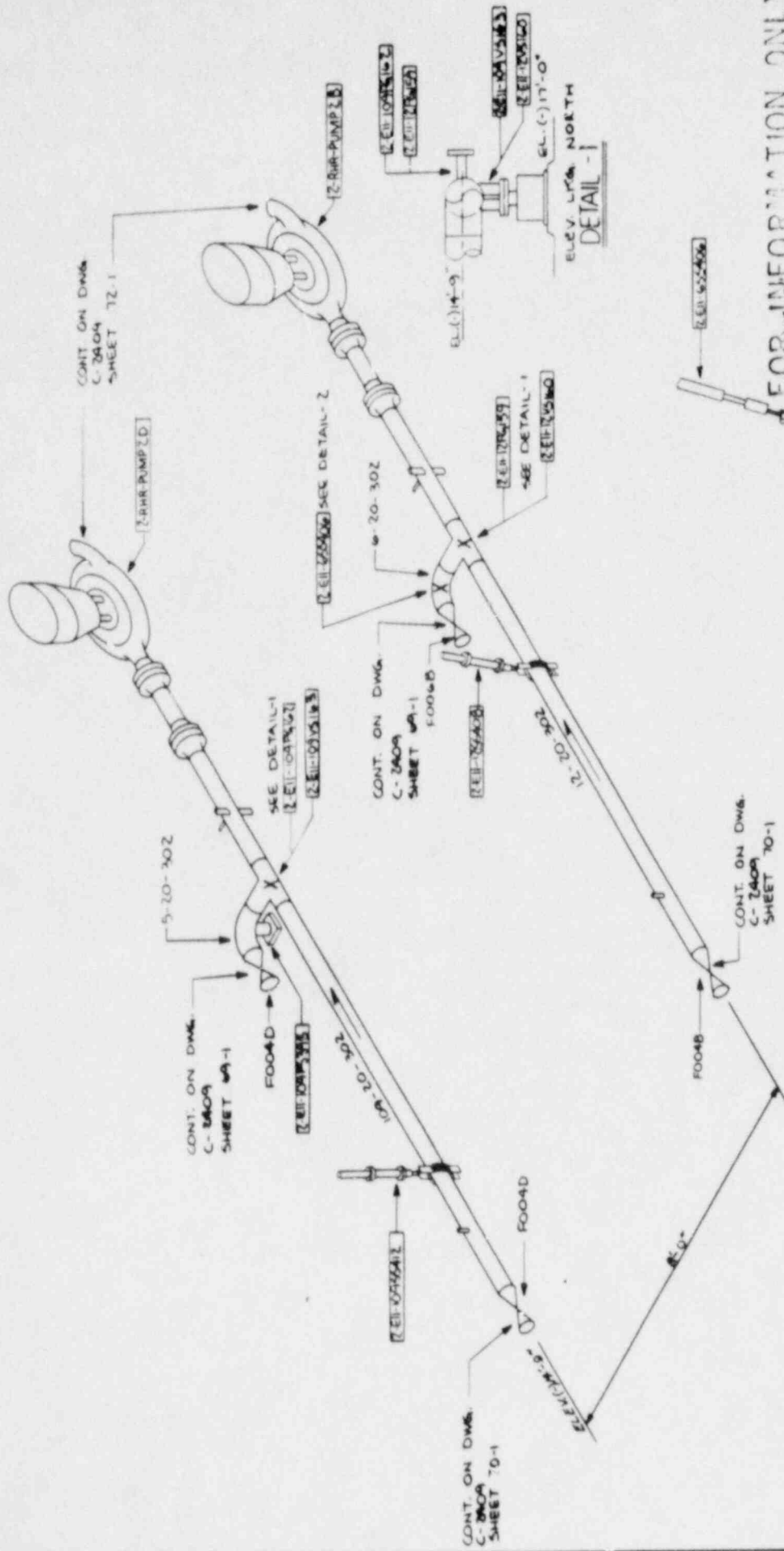


FOR INFORMATION ONLY

NO.	DATE	BY	REVISION

UNIT NO. 2
 SERVICE INSTRUMENTS FOR
 CAROLINA POWER & LIGHT CO.
 PROJECT NO. C-2401
 DRAWN BY D. E. JOHNSON
 CHECKED BY J. H. JOHNSON
 DATE 11-16-57
 ASME CLASS 2
 SERVICE INSTRUMENTS FOR
 CAROLINA POWER & LIGHT CO.
 PROJECT NO. C-2401
 SHEET 20-1

11
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P



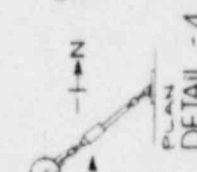
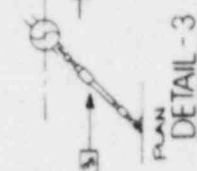
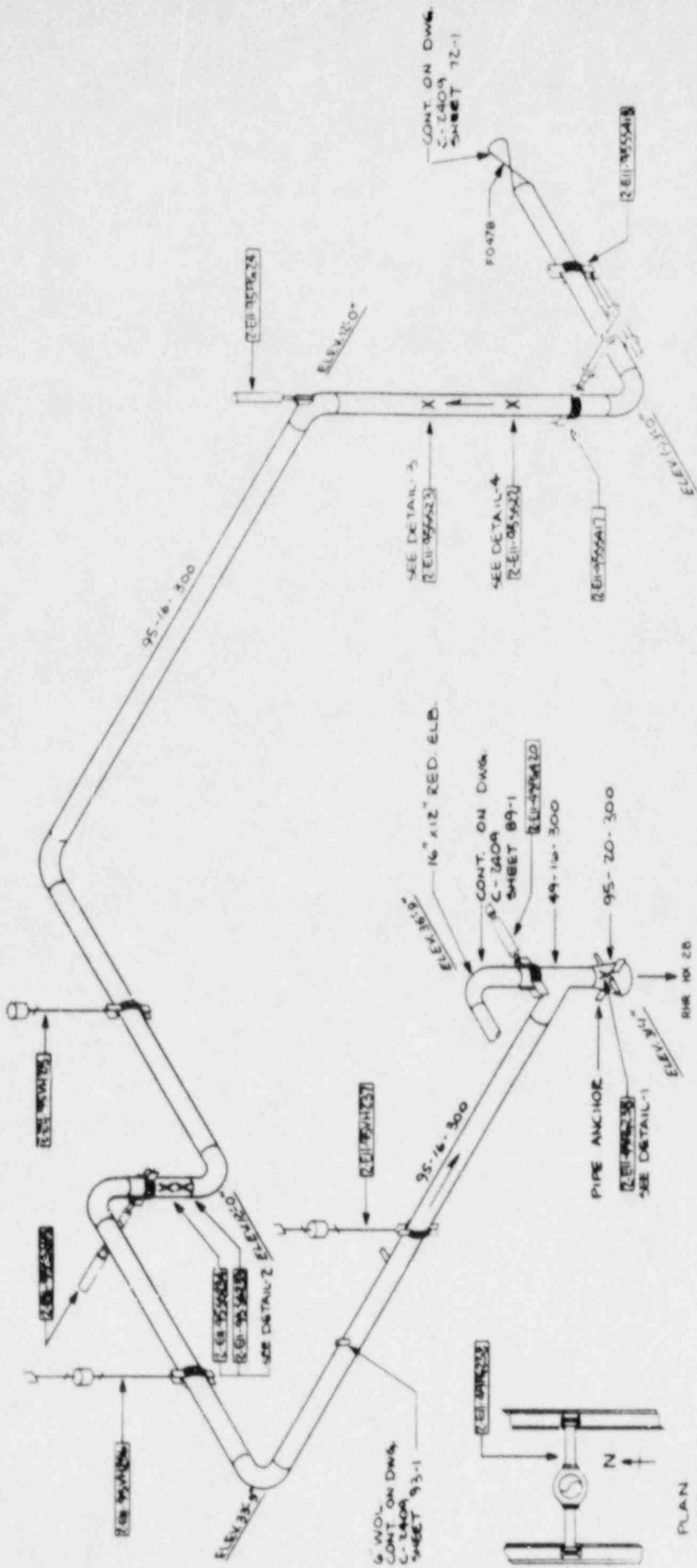
FOR INFORMATION ONLY

ELEV. LINES WEST
DETAIL - 2

NO.	DATE BY	REVISION

CAROLINA POWER & LIGHT CO.
DUROCK STEAM ELECTRIC PLANT

UNIT NO. 2
SERVICE CONNECTION LOCATION
D. JOHNSON
ASME CLASS 2
C-2409 SHEET 71-1



PLAN
DETAIL-1

ELEV. 16'-6 WEST
DETAIL-2

PLAN
DETAIL-3

PLAN
DETAIL-4

FOR INFORMATION ONLY

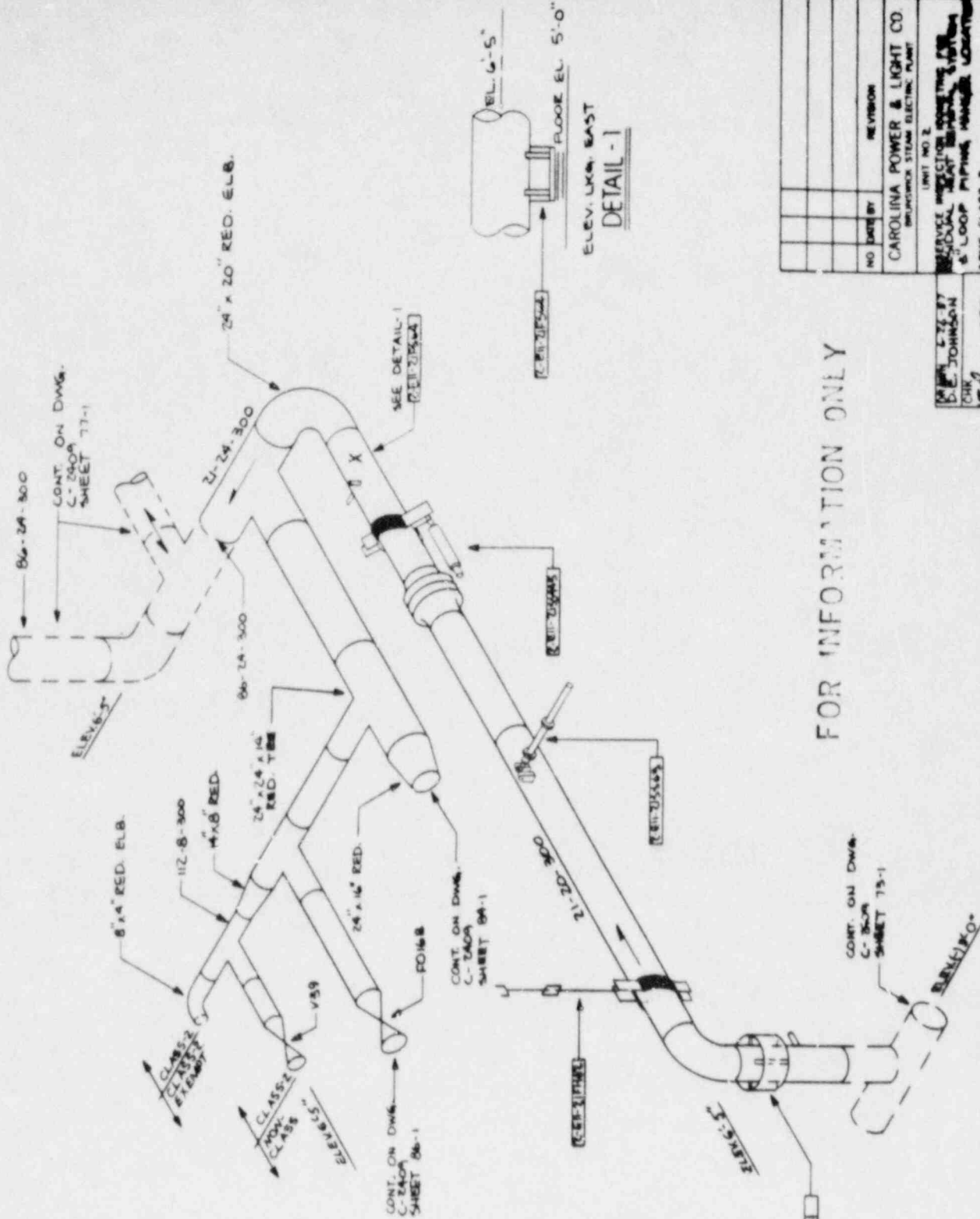
NO.	DATE	BY	REVISION

NO. 1011
 CAROLINA POWER & LIGHT CO.
PLANT AND SYSTEMS DIVISION

PLANT No. 2
 INSERVICE INSPECTION ISOMETRIC FOR
 RESIDUAL HEAT REMOVAL "B" LOOP PIPING
 TO HEAT EXCHANGER "2" HANGER
 LOCATION
 ASME CLASS 2

DESIGNED BY: J. E. JOHNSON
 CHECKED BY: M. J. J.
 DATE: 10/15/77

C-2409 SHEET 74-1



FOR INFORMATION ONLY

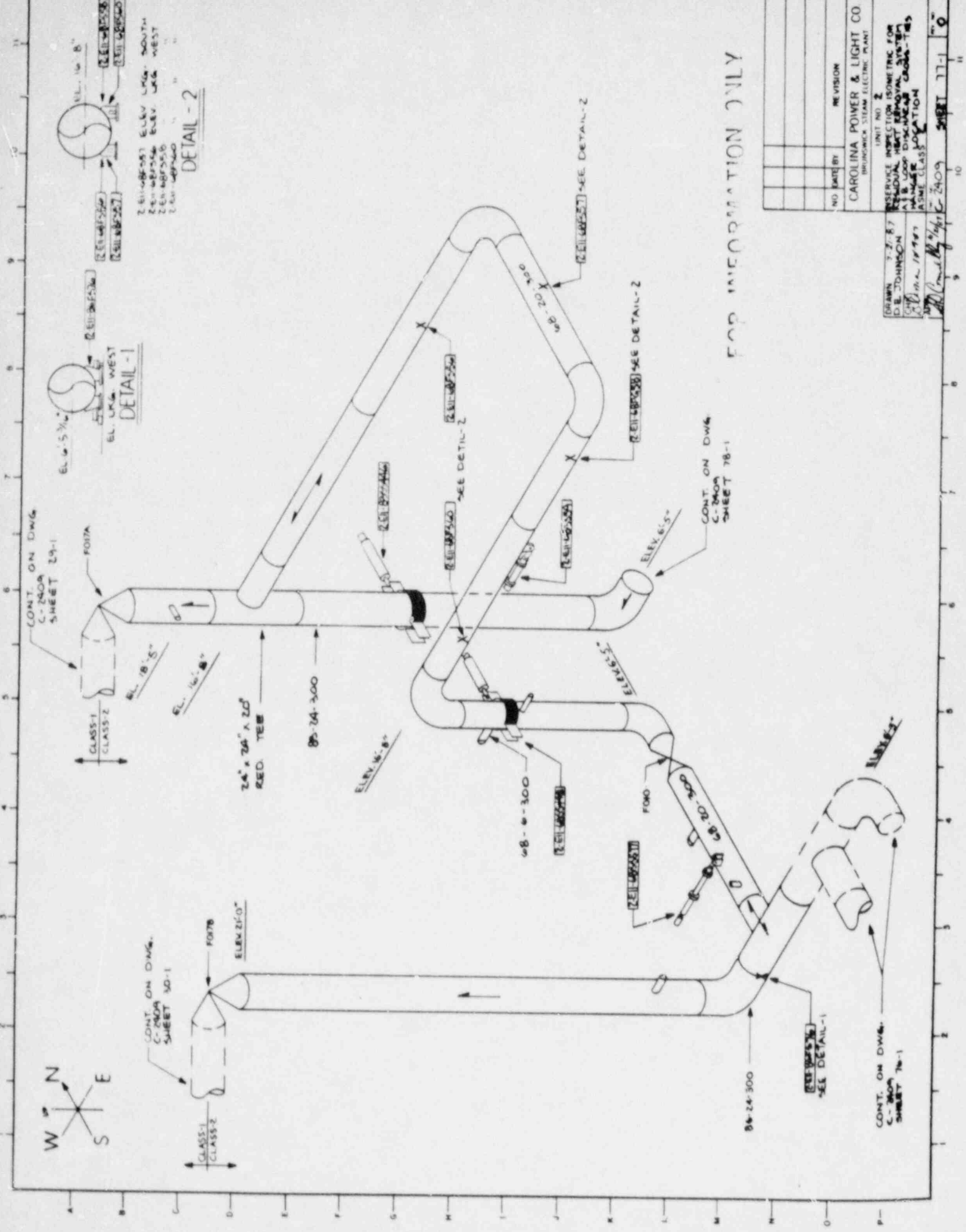
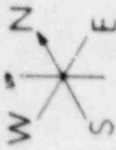
NO.	DATE BY	REVISION

CAROLINA POWER & LIGHT CO.
MEMPHIS STATION ELECTRIC POINT

UNIT NO. 2

DESIGNED BY: SERVICE ENGINEER
CHECKED BY: J. E. JOHNSON
DATE: 12/15/67
SCALE: CLASS II

SHEET 24 OF 24



DETAIL - 2

DETAIL - 1

FOR INFORMATION ONLY

NO.	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO
 BRUNNICK STEAM ELECTRIC PLANT
 UNIT NO. 2
 RESERVE INSPECTION ISOMETRIC FOR
 RESIDUAL HEAT REMOVAL SYSTEM
 AT B LOOP DISCHARGE CROSS-TIE
 10/11/1997
 ASME CLASSIFICATION
 C-2409
 SHEET 77-1

DRAWN: J. J. JOHNSON
 CHECKED: J. J. JOHNSON
 DATE: 10/11/1997
 PROJECT: C-2409
 SHEET: 77-1



SEE DETAIL-2
[E-EI-79P529]

ELEV. 6'-0"

ELEV. 8'-1"

ELEV. 7'-1"

ELEV. 2'-4"

[E-EI-79P531] SEE DETAIL-B

PENT. X-210A
AZIM. 148°

CONT. ON DWG.
C-2409
SHEET 78-1

[E-EI-79P50A] SEE DETAIL-1

[E-EI-79P50B] SEE DETAIL-1

[E-EI-79P50C] SEE DETAIL-1

[E-EI-79P50D] SEE DETAIL-1

[E-EI-79P50E] SEE DETAIL-1

[E-EI-79P50F] SEE DETAIL-1

[E-EI-79P50G] SEE DETAIL-1

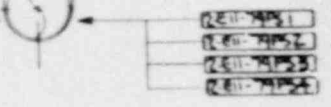
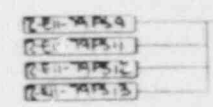
[E-EI-79P50H] SEE DETAIL-1

22°-30' ELB

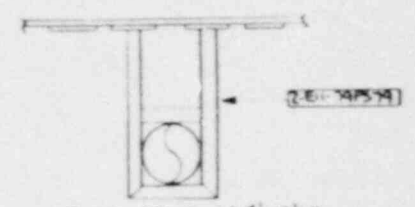
78-16-152

FO24A

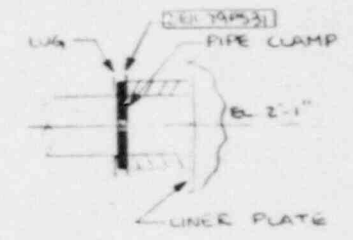
ELEV. 2'-4"



DETAIL-1



PLAN AT EL. (-14'-5 1/2")
DETAIL-2

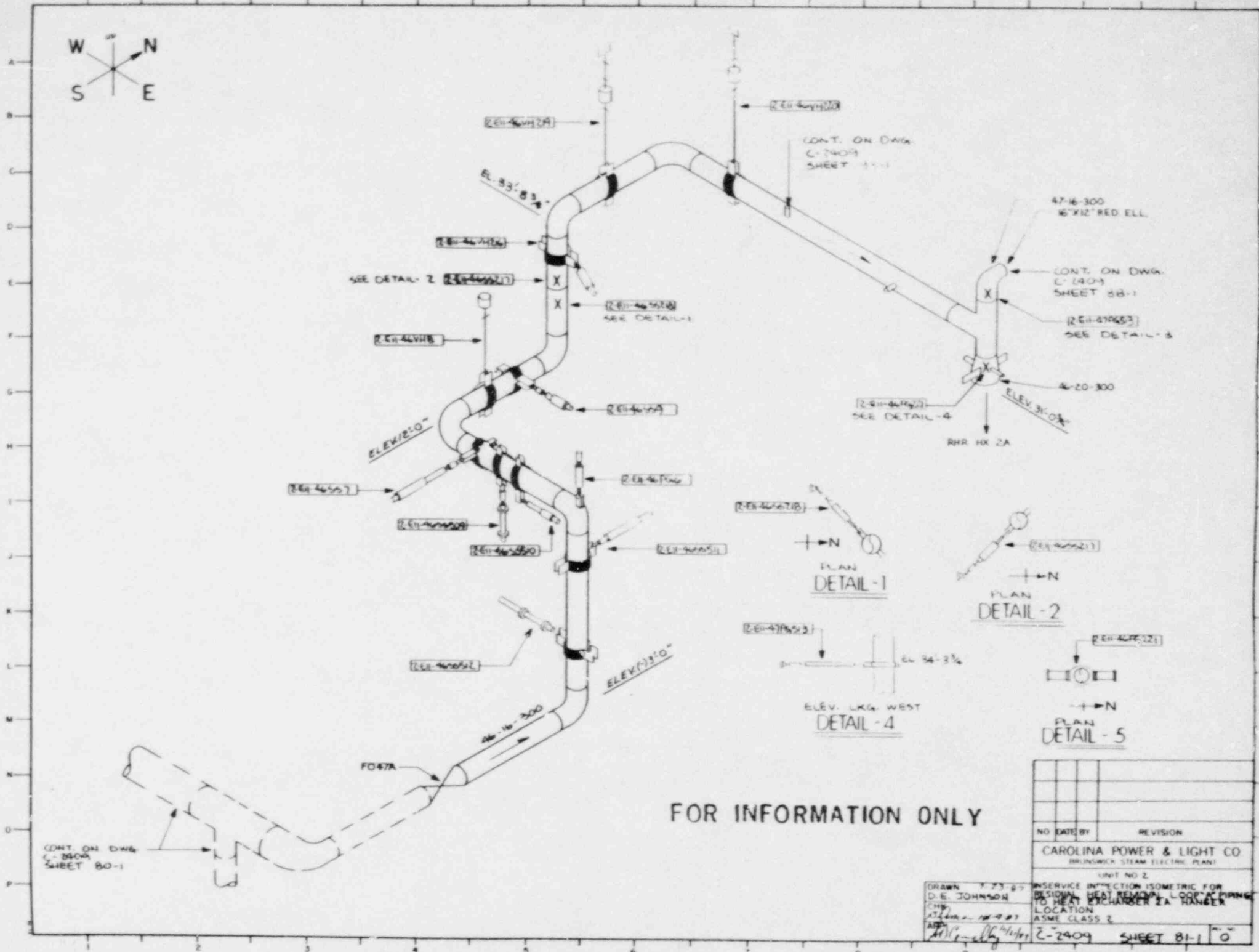


SIDE VIEW
DETAIL-3

FOR INFORMATION ONLY

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO. <small>DUPLICATE STEAM ELECTRIC PLANT</small>			
UNIT NO. 2			
INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL LOOP "A" TEST RETURN LINE SYSTEM HANGER LOCATION			
ASME CLASS 2			
C-2409 SHEET 79-1			

DRAWN
C. E. JOHNSON
CHKD
/ [Signature]
APP
/ [Signature]



CONT. ON DWG.
C-2409
SHEET 31-1

47-16-300
16\"/>

CONT. ON DWG.
C-2409
SHEET 38-1

[Eli-479653]
SEE DETAIL-3

[Eli-479652]
SEE DETAIL-4

RHR IX 2A

PLAN
DETAIL-1

PLAN
DETAIL-2

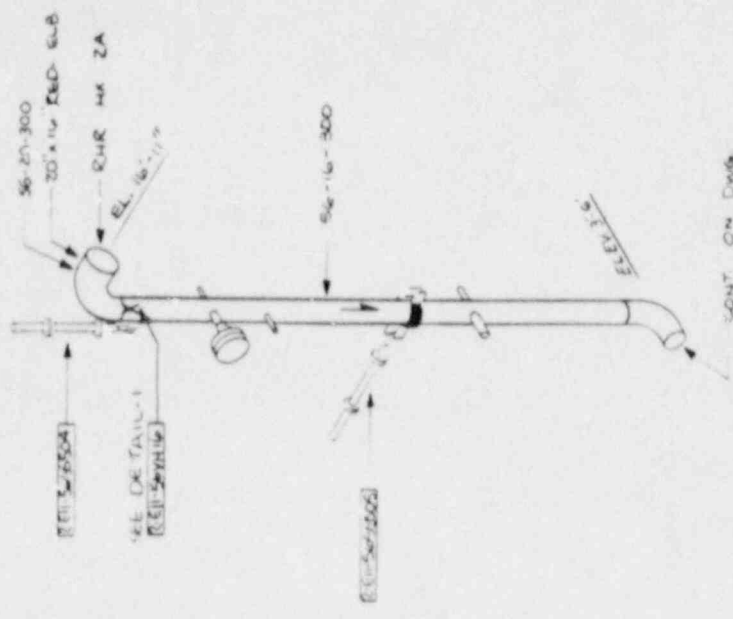
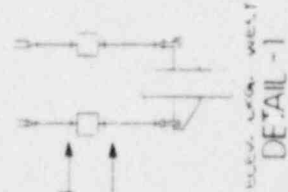
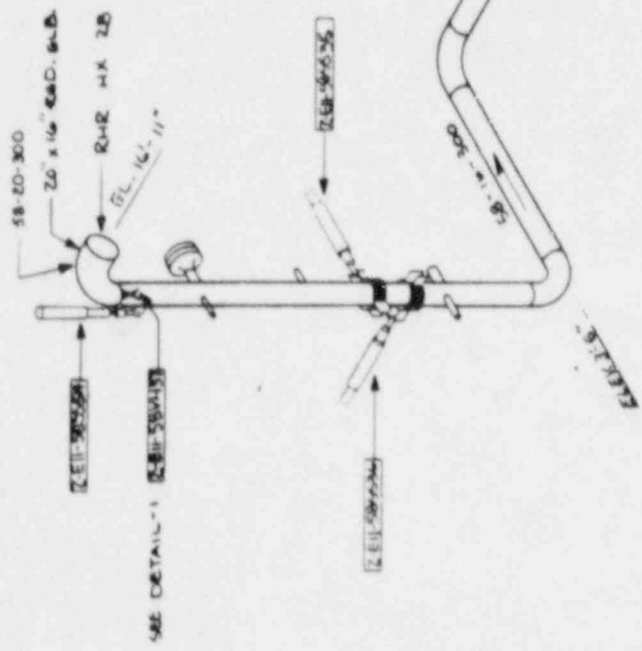
ELEV. LKA WEST
DETAIL-4

PLAN
DETAIL-5

FOR INFORMATION ONLY

CONT. ON DWG.
C-2509
SHEET 80-1

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO. BRUNSWICK STEAM-ELECTRIC PLANT			
UNIT NO. 2			
INSERVICE INTENTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL LOOP A PIPING TO HEAT EXCHANGER 2A HANGER			
LOCATION ASME CLASS 2			
DRAWN	7-23-87	C-2409 SHEET 81-1	
CHKD	D.E. JOHNSON	0	
DATE	12-18-87		
APP	[Signature]		



CONT. ON DWG
C-2403
SHEET 52-1

FOR INFORMATION ONLY

NO.	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO
INDUSTRIAL STEAM SYSTEMS

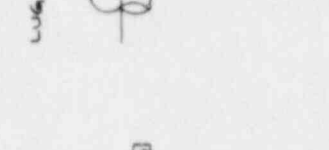
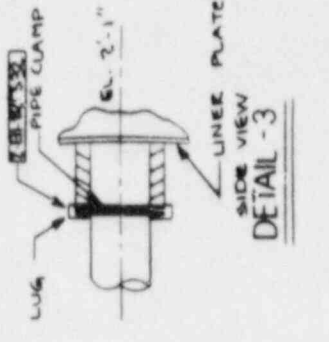
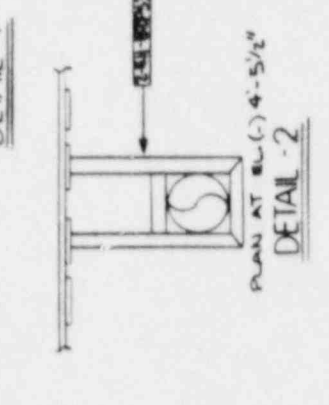
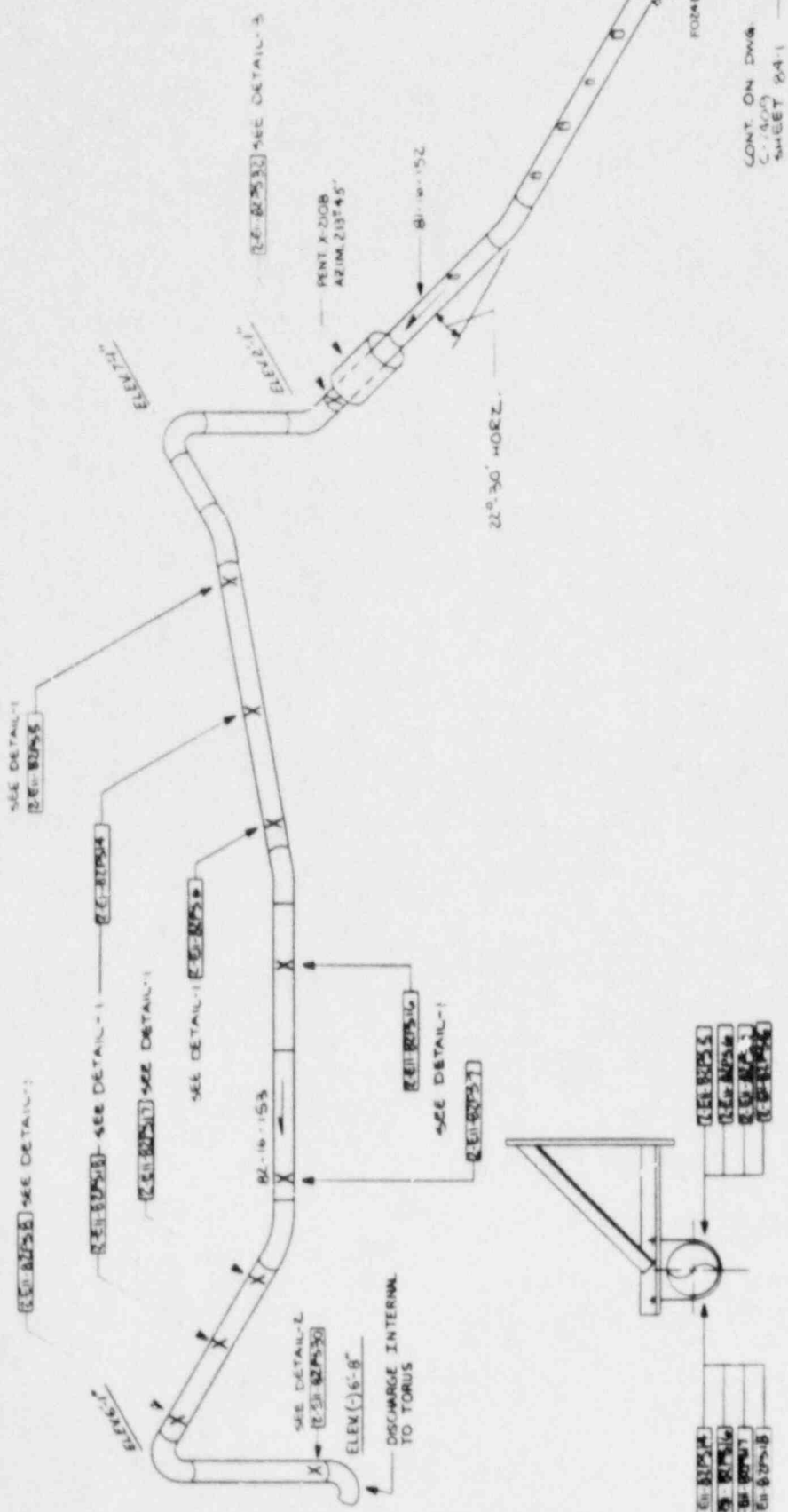
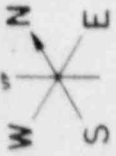
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR
RESIDUAL HEAT REMOVAL SYSTEM - 1
D. E. JOHNSON
B-LOOP PIPING - HANGER LOCATION
ASME CLASS 2
C-2403
SHEET 53-1

CONT. ON DWG
C-2403
SHEET 53-1

ELEV. 130.0
DETAIL -1

A B C D E F G H I J K L M N O P

11 10 9 8 7 6 5 4 3 2 1 0



FOR INFORMATION ONLY

NO.	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO
BROWNSVILLE STEAM ELECTRIC PLANT

UNIT NO. 2
SERVICE INSPECTION ISOMERIE FIRST
DESIGNAL HEAT RECOVERY LOOP & TEST
RETURN LINE HANGER LOCATION

DRAWN 9-27-87
D.E. JOHNSON

CHK
S. J. [Signature]
C-74099

ASME CLASS 3

SHEET 85-1 OF 8

CONT. ON DWG
C-74099
SHEET 84-1



CONT. AT RIGHT

PENT. 439B
AZIM. 220°-42'

TO CONTAINMENT
SPRAY HEADER
CONT. ON DWG
C-2409
SHEET 87-1

SEE DETAIL-1
REF. 2141299

PRIMARY
CONTAINMENT

REF. 2141300

4" x 12" RED

REF. 2141308

ELEV. LKA. WEST
DETAIL-1

EL. 52'-0"

CONT. AT TOP LEFT

EL. 47'-2 1/4"

ELEV. LKA. SOUTH
DETAIL-4

REF. 2141315

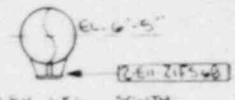
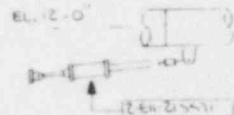
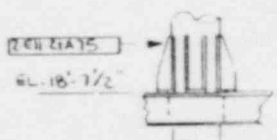
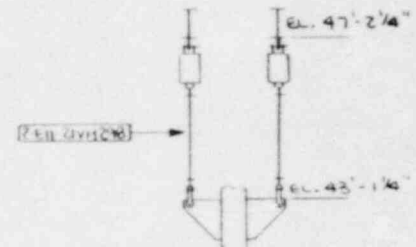
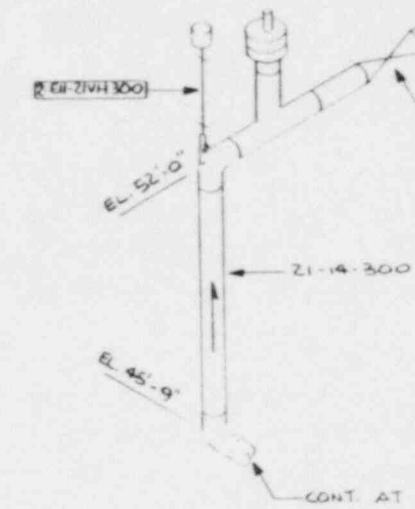
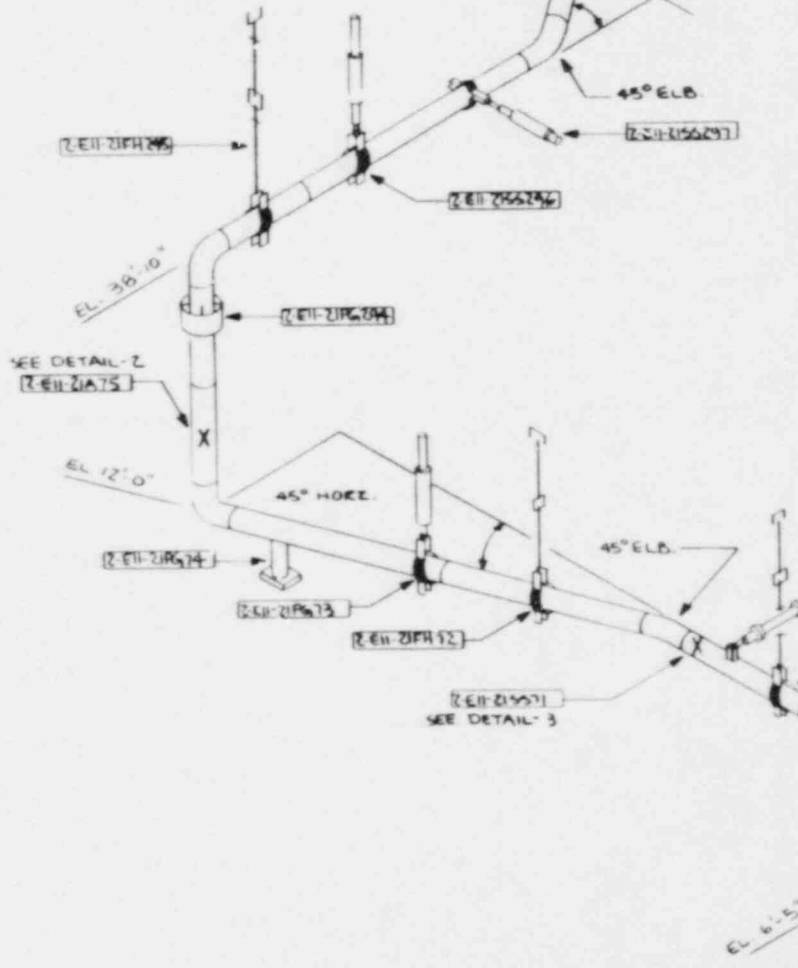
EL. 18'-7 1/2"

ELEV. LKA. WEST
DETAIL-2

EL. 12'-0"

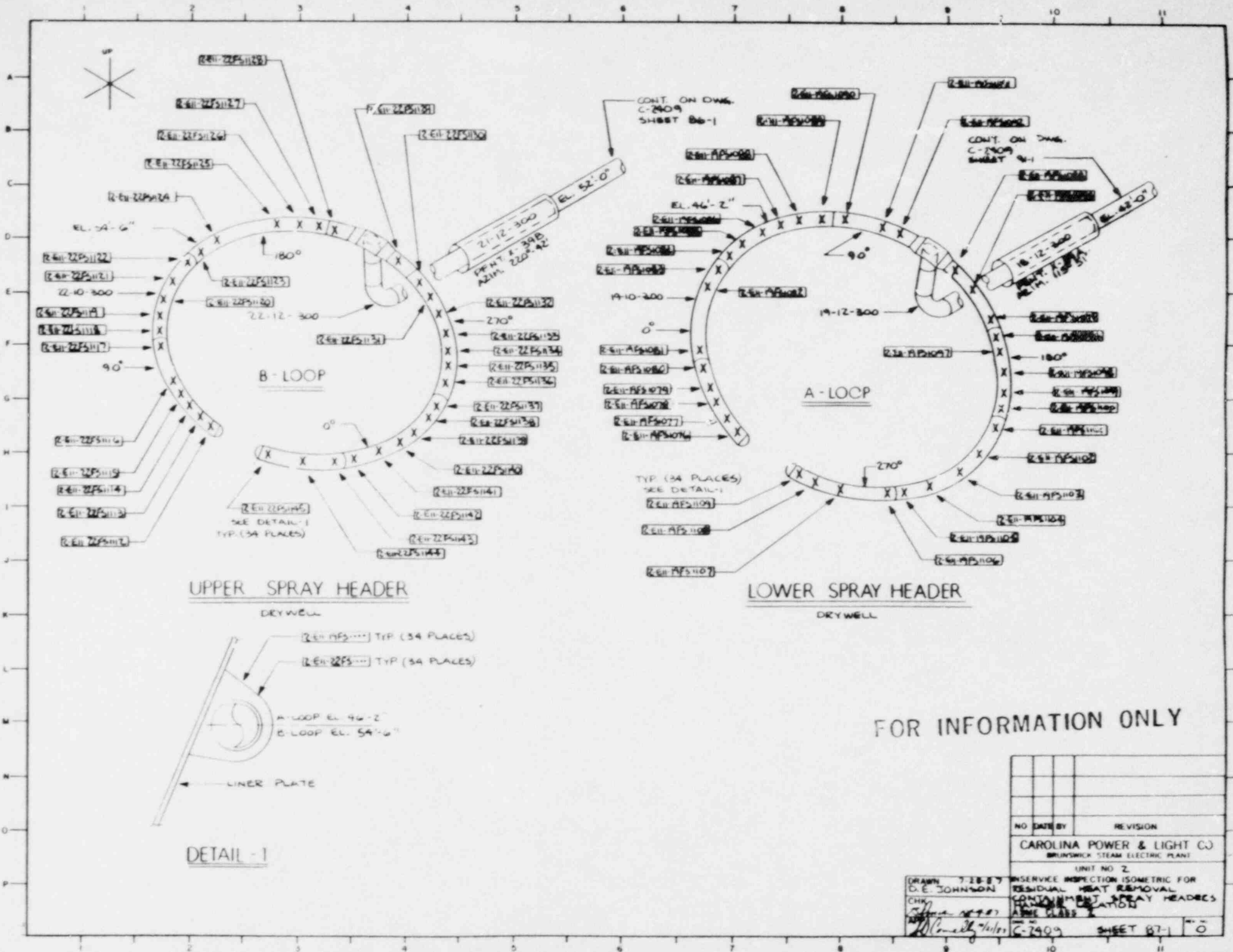
ELEV. LKA. NORTH
DETAIL-3

EL. 6'-5"



FOR INFORMATION ONLY

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO WINDSOR STEAM ELECTRIC PLANT UNIT NO. 2			
INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL B LOOP CONTAINMENT SPRAY LINE OUTSIDE DETUNEL SYSTEM HANGER LOCATION ASME CLASS 2			
DRAWN	T. R. A. J.	C-2409 SHEET 86-1	
CHK	D. E. JOHNSON		
APP			

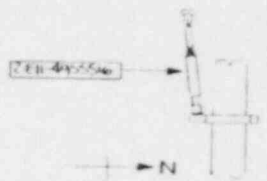
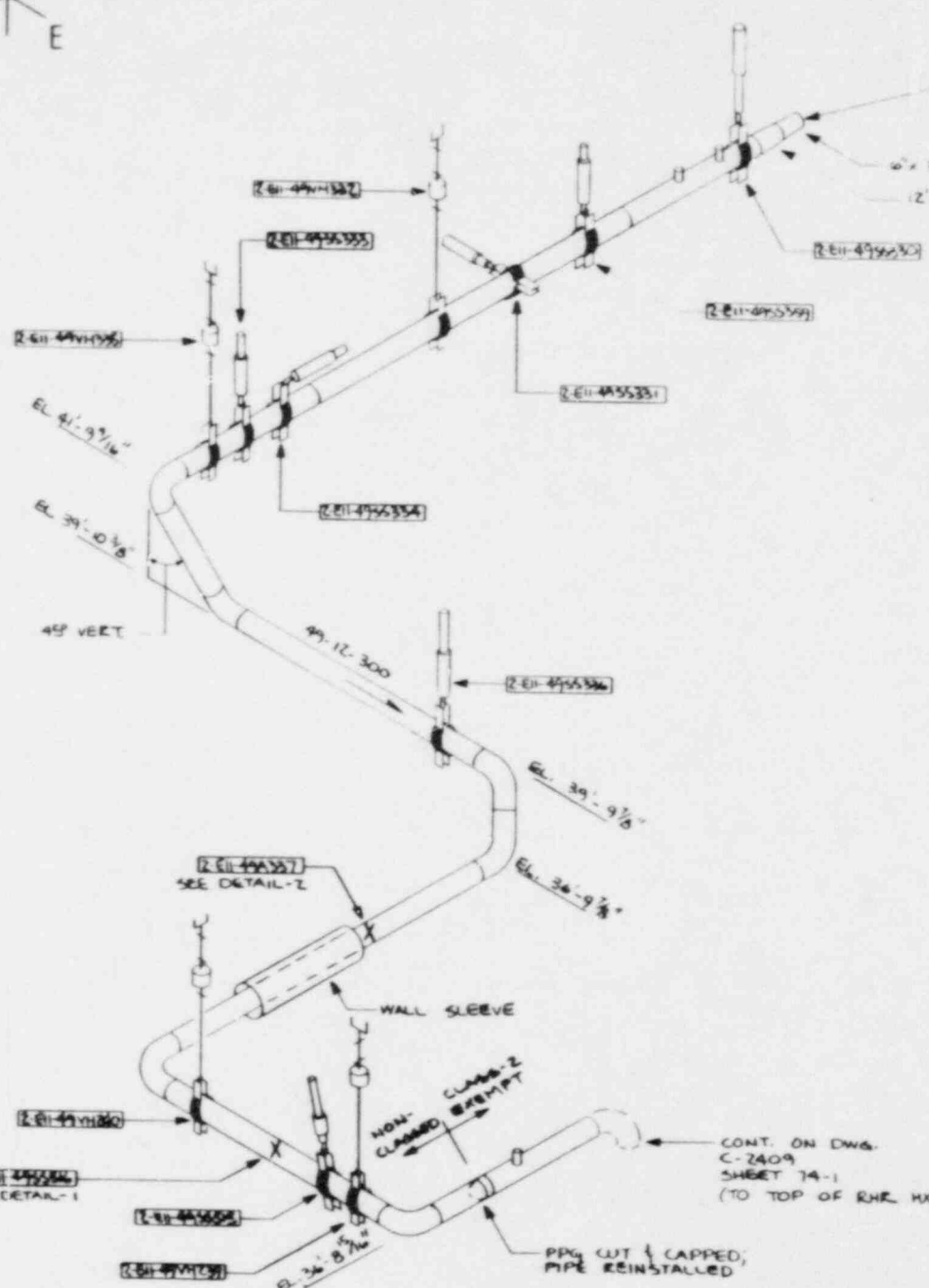




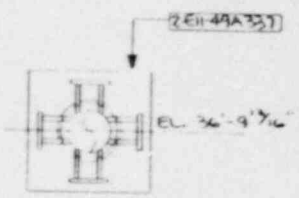
CONT. ON DWG.
C-2409
SHEET 88-1

CONT. ON DWG.
C-2409
SHEET 80-1

6" x 3" RED.
12" x 6" RED.



PLAN
DETAIL - 1



ELEV. LKA. SOUTH
DETAIL - 2

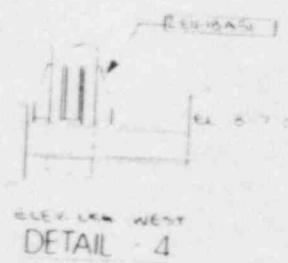
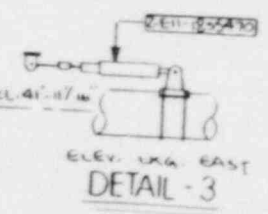
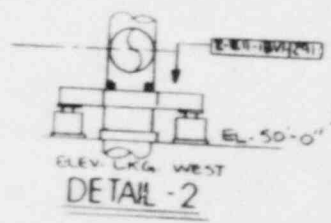
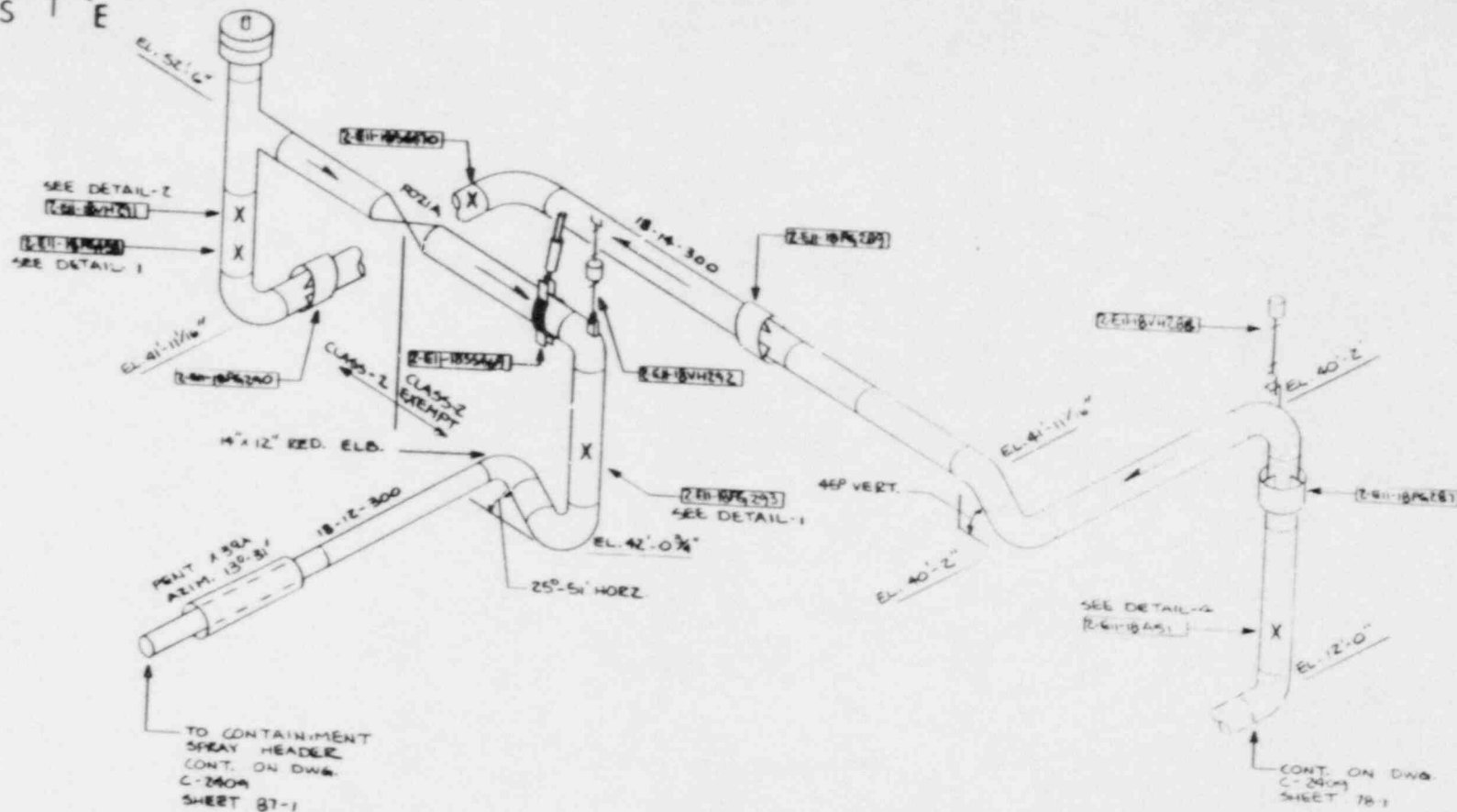
FOR INFORMATION ONLY

CONT. ON DWG.
C-2409
SHEET 74-1
(TO TOP OF RHR. HX)

PPG CUT & CAPPED;
PIPE REINSTALLED

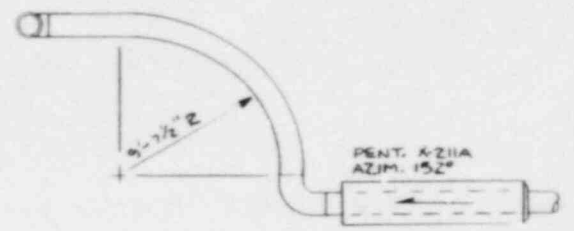
NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO BRUNSWICK STEAM ELECTRIC PLANT UNIT NO. 2			
SERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL & LOAD STEAM CONDENSING MODE SYSTEM HANGER LOCATION ASME CLASS 2			
C-2409 SHEET 89-1			10

DESIGN: J.S. B. J.
D.R. JOHNSON
CHK: [Signature]
DATE: 12/9/87
APP: [Signature]

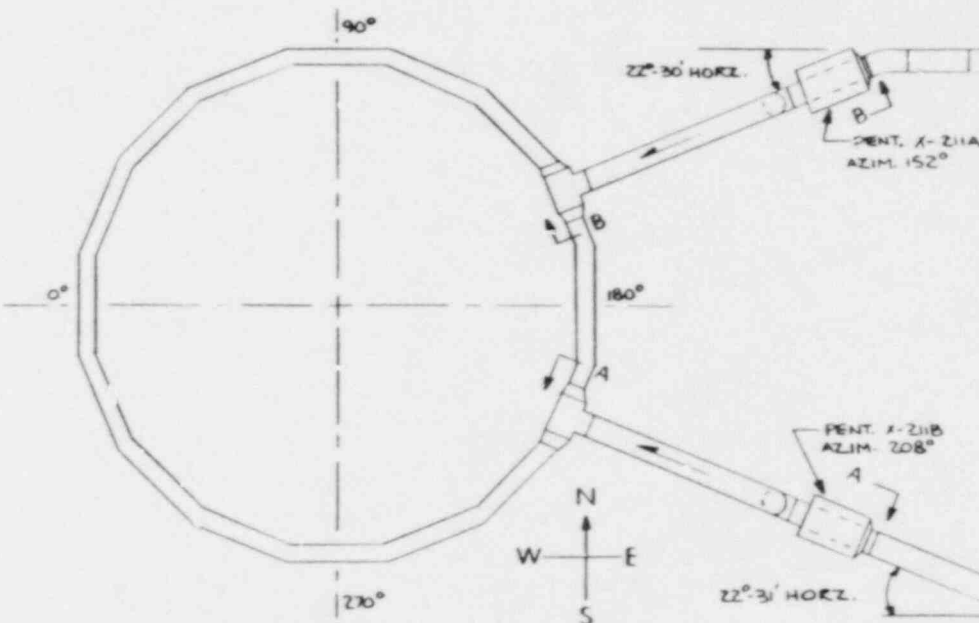


FOR INFORMATION ONLY

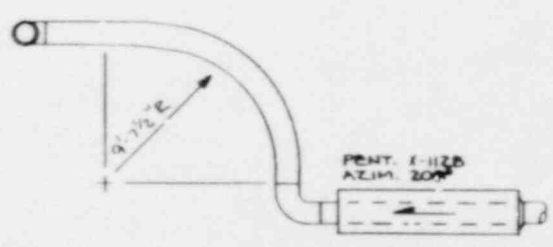
NO.	DATE BY	REVISION
CAROLINA POWER & LIGHT CO WINDYBROOK STEAM ELECTRIC PLANT		
UNIT NO. 2		
DRAWN	D.E. JOHNSON	INSERVICE INSPECTION ISOMETRIC FOR RESIDUAL HEAT REMOVAL "A" LOOP CONTAINMENT SPRAY LINE OUTSIDE EXWELL SYSTEM MANAGE LOCATION ASME C-2409 SHEET 91-1
CHKD		
APP'D		
C-2409 SHEET 91-1		10



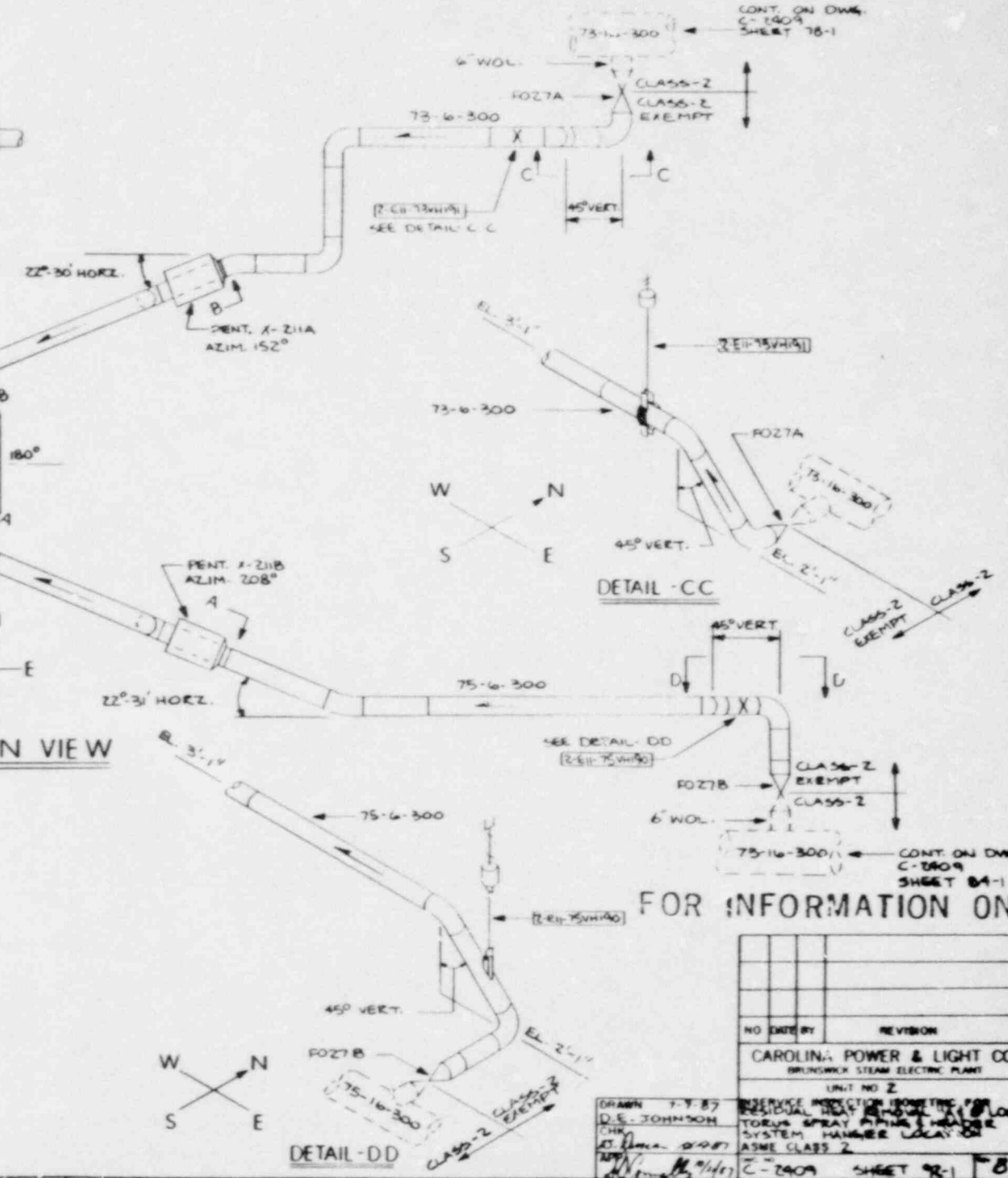
DETAIL-BB



PLAN VIEW



DETAIL-AA



CONT. ON DWG. C-2809 SHEET 7B-1

CONT. ON DWG. C-2809 SHEET 8A-1

FOR INFORMATION ONLY

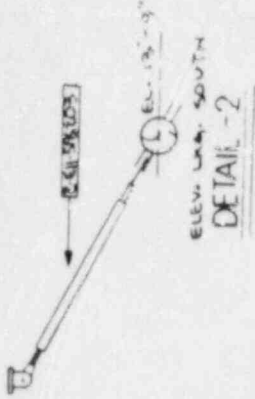
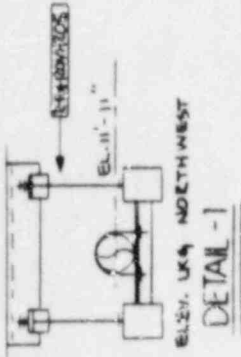
NO.	DATE	REVISION

CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO 2

DRAWN T.F. 87
D.E. JOHNSON
CHK
C-2809 SHEET 7B-1

SERVICE INSPECTION MONITORING FOR
TORUS SPRAY PIPING & HEADER
SYSTEM HANGER LOCATION
ASME CLASS 2

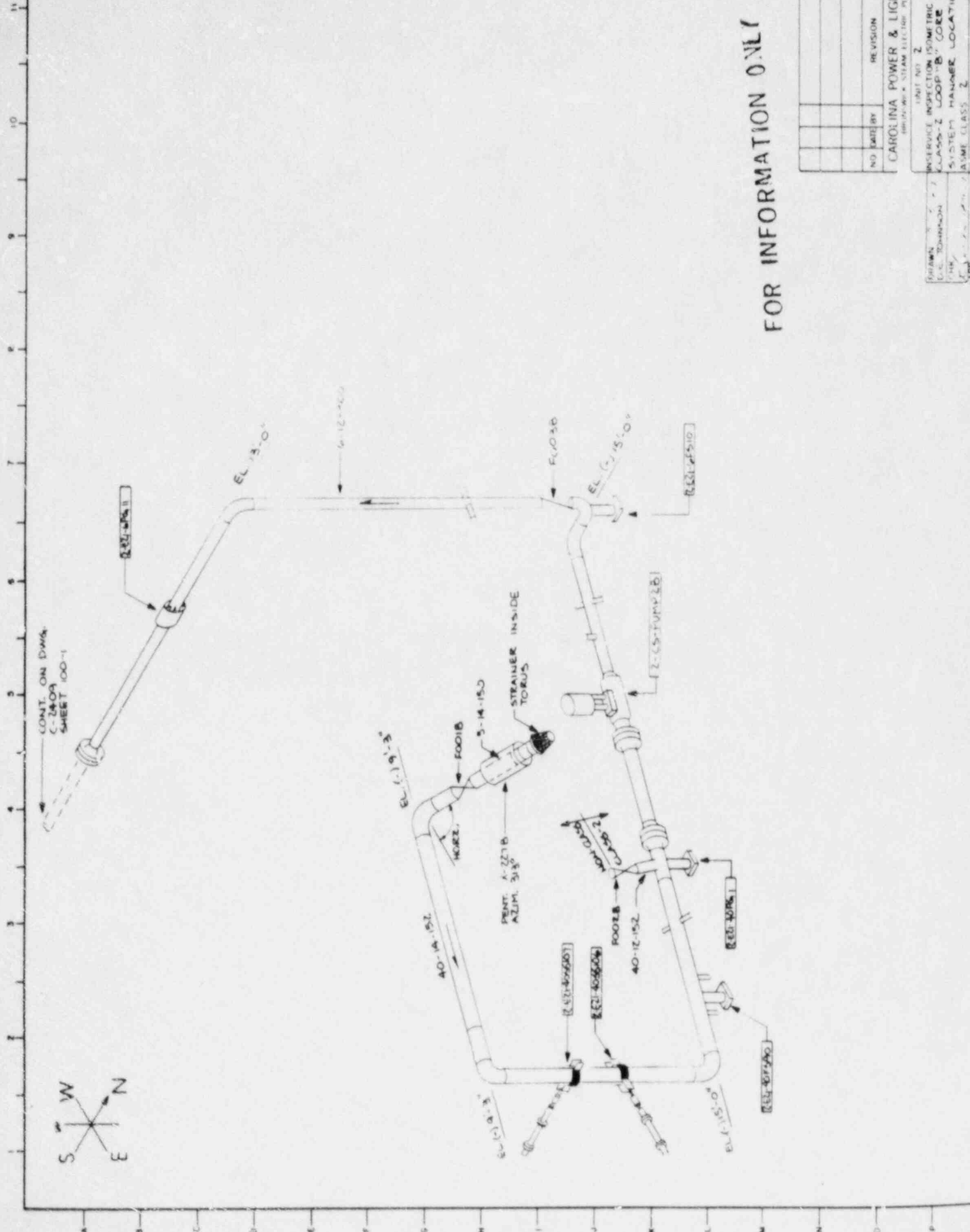
C-2809 SHEET 7B-1



FOR INFORMATION ONLY

NO.	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO.
 DRYUMBER STEAM ELECTRIC PLANT
 UNIT NO. 2
 SERVICE INSPECTION ISOMETRIC FOR
 RESIDUAL VALVE ROOM, A LOOP FOR
 VALVE FOSSA UNCHARGE PIPING,
 HEADLINE (A) SYSTEM HANGER LOCATION
 DATE: 10/16/87
 DRAWN BY: J. S. B. / C-2409
 CHECKED BY: J. S. B. / C-2409
 SHEET 04 OF 0



CONT. ON DWG.
C-2409
SHEET 100-1

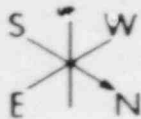


FOR INFORMATION ONLY

NO.	DATE BY	REVISION

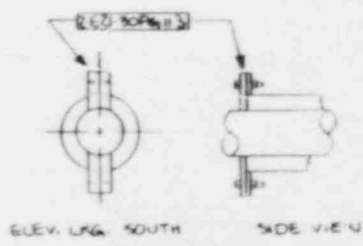
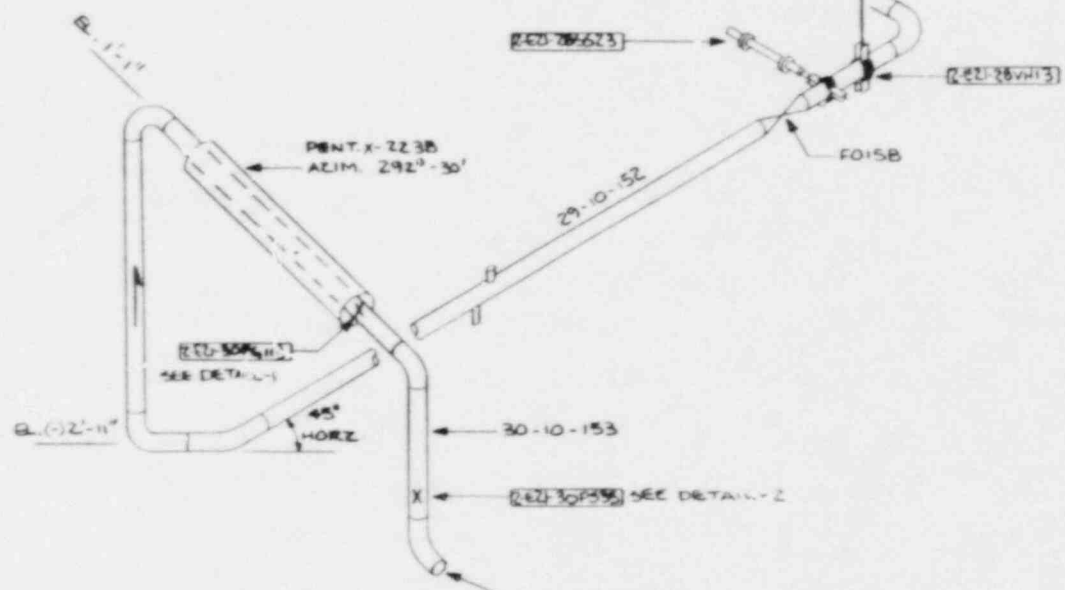
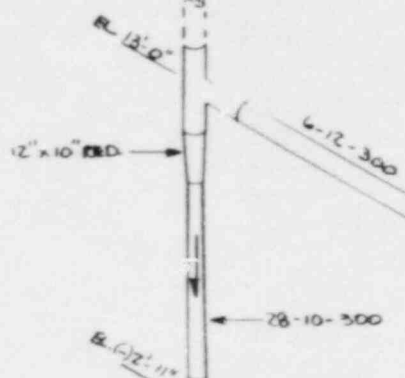
CAROLINA POWER & LIGHT CO
STEAM ELECTRIC PLANT

PROJECT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR
CLASS-2 LOOP-B CORE SPRAY
SYSTEM MANAGER LOCATION
SAME CLASS 2
C-2409 SHEET 100-1

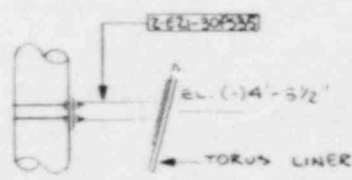


CONT. ON DWG
C-2409
SHEET 101-1

CONT. ON DWG
C-2409
SHEET 97-1



DETAIL-1



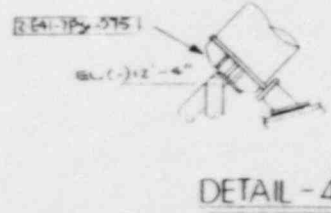
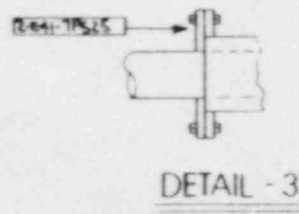
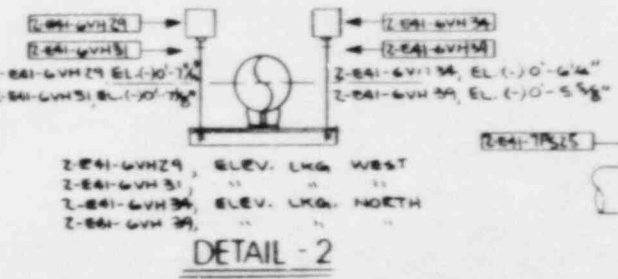
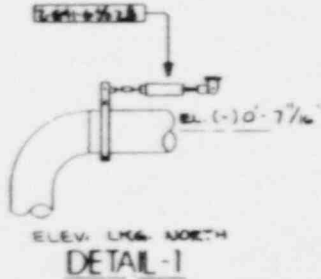
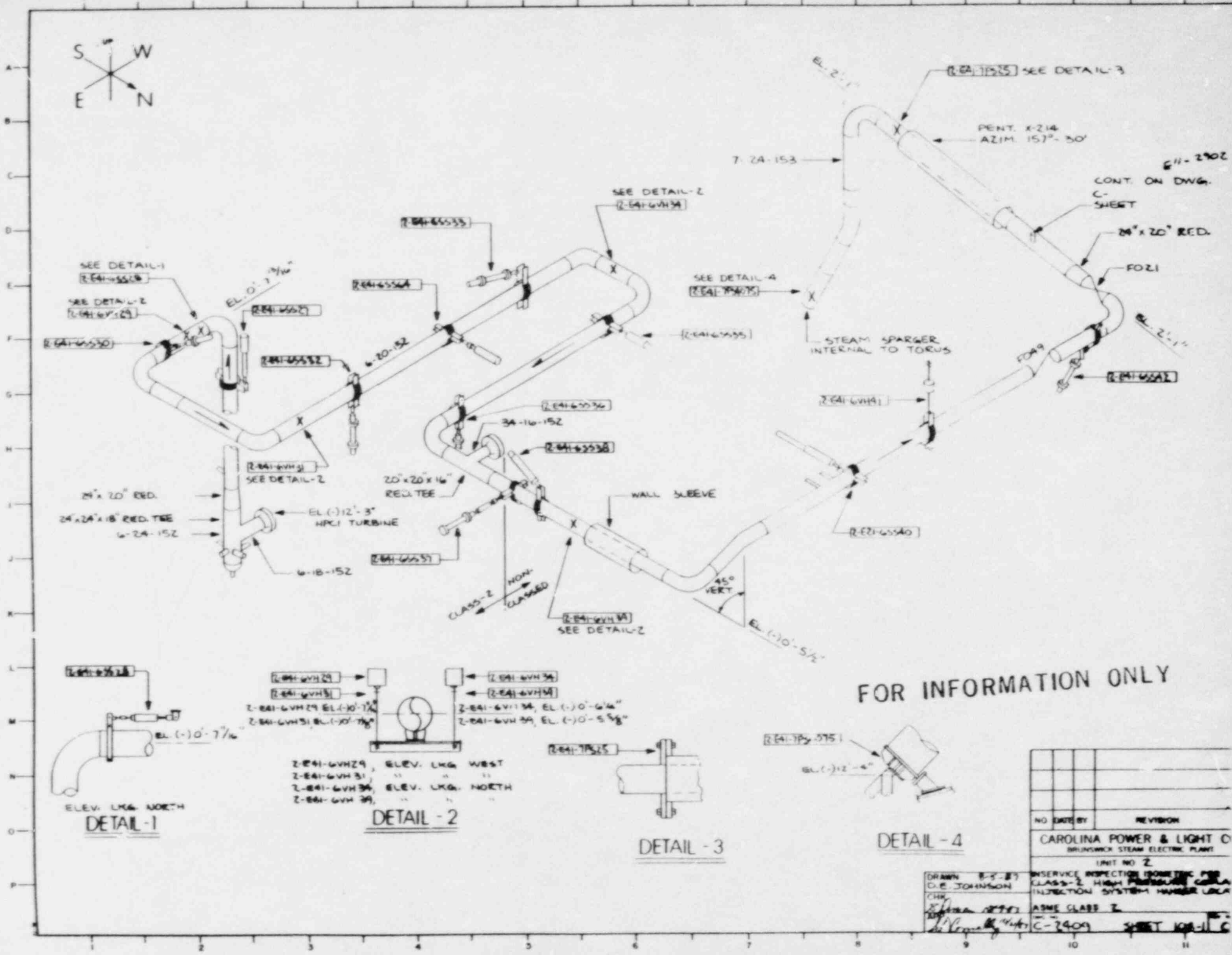
DETAIL-2

FOR INFORMATION ONLY

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO BRUNSWICK STEAM ELECTRIC PLANT			
UNIT NO. 2			
INSERVICE INSPECTION ISOMETRIC FOR CLASS-2 LOOP "B" CORE SPRAY SYSTEM MANAGER LOCATION ASME CLASS 2			
DRAWN D.E. JOHNSON		C-2409 SHEET 100-1	
APP [Signature]		0	

DRAWN
D.E. JOHNSON
APP
[Signature]

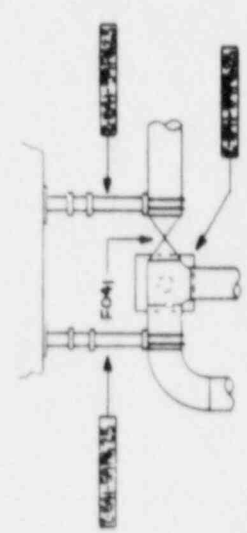
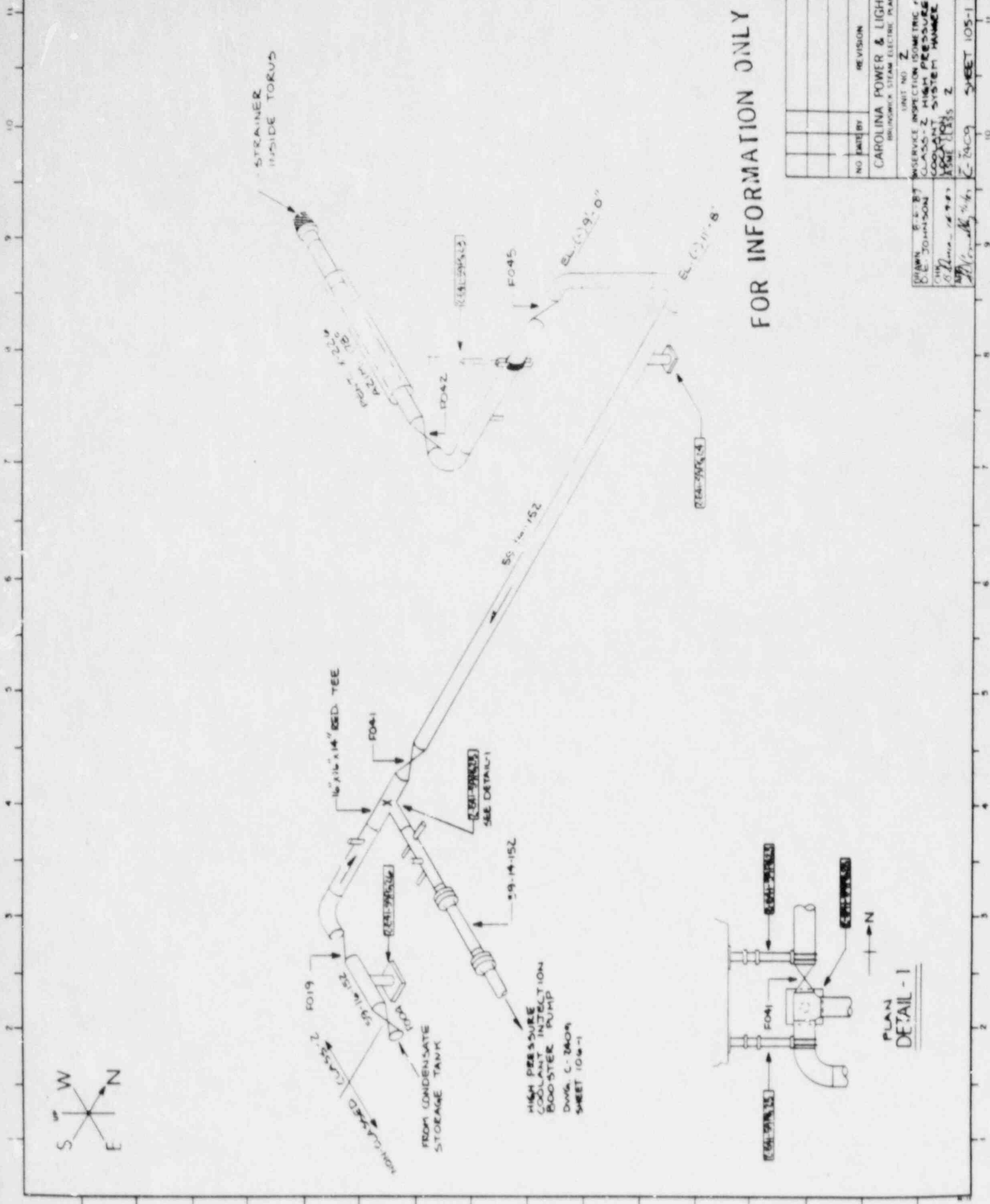
INSERVICE INSPECTION ISOMETRIC FOR
CLASS-2 LOOP "B" CORE SPRAY
SYSTEM MANAGER LOCATION
ASME CLASS 2
C-2409 SHEET 100-1



FOR INFORMATION ONLY

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO BRUNSWICK STEAM ELECTRIC PLANT UNIT NO. 2			
INSERVICE INSPECTOR (SIGNATURE) FOR CLASS-2 HIGH PRESSURE CORRA INJECTION SYSTEM NUMBER LICA			
ASME CLASS 2			
C-2409 SHEET 10A-1 C			

DRAWN: E.S. 87
 C.E. JOHNSON
 CHECKED: [Signature]
 DATE: 11/14/74
 SHEET 10A-1 C



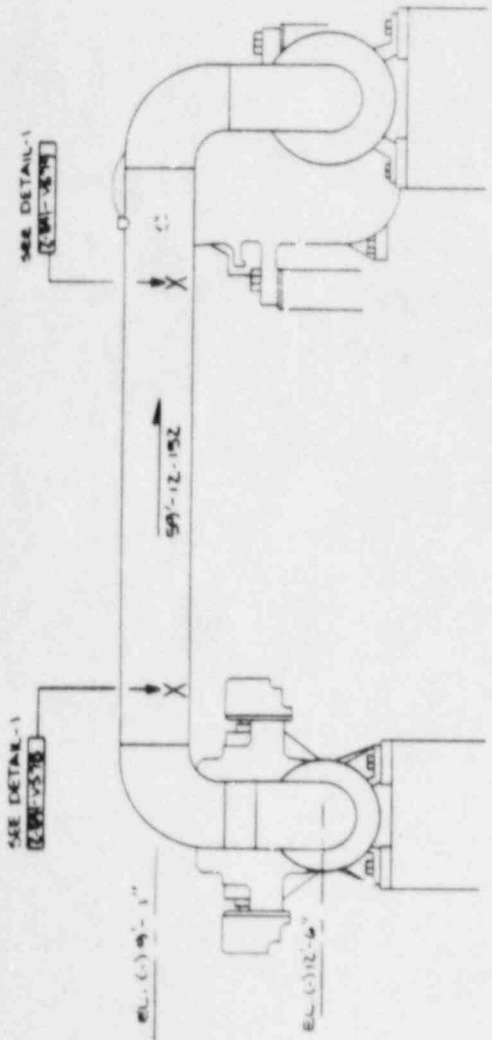
FOR INFORMATION ONLY

NO.	DATE BY	REVISION

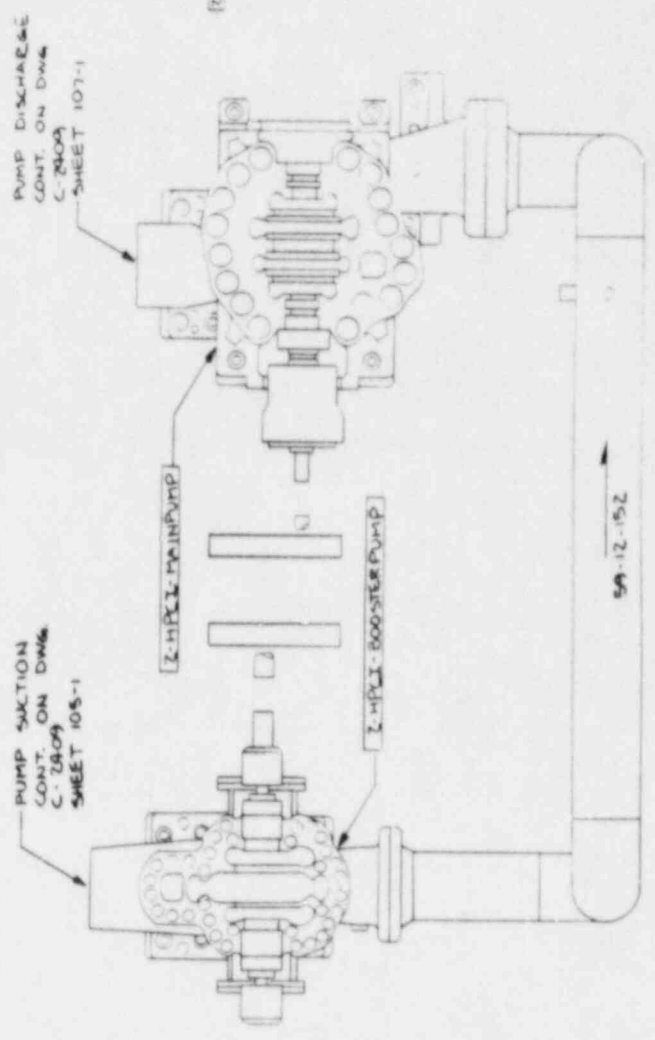
UNIT NO. 2
 CAROLINA POWER & LIGHT CO.
 BRUNNICK STEAM ELECTRIC PLANT

DRAWN BY: D.E. JOHNSON
 CHECKED BY: J.P. ...
 DATE: 10/22/55
 PROJECT: ...
 SHEET 105-1 OF 10

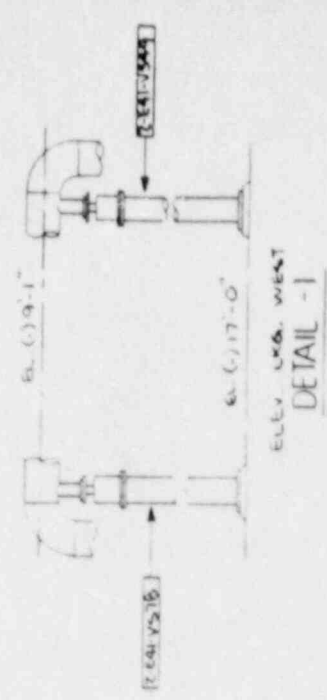
PLAN
 DETAIL - 1



ELEVATION VIEW



PLAN VIEW



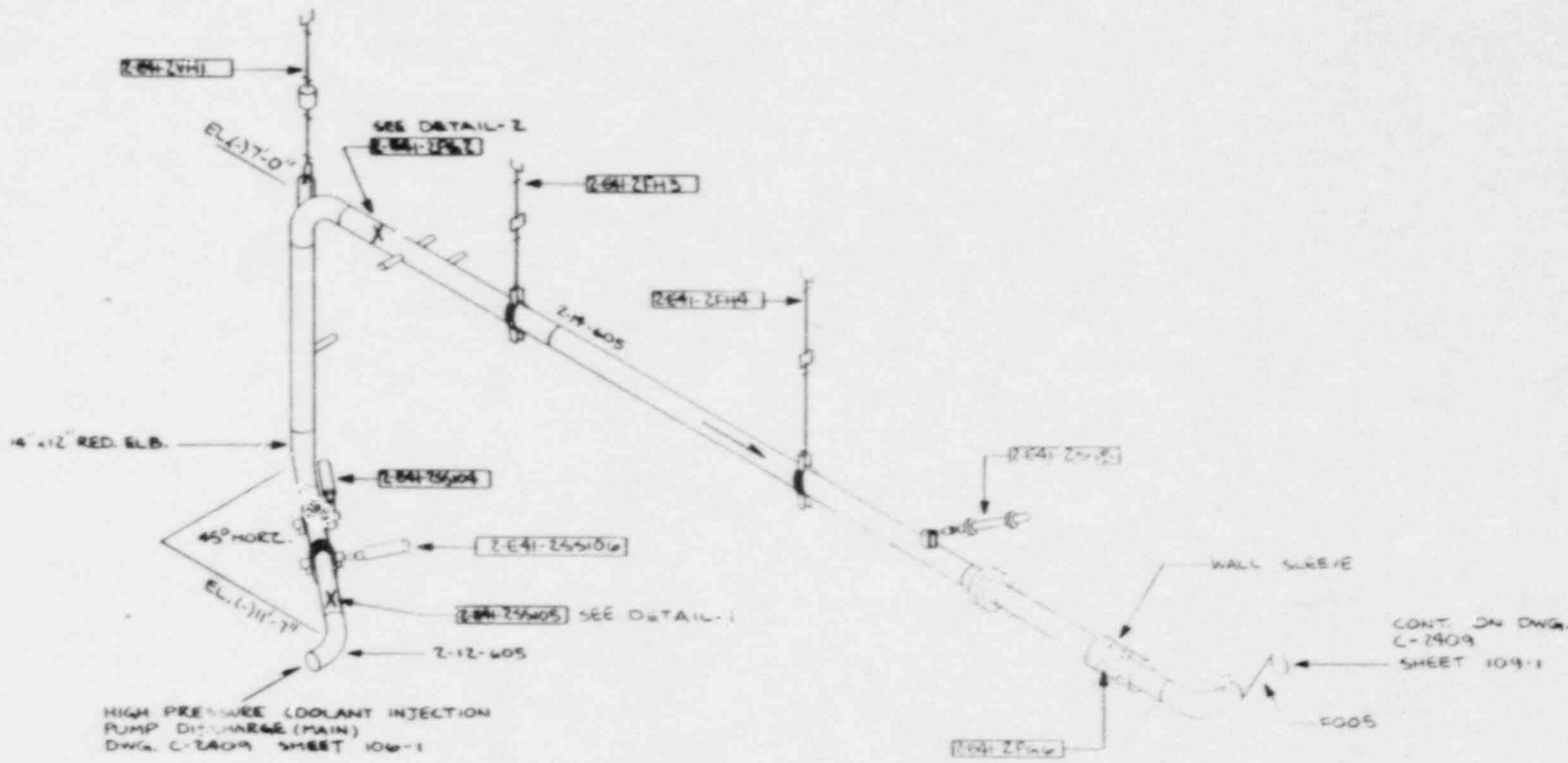
FOR INFORMATION ONLY

NO.	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO.
BRUNSWICK STEAM ELECTRIC PLANT

UNIT NO. 2
RESERVE POSITION ISOMETRIC FOR
P.L. BOOSTER TO MAIN PUMP
P.L. SYSTEM HANDLE LOCATION
ASME CLASS 2

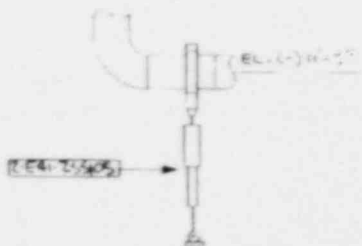
DESIGNED BY
D.E. JOHNSON
CHECKED BY
M.P. JOHNSON
DATE
C-2809



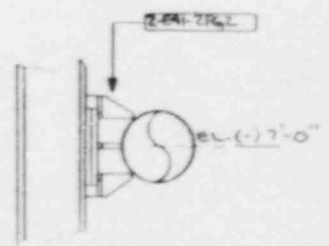
HIGH PRESSURE COOLANT INJECTION
PUMP DISCHARGE (MAIN)
DWG. C-2409 SHEET 107-1

CONT. ON DWG.
C-2409
SHEET 107-1

FOR INFORMATION ONLY

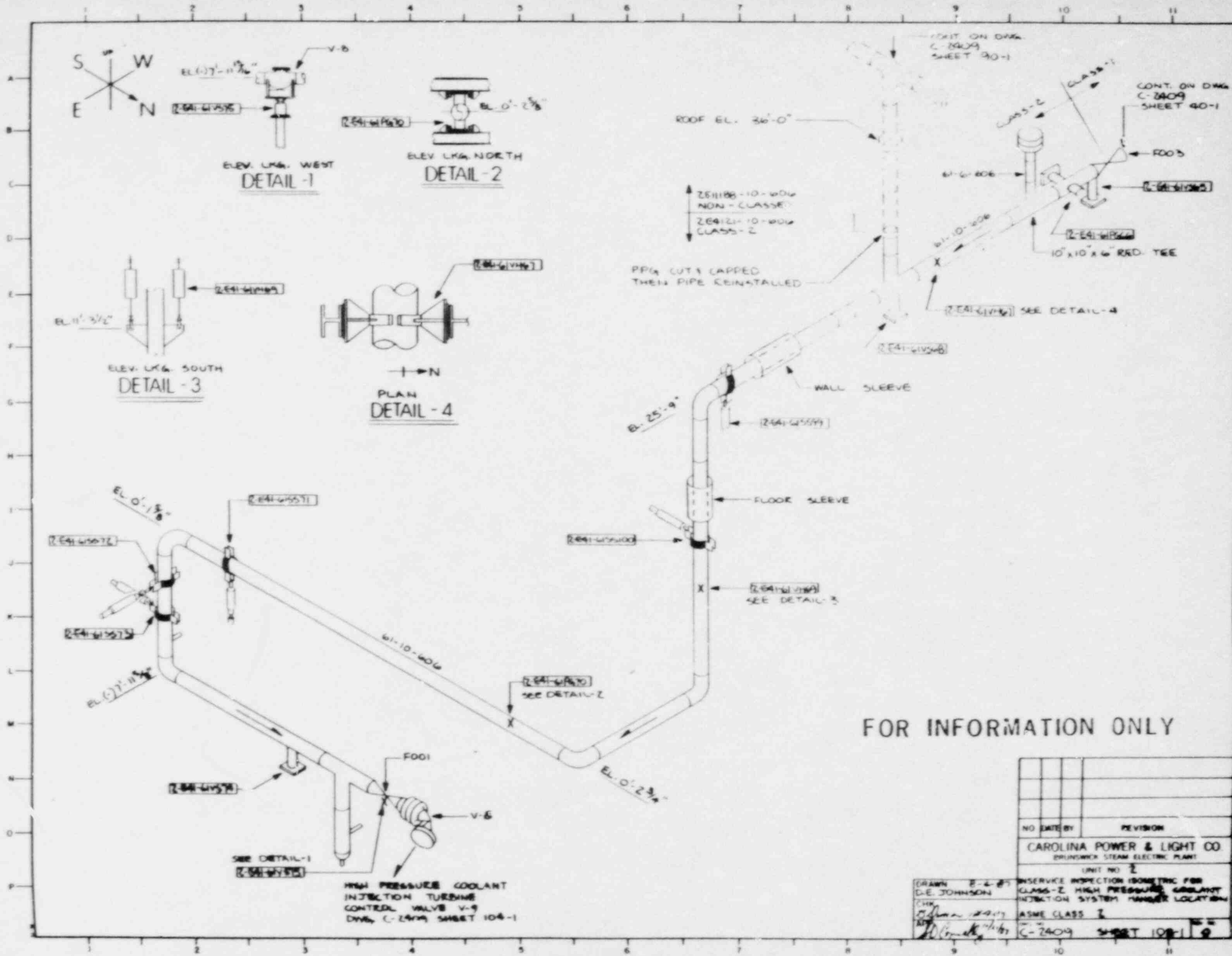


ELEV. LEG. NORTHWEST
DETAIL - 1



ELEV. LEG. NORTH
DETAIL - 2

NO.	DATE BY	REVISION
CAROLINA POWER & LIGHT CO. DUROWICK STEAM ELECTRIC PLANT		
UNIT NO. 2		
DRAWN BY		INSERVICE INSPECTION ISOMETRIC FOR
		CLASS-Z HIGH PRESSURE COOLANT
		INJECTION SYSTEM HANGER LOCATION
		ASME CLASS Z
		C-2409 SHEET 107-1



FOR INFORMATION ONLY

NO.	DATE	BY	REVISION

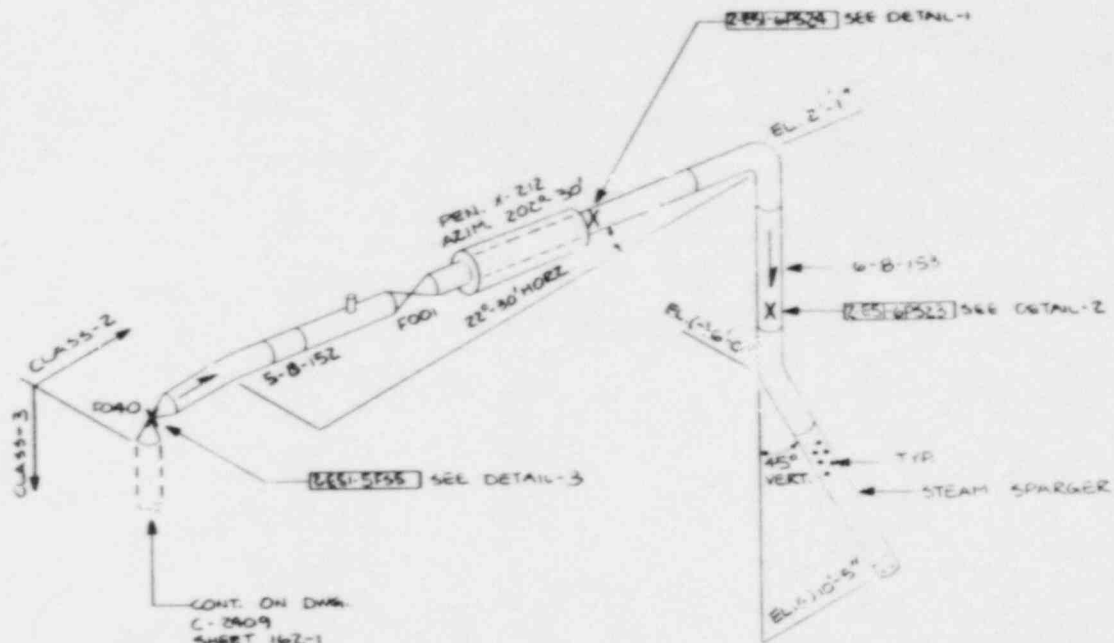
CAROLINA POWER & LIGHT CO.
DRUMWICK STEAM ELECTRIC PLANT
UNIT NO. 2

INSERVICE INSPECTION ISOMETRIC FOR
CLASS-2 HIGH PRESSURE COOLANT
INJECTION SYSTEM TANKER LOCATION

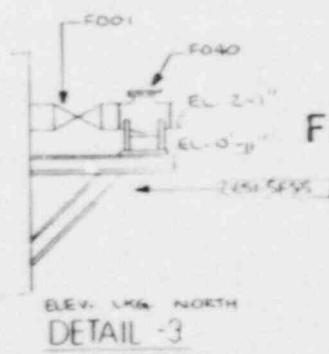
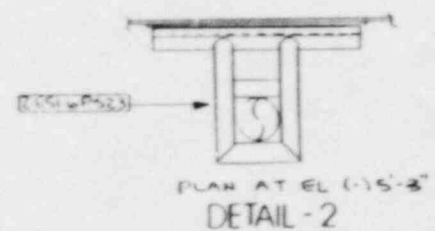
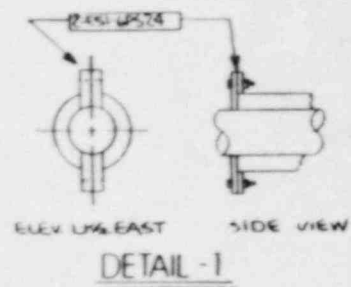
ASME CLASS 2
C-2409 SHEET 104-1

DRAWN 8-2-85
D.E. JOHNSON
CHK
APR 1987
10/1/87

HIGH PRESSURE COOLANT
INJECTION TURBINE
CONTROL VALVE V-9
DWG. C-2409 SHEET 104-1



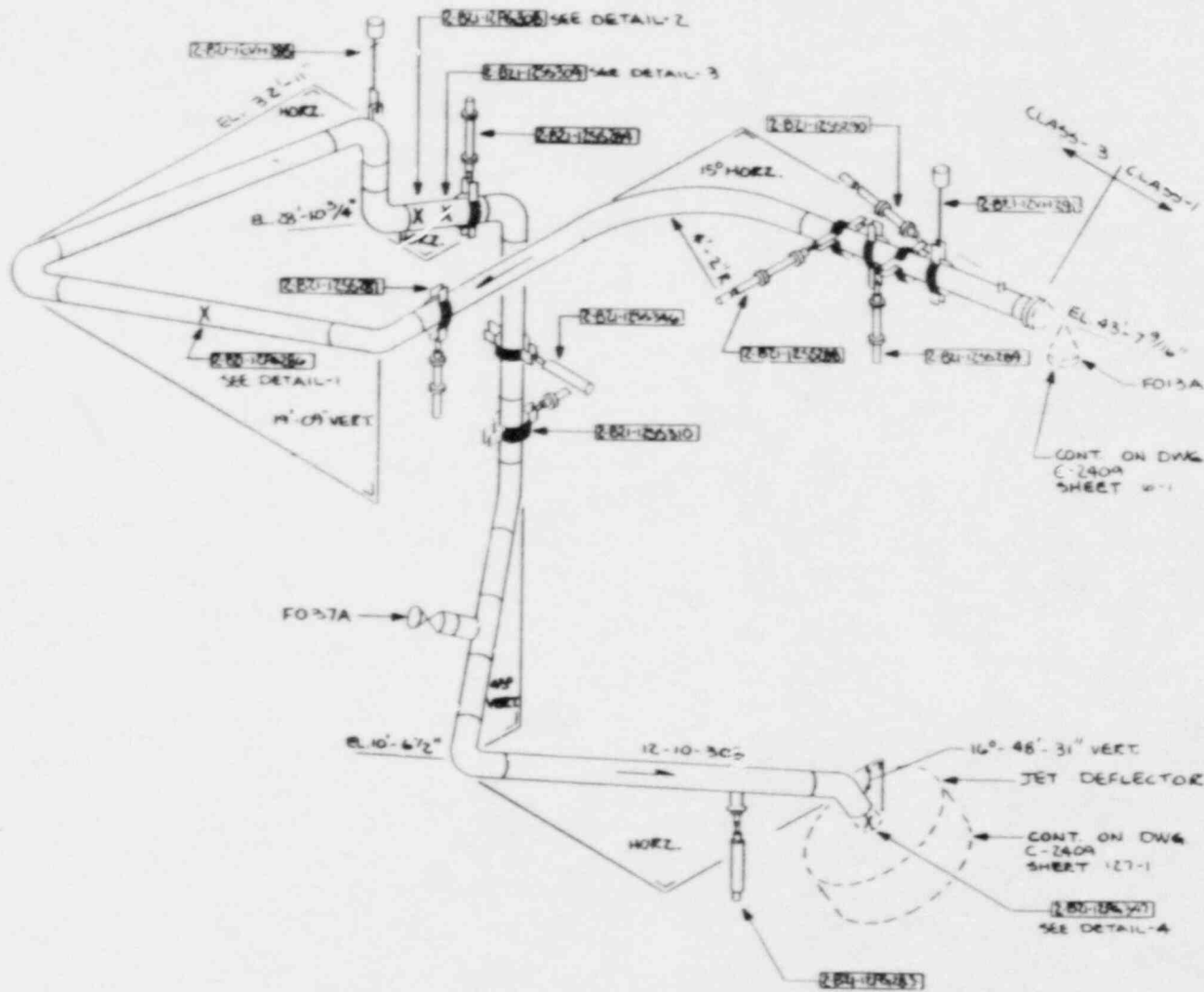
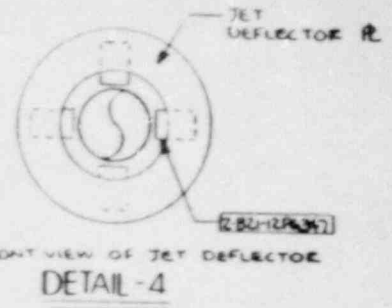
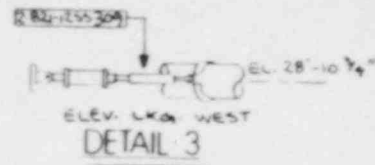
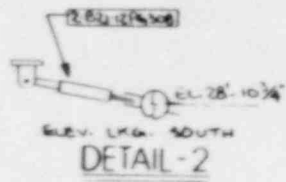
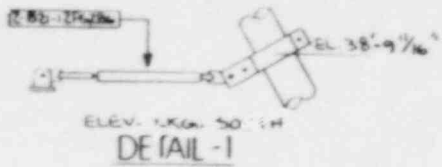
CONT. ON DRAW.
C-2809
SHEET 112-1



FOR INFORMATION ONLY

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO. BRUNSWICK STEAM ELECTRIC PLANT UNIT NO. 2			
RESERVE INSPECTION ISOMETRIC FOR REL. FROM TURBINE EXHAUST TO SUPPRESSION CHAMBER			
DRAWN C.B. JOHNSON	CHECKED [Signature]	DATE 10-9-57	SHEET 112-1

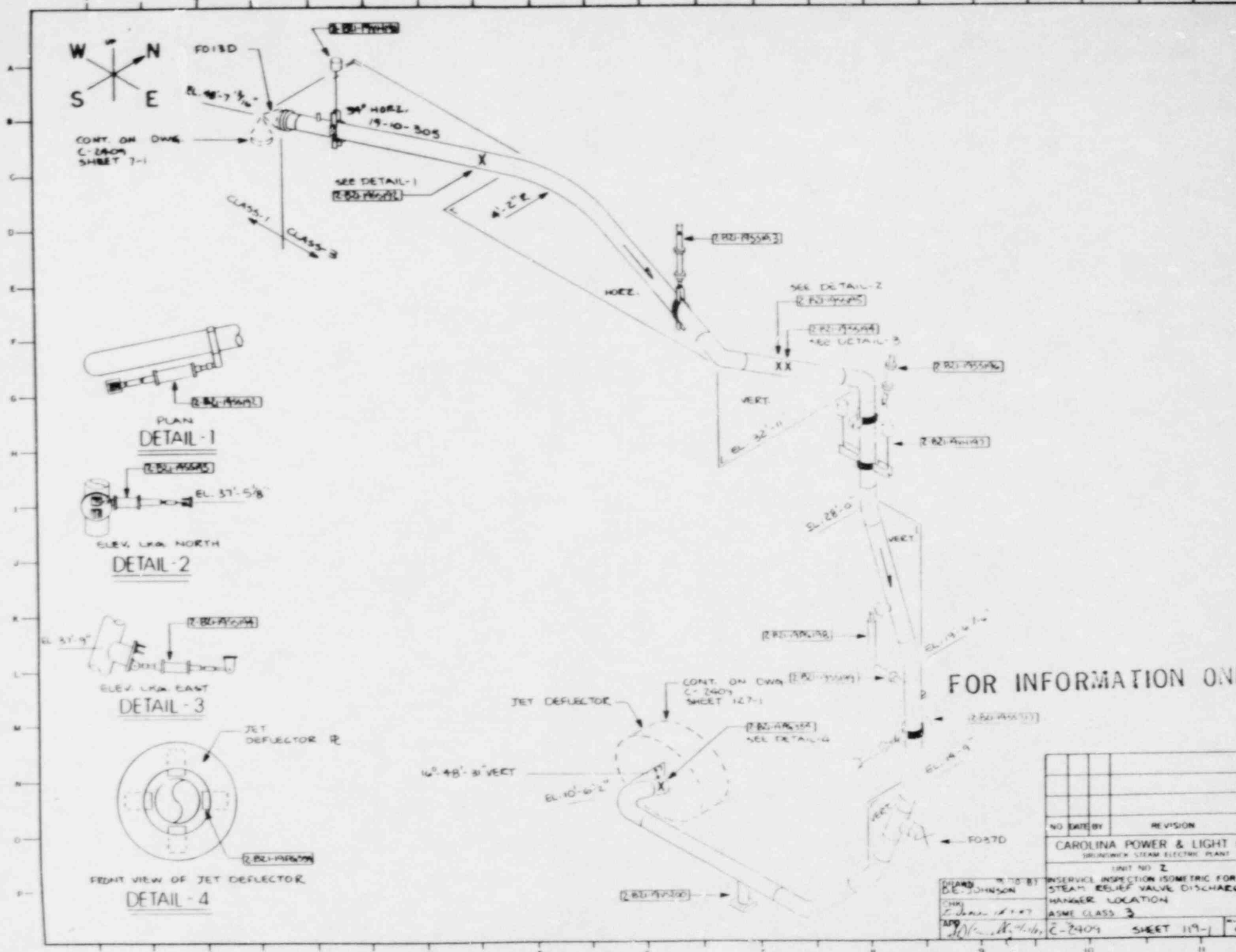
ASME CLASS 2
 C-2809 SHEET 112-1 "C"



FOR INFORMATION ONLY

DRAWN BY G.E. JOHNSON
 CHK'D BY O. J. ...
 DATE 10-28-53
 APP'D BY ...

NO.	DATE BY	REVISION
CAROLINA POWER & LIGHT CO. WILMINGTON STEAM ELECTRIC PLANT UNIT NO. 2 INSERVICE INSPECTION ROCKETING FOR STEAM RELIEF VALVE DISCHARGE HANGARE LOCATION ASME CLASS 3 C-2409 SHEET 117-1		



FOR INFORMATION ONLY

NO.	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO
 GREENWICH STEAM ELECTRIC PLANT
 UNIT NO. 2
 INSERVICE INSPECTION ISOMETRIC FOR
 STEAM RELIEF VALVE DISCHARGE
 HANGER LOCATION
 ASME CLASS 3
 E-2409 SHEET 119-1

DESIGNED BY
 D.L. JOHNSON
 DATE
 12/1/47
 DRAWN BY
 W. H. H. H.



CONT. ON DWG
 C-2409
 SHEET 7-1

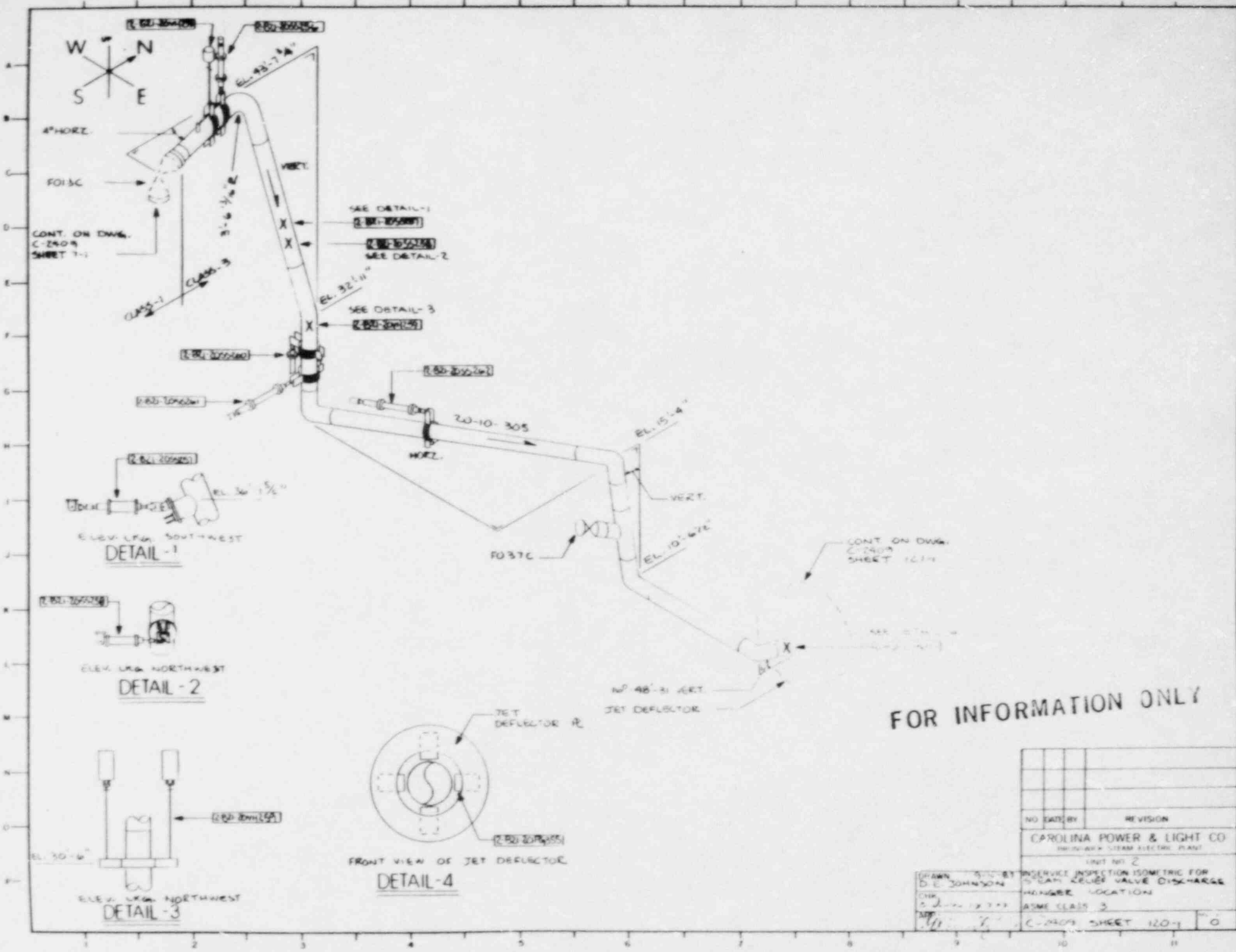
CONT. ON DWG
 C-2409
 SHEET 127-1

PLAN
 DETAIL-1

ELEV. LKA NORTH
 DETAIL-2

ELEV. LKA EAST
 DETAIL-3

FRONT VIEW OF JET DEFLECTOR
 DETAIL-4



4" HORIZ.

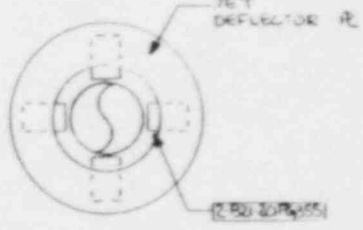
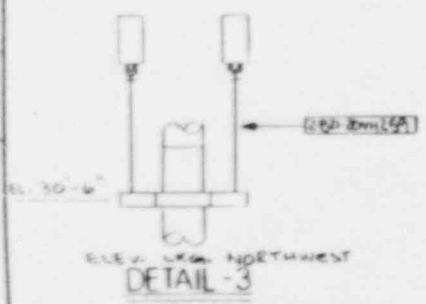
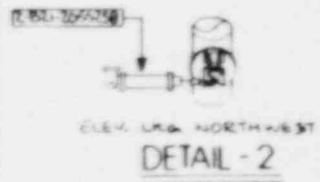
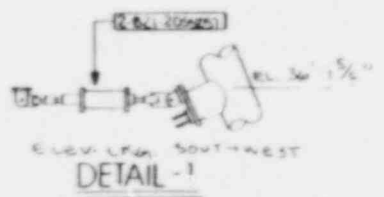
FO 1/3C

CONT. ON DWG. C-2409 SHEET 7-1

CLASS-1 CLASS-3

EL. 30'-0"

EL. 20'-0"



FRONT VIEW OF JET DEFLECTOR
DETAIL-4

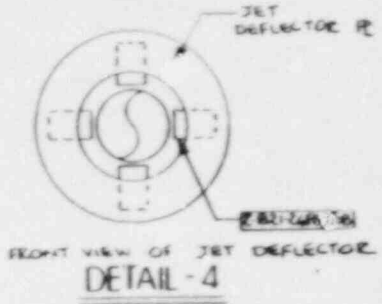
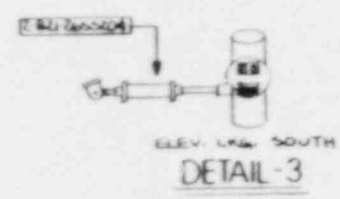
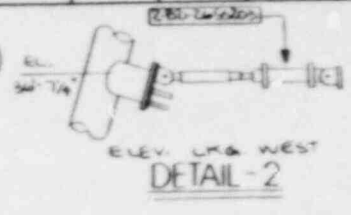
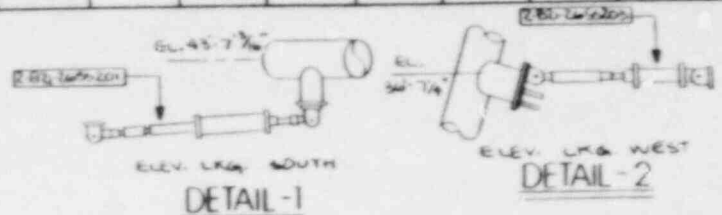
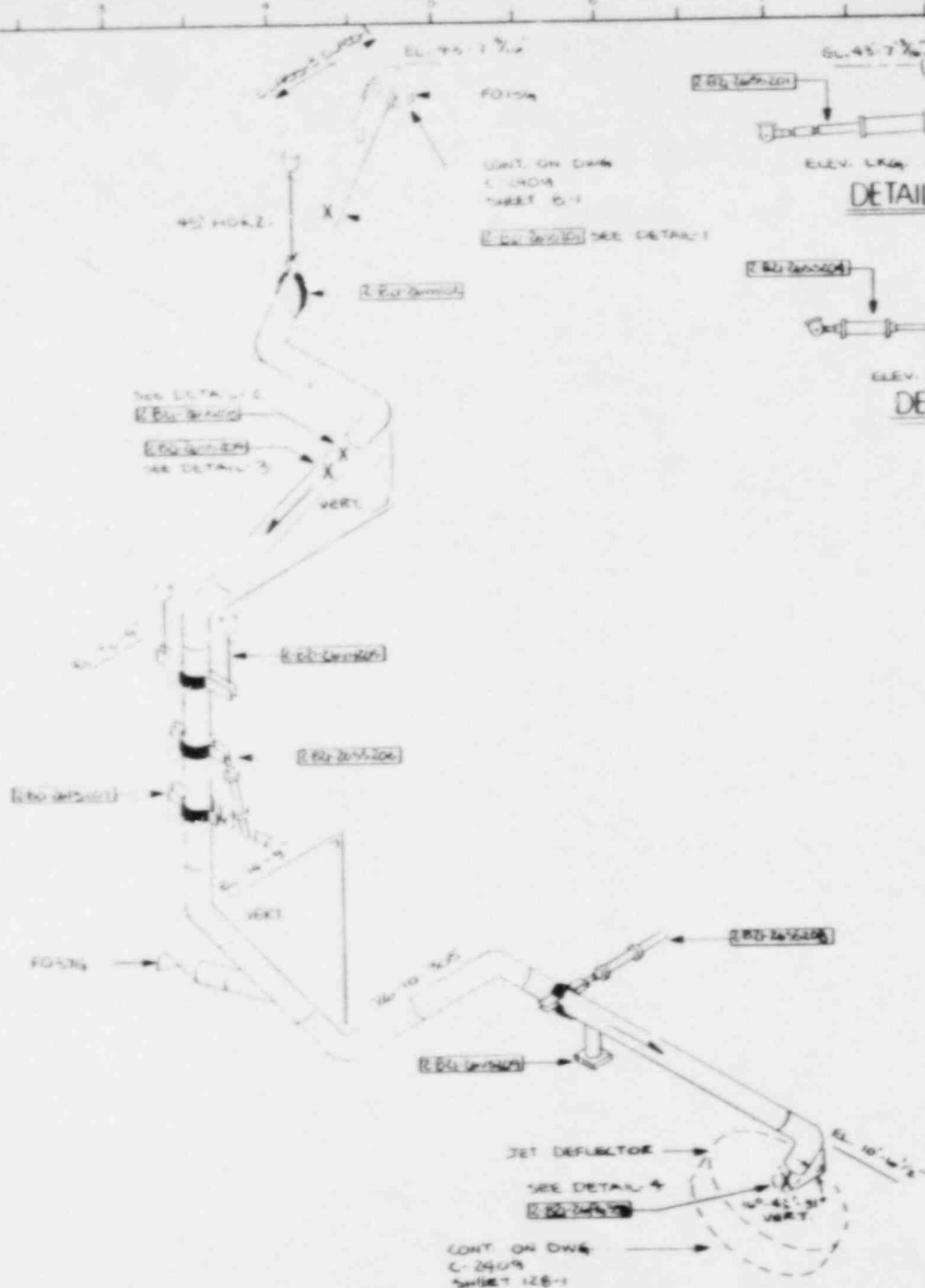
CONT. ON DWG. C-2409 SHEET 12-1

FOR INFORMATION ONLY

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO			
DUKE ENERGY SYSTEMS PLANT			
UNIT NO. 2			
SERVICE INSPECTION ISOMETRIC FOR			
STEAM RELIEF VALVE DISCHARGE			
HANGER LOCATION			
ASME CLASS 3			
C-2409 SHEET 12-1			

DRAWN BY
D. E. JOHNSON
CHK.
DATE
APP.

0

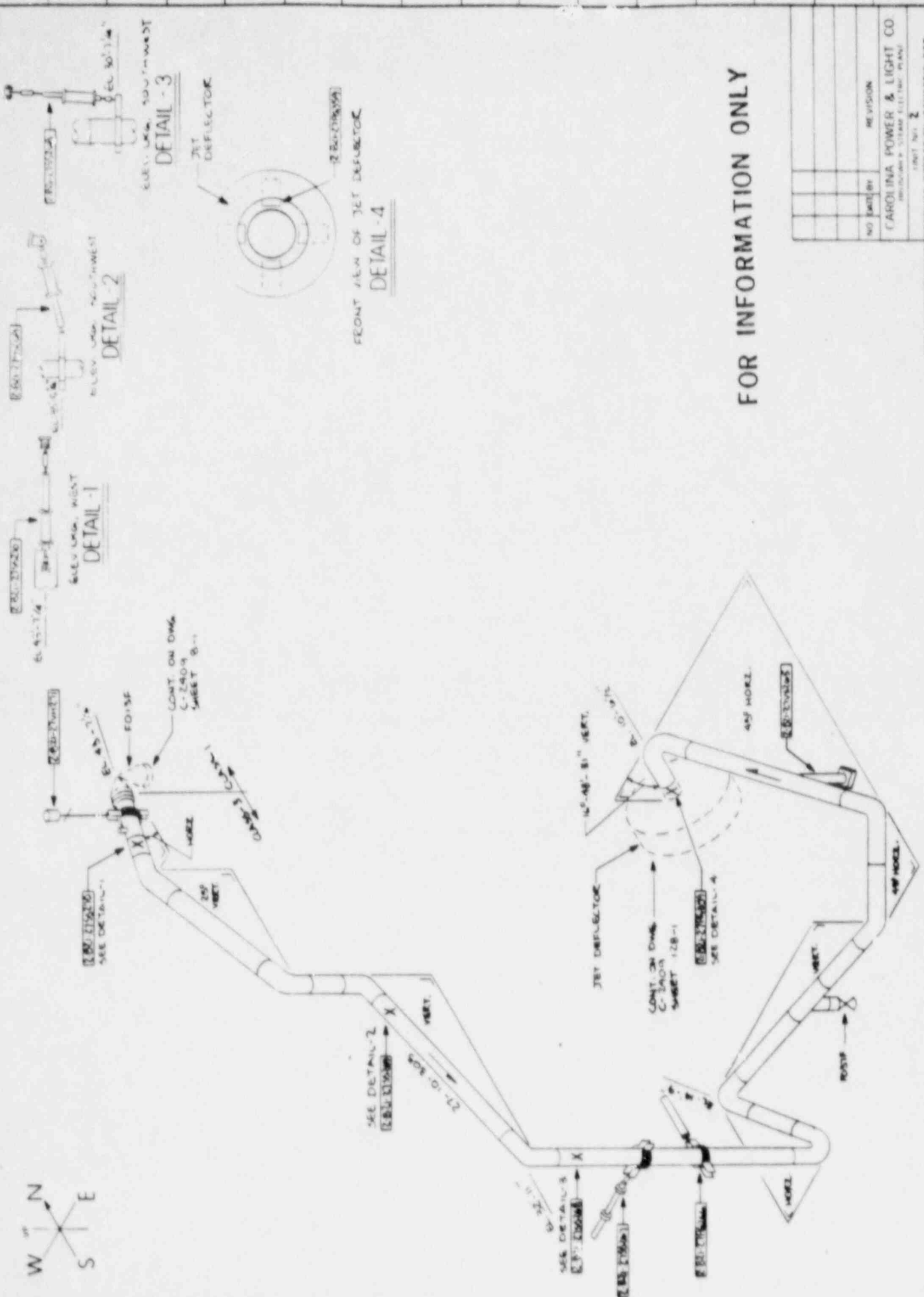
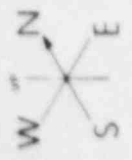


CONT. ON DWG
C-24079
SHEET 128-1

FOR INFORMATION ONLY

NO. DRAWN BY	REVISION		
CAROLINA POWER & LIGHT CO.			
BRUNNEN 5200 ELECTRIC PLANT			
UNIT NO. 2			
SERVICE INSPECTOR RESPONSIBLE FOR			
STEAM RELAY VALVE DRAWINGS			
MANAGE LOCALITIES			
ASME CLASS B			
DATE	BY	CHKD.	APP'D.
11-1-58	J. H. ...	J. H. ...	J. H. ...

DRAWN: 11-1-58 BY: J. H. ...
 C.E. JOHNSON
 CHKD.: J. H. ...
 APP'D.: J. H. ...
 SHEET 128-1



DETAIL - 1
ELEV. 100'-0" WEST

DETAIL - 2
ELEV. 100'-0" WEST

DETAIL - 3
ELEV. 100'-0" WEST

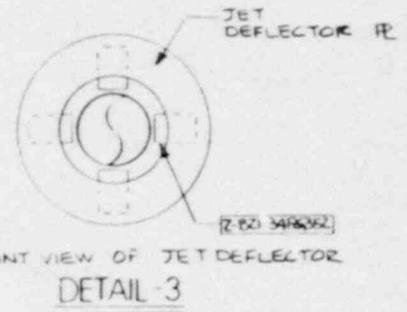
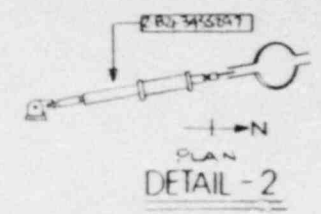
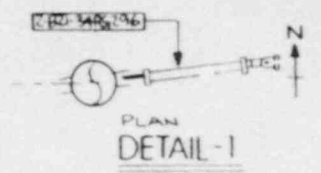
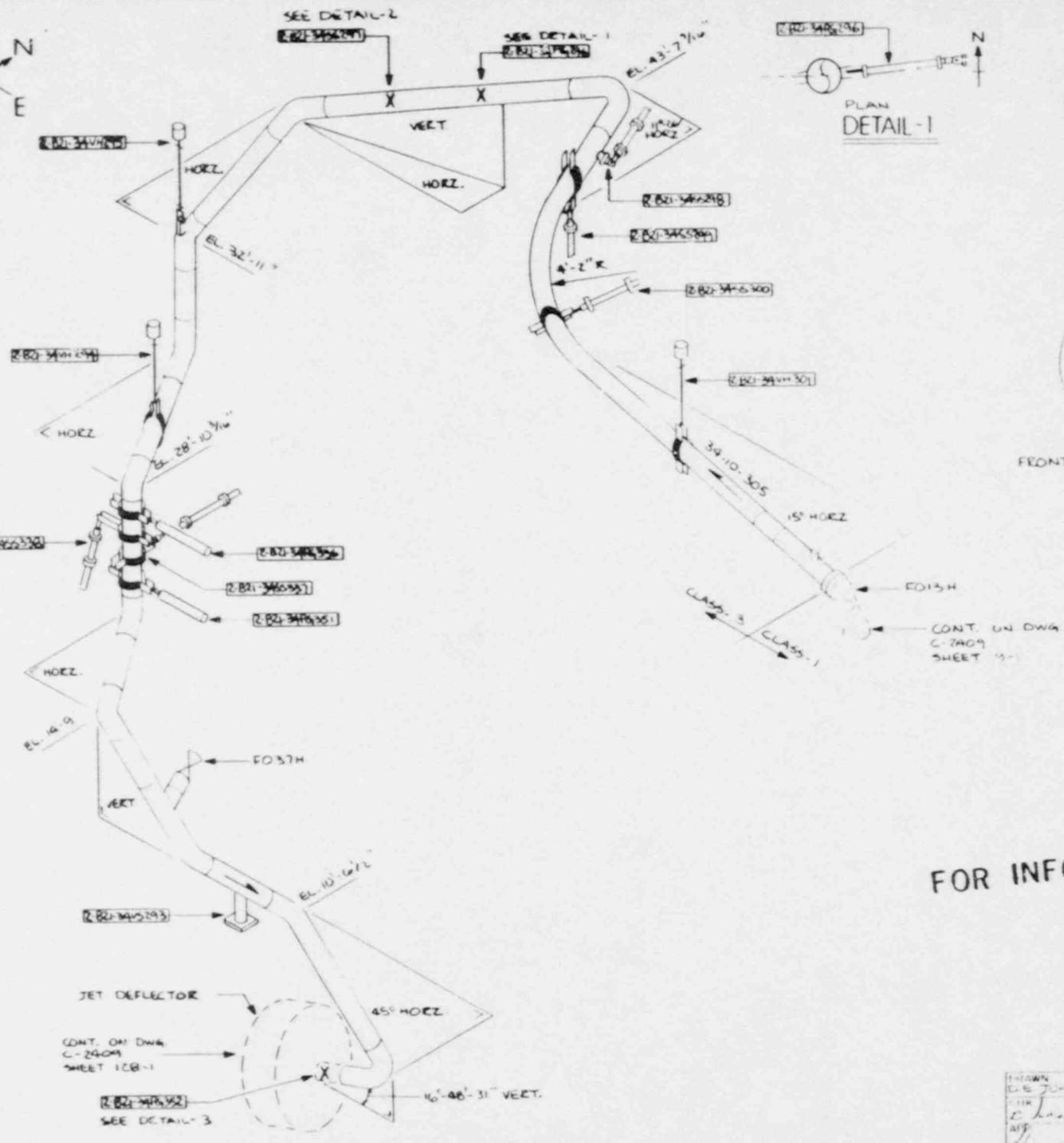
FRONT VIEW OF JET DEFLECTOR
DETAIL - 4

FOR INFORMATION ONLY

NO.	DATE	BY	REVISION

PROJECT NO. 2
 CAROLINA POWER & LIGHT CO.
 INSERVICE INSPECTION GEOMETRIC FOR
 STEAM VALVE LOCATION
 ASME CLASS 5

DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 DATE: 12-1-11
 SHEET 122-1 OF 1



FOR INFORMATION ONLY

CONT. ON DWA
C-2409
SHEET 12B-1

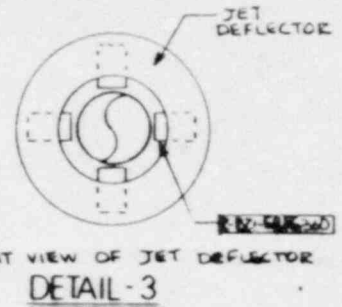
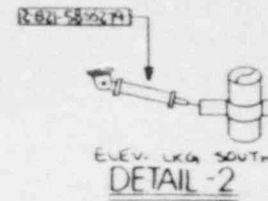
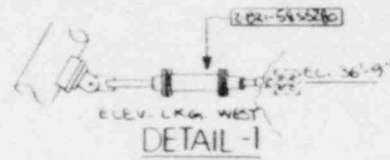
SEE DETAIL-3

DRAWN D.E. JOHNSON CHK C. H. ... APP ...	SERVICE INSPECTION ISOMETRIC FOR STEAM RELIEF VALVE DISCHARGE HANGER LOCATION ASME CLASS 3 C-2409 SHEET 12A-1
---	---

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO. <small>(INCORPORATED UNDER THE LAWS OF THE STATE OF NORTH CAROLINA)</small> SHEET NO. 2			
0			



CONT. ON DWG.
C-240A
SHEET 128-1

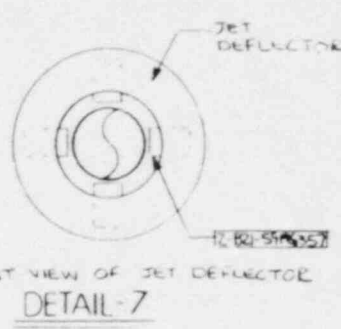
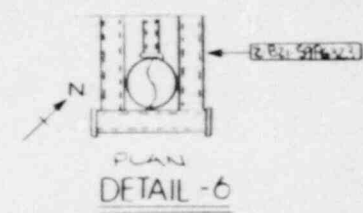
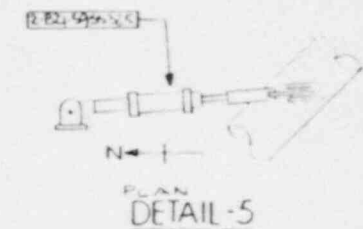
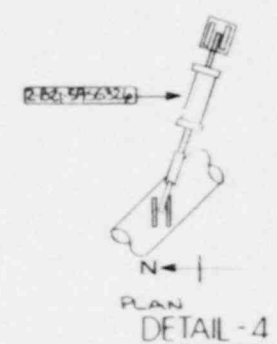
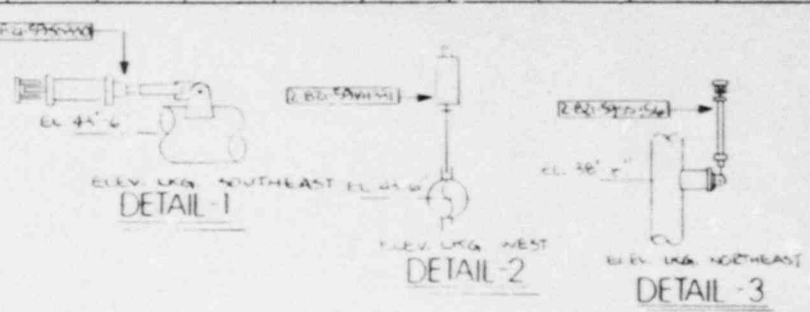
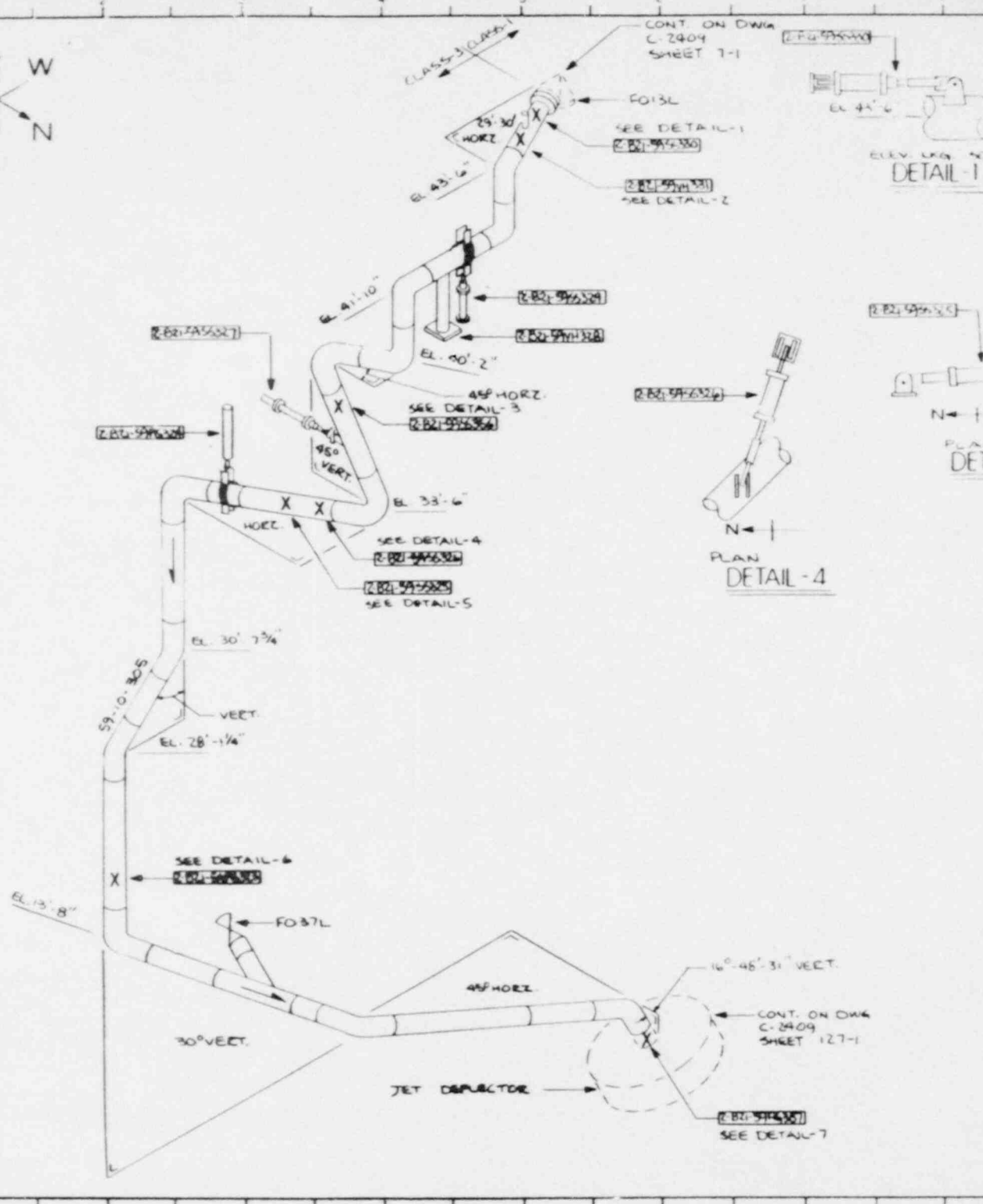


FOR INFORMATION ONLY

CONT. ON DWG.
C-240A
SHEET 128-1

NO.	DATE BY	REVISION
CAROLINA POWER & LIGHT CO. WELLSBORO STEAM ELECTRIC PLANT UNIT NO. 2		
DESIGNED BY: D.B. JOHNSON CHECKED BY: [Signature] DATE: 12-27-57 DRAWING NO.: 128-1		

INSERVICE INSPECTOR: [Signature]
 SUPERVISOR: [Signature]
 ENGINEER: [Signature]



FOR INFORMATION ONLY

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO. WINDYBROOK STEAM ELECTRIC PLANT			
UNIT NO. 2			
INSERVICE INSPECTION ISOMETRIC FOR STEAM RELIEF VALVE DISCHARGE HANGER LOCATION ASME CLASS B			
C-2409 SHEET 126-1			0

DRAWN 5-14-87
 C.E. JOHNSON
 CHK 5-14-87
 J.S. JOHNSON
 APP 5-14-87
 J.S. JOHNSON

CONT. ON DWG
 C-2409
 SHEET 127-1

SEE DETAIL-7
 R.B.L. 596557

SEE DETAIL-6
 R.B.L. 596557

SEE DETAIL-5
 R.B.L. 596557

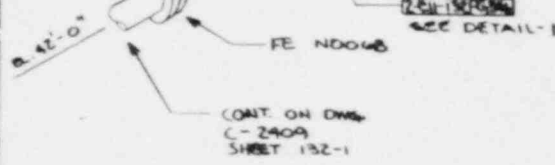
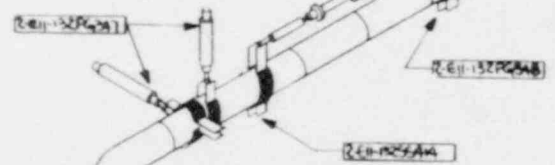
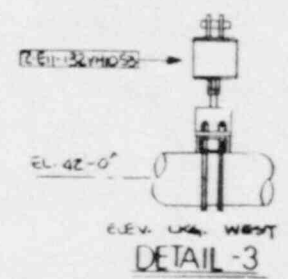
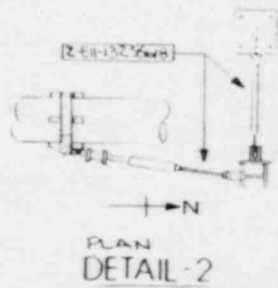
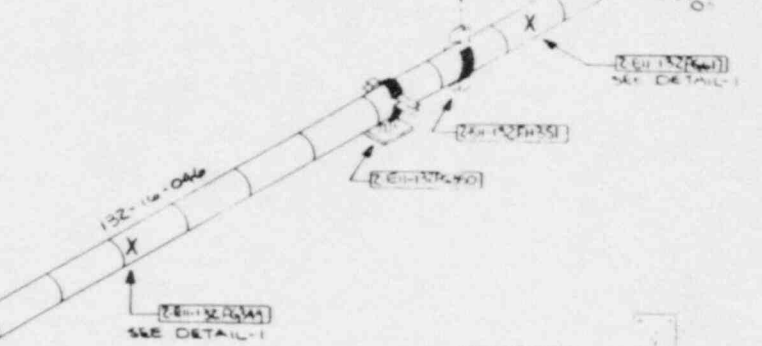
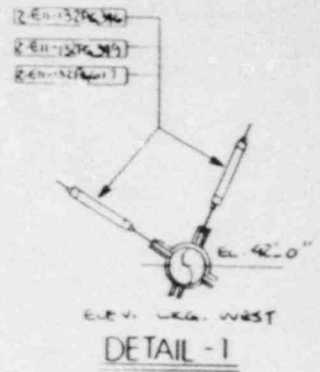
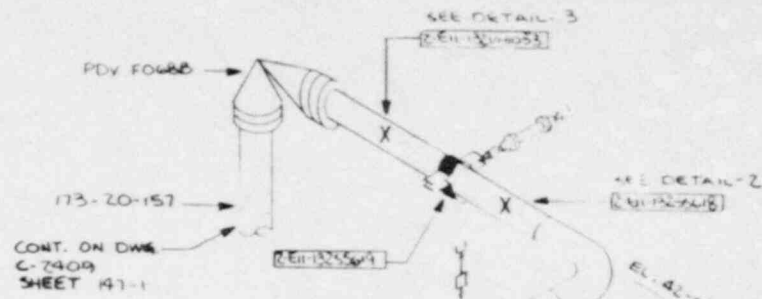
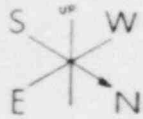
SEE DETAIL-3
 R.B.L. 596557

R.B.L. 596557

R.B.L. 596557

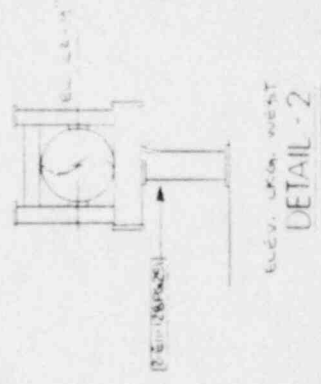
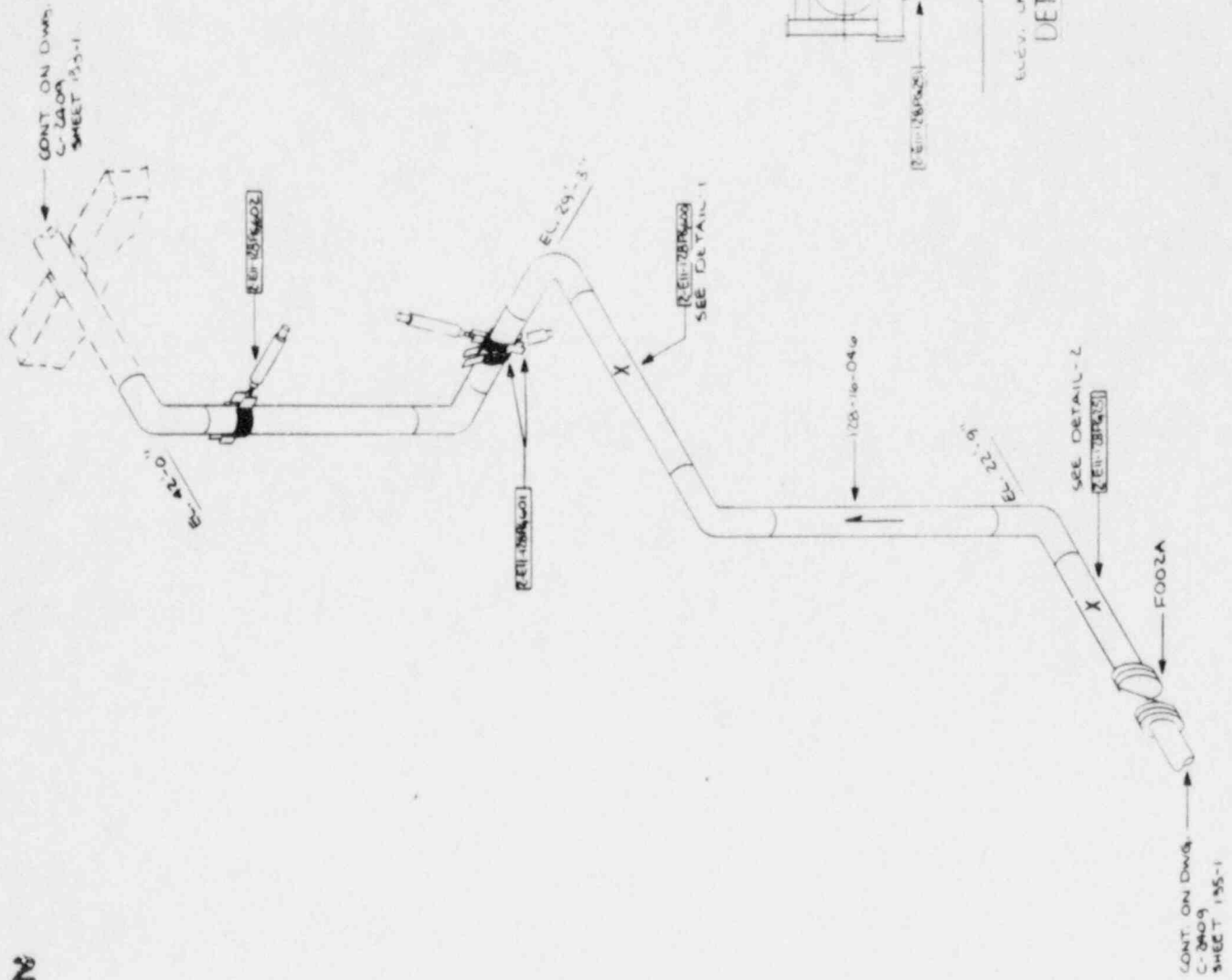
SEE DETAIL-2
 R.B.L. 596557

SEE DETAIL-1
 R.B.L. 596557



FOR INFORMATION ONLY

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO BRUNSWICK STEAM ELECTRIC PLANT UNIT NO. 2 INSERVICE INSPECTION ISOMETRIC FOR SERVICE WATER FROM RHR WX-2B HANGAR LOCATION ASME CLASS 3			
DRAWN BY	C-2409		
CHK	SHEET 131-1		
APP	0		



FOR INFORMATION ONLY

NO.	DATE	BY	REVISION
1			
2			

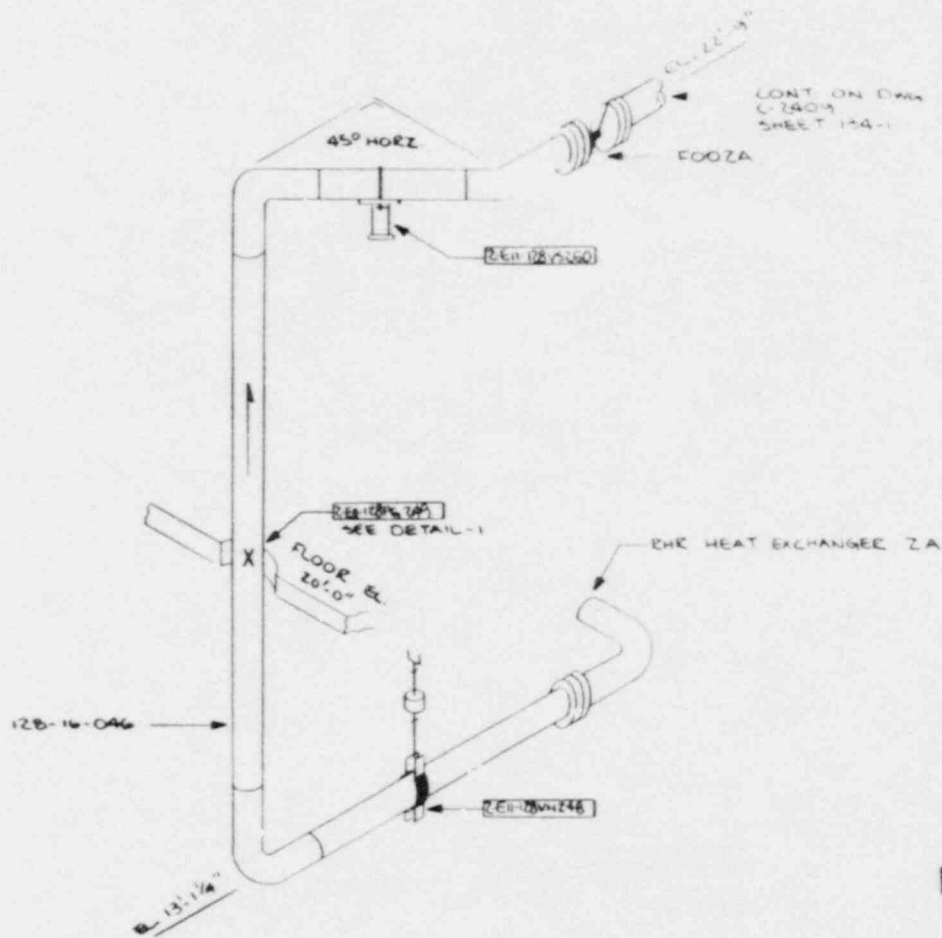
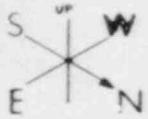
CAROLINA POWER & LIGHT CO.
 1000 EAST 7TH STREET
 RALEIGH, N.C. 27601

DESIGNED BY: D.E. JOHNSON
 DRAWN BY: J. J. JONES
 CHECKED BY: J. J. JONES
 APPROVED BY: J. J. JONES

INSTALL PROTECTION ISOMETRIC FOR
 SERVICE WATER FROM RHE
 HAZA HANGER LOCATION
 AT/ME CLASS 3

C-2409 SHEET 154-1

CONT. ON DWG.
 C-2409
 SHEET 155-1



CONT. ON DRAW
C-2A09
SHEET 134-1

FOOZA

45° HORIZ.

2E11-28V260

2E11-28V248
SEE DETAIL-1

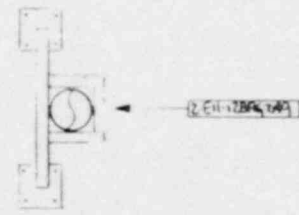
FLOOR EL.
20'-0"

RHE HEAT EXCHANGER ZA

12B-16-046

2E11-28V248

13 1/4"



2E11-28V248

↑ → N

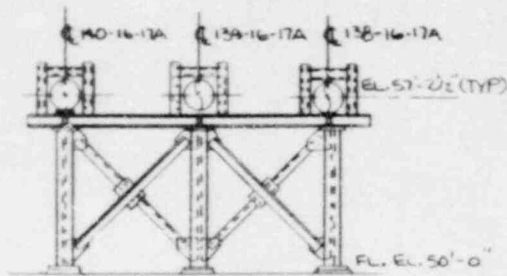
PLAN
DETAIL-1

FOR INFORMATION ONLY

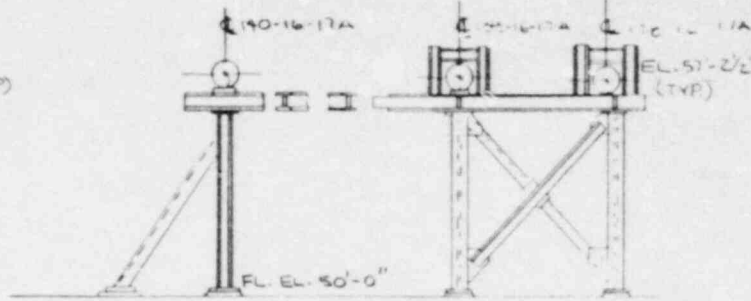
NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO.			
UNCL-2014 - STEAM FUELING PLANT			
UNIT NO. 2			
INSERVICE INSPECTION ISOMETRIC FOR			
SERVICE WATER FROM RHE			
HX- ZA HANGER LOCATION			
ASME CLASS 3			
C-2A009			SHEET 135-1

DRAWN BY: D.E. JOHNSON
CHKD BY: [Signature]
DATE: 12/1/67
SCALE: 3/4"

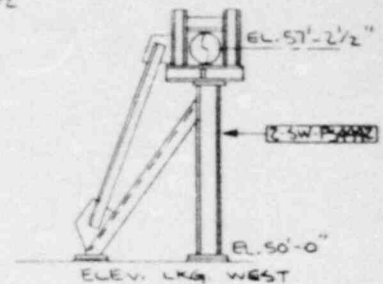
C-2A009 SHEET 135-1 0



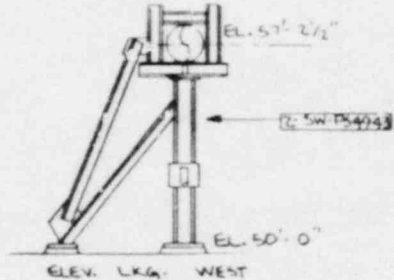
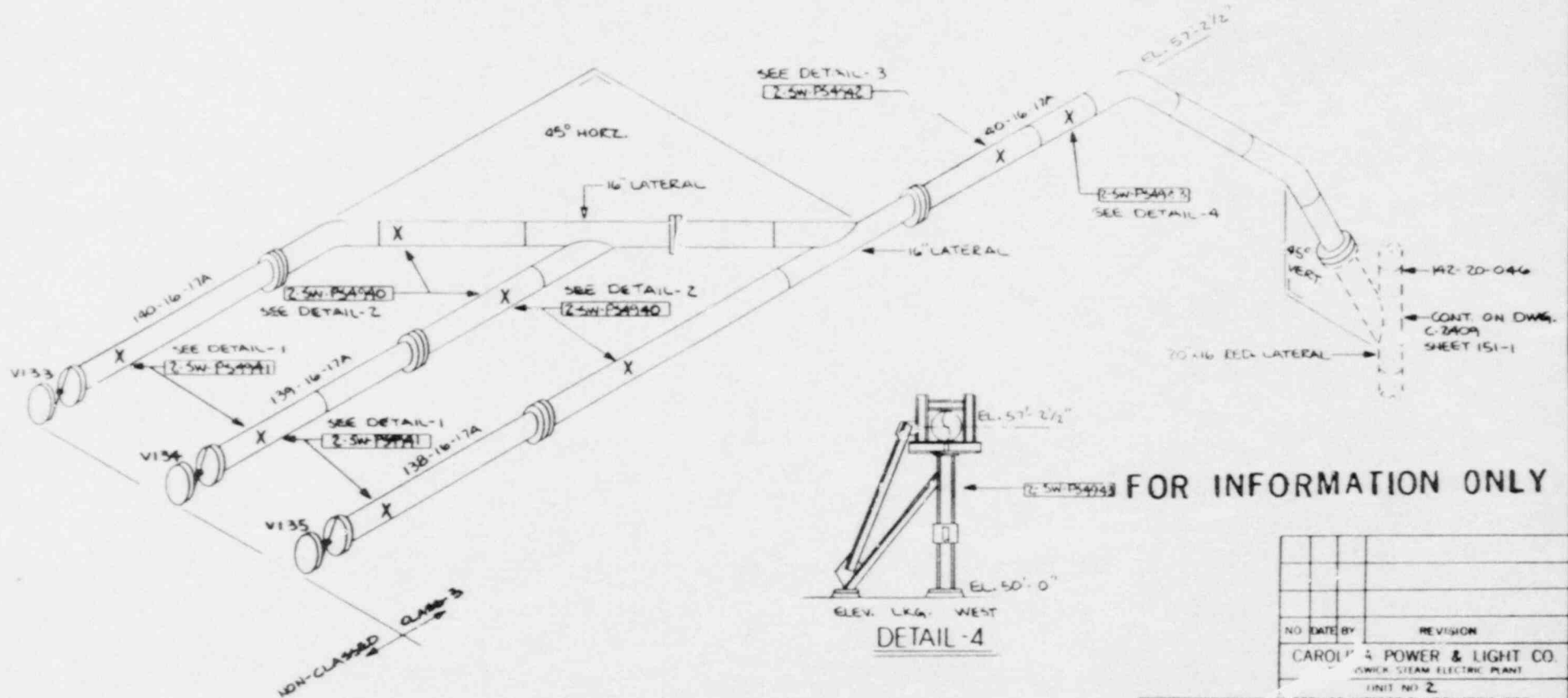
ELEV. LK_W. WEST
DETAIL - 1
 2-SW-PS4941



ELEV. LK_W. WEST
DETAIL - 2
 2-SW-PS4940



ELEV. LK_W. WEST
DETAIL - 3

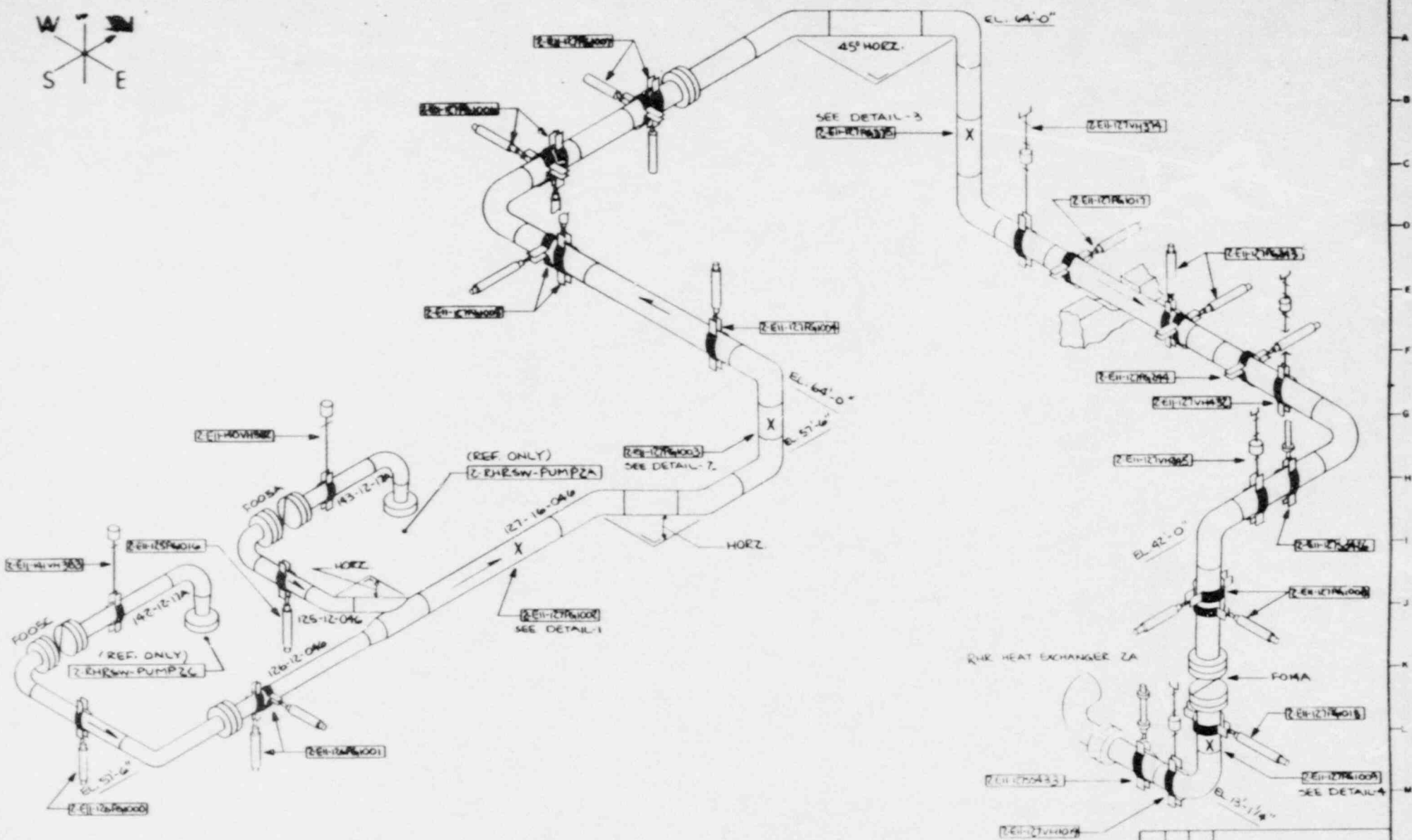


ELEV. LK_W. WEST
DETAIL - 4

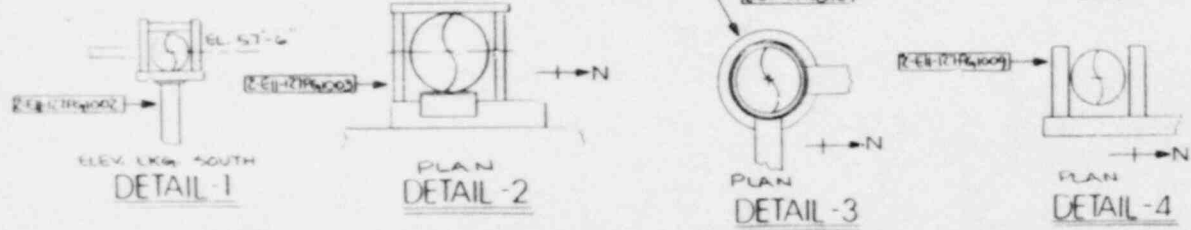
FOR INFORMATION ONLY

NO.	DATE	BY	REVISION
CAROLINE POWER & LIGHT CO. (SWER) STEAM ELECTRIC PLANT UNIT NO. 2			
SERVICE INSPECTION: ISOMETRIC FOR SERVICE WATER RIBCW HR'S HANGER LOCATION ASME CLASS 3			
DRAWN BY: B. S. G. C. E. JOHNSON CHK: J. S. JOHNSON DATE: 8/27/27		C-2409 SHEET 136-1	

NON-CLASS 3

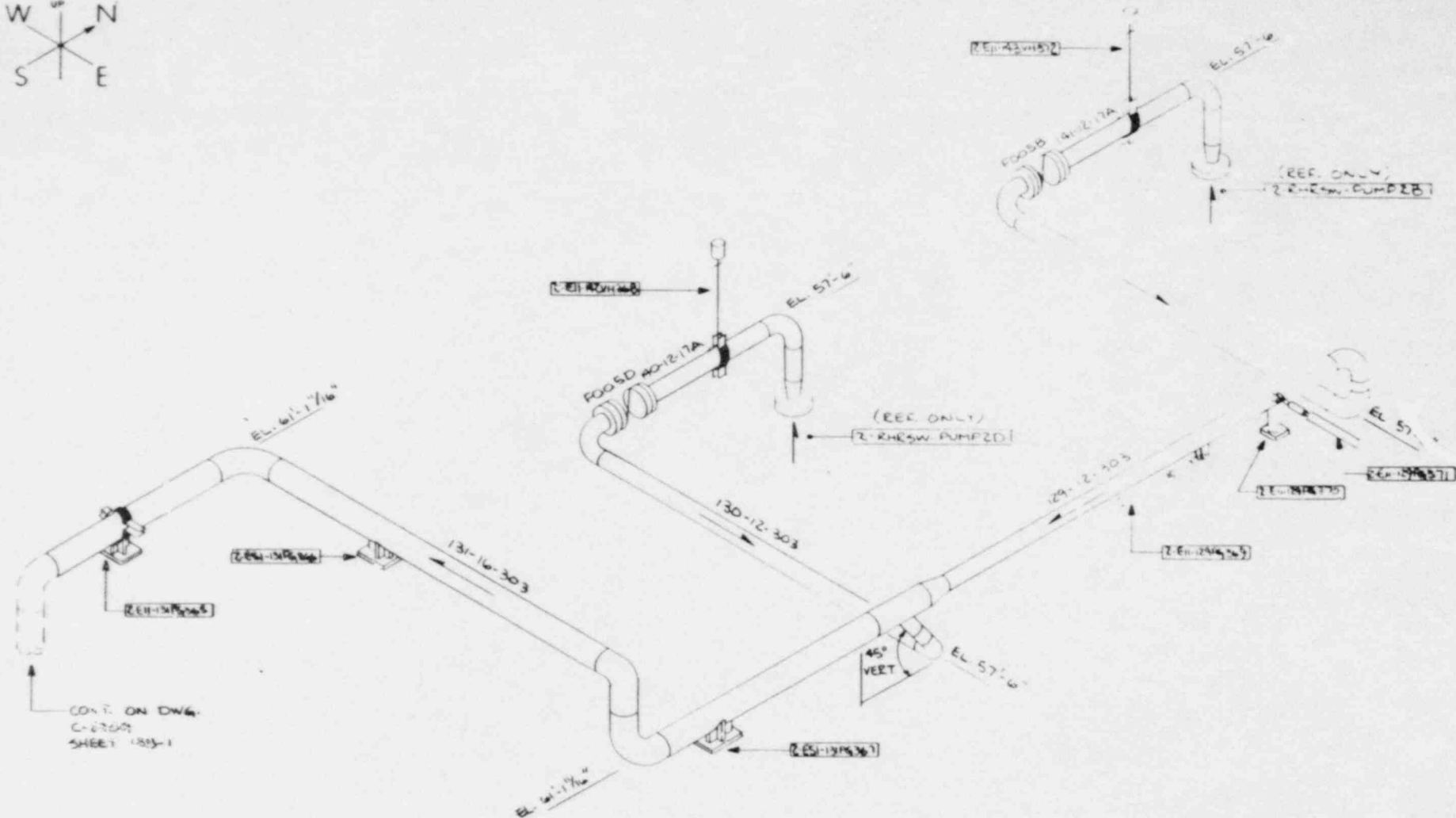


FOR INFORMATION ONLY



NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO			
DUKE POWER STEAM ELECTRIC PLANT			
UNIT NO. 2			
INTERFERENCE INSPECTION ISOMETRIC FOR			
RESIDUAL HEAT REMOVAL SYSTEM &			
SERVICE WATER SYSTEM FOR RHR HEAT			
EXCHANGER ZA HANGER LOCATION			
ASME CLASS 3			
C-2409		SHEET 157-1	

DRAWN BY E.E.T.
 C.E. JOHNSON
 3/10/64
 APP. 3/10/64



CONT. ON DWG.
C-2409
SHEET 139-1

FOR INFORMATION ONLY

NO.	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO.
BRIARCLIFF STEAM ELECTRIC PLANT
UNIT NO. 2

INSERVICE INSPECTION ISOMETRIC PIPING
RESIDUAL WATER SYSTEM FOR 100%
PUMPS 2B & 2D HANGER LOCATIONS
ASME CLASS 3

C-2409 SHEET 139-1

DRAWN BY D.E. JOHNSON
CHKD BY
APP. BY



CONT. ON DWG
C-24009
SHEET 153-1

UNIT # 2 REACTOR BLDG.

EL. 12'-0"

45°
VEERT.

103.30-157

45°
HORIZ.

CONT. ON DWG
C-24009
SHEET 141-1

EL. 6'-6"

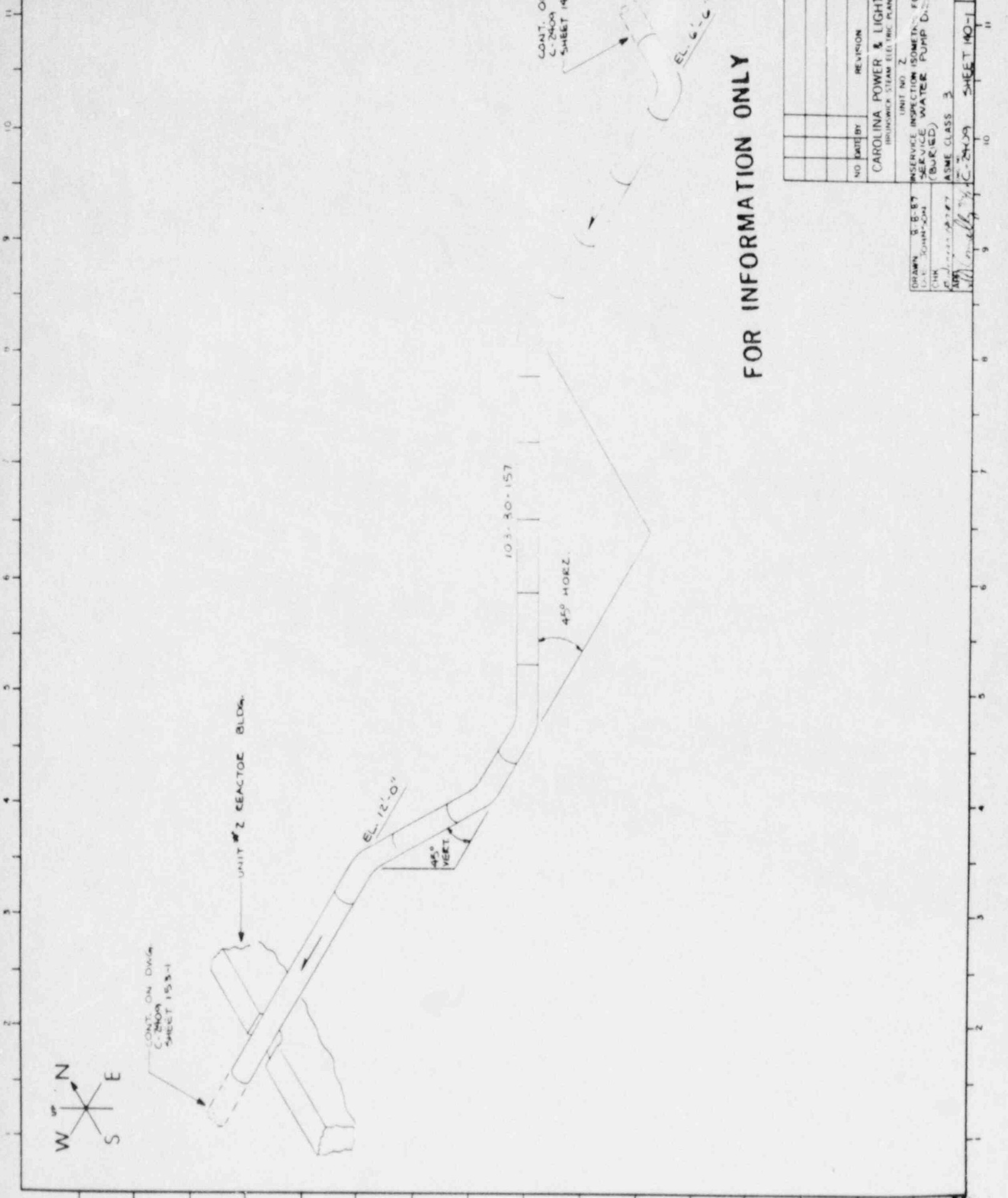
FOR INFORMATION ONLY

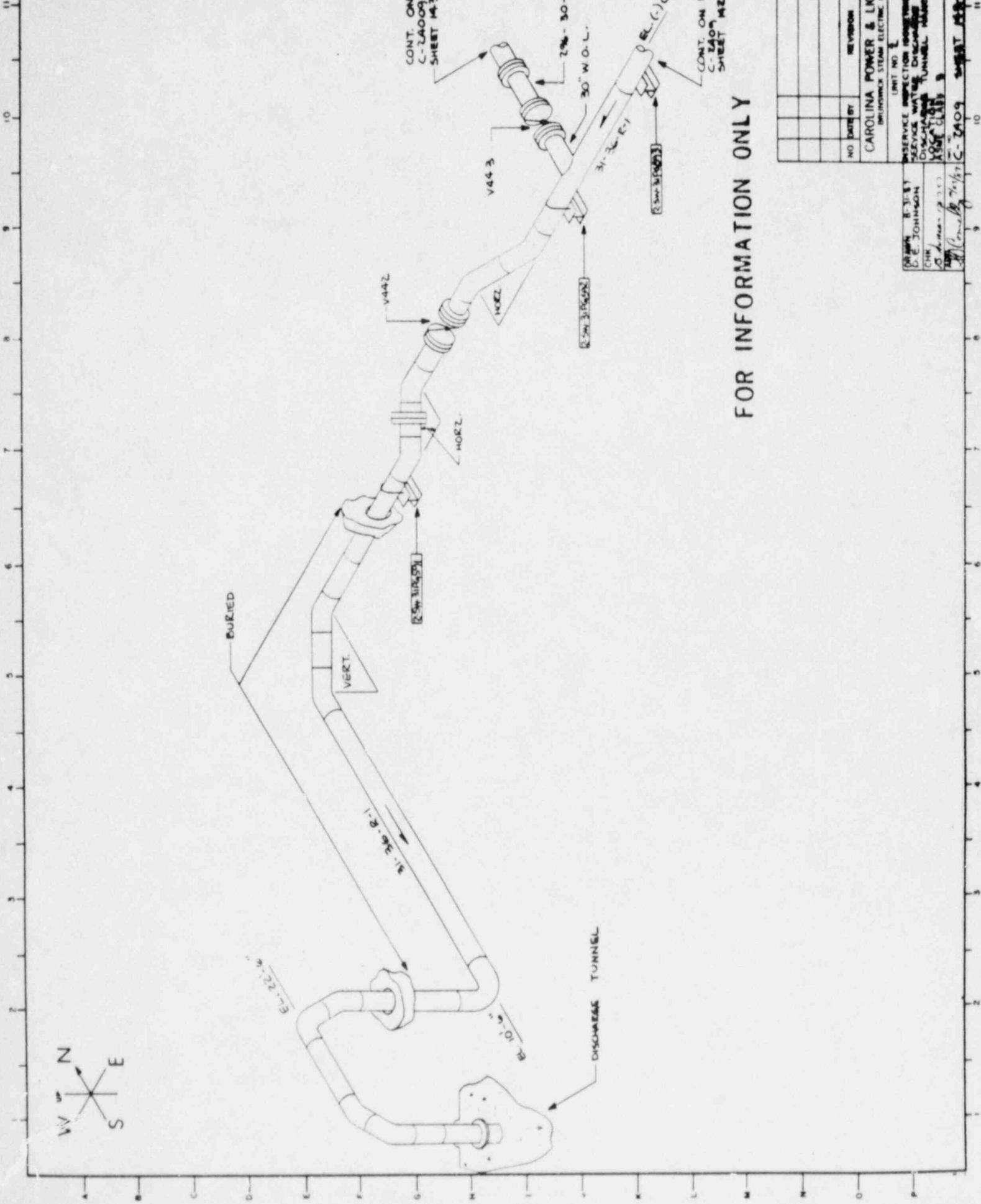
NO.	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO
ROUNDBECK STEAM ELECTRIC PLANT

UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR
SERVICE WATER PUMP DISCHARGE
(BURIED)
ASME CLASS 3

DRAWN BY B. B. BY
D. E. JOHN-DM
CHK
APP. *[Signature]*
C-24009
SHEET 140-1





CONT. ON DWG.
C-3A09
SHEET 143-1

2% - 30-E-1
30" W.O.L.

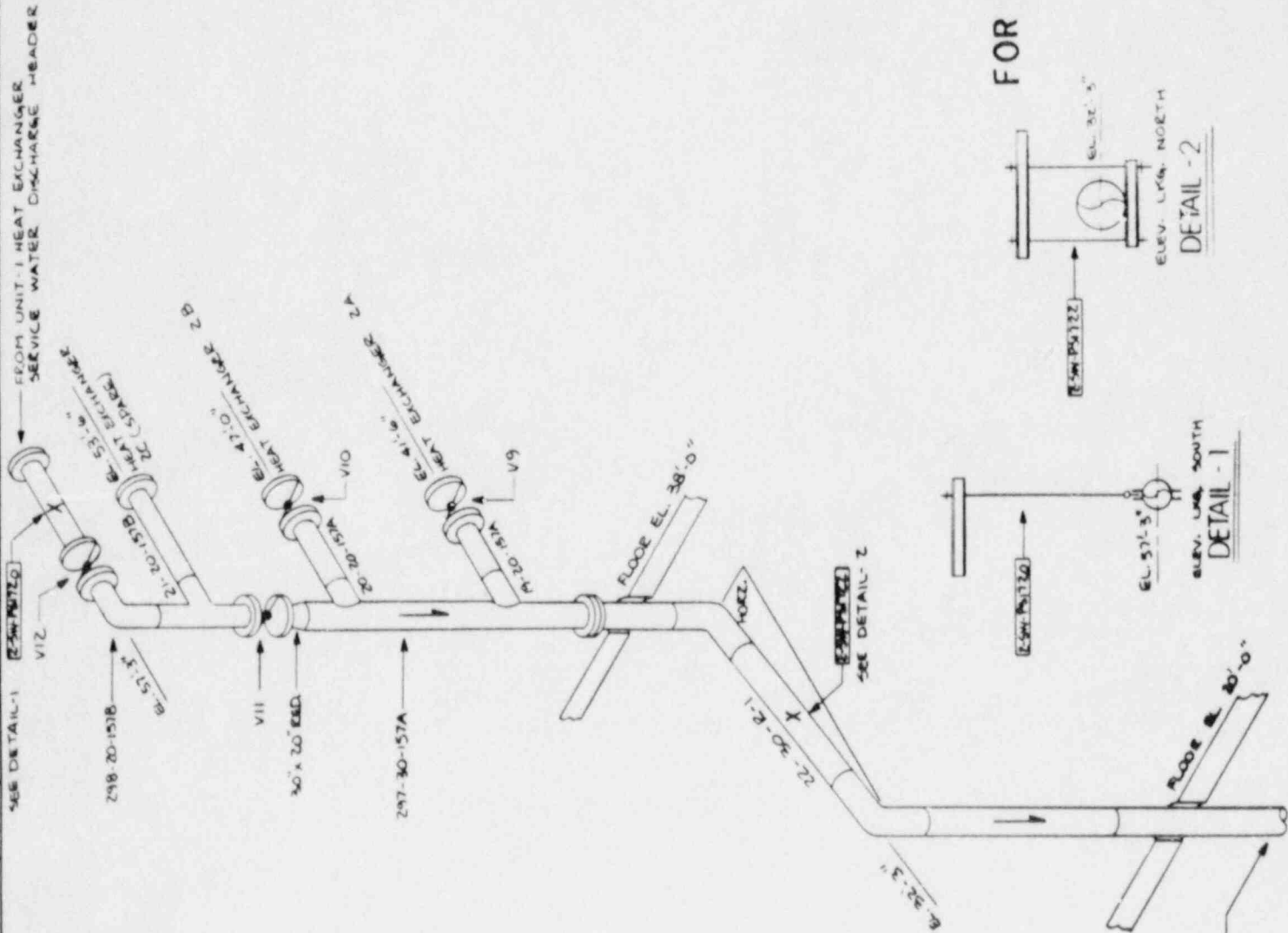
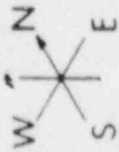
CONT. ON DWG.
C-3A09
SHEET 142-1

FOR INFORMATION ONLY

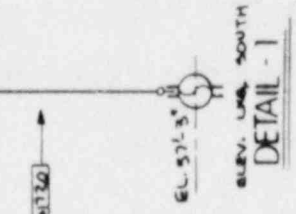
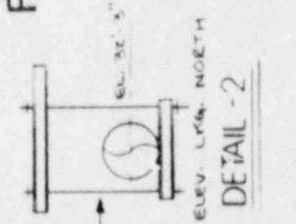
NO.	DATE	REVISION

PART NO. 1
 CAROLINA POWER & LIGHT CO.
 DISCHARGE TUNNEL
 SERVICE INSPECTION REPORT FOR
 DISCHARGE TUNNEL
 C-3A09
 SHEET 143-1

DRAWN BY: B. J. BERRY
 CHECKED BY: D. E. JOHNSON
 DATE: 10/1/51
 APPROVED BY: [Signature]
 C-3A09 SHEET 143-1



FOR INFORMATION ONLY

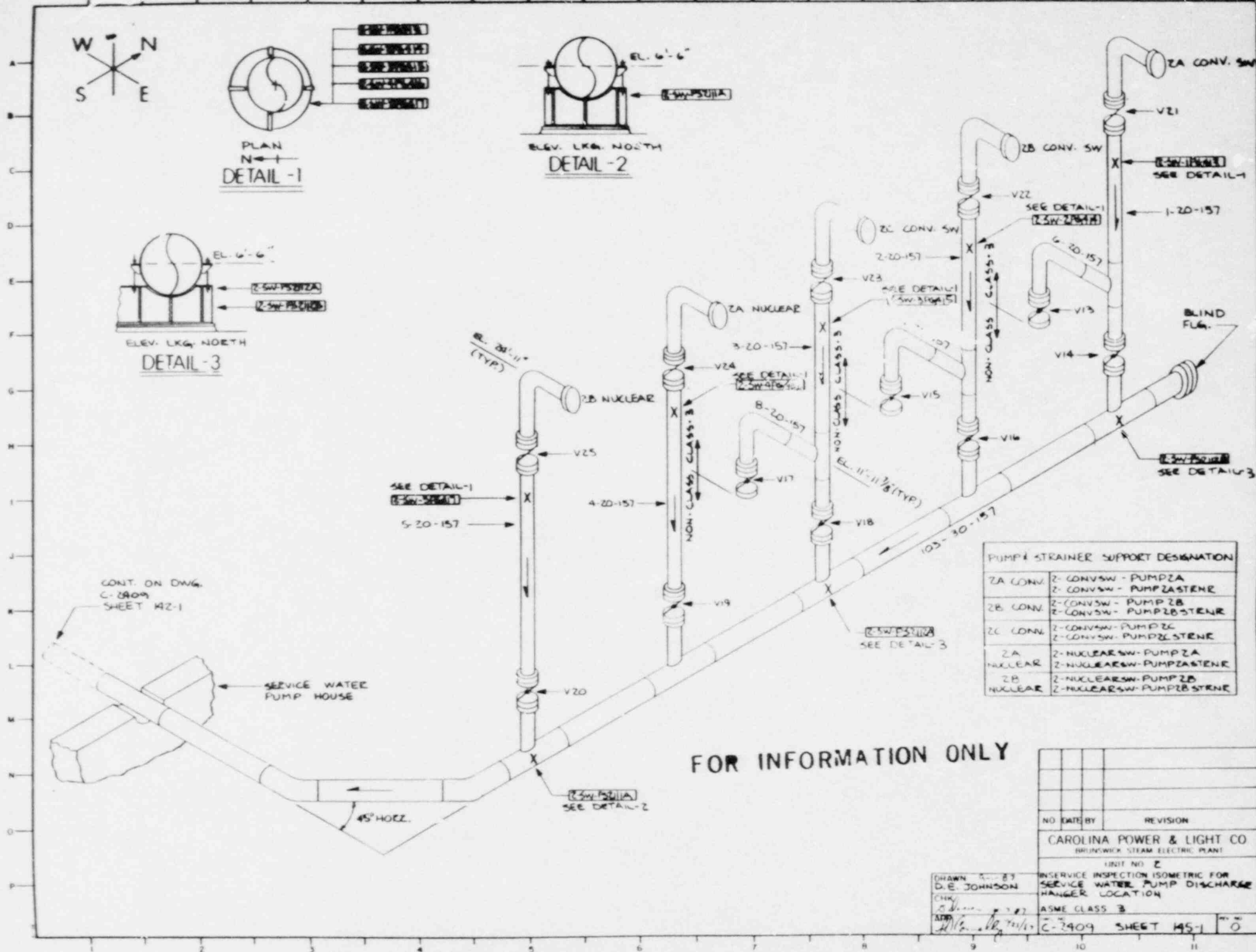
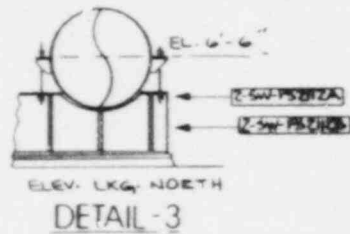
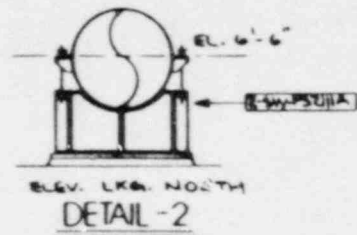
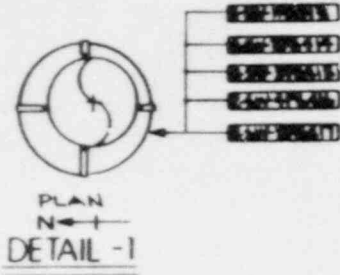


CONT. ON DWG.
C-2409
SHEET 143-1

NO.	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
RESERVE INSPECTION ISOMETRIC FOR
OPERATION SCHEDULE
DISCHARGE CANAL VALVE
LOCATION CLASS 3
ASME CLASS 3

DRAWN BY: B. B. JOHNSON
CHECKED BY: D. E. JOHNSON
DATE: 11/16/61
PROJECT: C-2409
SHEET 144-1



PUMP STRAINER SUPPORT DESIGNATION

ZA CONV.	2-CONVSW - PUMPZA 2-CONVSW - PUMPZASTENE
ZB CONV.	2-CONVSW - PUMPZB 2-CONVSW - PUMPZB STENE
ZC CONV.	2-CONVSW - PUMPZC 2-CONVSW - PUMPZC STENE
ZA NUCLEAR	2-NUCLEARSW - PUMPZA 2-NUCLEARSW - PUMPZASTENE
ZB NUCLEAR	2-NUCLEARSW - PUMPZB 2-NUCLEARSW - PUMPZB STENE

FOR INFORMATION ONLY

NO.	DATE	BY	REVISION

CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
SERVICE INSPECTION ISOMETRIC FOR
SERVICE WATER PUMP DISCHARGE
HANGER LOCATION
ASME CLASS B
C-2909 SHEET 145-1

DRAWN BY D.E. JOHNSON
CHK. [Signature]
APP. [Signature]
DATE 1/12/67



CONT. ON DWG.
C-2409
SHEET 151-1

30" x 6" W.O.L.

VIBZ

2.5W-132W189

2.5W-132W188

45°
HORZ.

133-6-157

2.5W-137H27

EL. 5'-6"

EL. 13'-2"

6" x 4" CONC. RED.

CONT. ON DWG.
C-2409
SHEET 144-1

CONT. ON DWG.
C-2409
SHEET 142-1

2.5W-125W185

2.5W-125W184

142-30-157

2.5W-125P153

PIPING TUNNEL

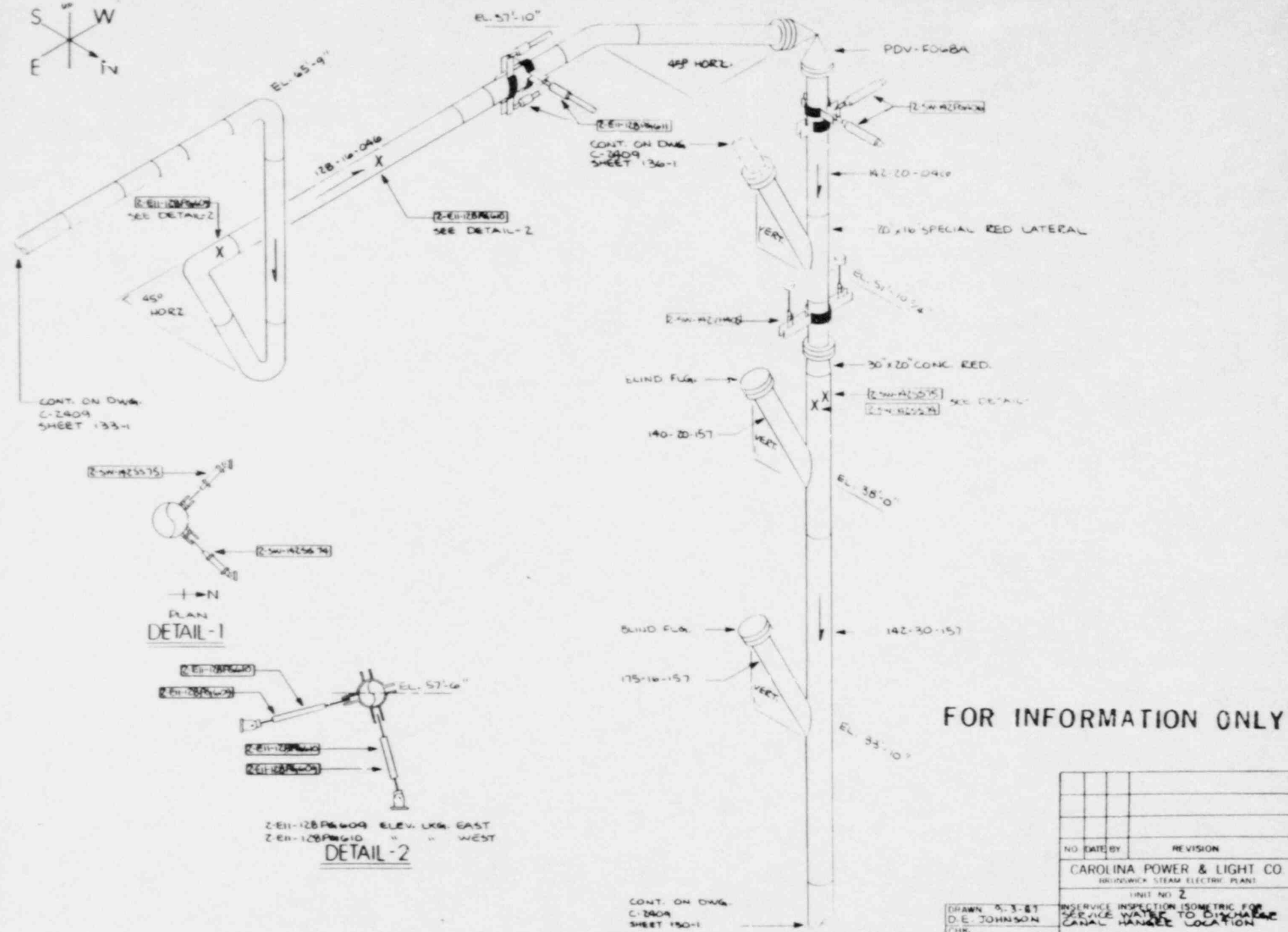
2.5W-125W183

EL. 10'-9"

FOR INFORMATION ONLY

NO.	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO. GREENSBORO STEAM ELECTRIC PLANT UNIT NO. 2			
INSERVICE INSPECTION ISOMETRIC FOR SERVICE WATER FROM KHR PUMP ROOM COOLER ZA SERVICE WATER COND. HEADER HANGER LOCATION ASME CLASS 3			
C-2409 SHEET 150-1			0

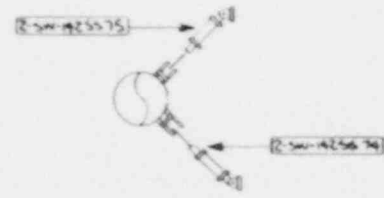
DRAWN: 5-3-87
 CHECK: J. J. J.
 APP: J. J. J.



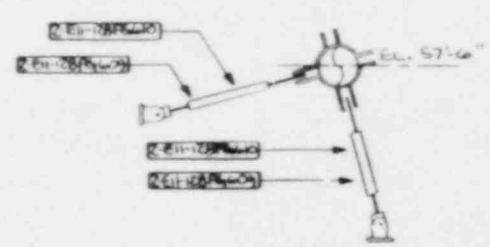
CONT. ON DWG.
C-2409
SHEET 133-1

CONT. ON DWG.
C-2409
SHEET 136-1

CONT. ON DWG.
C-2409
SHEET 150-1



PLAN
DETAIL-1



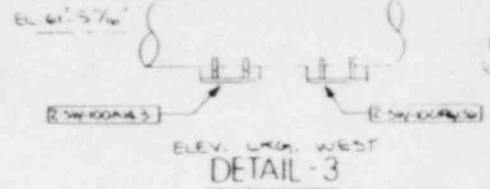
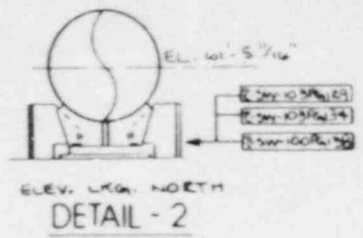
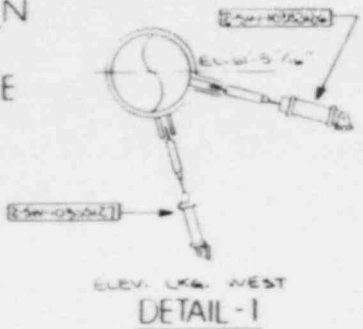
Z-EH-128P6409 ELEV. LHM EAST
Z-EH-128P6410 " " WEST

DETAIL-2

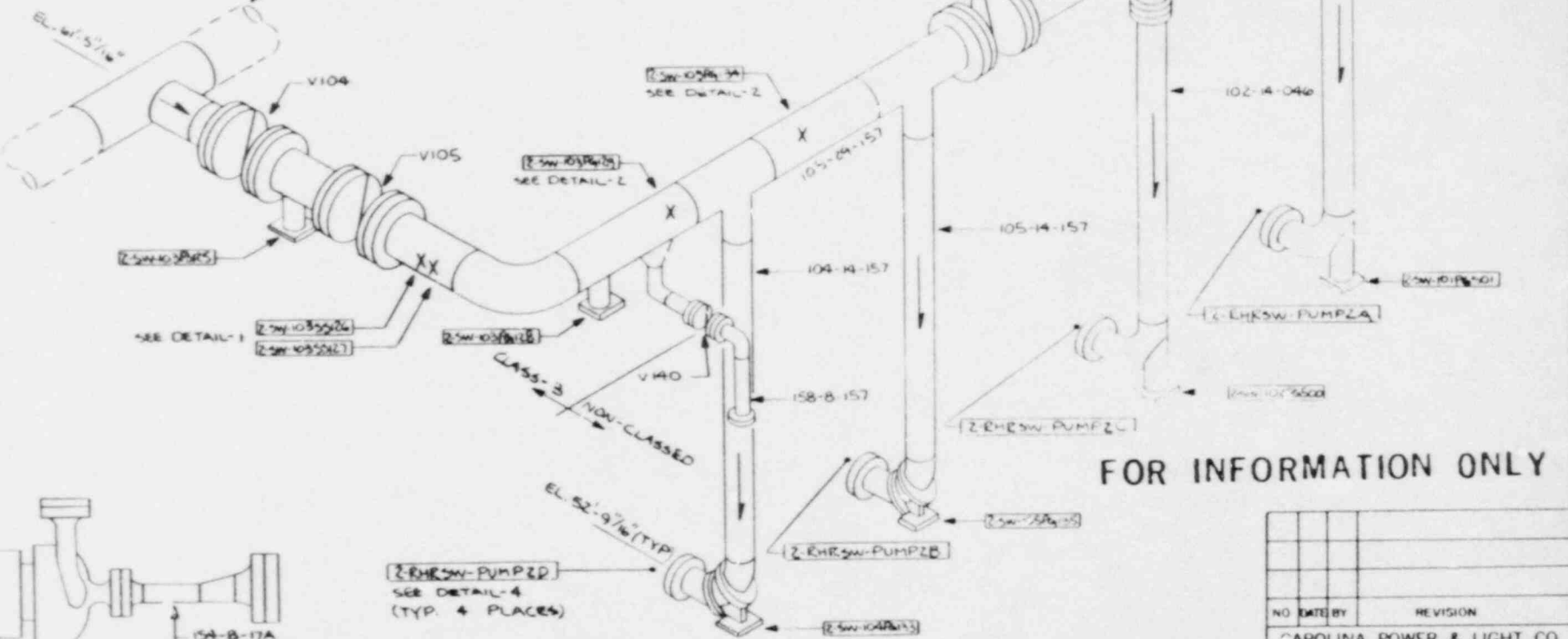
FOR INFORMATION ONLY

NO.	DATE BY	REVISION
CAROLINA POWER & LIGHT CO. BURLINGHAM STEAM ELECTRIC PLANT		
UNIT NO. 2		
INSERVICE INSPECTION ISOMETRIC FOR SERVICE WATER TO DISCHARGE CANAL HANGER LOCATION		
ASME CLASS 3		
C-2409 SHEET 151-1		

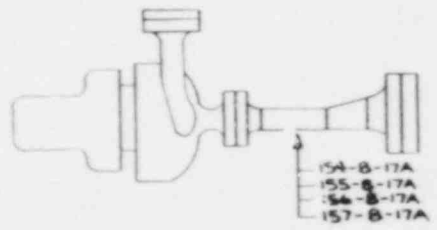
DRAWN 5-3-81
D.E. JOHNSON
CHK
APR 1981
C-2409 SHEET 151-1



CONT. ON DWG. C-2409 SHEET 153-1



FOR INFORMATION ONLY

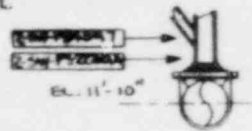


[RHSW-PUMP2D]
SEE DETAIL-4
(TYP. 4 PLACES)

NO.	DATE BY	REVISION

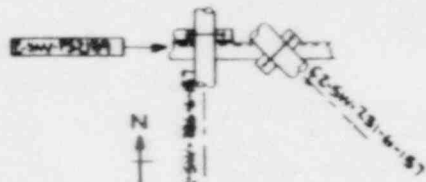
CAROLINA POWER & LIGHT CO
BRUNSWICK STEAM ELECTRIC PLANT
UNIT NO. 2
INSERVICE INSPECTION ISOMETRIC FOR
RHR SERVICE WATER PUMP
SUCTION HANGER LOCATION
ASMT CLASS B
C-2409 SHEET 152-1

DRAWN 5-4-57
L.E. JOHNSON
CHK
ASMT CLASS B
C-2409 SHEET 152-1

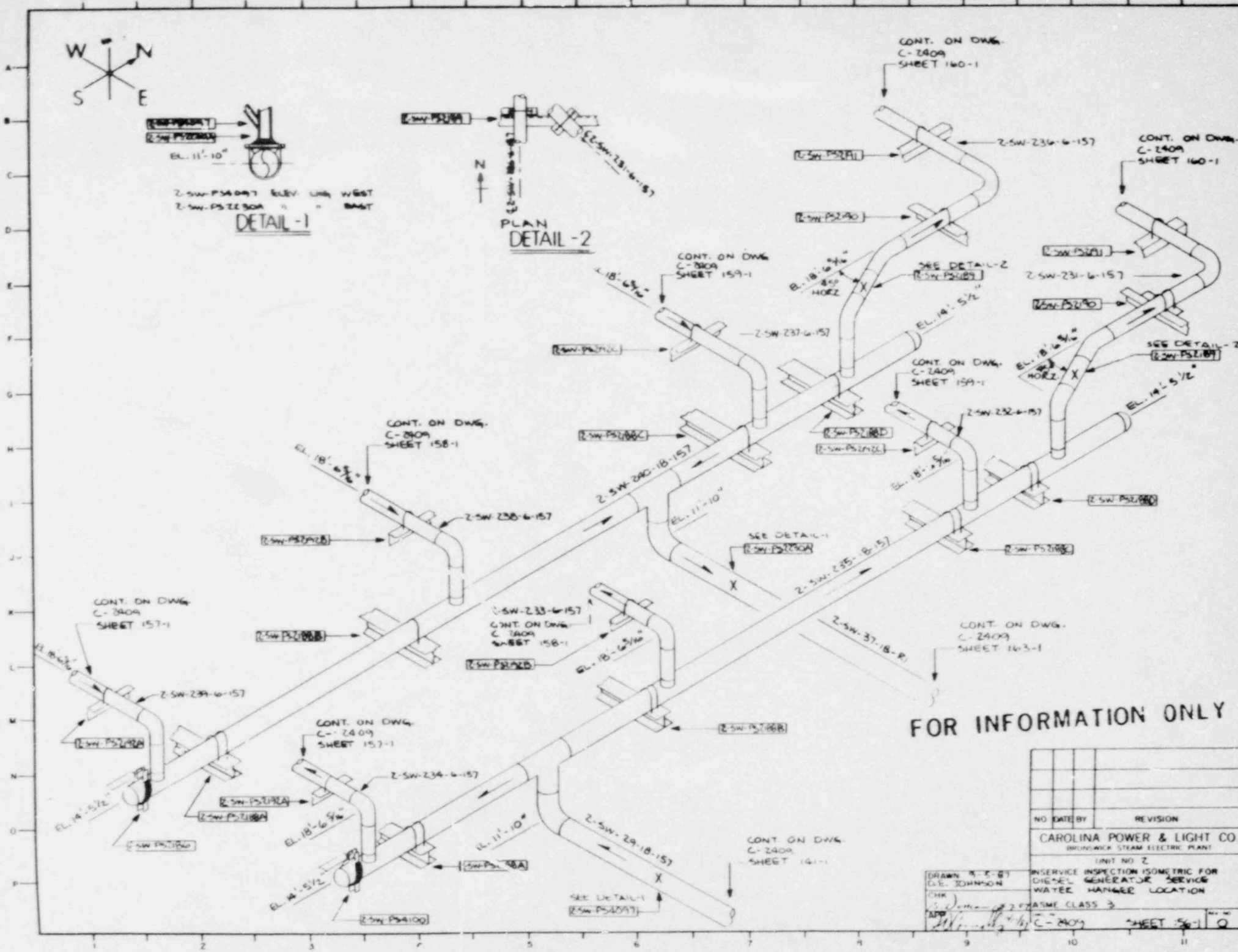


Z-SW-PS4007 ELEV. UNB. WEST
Z-SW-PS2230A " " EAST

DETAIL-1



PLAN DETAIL-2



FOR INFORMATION ONLY

NO.	DATE BY	REVISION
CAROLINA POWER & LIGHT CO BRUNSWICK STEAM ELECTRIC PLANT UNIT NO. 2 INSERVICE INSPECTION ISOMETRIC FOR DIESEL GENERATOR SERVICE WATER MANGER LOCATION ASME CLASS 3 C-2409 SHEET 56-1		

DRAWN BY: E. BT
 C.E. JOHNSON
 CHK: J.S. JOHNSON
 APP: J.S. JOHNSON
 C-2409 SHEET 56-1

CONT. ON DWG. C-2409 SHEET 141-1

SEE DETAIL-1 [Z-SW-PS4007]

CONT. ON DWG. C-2409 SHEET 160-1

CONT. ON DWG. C-2409 SHEET 160-1

CONT. ON DWG. C-2409 SHEET 159-1

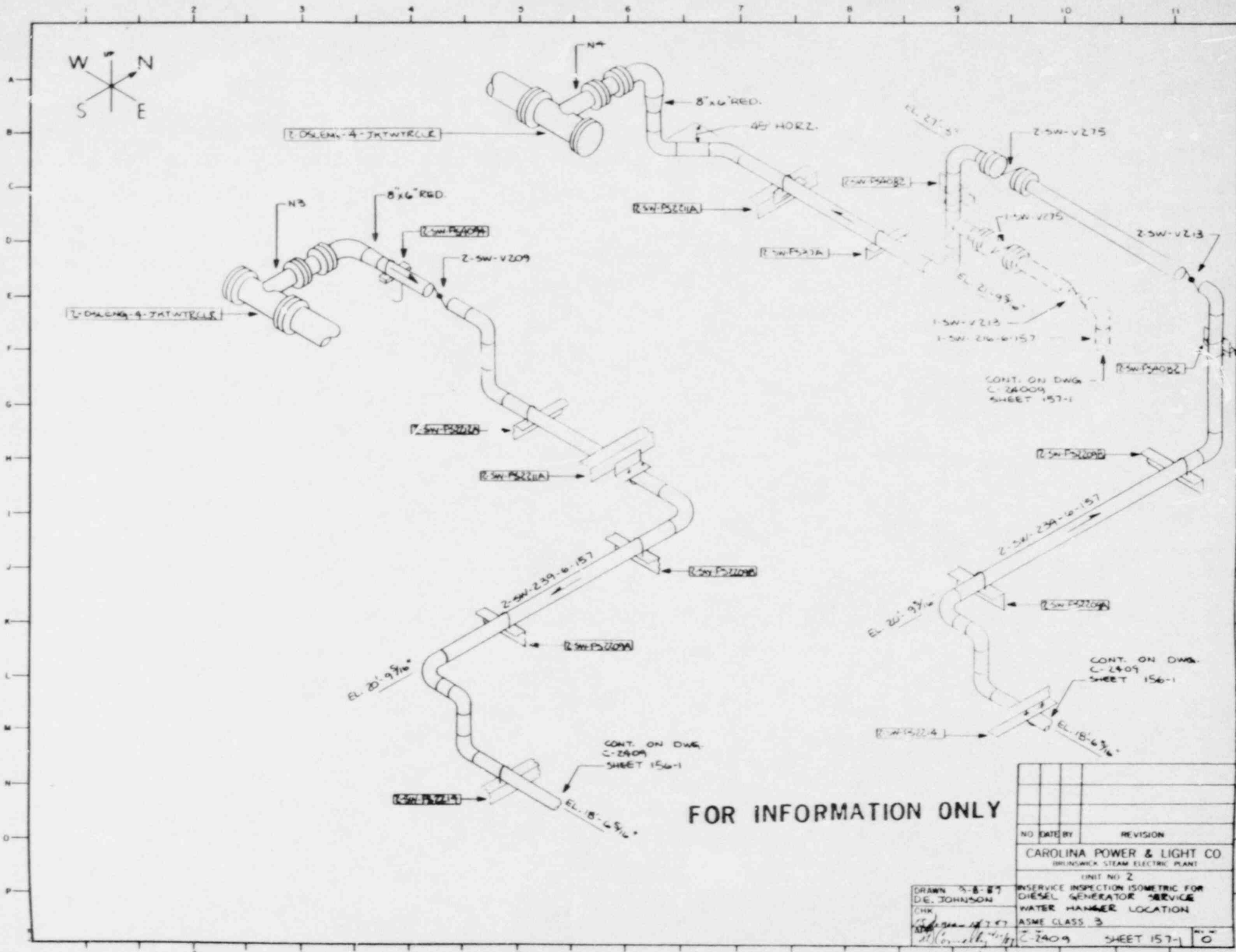
CONT. ON DWG. C-2409 SHEET 159-1

CONT. ON DWG. C-2409 SHEET 158-1

CONT. ON DWG. C-2409 SHEET 157-1

CONT. ON DWG. C-2409 SHEET 157-1

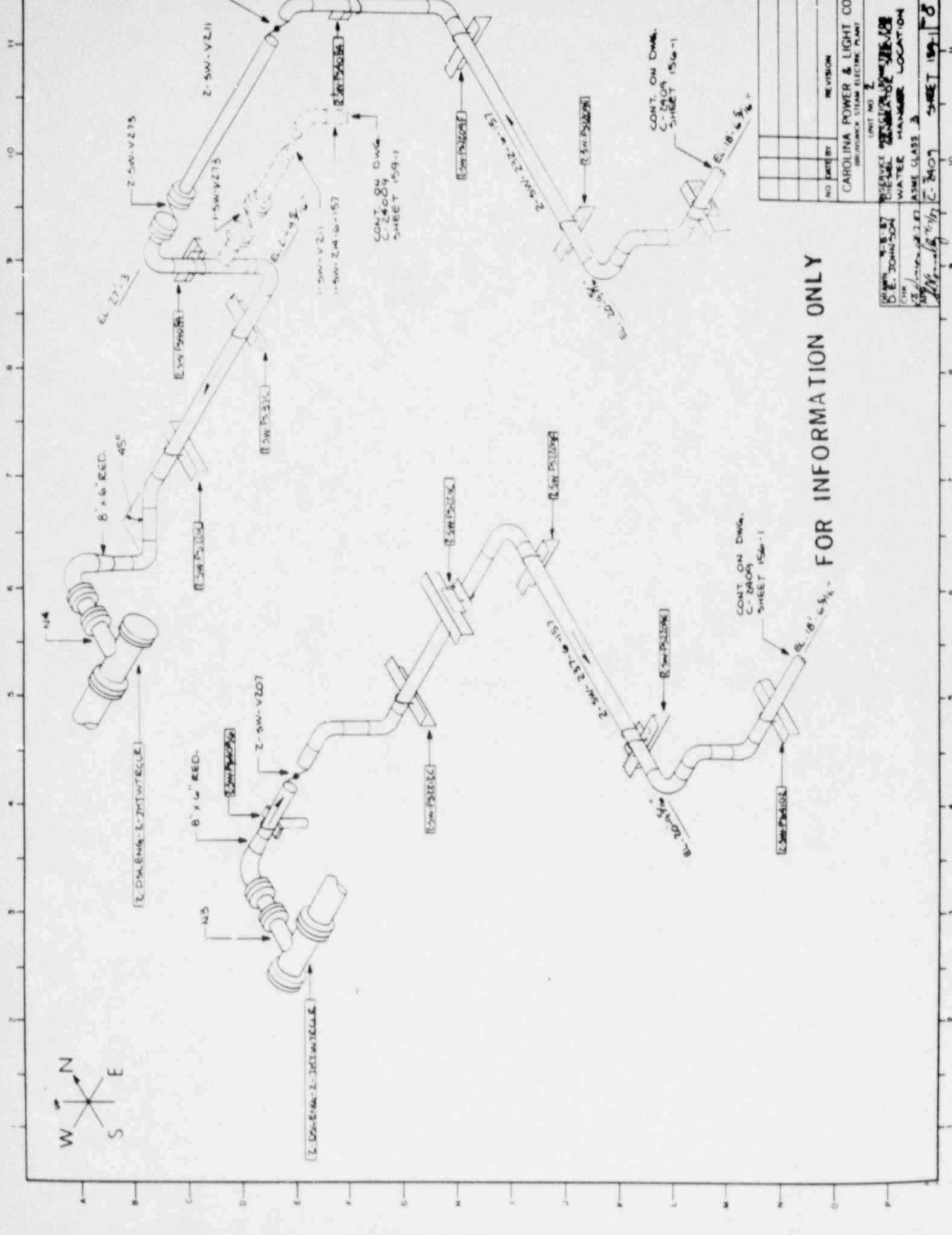
CONT. ON DWG. C-2409 SHEET 163-1



FOR INFORMATION ONLY

NO	DATE	BY	REVISION
CAROLINA POWER & LIGHT CO. BRUNSWICK STEAM ELECTRIC PLANT			
UNIT NO 2			
SERVICE INSPECTION ISOMETRIC FOR DIESEL GENERATOR SERVICE WATER HANGER LOCATION			
ASME CLASS 3			
DRAWN 5-8-87 D.E. JOHNSON CHK 15-1-88 11/1/87			C-2409 SHEET 157-1

DRAWN 5-8-87
D.E. JOHNSON
CHK
15-1-88
11/1/87



FOR INFORMATION ONLY

NO.	DATE BY	REVISION

CAROLINA POWER & LIGHT CO
 SHIPPERS STEAM ELECTRIC PLANT
 UNIT NO. 2
 DIESEL GENERATOR SERVICE
 WATER HEATER LOCATION
 ASME CLASS 3
 C-2409
 SHEET 159-1

DESIGNED BY
 E. JOHNSON
 DATE
 10/16/17
 CHECKED BY
 C. 2409

