Vogtle Electric Generating Plant
Units 1 and 2
Inservice Inspection Plan for Class 1, 2, and 3 Figures for Vogtle-1
Third Inspection Interval
Volume 7

Volume 7 Contents:
Equipment Drawings
Isometric Drawings
P&ID Listing

Vogtle Site approval is not needed for this document.

VOGTLE UNIT 1 THIRD INTERVAL EXAMINATION PLAN
VOLUME 7
CLASS, 1, 2, AND 3 COMPONENT ISI DRAWINGS

DISTRIBUTION

Manual Number	Manual Holder
1	Document Control QA Record

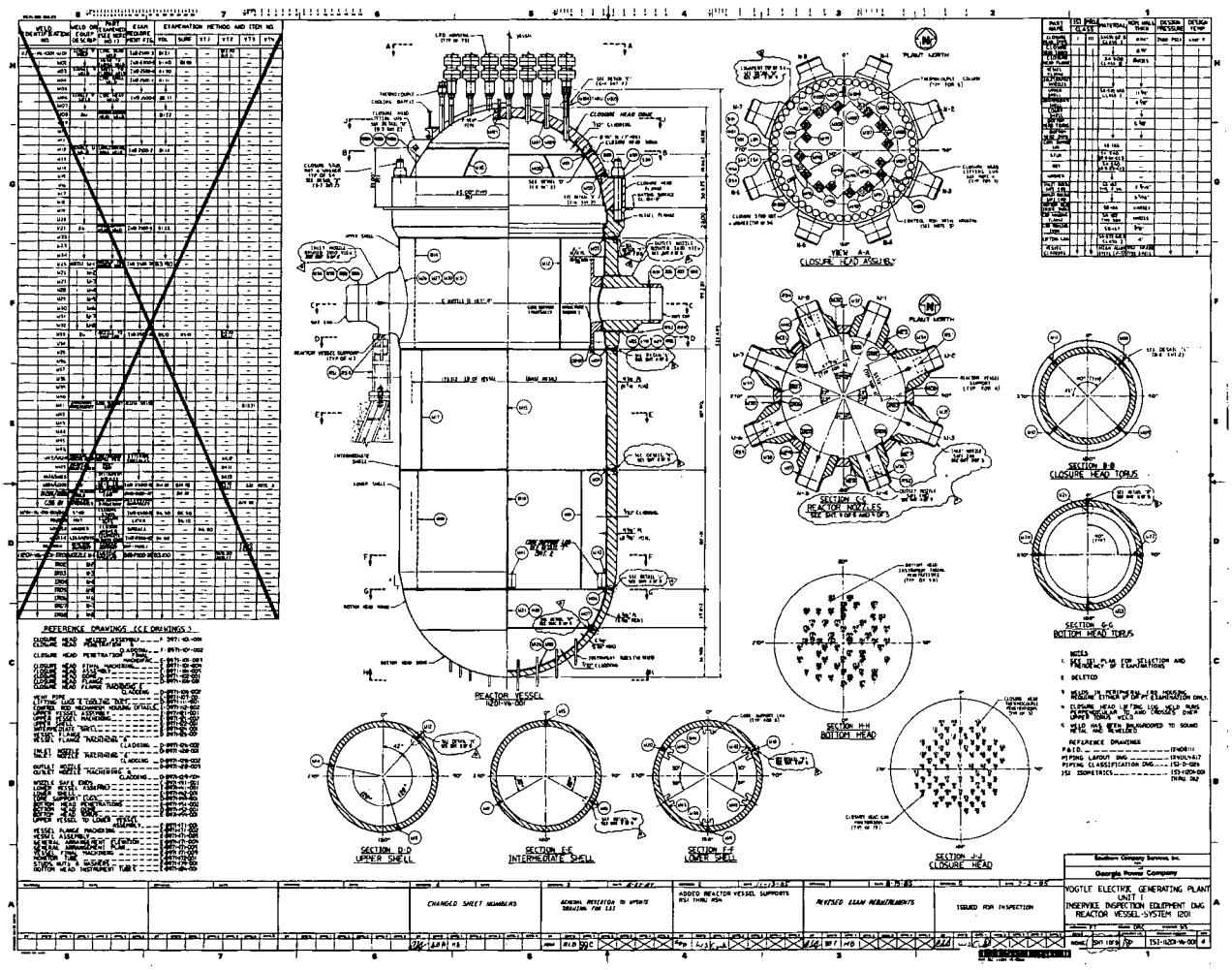
EQUIPMENT DRAWINGS

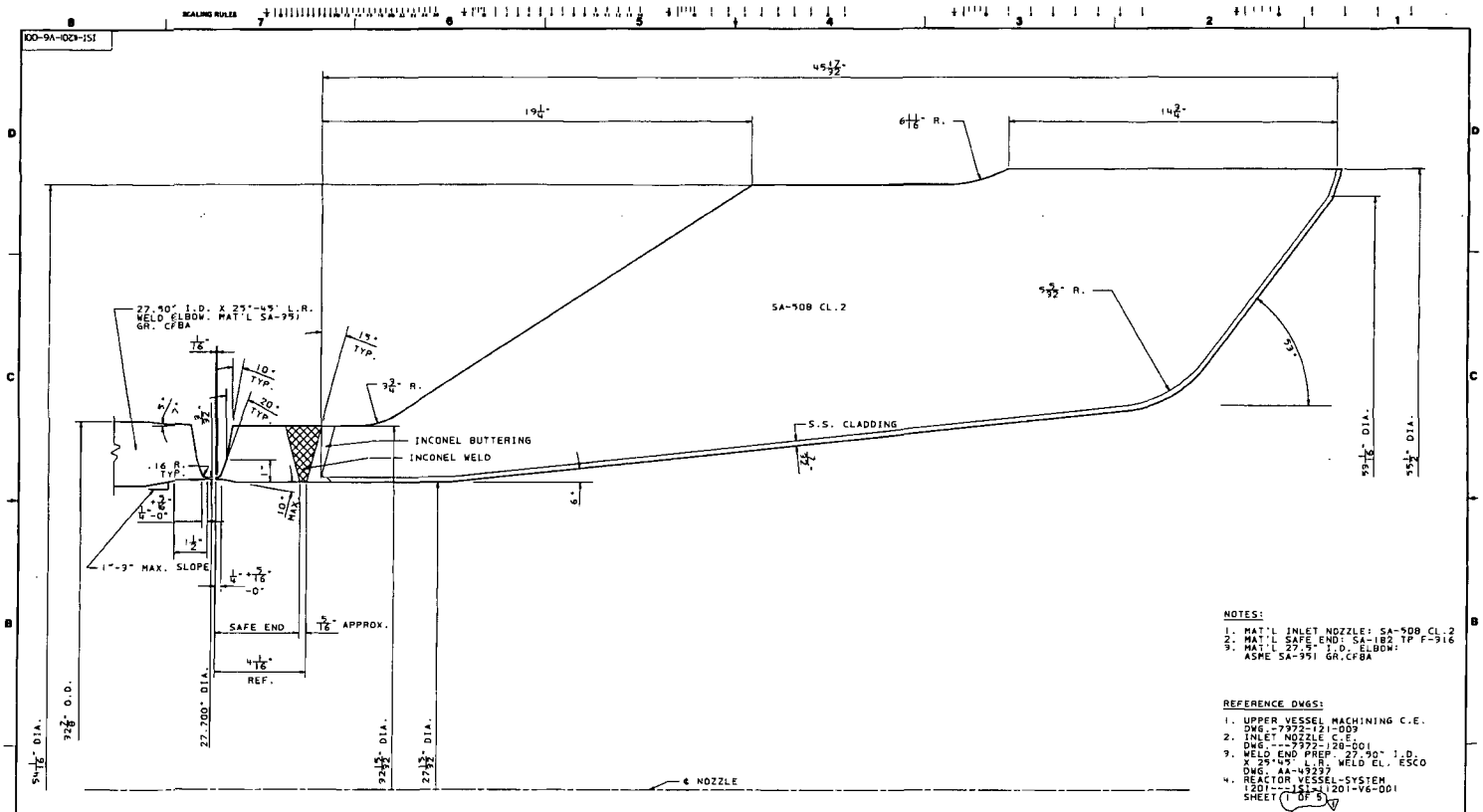
The drawings listed in this section represent Class 1, 2, and 3 equipment included in the ISI scope. These drawings give the identification number and location of welds, supports, and other items that require examination. The drawings are intended for ISI use only and should not be confused with design drawings. These drawings are available on aperture cards located in Document Control at both the VEGP Site and SNC Birmingham.

The following is a listing of the applicable systems and their drawing numbers.

System	Drawing Number	Revision
Reactor Coolant	ISI-11201-V6-001 (sh. 1)	4
	ISI-11201-V6-001 (sh. 2)	1
	ISI-11201-V6-001 (sh. 3)	1
	ISI-11201-V6-001 (sh. 4)	1
	ISI-11201-V6-001 (sh. 5)	1
	ISI-11201-V6-002 (sh. 1)	2
	ISI-11201-V6-002 (sh. 2)	0
	ISI-11201-V6-002 (sh. 3)	1
	ISI-11201-V6-002 (sh. 4)	0
	ISI-11201-B6-001 (sh. 1)	4
	ISI-11201-B6-001 (sh. 2)	1
	ISI-11201-B6-001 (sh. 3)	0
	ISI-11201-B6-001 (sh. 4)	0
	ISI-11201-B6-002 (sh. 1)	4
	ISI-11201-B6-002 (sh. 2)	2
	ISI-11201-B6-002 (sh. 3)	0
	ISI-11201-B6-002 (sh. 4)	0
	ISI-11201-B6-003 (sh. 1)	4
	ISI-11201-B6-003 (sh. 2)	2
	ISI-11201-B6-003 (sh. 3)	0
	ISI-11201-B6-003 (sh. 4)	0
	ISI-11201-B6-004 (sh. 1)	4
	ISI-11201-B6-004 (sh. 2)	2
	ISI-11201-B6-004 (sh. 3)	0
	ISI-11201-B6-004 (sh. 4)	0
	ISI-11201-P6-001	3
	ISI-11201-P6-002	3
	ISI-11201-P6-003	3
	ISI-11201-P6-004	3
Nuclear Service Cooling Water	ISI-11202-P4-001	0
	ISI-11202-P4-007	0

System	Drawing Number	Revision
Component Cooling Water	ISI-11203-E4-001	0
	ISI-11203-P4-001	0
	ISI-11203-T4-001	0
Safety Injection	ISI-11204-P6-003	1
	ISI-11204-P6-004	2
	ISI-11204-V6-001	0
Residual Heat Removal	ISI-11205-P6-001	0
	ISI-11205-P6-002	0
	ISI-11205-E6-001 (sh. 1)	3
	ISI-11205-E6-001 (sh. 2)	0
	ISI-11205-E6-002 (sh. 1)	3
	ISI-11205-E6-002 (sh. 2)	0
Chemical and Volume Control	ISI-11208-P6-002	1
	ISI-11208-P6-003	1
	ISI-11208-P6-006	0
	ISI-11208-E6-001	1
	ISI-11208-E6-002	1
	ISI-11208-E6-003	1
	ISI-11208-E6-007	2
	ISI-11208-F6-003	0
Spent Fuel Pool Cooling and Purification	ISI-11213-E6-001	0
	ISI-11213-P6-002	0
Auxiliary Feedwater	ISI-11302-P4-001	0
	ISI-11302-P4-002	0
Safety Related (ESF) Chillers	ISI-11592-P7-001	0
	ISI-11592-T7-001	0


REACTOR VESSEL
VIEW A-A
CLOSURE HEAD ASSEMBLY
SECTION C-C
REACTOR VESSEL
SECTION B-B
CLOSURE HEAD TORUS
SECTION G-G
BOTTOM HEAD TORUS
SECTION H-H
BOTTOM HEAD
SECTION D-D
UPPER SHELL
SECTION E-E
INTERMEDIATE SHELL
SECTION F-F
LOWER SHELL
SECTION J-J
CLOSURE HEAD
REFERENCE DRAWINGS (CE DRAWINGS)
NOTES
REFERENCE DRAWINGS
Southern Company Services, Inc.
Georgia Power Company
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1
INSERVICE INSPECTION EQUIPMENT DWG
REACTOR VESSEL-SYSTEM 1201
CHANGED SHEET NUMBERS
ADDED REACTOR VESSEL SUPPORTS
REVISED EXAM REQUIREMENTS
ISSUED FOR INSPECTION



NOTES:

1. MAT'L INLET NOZZLE: SA-508 CL.2
2. MAT'L SAFE END: SA-182 TP F-916
3. MAT'L 27.5" I.D. ELBOW: ASME SA-351 GR.CFBA

REFERENCE DWGS:

1. UPPER VESSEL MACHINING C.E. DWG.-7972-121-009
2. INLET NOZZLE C.E. DWG.---7972-120-001
3. WELD END PREP. 27.90" I.D. X 25°45' L.R. WELD EL. ESCO DWG. AA-49297
4. REACTOR VESSEL-SYSTEM 1201---1S1-1201-V6-001 SHEET 1 OF 5

Southern Company Services, Inc.

GEORGIA POWER COMPANY

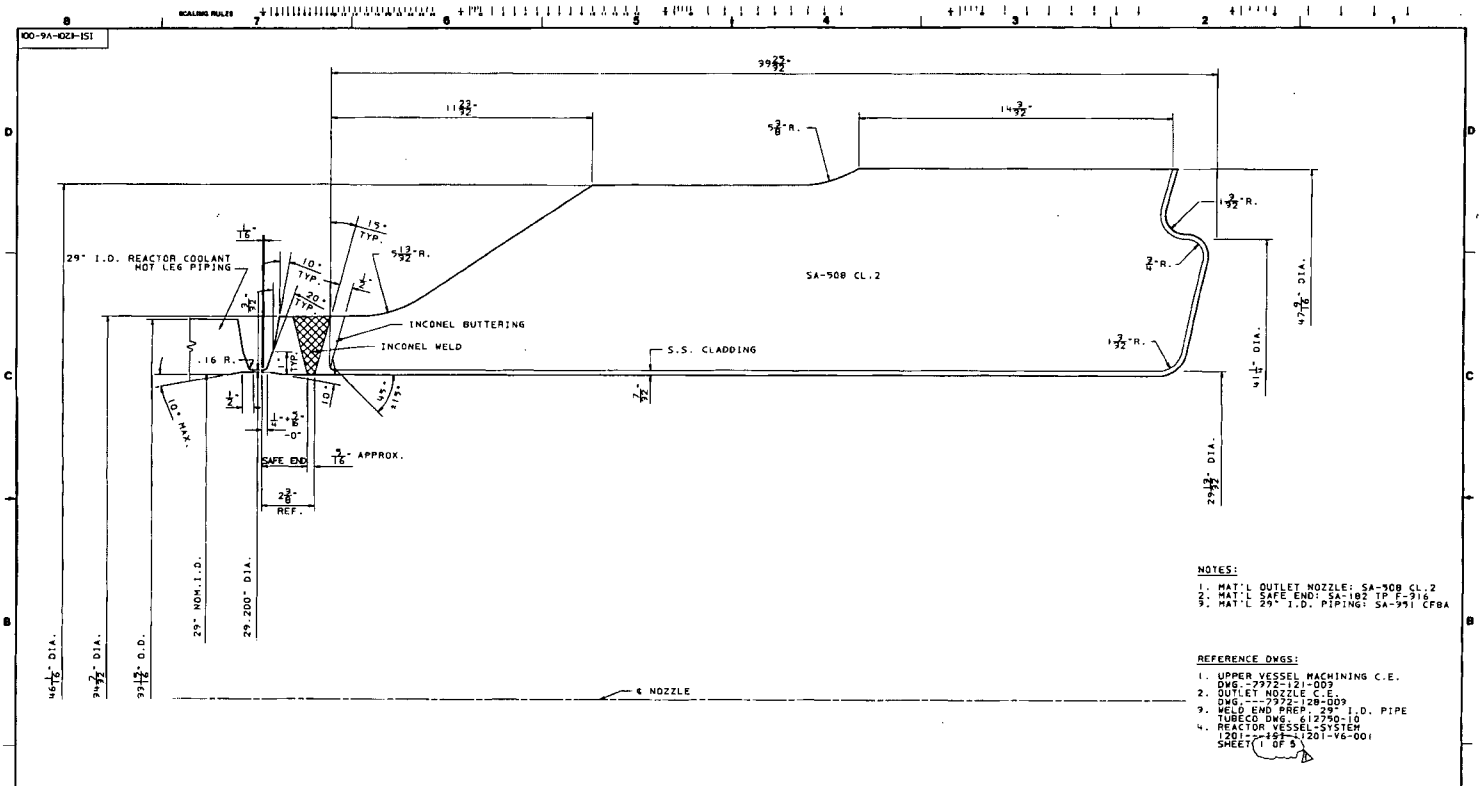
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 & 2
R.V. INLET NOZZLE AND SAFE END
WELD END PREPARATION

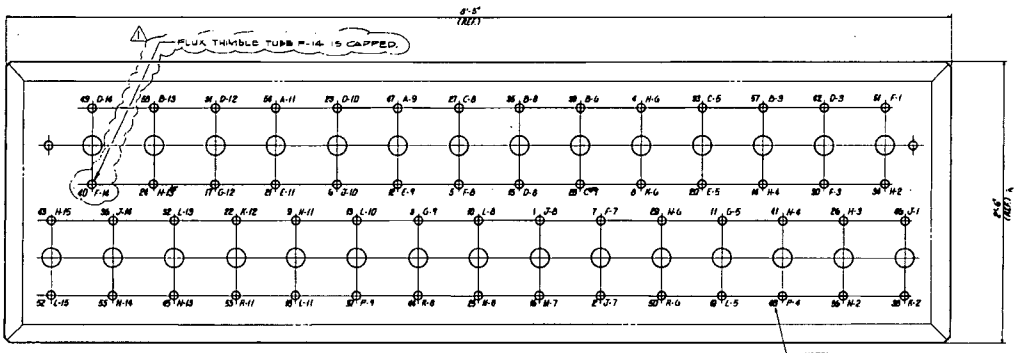
REVISION	DATE	
1		CHANGE SHEET NUMBERS
0	2-2-81	ISSUED FOR INSPECTION

DESIGNED WE | DRAWN KWA | CHECKED WS

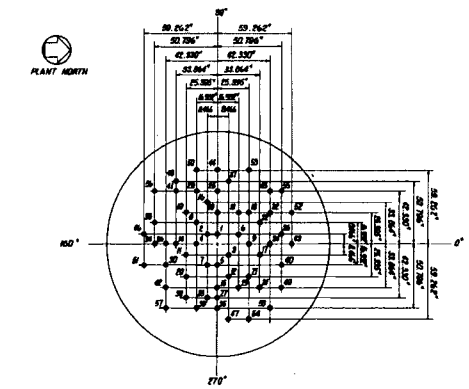
SCALE HALF | PROJECT I & | DRAWING NUMBER 1S1-1201-V6-001 | REV 1

SHT 3 OF 5


ISI-V6-001
SCALING RULES
29" I.D. REACTOR COOLANT HOT LEG PIPING
INCONEL BUTTERING
INCONEL WELD
S.S. CLADDING
SA-508 CL.2
SAFE END
REF.
APPROX.
.16 R.
10° MAX.
29" NOM.I.D.
29.200" DIA.
℄ NOZZLE
NOTES:
1. MAT'L OUTLET NOZZLE: SA-508 CL.2
2. MAT'L SAFE END: SA-182 TP F-316
3. MAT'L 29" I.D. PIPING: SA-351 CF8A
REFERENCE DWGS:
1. UPPER VESSEL MACHINING C.E. DWG.-7972-121-003
2. OUTLET NOZZLE C.E. DWG.-7972-128-003
3. WELD END PREP. 29" I.D. PIPE TUBECO DWG. 612750-10
4. REACTOR VESSEL-SYSTEM 1201-V6-001
SHEET 1 OF 5
Southern Company Services, Inc.
GEORGIA POWER COMPANY
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 & 2
R.V. OUTLET NOZZLE AND SAFE END WELD END PREPARATION
CHANGED SHEET NUMBERS
ISSUED FOR INSPECTION
HALF
ISI-1201-V6-001
1



PLAN-THIMBLE SEAL TABLE
NO SCALE



BOTTOM VIEW OF REACTOR VESSEL BOTTOM HEAD PENETRATIONS FOR IN-CORE INSTRUMENTATION
NO SCALE

NOTES

1. THE INCORE FLUX THIMBLE TUBE PHYSICAL PROPERTIES ARE AS FOLLOWS:

AMOUNT OF TUBES:	58
MAT'L OF TUBES:	316 S.S.
I.D. OF TUBES:	.210"
O.D. OF TUBES:	.313"
WALL THICKNESS:	.095" +.005" -.000"

2. THE NUMBERS ON THE THIMBLE SEAL TABLE CORRESPOND TO THE NUMBERS ON THE REACTOR VESSEL BOTTOM HEAD INCORE INSTRUMENTATION PENETRATIONS.
3. APPROXIMATE LENGTH OF EDDY CURRENT PROBE GUIDE CABLE REQUIRED IS 180' (FOR TESTING FLUX THIMBLE TUBE WALL THICKNESS)

REFERENCE DRAWINGS

1. TABLE ASSEMBLY THIMBLE SEAL _____ 1X6A808-4-1
2. BOTTOM MOUNTED IN-CORE INSTRUMENTATION FLUX THIMBLE DESIGN SPECIFICATION _____ 1X6A808-16-4
3. BOTTOM HEAD PENETRATIONS (WESTINGHOUSE) ____ 7372-151-002
4. BOTTOM MOUNTED INSTRUMENTATION _____ 1X6A-808-54-8 FIELD ASSEMBLY
5. BOTTOM MOUNTED INSTRUMENTATION _____ 1X6A-808-56-7
6. BOTTOM MOUNTED INSTRUMENTATION _____ 1X6A-808-58-7

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 1	DATE 12-3-92	REVISION 0	DATE 05-31-88
								FLUX THIMBLE TUBE F-14 HAS BEEN CAPPED DUE TO WALL THINNING PER PCN M2-012.		ISSUED FOR APPROVAL	

BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5
																					WS	CWB	DFL											

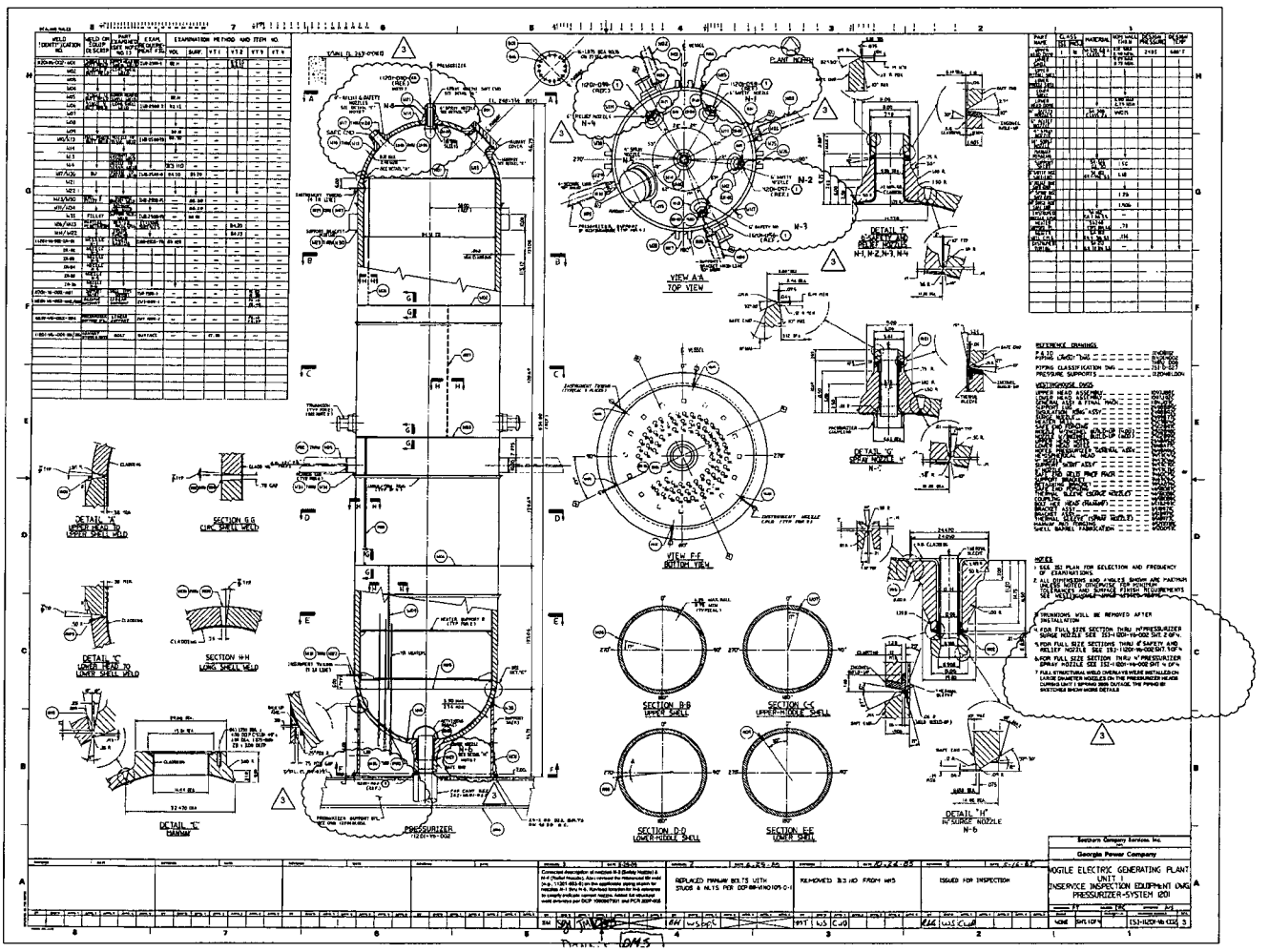
Southern Company Services, Inc.

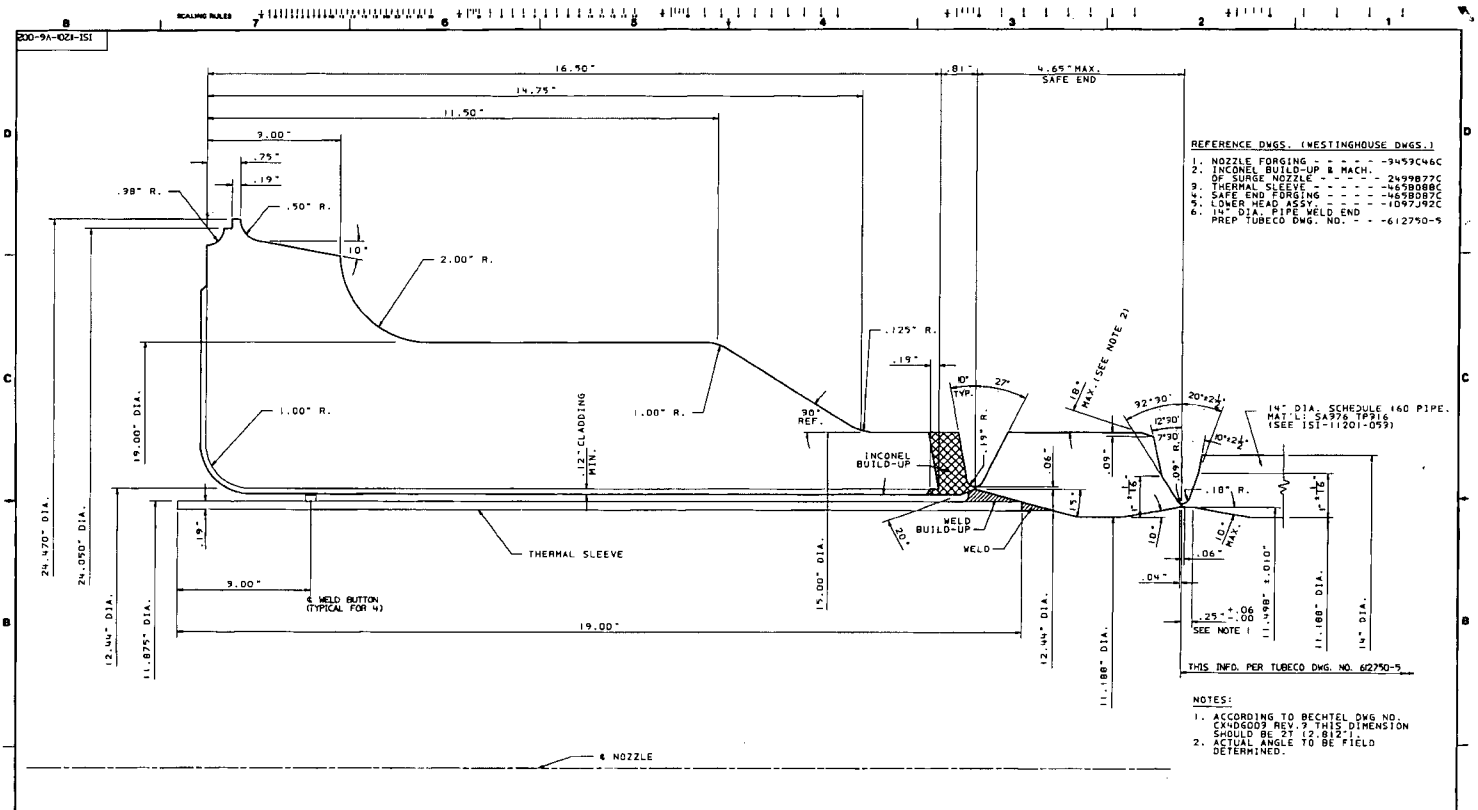
GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1
INCORE FLUX THIMBLE TUBE SEAL TABLE AND REACTOR PENETRATIONS

DESIGNED	DRAWN	CHECKED
W	CSB	WJS

SCALE	PROJECT - D	DRAWING NUMBER	REV
NONE	SWT.5815	1X6A-H201-V6-801	1


VIEW A-A
TOP VIEW
VIEW F-F
BOTTOM VIEW
DETAIL "A"
UPPER SEAM TO
LOWER SHELL WELD
SECTION E-E
LONG SHELL WELD
DETAIL "B"
LOWER SEAM TO
LOWER SHELL WELD
SECTION H-H
LONG SHELL WELD
DETAIL "C"
MANWAY
PRESSURIZER
SECTION B-B
UPPER SHELL
SECTION C-C
UPPER-MIDDLE SHELL
SECTION D-D
LOWER-MIDDLE SHELL
SECTION E-E
LOWER SHELL
DETAIL "F"
N-1, N-2, N-3, N-4
DETAIL "G"
SPRAY NOZZLE
N-5
DETAIL "H"
SURGE NOZZLE
N-6
REFERENCE DRAWINGS
WESTINGHOUSE DWGS
NOTES
Georgia Power Company
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1
INSERVICE INSPECTION EQUIPMENT DWG
PRESSURIZER-SYSTEM 1201
REPLACED TRANSIN 883.75 WITH
STUDS & NUTS PER DCP-88-MN0105-01
REMOVED 883 MD FROM MHS
ISSUED FOR INSPECTION



REFERENCE DWGS. (WESTINGHOUSE DWGS.)

1. NOZZLE FORGING - - - - - -9459C46C
2. INCONEL BUILD-UP & MACH. OF SURGE NOZZLE - - - - - - 2499877C
3. THERMAL SLEEVE - - - - - -4658088C
4. SAFE END FORGING - - - - -4658087C
5. LOWER HEAD ASSY. - - - - -1097J92C
6. 14" DIA. PIPE WELD END PREP TUBECO DWG. NO. - - -612750-5

NOTES:

1. ACCORDING TO BECHTEL DWG NO. CX406009 REV. 9 THIS DIMENSION SHOULD BE 27 (2.812").
2. ACTUAL ANGLE TO BE FIELD DETERMINED.

Southern Company Services, Inc.

GEORGIA POWER COMPANY

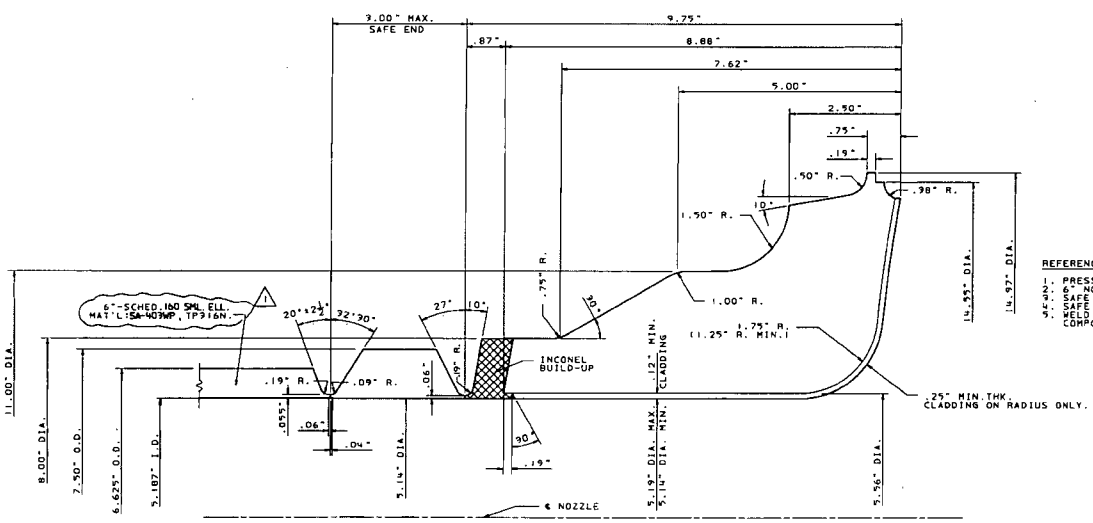
VOGTLE ELECTRIC GENERATING PLANT UNIT 1 & 2
SECTION - 14" PRESSURIZER SURGE NOZZLE

REVISION	DATE
0	5-22-85

ISSUED FOR INSPECTION

DESIGNED KEC DRAWN KWA CHECKED WS

SCALE FULL SHEET 1 OF 1 PROJECT: 0 DRAWING NUMBER 151-1201-V6-002 REV. 0



REFERENCE DWGS. (WESTINGHOUSE)

1. PRESSURIZER - 6" NOZZLE FORGING - - - 3453C76C
2. 6" NOZZLE WITH INCONEL BUILD-UP - - - 2502B99C
3. SAFE END FORGING - - - - - - - - - 2902B97C
4. SAFE END WELD PREPRATION MACHINING - 3460C79C
5. WELD END PREP. FOR S.S. PIPING COMPONENTS BECHTEL DRAWING - - - - - CX4DG005 REV.3

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 1	DATE 10-3-85	REVISION 0	DATE 5-22-85
								REVISED MATERIAL SPEC. REMOVED NOTE 1		ISSUED FOR INSPECTION	

BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5
														BST	WS	CWR					KWA	WS	CWR											

Southern Company Services, Inc.

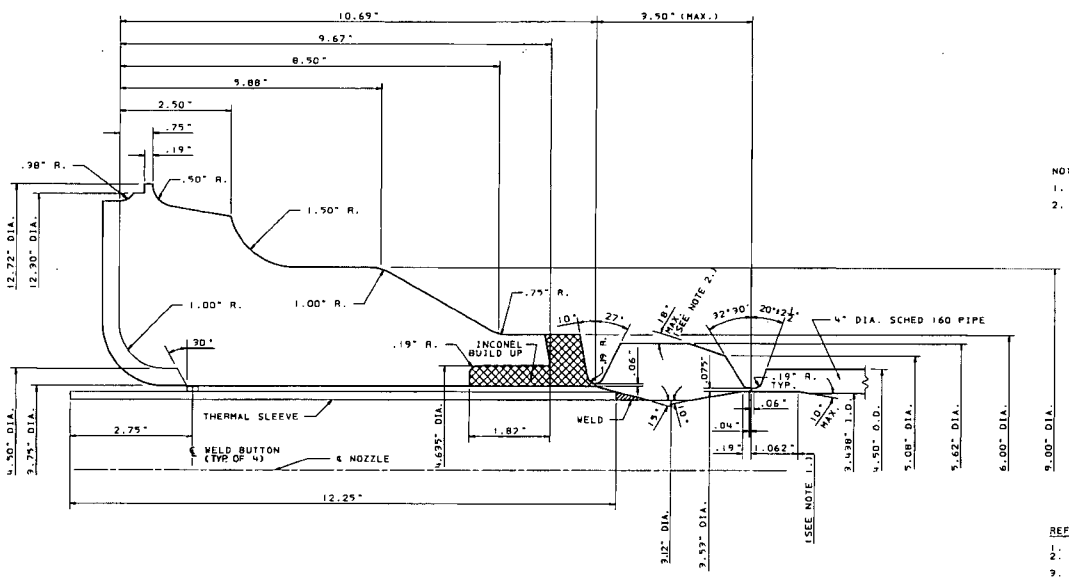
GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT UNIT 1

SECTION - 6" PRESSURIZER SAFETY & RELIEF NOZZLE

DRAWN KWA

SCALE FULL | SHEET 3 OF 4 | PROJECT I.D. | DRAWING NUMBER 1S1-4201-V6-002 | REV 1



NOTES:

1. DIMENSION PER BECHTEL DRAWING CX4DG005 REV.3
2. ACTUAL ANGLE SHOULD BE FIELD DETERMINED.

REFERENCE DWGS. (WESTINGHOUSE DWGS.)

1. NOZZLE FORGING - - - - 9459C46C
2. NOZZLE WITH INCONEL BUILD-UP - - - - - - - - 2502898C
3. THERMAL SLEEVE - - - - 6918977C

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 0	DATE 5-22-85
										ISSUED FOR INSPECTION	

BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5
KWA	WJS	CWB				

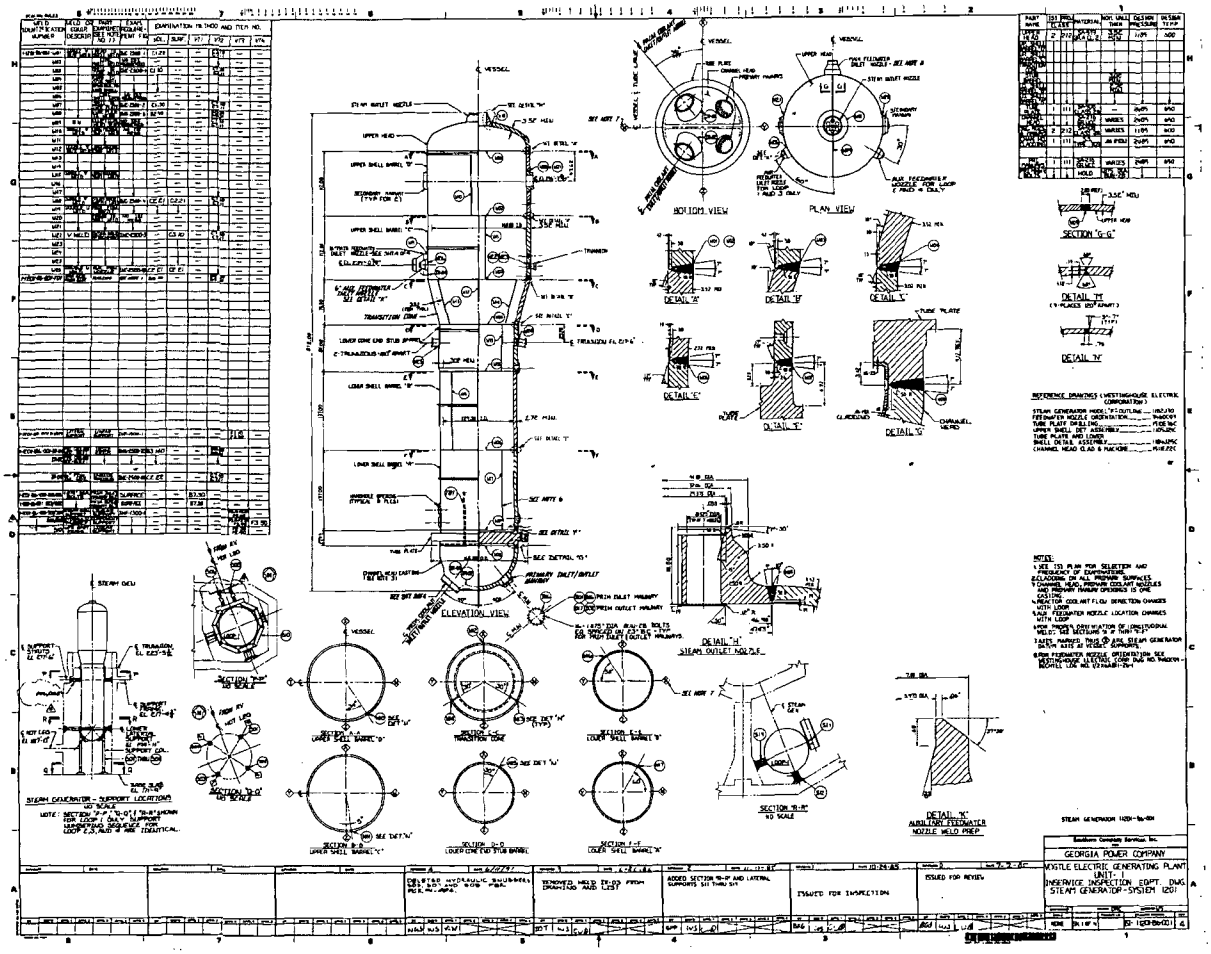
Southern Company Services, Inc.

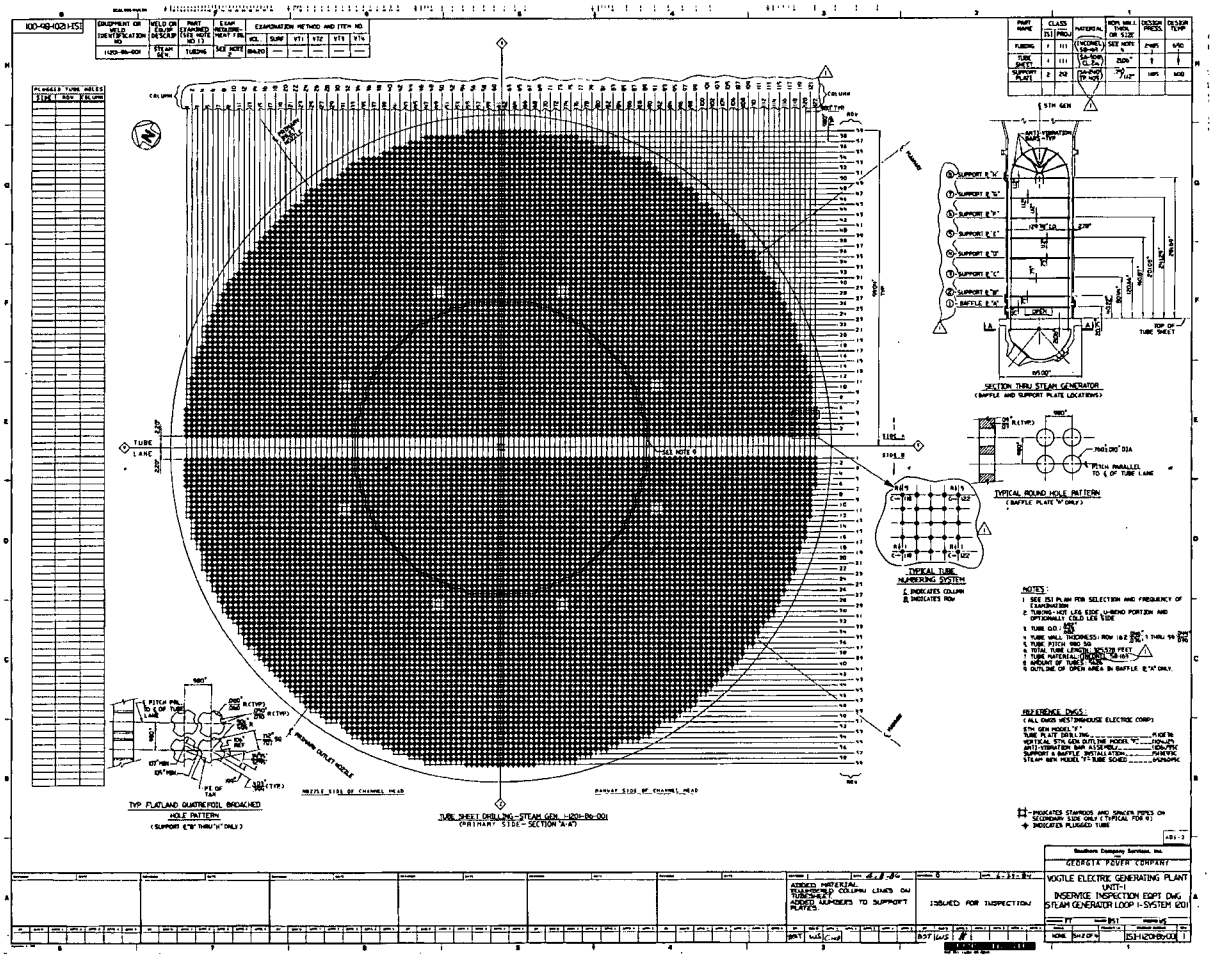
GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 & 2
SECTION - 4" PRESSURIZER SPRAY NOZZLE

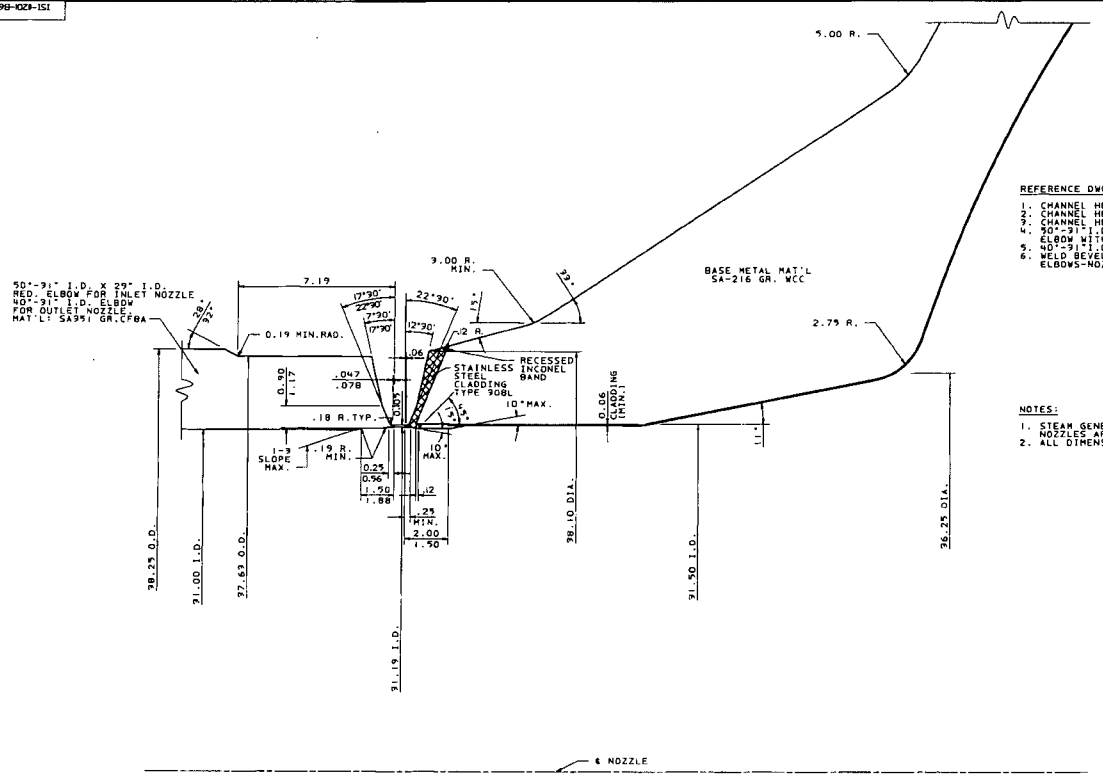
DESIGNED KC DRAWN KWA ENGINEER WS

SCALE FULL | SHEET 4 OF 4 | DRAWING NUMBER 1SI-1201-V6-002 | REV 0


ELEVATION VIEW
PLAN VIEW
BOTTOM VIEW
DETAIL "A"
DETAIL "B"
DETAIL "C"
DETAIL "D"
DETAIL "E"
DETAIL "F"
DETAIL "G"
DETAIL "H"
STEAM OUTLET NOZZLE
SECTION "G-G"
DETAIL "M"
DETAIL "N"
DETAIL "K"
AUXILIARY FEEDWATER NOZZLE WELD PREP
STEAM GENERATOR - SUPPORT LOCATIONS
GEORGIA POWER COMPANY
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1
INSERVICE INSPECTION EQPT. DWG.
STEAM GENERATOR-SYSTEM 1201
ISSUED FOR INSPECTION
ISSUED FOR REVIEW


SECTION THRU STEAM GENERATOR
(BAFFLE AND SUPPORT PLATE LOCATIONS)
TYPICAL ROUND HOLE PATTERN
(BAFFLE PLATE "H" ONLY)
TYPICAL TUBE NUMBERING SYSTEM
TYP FLATLAND QUATREFOIL BROACHED HOLE PATTERN
(SUPPORT 2"B" THRU "H" ONLY)
TUBE SHEET DRILLING-STEAM GEN. 1201-B6-001
(PRIMARY SIDE-SECTION "A-A")
NOTES:
REFERENCE DWGS:
VOGTLE ELECTRIC GENERATING PLANT
UNIT-1
INSERVICE INSPECTION EQPT DWG
STEAM GENERATOR LOOP 1-SYSTEM 201
ISSUED FOR INSPECTION
GEORGIA POWER COMPANY

100-96-1028-1S1



REFERENCE DWGS. (WESTINGHOUSE DWGS)

1. CHANNEL HEAD CASTING - - - - - - - - 6329D03C
2. CHANNEL HEAD CLAD & MACHINE - - - -1511E22CSHT.1
3. CHANNEL HEAD CLAD & MACHINE - - - -1511E22CSHT.2
4. 50"-31" I.D. X 29" I.D. REDUCING ELBOW WITH TANGENT - - - - - - - - - AD-215501(ESCO)
5. 40"-31" I.D. LR. WELD ELBOW - - - - AD-229201(ESCO)
6. WELD BEVEL DETAIL FOR 31" I.D. ELBOWS-NOZZLE ENDS - - - - - - - - AA-49294(ESCO)

NOTES:

1. STEAM GENERATOR PRIMARY INLET AND OUTLET NOZZLES ARE IDENTICAL.
2. ALL DIMENSIONS ARE IN INCHES.

STEAM GENERATOR 11201-B6-001

Southern Company Services, Inc.

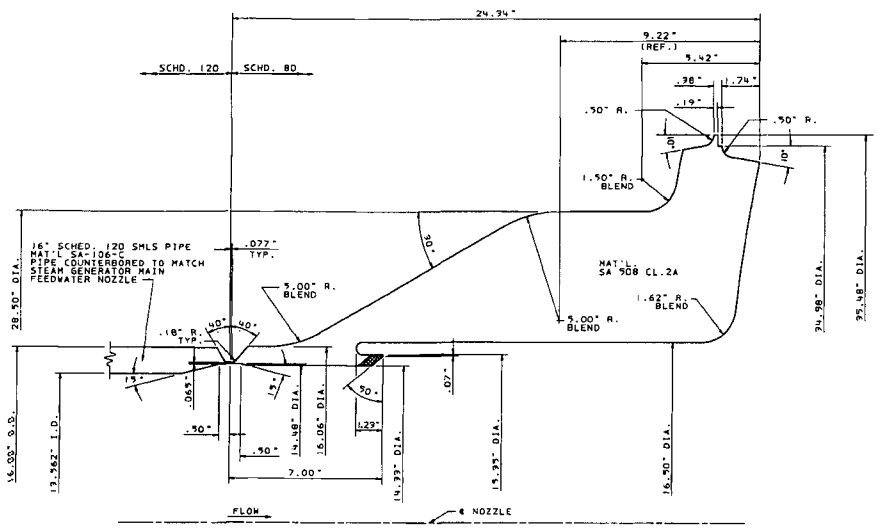
GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT - 1
SECTION THRU STEAM GENERATOR
PRIMARY INLET AND OUTLET
COOLANT NOZZLE - SYSTEM 201

REVISION 0 DATE 6-18-85
ISSUED FOR INSPECTION

DRAWN KWA CHKD KS
SCALE HALF SHEET 2 OF 4
1S1-1201-B6-001 0

100-98-1024-151



REFERENCE DRAWINGS (WESTINGHOUSE DWGS)

1. STEAM GENERATOR MODEL "F" - - - - - - - - - - 1513E42
2. FEEDWATER NOZZLE FORGING - - - - - - - - - - 6524DW1C
3. FEEDWATER NOZZLE CLAD AND MACHINE. - - - 1511E66C

NOTES:

1. NOZZLE HAS BEEN FINISHED 250/ ALL OVER.

STEAM GENERATOR 1120I-B6-001

REVISION	DATE
0	6-18-85

ISSUED FOR INSPECTION

Southern Company Services, Inc.

GEORGIA POWER COMPANY

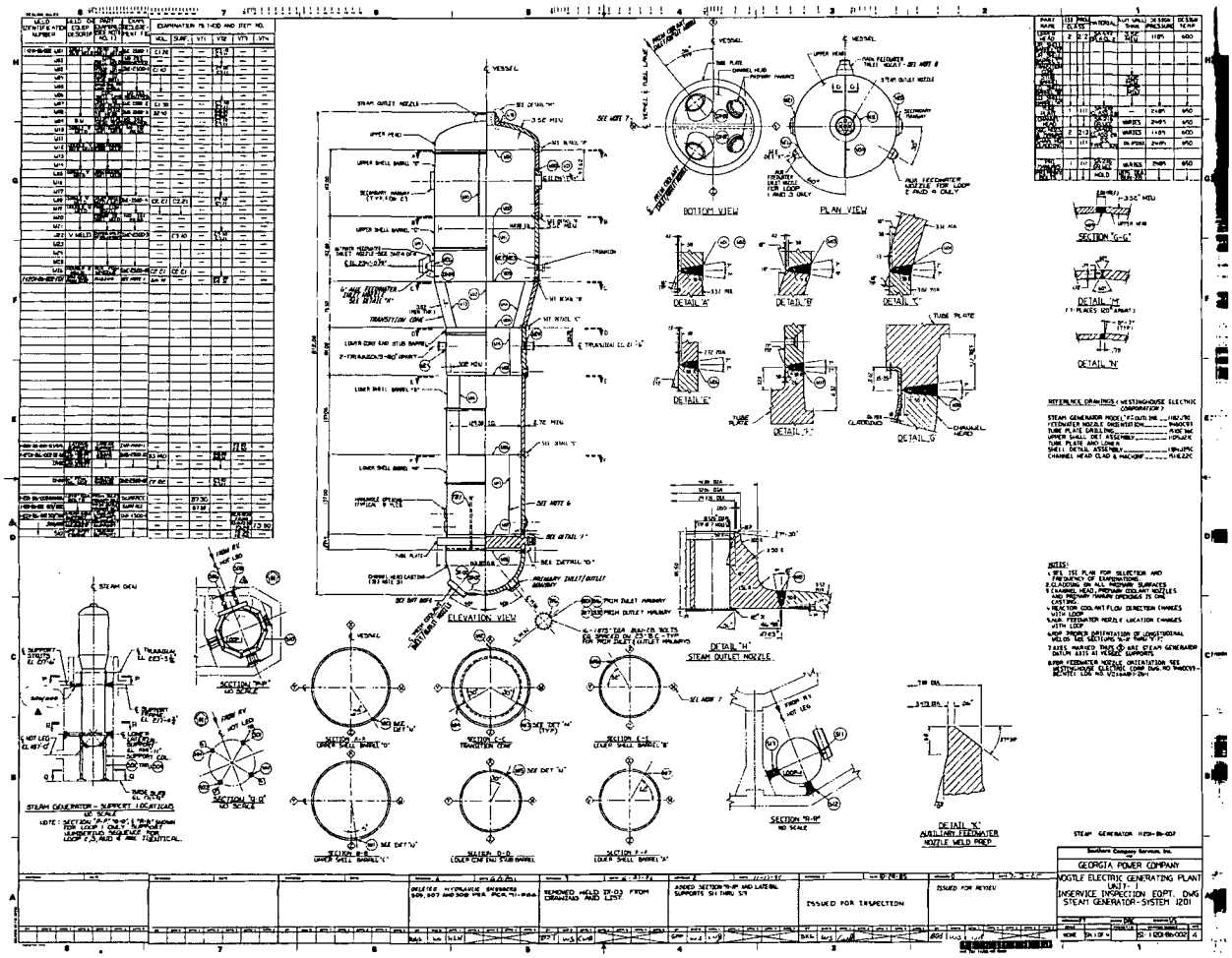
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1
STEAM GENERATOR-MAIN FEEDWATER
NOZZLE - SYSTEM 1205

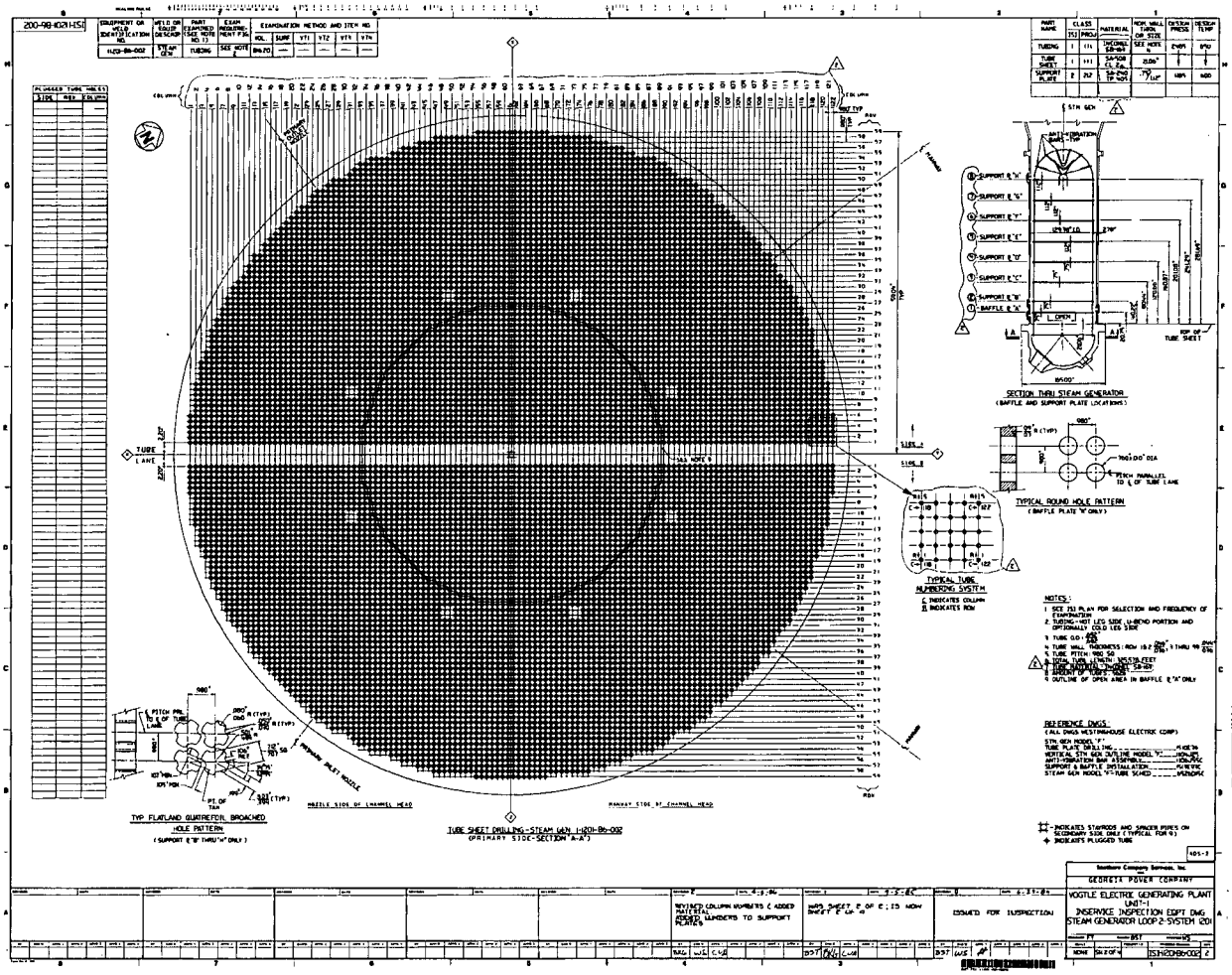
DESIGNED WEC DRAWN KWA CHECKED WS

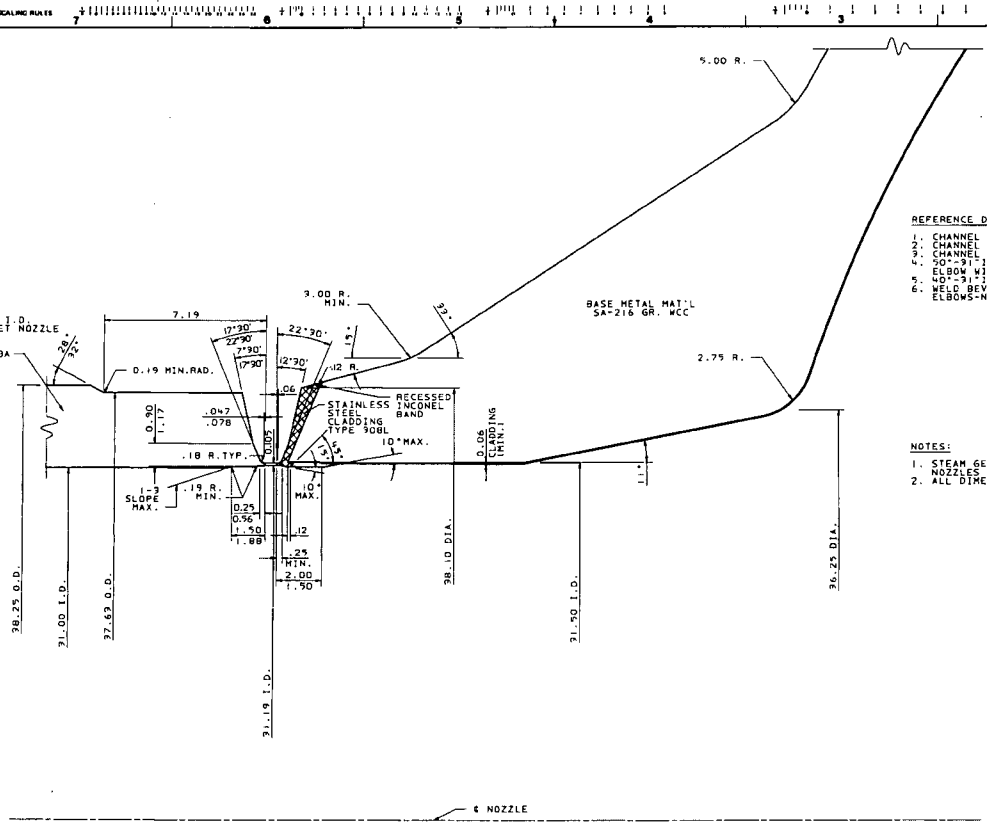
SCALE HALF SIZE SHEET 1 OF 1

DRAWING NUMBER 1511-120-B6-001 REV 0

KWA WS CUM


ELEVATION VIEW
BOTTOM VIEW
PLAN VIEW
SECTION "G-G"
DETAIL "H"
DETAIL "N"
DETAIL "A"
DETAIL "B"
DETAIL "C"
DETAIL "E"
DETAIL "F"
DETAIL "G"
DETAIL "H"
STEAM OUTLET NOZZLE
SECTION "A-A"
SECTION "B-B"
SECTION "C-C"
SECTION "D-D"
SECTION "E-E"
SECTION "F-F"
SECTION "N-N"
DETAIL "K"
AUXILIARY FEEDWATER NOZZLE WELD PREP
STEAM GENERATOR - SUPPORT LOCATIONS
GEORGIA POWER COMPANY
VOGTLE ELECTRIC GENERATING PLANT UNIT 1
INSERVICE INSPECTION EOPT DWG
STEAM GENERATOR - SYSTEM 1201
ISSUED FOR INSPECTION
ISSUED FOR REVIEW


TUBE SHEET DRILLING-STEAM GEN 1-2201-B6-002
(PRIMARY SIDE-SECTION A-A')
SECTION THRU STEAM GENERATOR
(BAFFLE AND SUPPORT PLATE LOCATIONS)
TYPICAL ROUND HOLE PATTERN
(BAFFLE PLATE "A" ONLY)
TYPICAL TUBE NUMBERING SYSTEM
TYP FLATLAND QUATREFOIL BROACHED HOLE PATTERN
(SUPPORT & "B" THRU "H" ONLY)
NOTES:
REFERENCE DWGS:
GEORGIA POWER COMPANY
VOGTLE ELECTRIC GENERATING PLANT UNIT-1
INSERVICE INSPECTION EQPT DWG
STEAM GENERATOR LOOP 2-SYSTEM 1201
ISSUED FOR INSPECTION



REFERENCE DWGS. (WESTINGHOUSE DWGS)

1. CHANNEL HEAD CASTING - - - - - - - - - 6529D09C
2. CHANNEL HEAD CLAD & MACHINE - - - - -1511E22CSHT.1
3. CHANNEL HEAD CLAD & MACHINE - - - - -1511E22CSHT.2
4. 90°-91" I.D. X 29" I.D. REDUCING ELBOW WITH TANGENT - - - - - - - - - - AD-21550(ESCO)
5. 40°-91" I.D. LR. WELD ELBOW - - - - AD-22920(ESCO)
6. WELD BEVEL DETAIL FOR 91" I.D. ELBOWS-NOZZLE ENDS - - - - - - - - - AA-49294(ESCO)

NOTES:

1. STEAM GENERATOR PRIMARY INLET AND OUTLET NOZZLES ARE IDENTICAL.
2. ALL DIMENSIONS ARE IN INCHES.

STEAM GENERATOR 11201-86-002

Southern Company Services, Inc.

GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT UNIT - 1

SECTION THRU STEAM GENERATOR PRIMARY INLET AND OUTLET COOLANT NOZZLE - SYSTEM 120

REVISION	DATE
0	6-13-75

ISSUED FOR INSPECTION

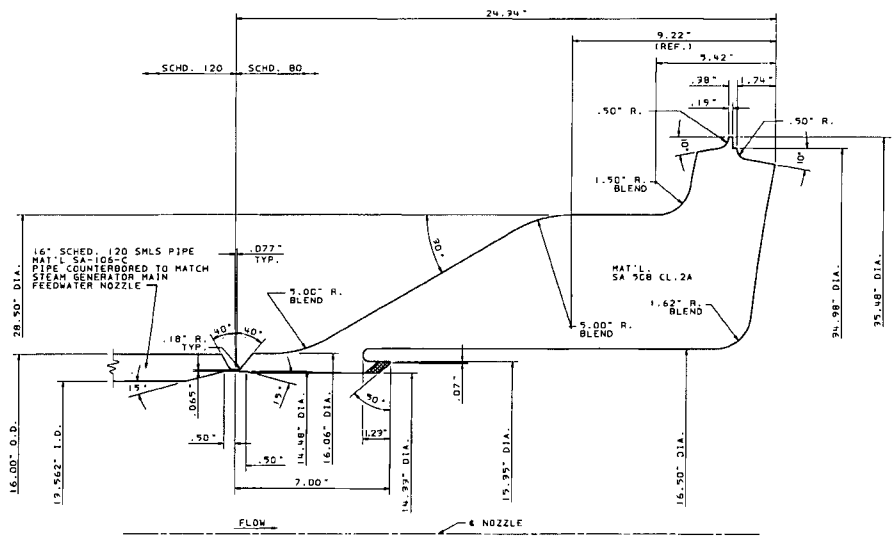
DRAWN KWA

CHECKED WS

HALF SIZE

SHEET 8 OF 4

1S1-1201-86-002 0



REFERENCE DRAWINGS (WESTINGHOUSE DWGS)

1. STEAM GENERATOR MODEL "F" - - - - - - - - - - - (519E42
2. FEEDWATER NOZZLE FORGING - - - - - - - - - - - 6524DW1C
3. FEEDWATER NOZZLE CLAD AND MACHINE. - - - - 1511E66C

NOTES:

1. NOZZLE HAS BEEN FINISHED 250/ ALL OVER.

STEAM GENERATOR 11201-B6-002

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 0	DATE 6-18-85
										ISSUED FOR INSPECTION	

BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5

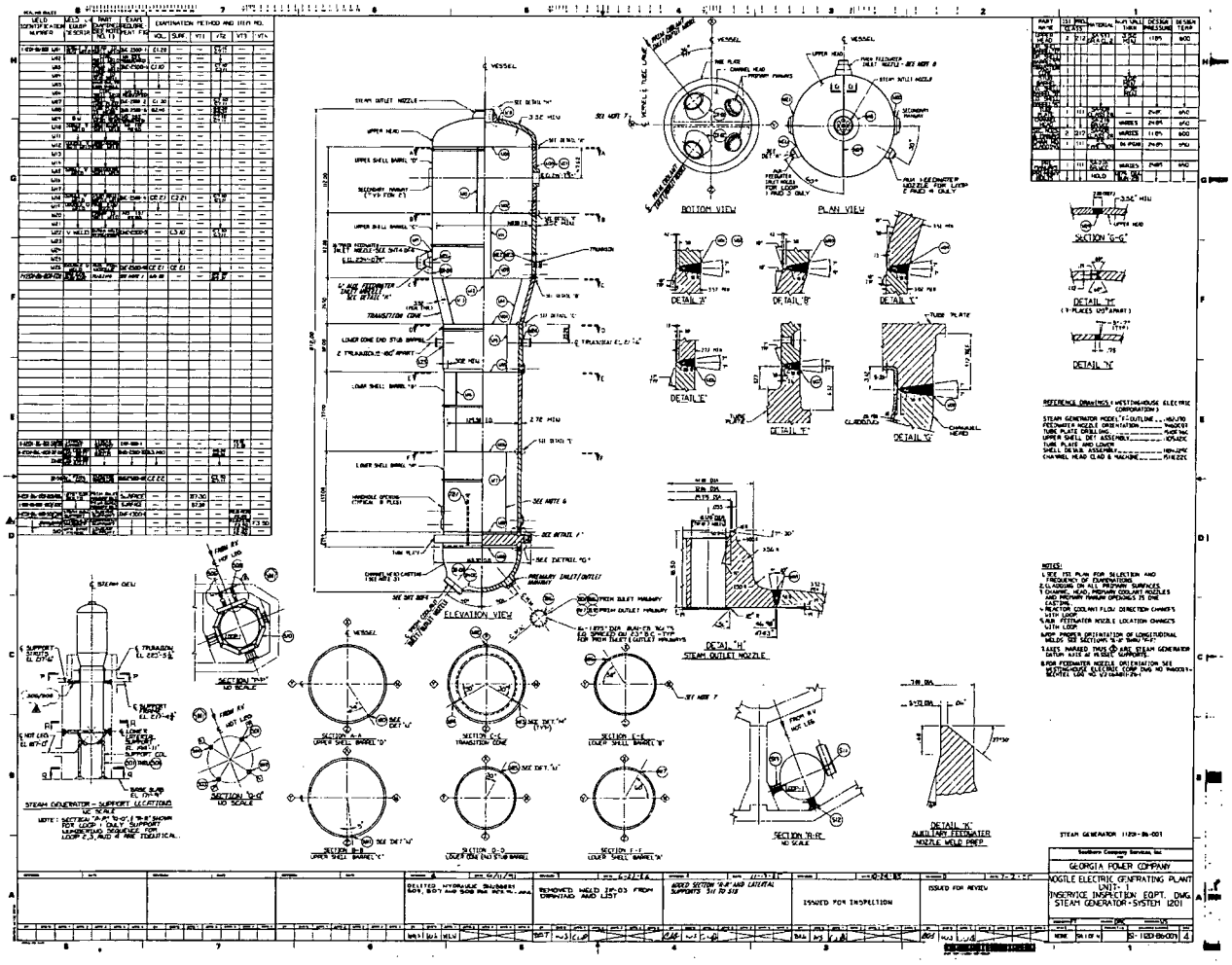
Southern Company Services, Inc.

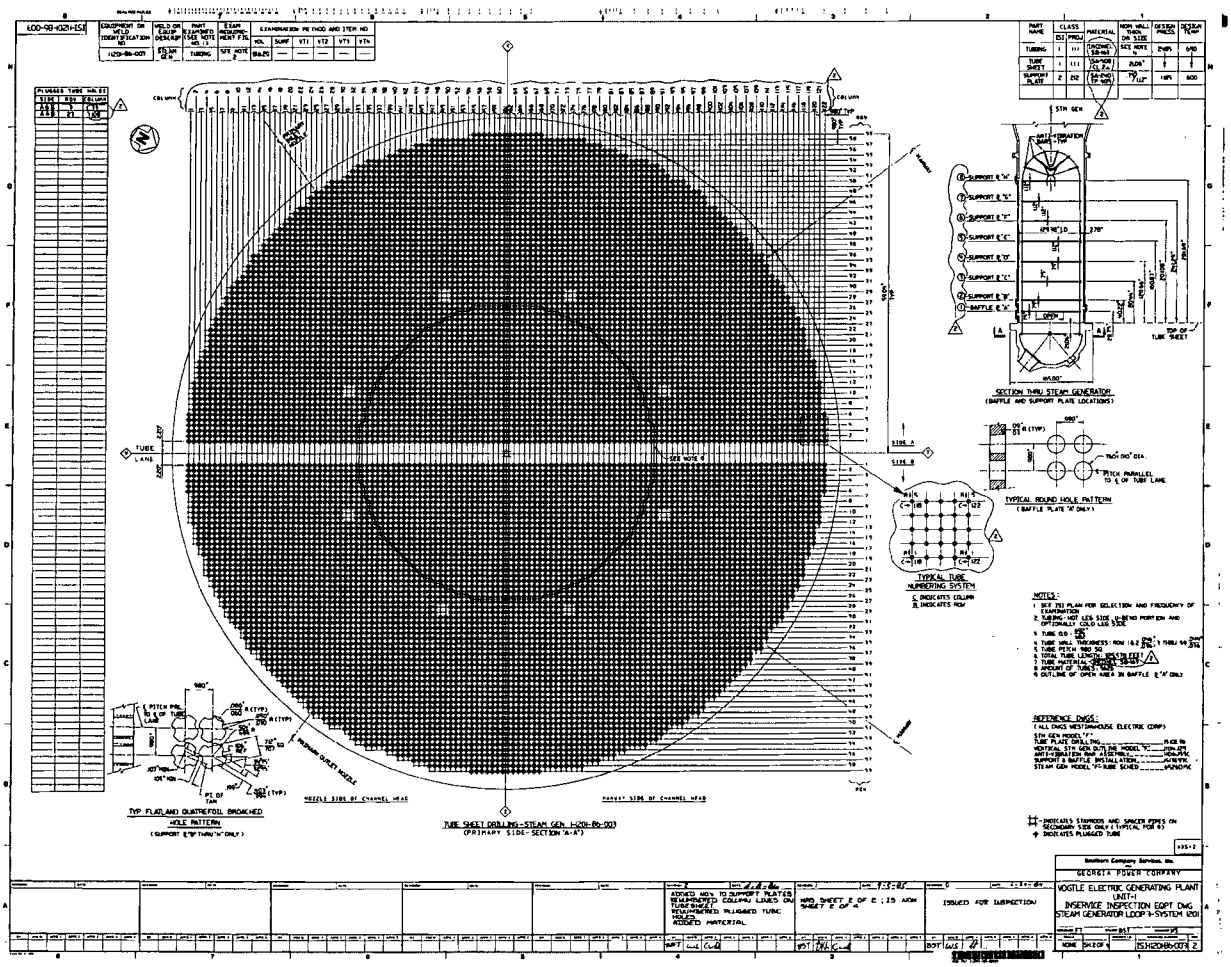
GEORGIA POWER COMPANY

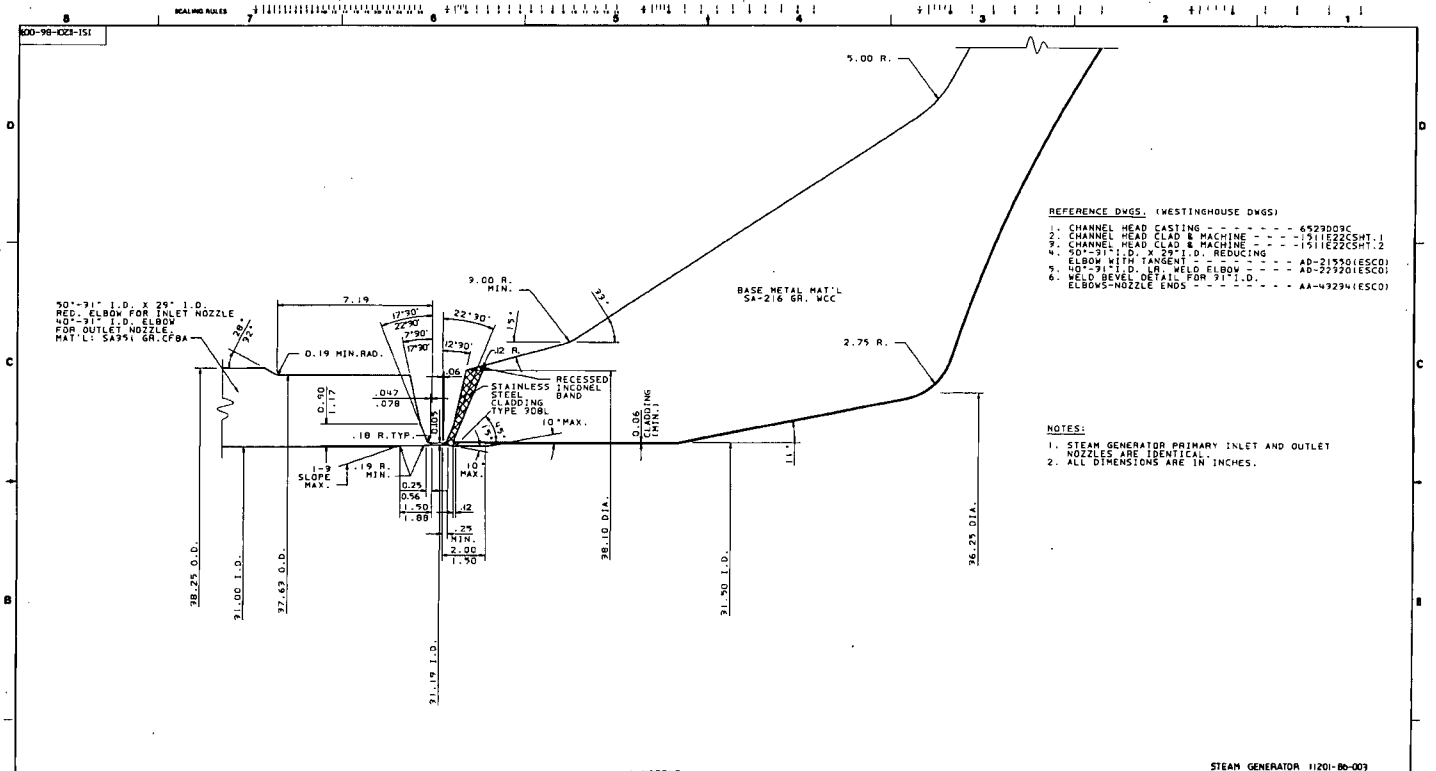
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1
STEAM GENERATOR-MAIN FEEDWATER
NOZZLE - SYSTEM 1205

DESIGNED	DRAWN	CHECKED BY
WEC	KWA	WS

BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	SCALE	PROJECT NO	DRAWING NUMBER	REV
KWA	WS	CWM					HALF SHEET		1S1-1201-B6-002	0


ELEVATION VIEW
BOTTOM VIEW
PLAN VIEW
SECTION "G-G"
DETAIL "H"
STEAM OUTLET NOZZLE
DETAIL "K"
AUXILIARY FEEDWATER NOZZLE WELD PREP
STEAM GENERATOR - SUPPORT LOCATIONS
NOTES:
GEORGIA POWER COMPANY
VOGTLE ELECTRIC GENERATING PLANT UNIT-1
INSERVICE INSPECTION EQPT DWG
STEAM GENERATOR - SYSTEM 1201


TUBE SHEET DRILLING-STEAM GEN. I-201-86-003
(PRIMARY SIDE-SECTION 'A-A')
SECTION THRU STEAM GENERATOR
(BAFFLE AND SUPPORT PLATE LOCATIONS)
TYPICAL ROUND HOLE PATTERN
(BAFFLE PLATE 'A' ONLY)
TYPICAL TUBE NUMBERING SYSTEM
TYP FLATLAND QUATREFOIL BROACHED HOLE PATTERN
(SUPPORT 2,'B' THRU 'H' ONLY)
NOTES:
REFERENCE DWGS:
GEORGIA POWER COMPANY
VOGTLE ELECTRIC GENERATING PLANT
UNIT-1
INSERVICE INSPECTION EQPT DWG
STEAM GENERATOR LOOP 1-SYSTEM 001
ISSUED FOR INSPECTION



REFERENCE DWGS. (WESTINGHOUSE DWGS)

1. CHANNEL HEAD CASTING - - - - - - - - 6529D09C
2. CHANNEL HEAD CLAD & MACHINE - - - - -151E222CSHT.1
3. CHANNEL HEAD CLAD & MACHINE - - - - -151E222CSHT.2
4. 90°-91" I.D. X 29" I.D. REDUCING ELBOW WITH TANGENT - - - - - - - - - AD-21550(ESCO)
5. 90°-91" I.D. LR. WELD ELBOW - - - - AD-22720(ESCO)
6. WELD BEVEL DETAIL FOR 91" I.D. ELBOWS-NOZZLE ENDS - - - - - - - - AA-49294(ESCO)

NOTES:

1. STEAM GENERATOR PRIMARY INLET AND OUTLET NOZZLES ARE IDENTICAL.
2. ALL DIMENSIONS ARE IN INCHES.

STEAM GENERATOR 11201-B6-003

Southern Company Services, Inc.

GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT UNIT - 1

SECTION THRU STEAM GENERATOR PRIMARY INLET AND OUTLET COOLANT NOZZLE - SYSTEM 120

REVISION	DATE
0	6-18-85

ISSUED FOR INSPECTION

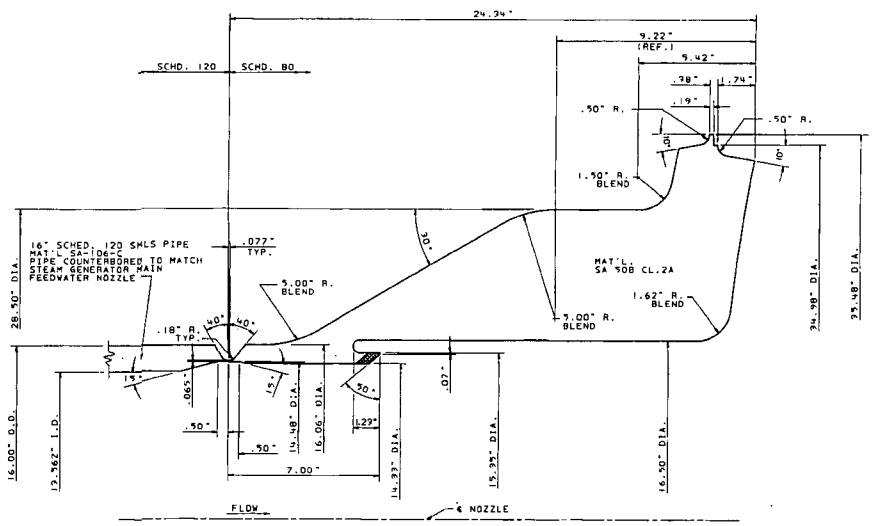
DRAWN KWA

DESIGNED WS

SCALE HALF SIZE

SHEET 5 OF 6

DRAWING NUMBER 151-1201-B6-003 REV 0



REFERENCE DRAWINGS (WESTINGHOUSE DWGS)

1. STEAM GENERATOR MODEL "F" - - - - - - - - - - 1519E42
2. FEEDWATER NOZZLE FORGING - - - - - - - - - - 6524D41C
3. FEEDWATER NOZZLE CLAD AND MACHINE. - - - - 1511E66C

NOTES:

1. NOZZLE HAS BEEN FINISHED 250/ ALL OVER.

STEAM GENERATOR 11201-86-009

Southern Company Services, Inc

GEORGIA POWER COMPANY

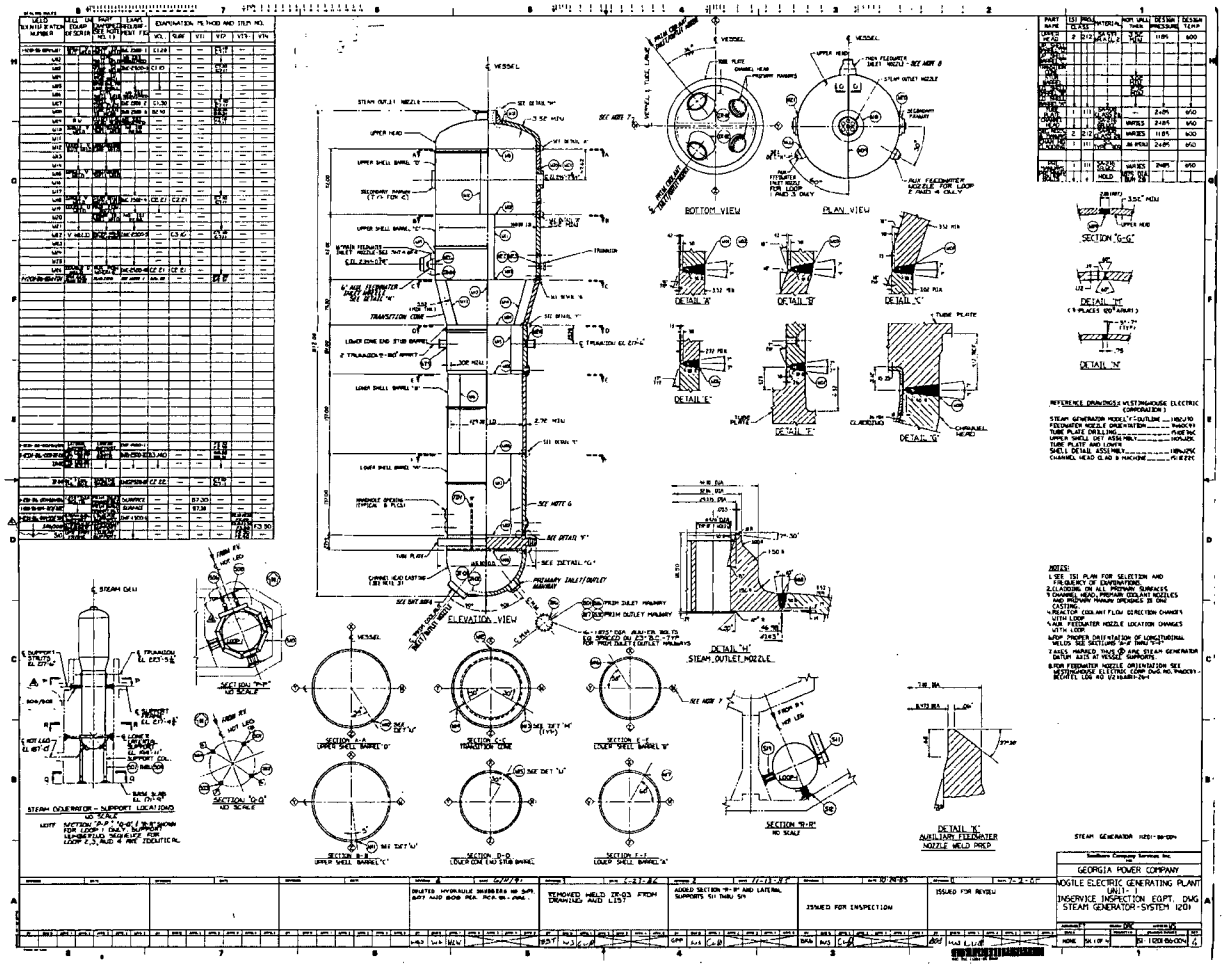
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1
STEAM GENERATOR-MAIN FEEDWATER
NOZZLE - SYSTEM 1805

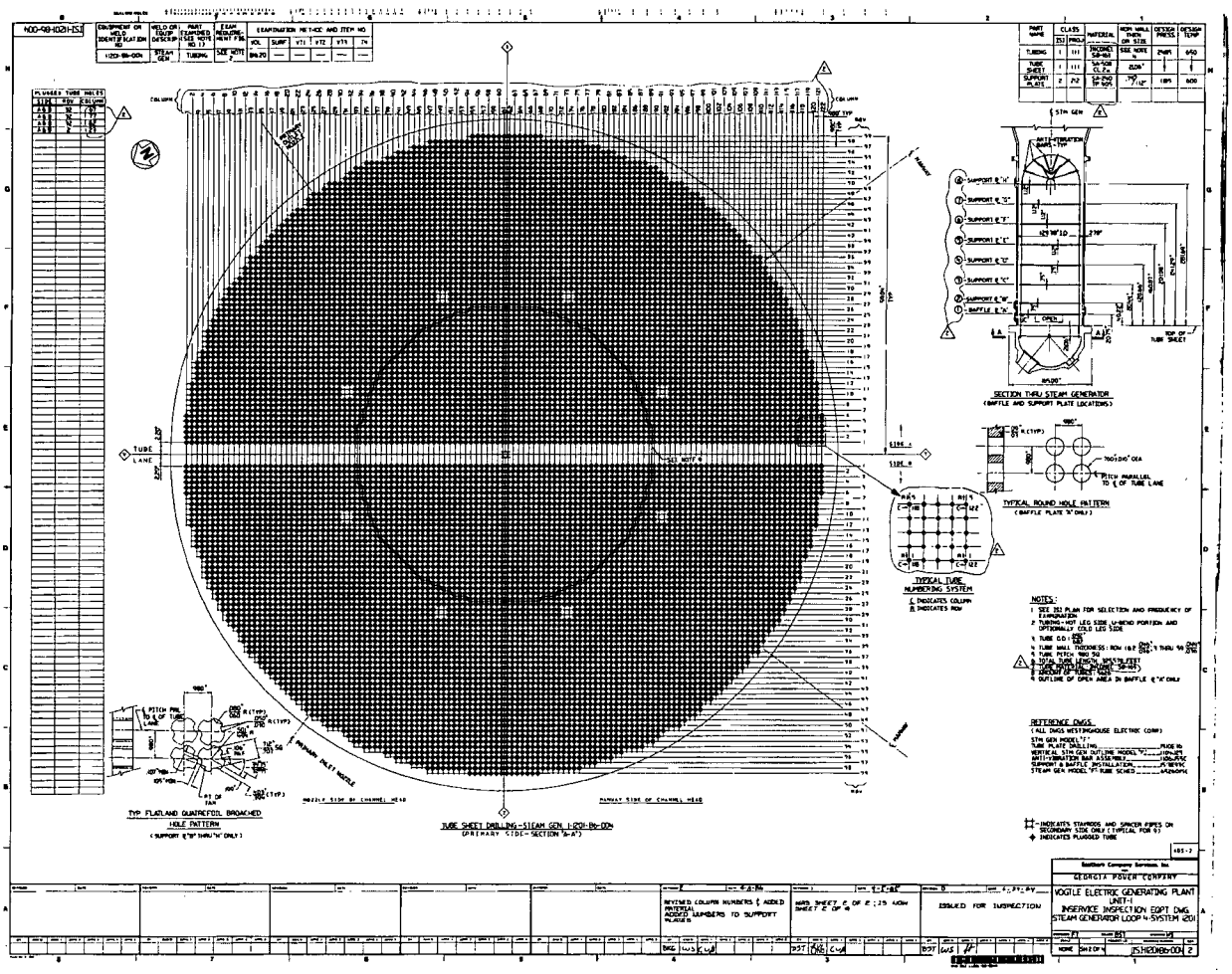
REVISION	DATE	DESCRIPTION
0	6-18-86	ISSUED FOR INSPECTION

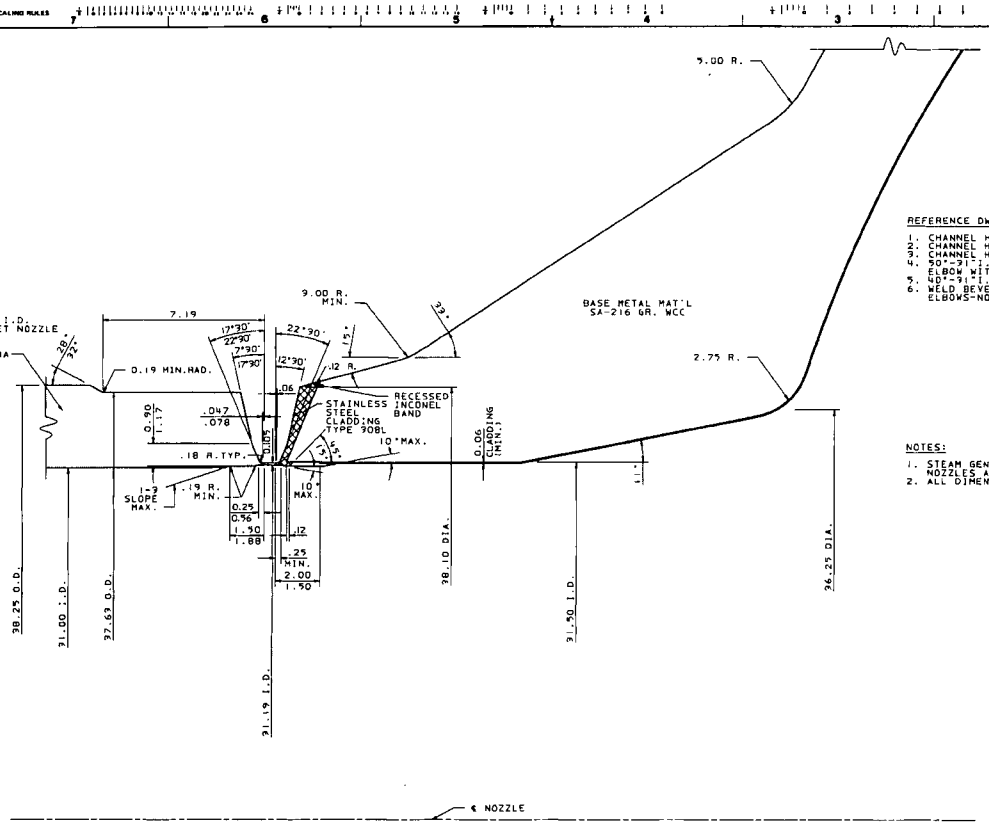
DESIGNED WEC DRAWN KWA CHECKED WS

SCALE HALF SIZE SHEET 1 OF 1

DRAWING NUMBER 1511201-86-009 REV 0


ELEVATION VIEW
BOTTOM VIEW
PLAN VIEW
SECTION "G-G"
DETAIL "M"
DETAIL "N"
DETAIL "A"
DETAIL "B"
DETAIL "C"
DETAIL "E"
DETAIL "F"
DETAIL "G"
DETAIL "H"
STEAM OUTLET NOZZLE
SECTION "H-H"
SECTION "Q-Q"
SECTION A-A
SECTION B-B
SECTION C-C
SECTION D-D
SECTION E-E
SECTION F-F
DETAIL "K"
AUXILIARY FEEDWATER NOZZLE WELD PREP
STEAM GENERATOR - SUPPORT LOCATIONS
GEORGIA POWER COMPANY
VOGTLE ELECTRIC GENERATING PLANT UNIT-1
INSERVICE INSPECTION EQPT. DWG
STEAM GENERATOR-SYSTEM 1201


TUBE SHEET DRILLING - STEAM GEN. 1-201-B4-001
(PRIMARY SIDE - SECTION "A-A")
SECTION THRU STEAM GENERATOR
(BAFFLE AND SUPPORT PLATE LOCATIONS)
TYPICAL ROUND HOLE PATTERN
(BAFFLE PLATE "A" ONLY)
TYPICAL TUBE NUMBERING SYSTEM
TYP FLATLAND QUATREFOIL BROACHED HOLE PATTERN
(SUPPORT & "B" BAFFLE "A" ONLY)
NOTES:
REFERENCE DWGS.
GEORGIA POWER COMPANY
VOGTLE ELECTRIC GENERATING PLANT
UNIT-1
INSERVICE INSPECTION EQPT DWG.
STEAM GENERATOR LOOP 4-SYSTEM 1201
ISSUED FOR INSPECTION



REFERENCE DWGS. (WESTINGHOUSE DWGS)

1. CHANNEL HEAD CASTING - - - - - - - - 6529D097C
2. CHANNEL HEAD CLAD & MACHINE - - - - 1511E22CSHT.1
3. CHANNEL HEAD CLAD & MACHINE - - - - 1511E22CSHT.2
4. 50"-91" I.D. X 29" I.D. REDUCING ELBOW WITH TANGENT - - - - - - - - - AD-21550(ESCO)
5. 40"-91" I.D. LR. WELD ELBOW - - - - AD-22920(ESCO)
6. WELD BEVEL DETAIL FOR 91" I.D. ELBOWS-NOZZLE ENDS - - - - - - - - AA-49294(ESCO)

NOTES:

1. STEAM GENERATOR PRIMARY INLET AND OUTLET NOZZLES ARE IDENTICAL.
2. ALL DIMENSIONS ARE IN INCHES.

STEAM GENERATOR 11201-B6-004

REVISION	DATE
0 ISSUED FOR INSPECTION	6-18-85

Southern Company Services, Inc.

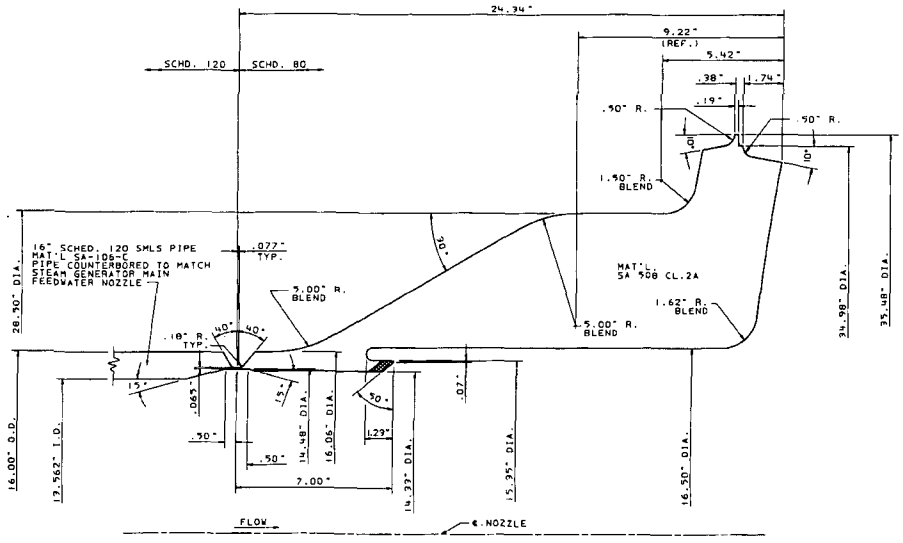
GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT - 1
SECTION THRU STEAM GENERATOR
PRIMARY INLET AND OUTLET
COOLANT NOZZLE - SYSTEM 120

DESIGNED KWA | DRAWN WS | CHECKED WS

SCALE HALF | PROJECT # | DRAWING NUMBER 151-120-B6-004 | REV 0

DWG 151-120-B6-004



REFERENCE DRAWINGS (WESTINGHOUSE DWGS)

1. STEAM GENERATOR MODEL "F" - - - - - - - - - - 1515E42
2. FEEDWATER NOZZLE FORGING - - - - - - - - - - 6524D41C
3. FEEDWATER NOZZLE CLAD AND MACHINE. - - - 1511E66C

NOTES:

1. NOZZLE HAS BEEN FINISHED 250/ ALL OVER.

STEAM GENERATOR 1201-B6-004

Southern Company Services, Inc.

GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1
STEAM GENERATOR-MAIN FEEDWATER NOZZLE - SYSTEM 1205

REVISION	DATE	
0	6-1-82	ISSUED FOR INSPECTION

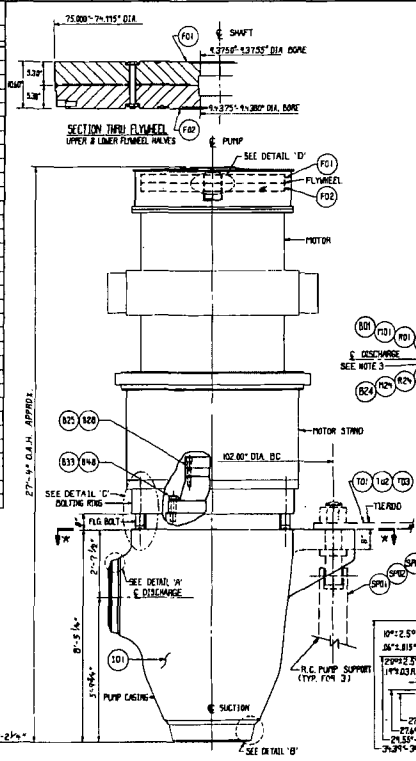
DESIGNED MEC DRAWN KWA CHECKED WS

SCALE HALF SIZE SHEET OF

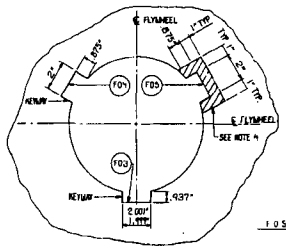
PROJECT ID DRAWING NUMBER 151-1201-B6-004 REV 0

KWA WS CWB

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11201-P6-001	R.C. PUMP	PRESS. KEY BOUNDARY	—	—	—	—	DIB.10 B12.40	—	—
11201-P6-001-B01/B24	BOLT	MAIN FLG BOLTS	TMB-2500-12	B6.180	—	—	—	—	—
M01/M24	2.00" STUDS	SEE NOTE 2	SURFACES	—	—	B6.190	—	—	—
R01/R24	BOLTING RING			—	—	—	—	—	—
C01/C24	PUMP CASING BOLT HOLES			—	—	—	—	—	—
11201-P6-001-F01	FLYWHEEL	UPPER HALF	—	SEE NOTE 8	—	—	—	—	—
F02	FLYWHEEL	LOWER HALF	—	—	—	—	—	—	—
F03	FLYWHEEL KEYWAY	SEE NOTE 4	—	—	SEE NOTE 8	—	—	—	—
F04	FLYWHEEL KEYWAY		—	—	—	—	—	—	—
F05	FLYWHEEL KEYWAY		—	—	—	—	—	—	—
11201-P6-001-101	PUMP CASING	INTERNAL SURFACES	—	—	—	—	—	B12.20	—
11201-P6-001-T01	RESTRAINT	TIE ROD	TMF-1300-1	—	—	—	—	B16.21 B16.20	—
T02				—	—	—	—		—
T03				—	—	—	—		—
11201-P6-001-SP01	R.C. PUMP SUPPORT	LINEAR SUPPORT	TMF-1300-1	—	—	—	—	B16.21 B16.20	—
SP02				—	—	—	—		—
SP03				—	—	—	—		—
11201-P6-001-B25/B28	BOLTING	3/8"BAR SCREW	SURFACE	—	—	B7.60	—	—	—
11201-P6-001-B33/B46		2" BOLT		—	—	B7.60	—	—	—

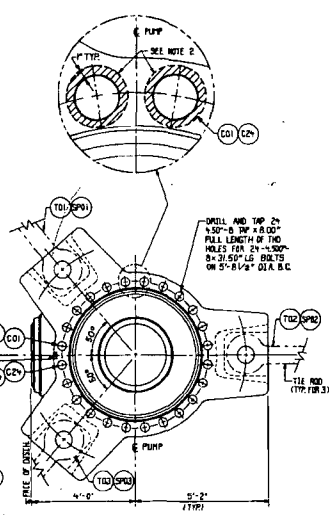


ELEVATION R.C. PUMP
11201-P6-001

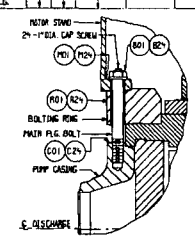


DETAIL 'D'
FLYWHEEL KEYWAYS

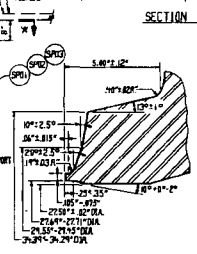
SECTION THRU FLYWHEEL
UPPER & LOWER FLYWHEEL HALVES



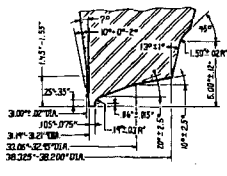
SECTION 'A'-'A'



DETAIL 'C'



DETAIL 'A'
DISCHARGE NOZZLE



DETAIL 'B'
SUCTION NOZZLE

PART NAME	CLASS TSI	CLASS PROJ.	MATERIAL	NOM. WALL THKN. OR SIZE	DESIGN PRESSURE	DESIGN TEMP.
FLYWHEEL	I	III	A-533	—	—	—
PUMP CASING			A-351 CF8	VARIES	2485	650
BOLTING RING			HOLD	—		
FLANGE BOLTS				4.500"-8x 31.50" LG.		
MOTOR STAND FLG.				—		

NOTES:

1. SEE TSI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. INSPECT 1" ANNULAR SURFACE OF FLANGE SURROUNDING EACH STUD, TYPICAL FOR MOTOR STAND FLG., BOLTING RING AND PUMP CASING.
3. M M = MATCH MARK ETCHED INTO PUMP CASE, BOLTING RING AND MOTOR STAND.
4. EXAMINE INSIDE EACH KEYWAY AND CROSS HATCHED AREA AS SHOWN ON DET. D EACH END OF UPPER & LOWER FLYWHEEL.
5. THIS IS AN AUGMENTED EXAMINATION SEE TSI PLAN.

REFERENCE DWG'S:

1. FLYWHEEL ASSY & MACHINING DWG. — X08FR1 (WESTINGHOUSE DWG. NO.)
2. NOZZLE END PREP. DWG. — X6AB09-77-B
3. PUMP ASSY. DWG. — X6AB09-85-D
4. R.C. PUMP TIE RODS GEN. ARRANGEMENT — X6AB18-7-5
5. R.C. PUMP VERTICAL COLUMN SUPPORT — X6AB18-11-6
6. TIE ROD & BRACKET DET. — X6AB18-8-5

REVISION	DATE	REMARKS
3	10-24-85	REMOVED WASHERS
2	4-2-85	REVISED AS NOTED
1	3-8-88	REVISED MATERIALS. DELETED REF. DWG 1 & RENUMBERED REF. DWGS
0	5-15-84	ISSUED FOR INSPECTION

Southern Company Services, Inc.

GEORGIA POWER COMPANY

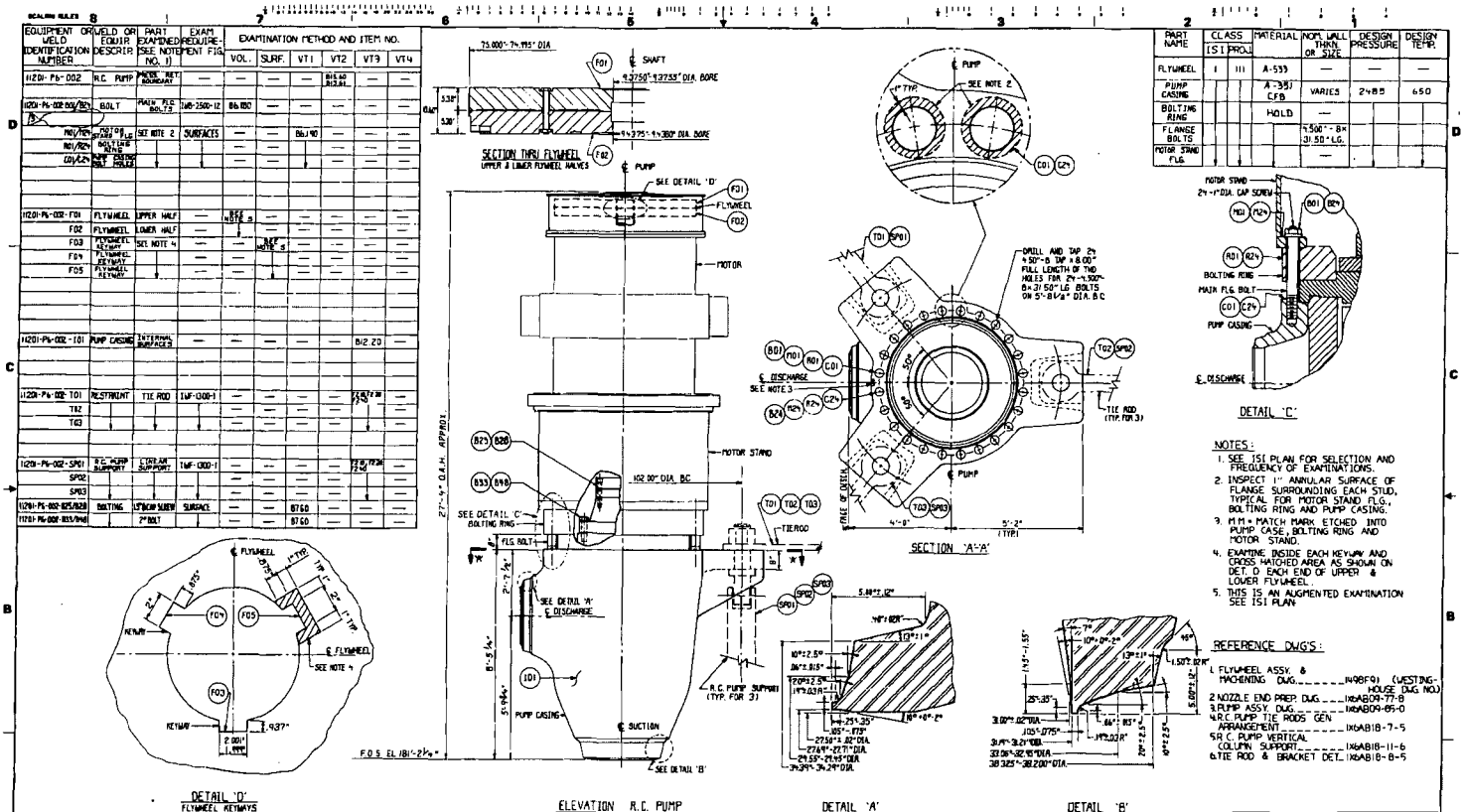
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LOOP 1
INSERVICE INSPECTION EQPT. DWG.
REACTOR COOLANT PUMP-SYSTEM 1201

DESIGNED FT | DRAWN BGS | CHECKED WS

SCALE NONE | PROJECT NO. | DRAWING NUMBER 2SH1201-P6-001 | REV 3

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP DESCRIP	PART EXAMINED (SEE NOTE 1)	EXAM REQUIREMENT FIG NO.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
1120-PG-002	R.C. PUMP	PROB. REF BOUNDARY	—	—	—	—	B15.10 B13.61	—	—
1120-PG-002-B24	BOLT	MAIN FLG BOLTS	TMS-2500-12	B6.180	—	—	—	—	—
M01/M24	STUDS & FLG	SEE NOTE 2	SURFACES	—	—	B6.140	—	—	—
R01/R24	BOLTING RING			—	—		—	—	—
C01/C24	PUMP CASING BOLT HOLES			—	—		—	—	—
1120-PG-002-F01	FLYWHEEL	UPPER HALF	—	REF NOTE 5	—	—	—	—	—
F02	FLYWHEEL	LOWER HALF	—	—	—	—	—	—	—
F03	FLYWHEEL KEYWAY	SEE NOTE 4	—	—	REF NOTE 5	—	—	—	—
F04	FLYWHEEL KEYWAY		—	—	—	—	—	—	—
F05	FLYWHEEL KEYWAY		—	—	—	—	—	—	—
1120-PG-002-T01	PUMP CASING	INTERNAL SURFACES	—	—	—	—	—	B12.20	—
1120-PG-002-T01	RESTRAINT	TIE ROD	1WF-C001-1	—	—	—	—	F8.10/F8.20 F9.10	—
T02				—	—	—	—		—
T03				—	—	—	—		—
1120-PG-002-SP01	R.C. PUMP SUPPORT	LOWER SUPPORT	1WF-C001-1	—	—	—	—	F8.10/F8.20 F9.10	—
SP02				—	—	—	—		—
SP03				—	—	—	—		—
1120-PG-002-B25/B26	BOLTING	1" BOW SCREW	SURFACE	—	—	B7.60	—	—	—
1120-PG-002-B33/B40		2" BOLT		—	—	B7.60	—	—	—

PART NAME	CLASS ISI	CLASS PROJ.	MATERIAL	NOM. WALL THKN. OR SIZE	DESIGN PRESSURE	DESIGN TEMP.
FLYWHEEL	I	III	A-533	—	—	—
PUMP CASING			A-351 CF8	VARIES	2485	650
BOLTING RING			HOLD	—		
FLANGE BOLTS				4.500"-8N × 31.50" LG.		
MOTOR STAND FLG.				—		



REVISION	DATE	REMARKS
3	10-24-85	REMOVED WASHERS
2	4-2-85	REVISED AS NOTED
1	3-8-85	REVISED MATERIALS. DELETED REF. DWG. 1 & RENUMBERED REF. DWGS.
0	5-24-84	ISSUED FOR INSPECTION

Southern Company Services, Inc.

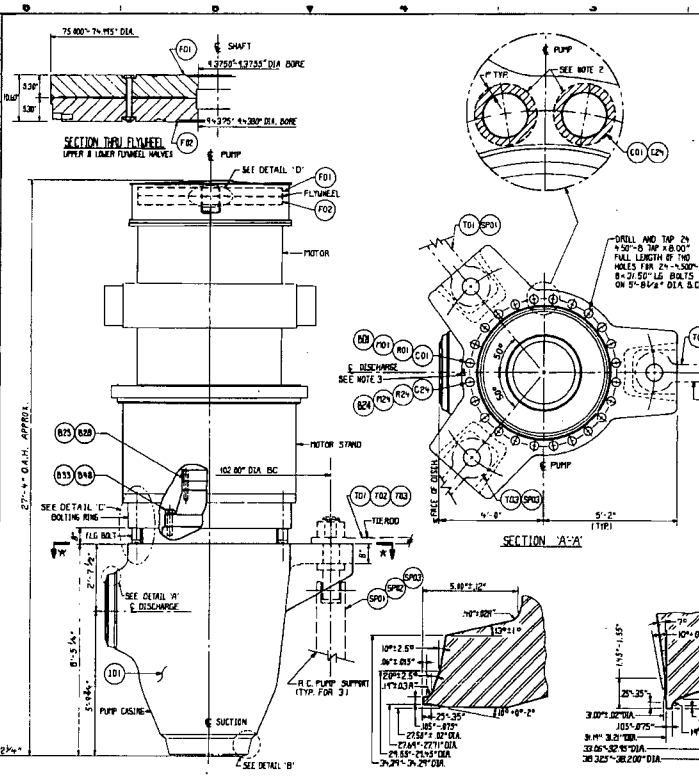
GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LOOP 2
INSERVICE INSPECTION EQ.PT. DWG.
REACTOR COOLANT PUMP-SYSTEM 1201

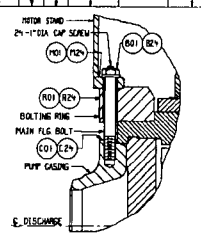
DRAWN FT | DRAWN BGS | CHECKED WS

SCALE: NONE | PROJECT I.D. | DRAWING NUMBER: 1SI-1120-PG-002 | REV. 3

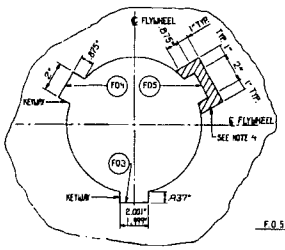
EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE 1)	EXAM PROCEDURE FIG. NO.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11201-P6-003	R.C. PUMP	PUMP BOUNDARY	—	—	—	—	B16.40 B16.34	—	—
1001-P6-003 P01/P24	BOLT	MAIN FLG BOLTS	IWB-2500-12	B6.180	—	—	—	—	—
P01/P24	MOTOR STAND FLG.	SEE NOTE 2	SURFACES	—	—	B6.140	—	—	—
P01/R24	BOLTING RING			—	—		—	—	—
C01/C24	PUMP CASING BOLT			—	—		—	—	—
11201-P6-003-F01	FLYWHEEL	UPPER HALF	—	SEE NOTE 5	—	—	—	—	—
F02	FLYWHEEL	LOWER HALF	—		—	—	—	—	—
F03	FLYWHEEL KEYWAY	SEE NOTE 4	—	—	SEE NOTE 5	—	—	—	—
F04	FLYWHEEL KEYWAY		—	—		—	—	—	—
F05	FLYWHEEL KEYWAY		—	—		—	—	—	—
11201-P6-003-101	PUMP CASING	INTERNAL SURFACES	—	—	—	—	—	B12.20	—
11201-P6-003 T01	RESTRAINT	TIE ROD	IWF-1300-1	—	—	—	—	B16.5 B16.34 F1554	—
T02				—	—	—	—	—	—
T03				—	—	—	—	—	—
11201-P6-003-SP01	R.C. PUMP SUPPORT	LINEAR SUPPORT	IWF-1300-1	—	—	—	—	B16.5 F1554	—
SP02				—	—	—	—	—	—
SP03				—	—	—	—	—	—
11201-P6-003-B25/B28	BOLTING	1 5/8" MAP SCREW	SURFACE	—	—	B7.60	—	—	—
11201-P6-003-B33/B48		2" BOLT		—	—	B7.60	—	—	—



PART NAME	CLASS ISI	CLASS PROJ	MATERIAL	NOM. WALL THKN. OR SIZE	DESIGN PRESSURE	DESIGN TEMP.
FLYWHEEL	I	III	A-533	—	—	—
PUMP CASING			A-351 CF8	VARIES	2485	650
BOLTING RING			HOLD	—		
FLANGE BOLTS				4.500"-8X 31.50" LG.		
MOTOR STAND FLG.				—		



DETAIL 'C'



DETAIL 'D'
FLYWHEEL KEYWAYS

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. INSPECT 1" ANNULAR SURFACE OF FLANGE SURROUNDING EACH STUD, TYPICAL FOR MOTOR STAND FLG., BOLTING RING AND PUMP CASING.
3. M.M. = MATCH MARK ETCHED INTO PUMP CASE, BOLTING RING AND MOTOR STAND.
4. EXAMINE INSIDE EACH KEYWAY AND CROSS HATCHED AREA AS SHOWN ON DET. D EACH END OF UPPER & LOWER FLYWHEEL.
5. THIS IS AN AUGMENTED EXAMINATION SEE ISI PLAN.

REFERENCE DWG'S:

1. FLYWHEEL ASSY. & MACHINING DWG. _____ N98F01 (WESTINGHOUSE DWG NO.)
2. NOZZLE END PREP. DWG. _____ IX6AB09-77-8
3. PUMP ASSY. DWG. _____ IX6AB09-85-0
4. R.C. PUMP TIE RODS GEN. ARRANGEMENT _____ IX6AB18-7-5
5. R.C. PUMP VERTICAL COLUMN SUPPORT _____ IX6AB18-11-6
6. TIE ROD & BRACKET DET. IX6AB18-8-5

REVISION	DATE	DESCRIPTION
3	10-24-85	REMOVED WASHERS
2	4-2-85	REVISED AS NOTED
1	3-8-85	REVISED MATERIALS. DELETED REF. DWG. 1 & RENUMBERED REF. DWGS.
0	5-24-84	ISSUED FOR INSPECTION

Southern Company Services, Inc.

GEORGIA POWER COMPANY

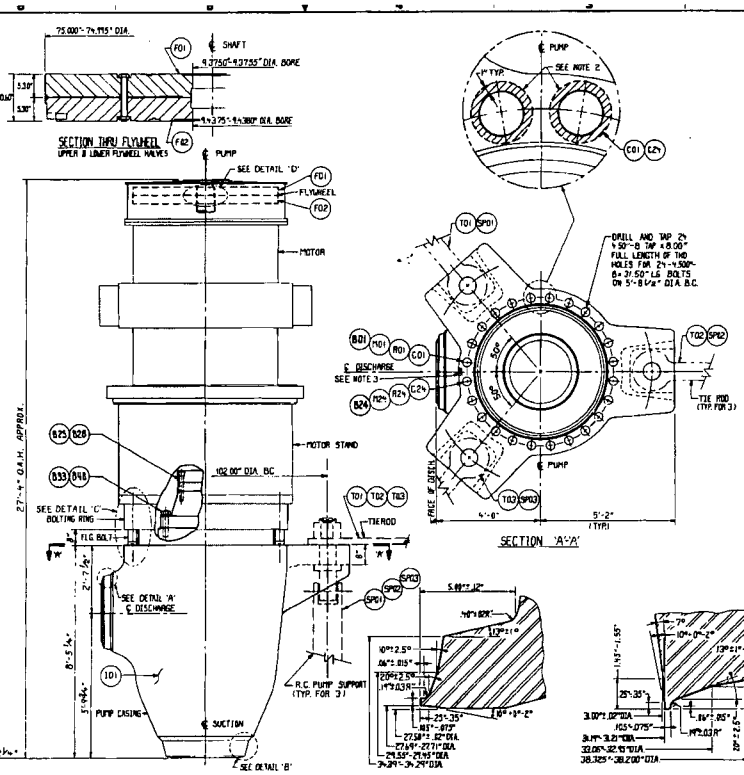
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LOOP 3
INSERVICE INSPECTION EQ.PT. DWG.
REACTOR COOLANT PUMP-SYSTEM 1201

DESIGNED: PT DRAWN: BGS CHECKED: WS

SCALE: NONE

DRAWING NUMBER: 1SI-11201-P6-003 REV. 3

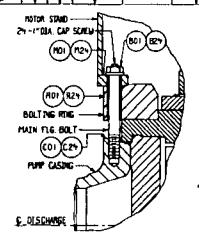
EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11201-P6-004	R.C. PUMP	PRESS. KEY WAYWAY	—	—	—	—	B16.40 B13.41	—	—
11201-P6-004-B03/B24	BOLT	MAIN FLG. BOLTS	B48-2500-12	B16.180	—	—	—	—	—
<3>									
A01/A24	MAIN FLG. STUDS	SEE NOTE 2	SURFACES	—	—	B4.140	—	—	—
B01/B24	BOLTING RING			—	—		—	—	—
C01/C24	PUMP CASING BOLT HOLES			—	—		—	—	—
11201-P6-004-F01	FLYWHEEL	UPPER HALF	—	REF NOTE 5	—	—	—	—	—
F02	FLYWHEEL	LOWER HALF	—		—	—	—	—	—
F03	FLYWHEEL KEYWAY	SEE NOTE 4	—	—	REF NOTE 5	—	—	—	—
F04	FLYWHEEL KEYWAY		—	—		—	—	—	—
F05	FLYWHEEL KEYWAY		—	—		—	—	—	—
11201-P6-004-T01	PUMP CASING	INTERNAL SURFACES	—	—	—	—	—	B12.20	—
11201-P6-004-T01	RESTRAINT	TIE ROD	INF-1300-1	—	—	—	—	B16.11 B7.20	—
T02				—	—	—	—		—
T03				—	—	—	—		—
11201-P6-004-SP01	R.C. PUMP SUPPORT	LINEAR SUPPORT	INF-1300-1	—	—	—	—	B16.11 B7.20	—
SP02				—	—	—	—		—
SP03				—	—	—	—		—
11201-P6-004-B25/B28	BOLTING RING	1"SOCKET SCREW	SURFACE	—	—	B7.60	—	—	—
11201-P6-004-B33/B48		2" BOLT		—	—	B7.60	—	—	—



SECTION THRU FLYWHEEL
UPPER & LOWER FLYWHEEL HALVES

SECTION 'A'-'A'

PART NAME	CLASS ISI	CLASS PROJ	MATERIAL	NOM. WALL THKN. OR SIZE	DESIGN PRESSURE	DESIGN TEMP.
FLYWHEEL	I	III	A-533	—	—	—
PUMP CASING			A-351 CF8	VARIES	2485	650
BOLTING RING			HOLD	—		
FLANGE BOLTS				1.500"-8x 31.50" LG.		
MOTOR STAND FLG.				—		



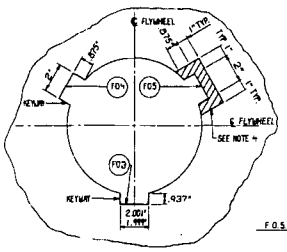
DETAIL 'C'

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. INSPECT 1" ANNULAR SURFACE OF FLANGE SURROUNDING EACH STUD, TYPICAL FOR MOTOR STAND FLG., BOLTING RING AND PUMP CASING.
3. M M = MATCH MARK ETCHED INTO PUMP CASE, BOLTING RING AND MOTOR STAND.
4. EXAMINE INSIDE EACH KEYWAY AND CROSS HATCHED AREA AS SHOWN ON DET. D EACH END OF UPPER & LOWER FLYWHEEL.
5. THIS IS AN AUGMENTED EXAMINATION SEE ISI PLAN.

REFERENCE DWG'S.:

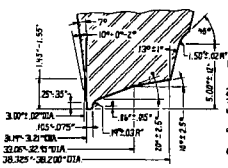
1. FLYWHEEL ASSY. & MACHINING DWG. _____ W98F91 (WESTINGHOUSE DWG NO.)
2. NOZZLE END PREP. DWG. ____ IX6AB09-77-B
3. PUMP ASSY. DWG. _____ IX6AB09-85-0
4. R.C. PUMP TIE RODS GEN. ARRANGEMENT _____ IX6AB18-7-5
5. R.C. PUMP VERTICAL COLUMN SUPPORT _____ IX6AB18-11-6
6. TIE ROD & BRACKET DET. IX6AB18-8-5



DETAIL 'D'
FLYWHEEL KEYWAYS

ELEVATION R.C. PUMP
11201-P6-004

DETAIL 'A'
DISCHARGE NOZZLE



DETAIL 'B'
SUCTION NOZZLE

REVISION	DATE	REMARKS	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5
3	10-25-85	REMOVED WASHERS	RLG	WS	CWB				
2	4-2-85	REVISED AS NOTED	EJO	WS	CWB				
1	3-8-85	REVISED MATERIALS. DELETED REF DWG 1 & RENUMBERED REF DWGS	FRM	WS	CWB				
0	3-26-84	ISSUED FOR INSPECTION	BGS	WS					

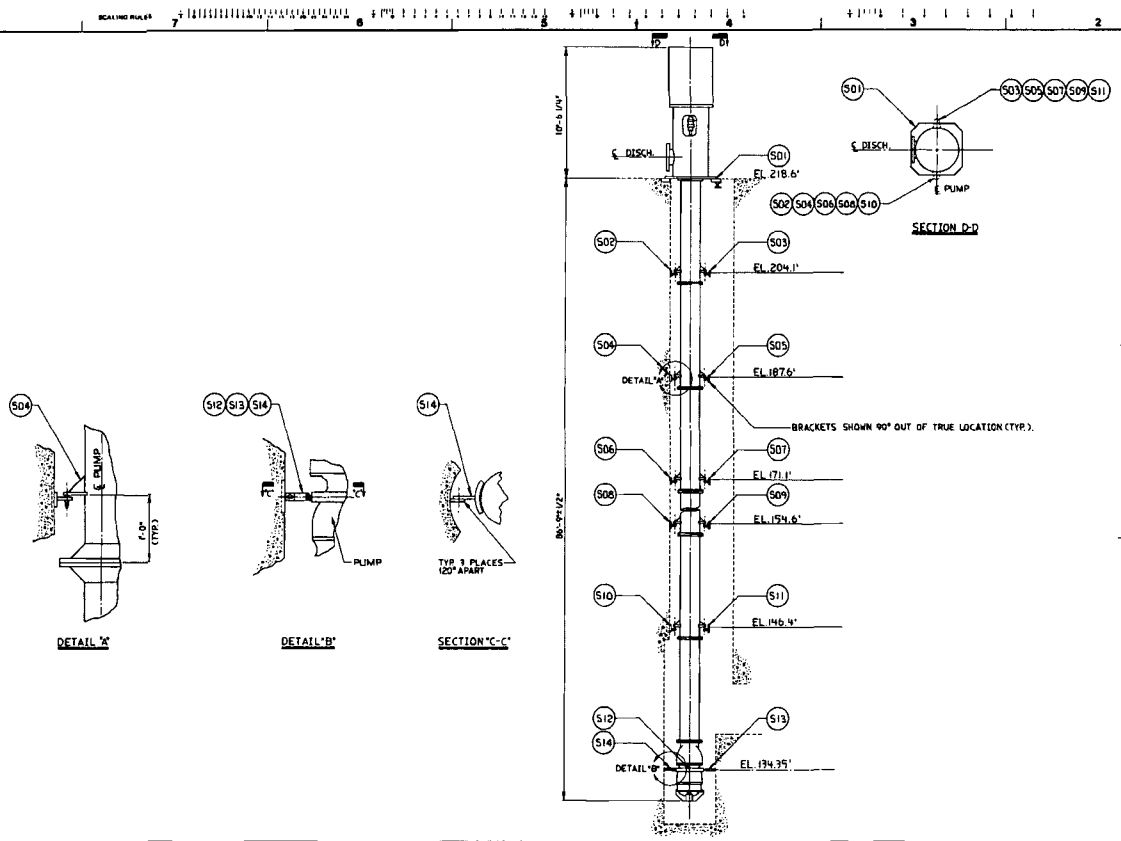
Southern Company Services, Inc.

GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LOOP 4
INSERVICE INSPECTION EQ.PT. DWG.
REACTOR COOLANT PUMP-SYSTEM 1201

DESIGNED FT | DRAWN BGS | CHECKED WS

SCALE: NONE | PROJECT I.D. | DRAWING NUMBER: ISI-11201-P6-004 | REV. 3



REFERENCES:

BINGHAM-WILLAMETTE CO. DRAWINGS:
NUCLEAR SERVICE COOLING WATER PUMP
E-17573
(BECHTEL LOG NO. JX4F02-18-B)

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. THIS DWG. COVERS NUCLEAR SERVICE COOLING WATER PUMP NO: 11202-P4-001
   " - " -002
   " - " -003
   " - " -004
   " - " -005
   " - " -006
3. THESE NUCLEAR SERVICE COOLING WATER PUMPS ARE CODE CLASS A.S.M.E. SECTION III - CLASS 3
4. ALL SUPPORTS ARE PREFIXED BY THE PUMP NUMBER:
   EXAMPLE: 11202-P4-001-S01

REVISION	DATE
0	1-30-86

ISSUED FOR INSPECTION

Southern Company Services, Inc.

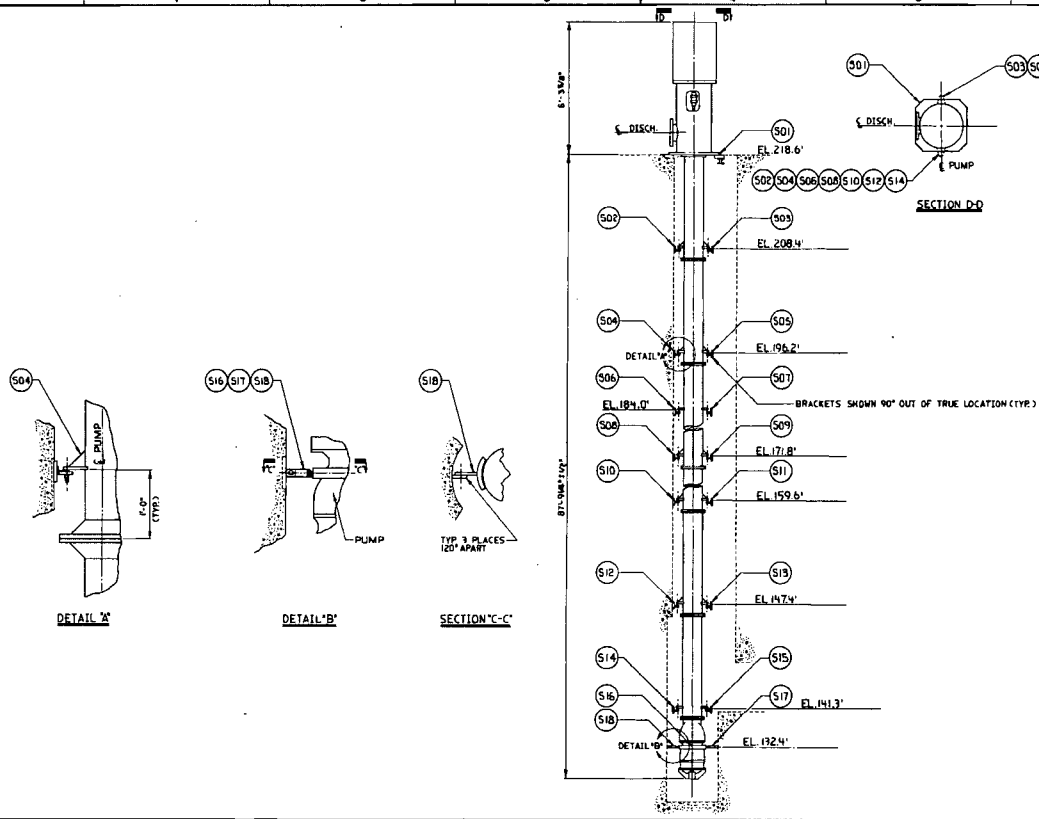
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT-1
INSERVICE INSPECTION EQPT. DWG.
NSCW PUMP 11202-P4-001 THRU 006
SYSTEM 1202

DRAWN BY REC | DESIGN EJO | CHECKED WS

SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-11202-P4001 | REV. 0

EJO WS CAP



REFERENCES:

BINGHAM-WILLAMETTE CO. DRAWINGS:
NUCLEAR SERVICE COOLING WATER PUMP
E-17662
(BECHTEL LOG NO. J14AF02-24-7)

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. THIS DWG COVERS NUCLEAR SERVICE COOLING WATER PUMP NO: 11202-P4-007 & -008
3. THESE NUCLEAR SERVICE COOLING WATER PUMPS ARE CODE CLASS A S.M.E. SECTION III, CLASS 3
4. ALL SUPPORTS ARE PREFIXED BY THE PUMP NUMBER: EXAMPLE: 11202-P4-007-S01

Southern Company Services, Inc.

Georgia Power Company

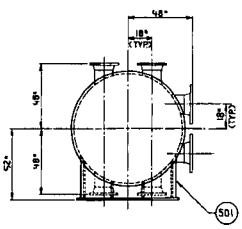
VOGTLE ELECTRIC GENERATING PLANT
UNIT-1
INSERVICE INSPECTION EQPT. DWG.
NSCW PUMP 11202-P4-007 AND 008
SYSTEM 1202

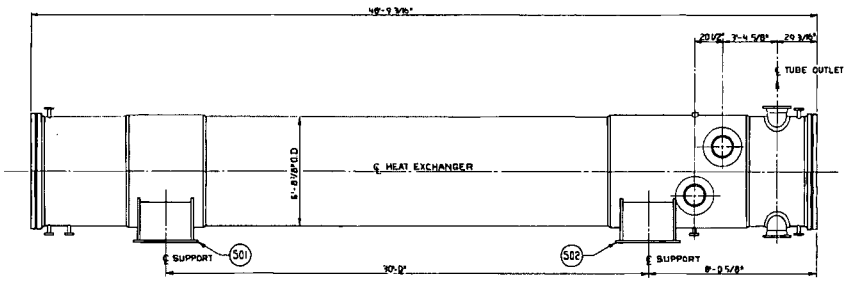
REVISION 0 — DATE 01-30-84 — ISSUED FOR INSPECTION

DRAWN REC — CHECKED EJD — CHECKED WS

SCALE NONE — DRAWING NUMBER ISI-11202-P4-007 — REV 0

ISH1203-E4-001





COMPONENT COOLING WATER HEAT EXCHANGER
11203-E4-001
11203-E4-002

REFERENCES:

PERFEX DWG.
COMPONENT COOLING WATER HEAT EXCHANGER.....D-9159-B-150

(BECHTEL LOG NO.....IX4AE01-51-9)

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. THIS VESSEL IS CODE CLASS A.S.M.E. SECTION III, CLASS 3.
3. THIS DWG COVERS COMPONENT COOLING WATER HEAT EXCHANGERS: 11203-E4-001 AND 11203-E4-002.
4. ALL SUPPORTS ARE PREFIXED BY THE HEAT EXCHANGER NUMBER:
   EXAMPLE: 11203-E4-001-501

REVISION	DATE
0	1-29-86

ISSUED FOR INSPECTION

Southern Company Services, Inc.

Georgia Power Company

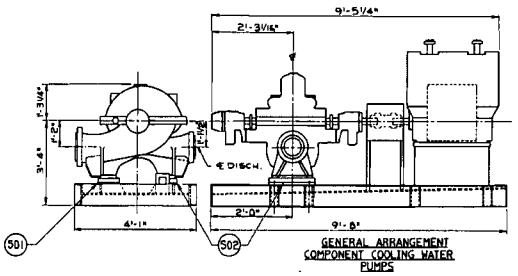
VOGTLE ELECTRIC GENERATING PLANT
UNIT-1
INSERVICE INSPECTION EQPT. DWG.
COMPONENT COOLING WATER HEAT EXCHANGER-SYSTEM 1203

DESIGNED REC DRAWN EJO CHECKED WS

SCALE NONE

DRAWING NUMBER ISH1203-E4-001 REV. 0

100-hd-E0211-1S1



GENERAL ARRANGEMENT
COMPONENT COOLING WATER
PUMPS

1-1203-P4-001
1-1203-P4-002
1-1203-P4-003
1-1203-P4-004
1-1203-P4-005
1-1203-P4-006

REFERENCES:

INGERSOLL-RAND DWG.
COMPONENT COOLING WATER PUMPS.....
.....C-10-1185C.8612216C

(BECHTEL LOG NO.....(X4AF01-70-5)
(" " " .....(X4AF01-81-4)

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAM.
2. THIS DWG COVERS COMPONENT COOLING PUMPS 1-1203-P4-001
   " " " " -002
   " " " " -003
   " " " " -004
   " " " " -005
   " " " " -006
3. ALL SUPPORTS ARE PREFIXED BY THE PUMP NUMBER:
   EXAMPLE: 11203-P4-001-S01

REVISION	DATE
0	01-29-86

ISSUED FOR INSPECTION

Southern Company Services, Inc.

Georgia Power Company

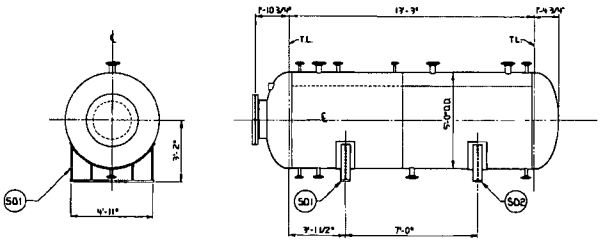
VOGTLE ELECTRIC GENERATING PLANT
UNIT-1

INSERVICE INSPECTION EQUIP. DWG.
COMPONENT COOLING WATER PUMPS
SYSTEM 1203

DRAWN	DESIGNED	ENGINEER
EJO	WS	CLB

SCALE	PROJECT I.D.	DRAWING NUMBER	REV.
NONE		1S1-11203-P4-001	0

ISI-11203-T4-001



COMPONENT COOLING WATER SURGE TANK
11203-T4-001
11203-T4-002

REFERENCE DWGS:

RICHMOND ENGINEERING CO., INC. DWGS
COMPONANT COOLING WATER SURGE TANK & AUXILIARY COMPONANT COOLING WATER SURGE TANK D-76-707
(BECHTEL LOG NO. ..... 1X4AH04-2-8)

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. THIS DWG. COVERS COMPONANT COOLING WATER SURGE TANKS 11203-T4-001 AND 11203-T4-002.
3. THIS VESSEL IS CODE CLASS ASME. SECTION III, CLASS 3.
4. ALL SUPPORTS ARE PREFIXED BY THE PUMP NUMBER:
   EXAMPLE: 11203-T4-001-S01

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 0	DATE 01-29-80
										ISSUED FOR INSPECTION	

Southern Company Services, Inc.

Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1

INSERVICE INSPECTION EQUIPMENT DWG.
COMPONENT COOLING WATER SURGE TANK
SYSTEM 1203

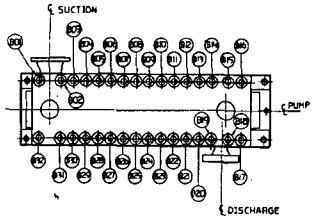
DRAWN REC CHECKED EJO DESIGNED WS

SCALE	PROJECT #	DRAWING NUMBER	REV
NONE		ISI-11203-T4-001	0

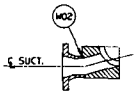
EJO

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO.					
				VOL.	SURF.	VT 1	VT 2	VT 3	VTN
11204-P6-003	SAFETY INJ. PMP	PRESS. RET. COMPONENT	—	—	—	—	C7.30 C7.31	—	—
11204-P6-003-SD1	PUMP SUPPORT	LINEAR SUPPORT	IWF-1900-1	—	—	—	—	F2.10 F2.30	—
11204-P6-003-W01	BEVEL & FILLET WLD	CASING WELD	—	—	—	—	C7.30 C7.31	—	—
W02			IWC2500-8	—	C6.10	—		—	—
11204-P6-003-B01/32	PRESSURE RET. BLT	CASE STUDS	IWC2500-6	C4.30	—	—	—	—	—

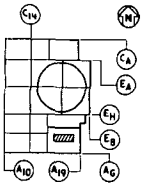
PART NAME	CLASS ISI	CLASS PROJ.	MATERIAL	NOM. WALL THKN. OR SIZE	DESIGN PRESS. PSIG	DESIGN TEMP.
PUMP CASING	2	212	SA-182 F 304	VARIES	1750	300°F
DISCH. NOZZLE				3"-1500# RF		
SUCTION NOZZLE				6"-150 # RF		
CASE STUD			SA-193 B7	2 1/8" DIA. 12N 2A		
BASE CRADLE			SA-36	VARIES	—	—



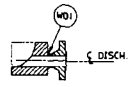
VIEW A-A-CASING STUD LAYOUT



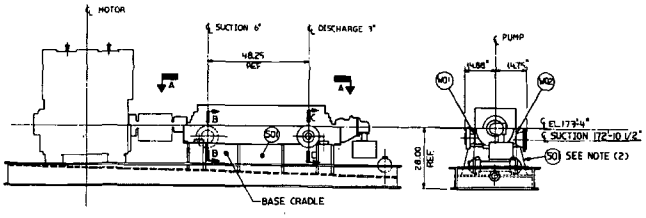
SECTION B-B



KEY PLAN UNIT 1
LEVEL "B"



SECTION C-C



SAFETY INJECTION PUMP (ROOM B15)
11204-P6-003 (TRAIN "A")

REFERENCE DWGS.

SAFETY INJECTION PUMP OUTLINE. 1X6AG02-10-7
OPERATION AND MAINTENANCE MANUAL 1X6AG02-16-0
ISI ISOMETRIC 1SI-11204-008

NOTES.

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. SUPPORT INCLUDES PUMP BASE ASSEMBLY

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 1	DATE 9-10-85	REVISION 0	DATE 1-14-85
								REVISED AS NOTED		ISSUED FOR INSPECTION	
BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5		BY DKG	CHK'D JST	APPR 1 CWB	
										BY ldl	CHK'D ws

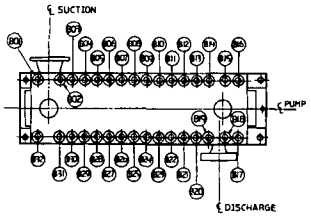
Southern Company Services, Inc.
for
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1
INSERVICE INSPECTION EQPT DWG.
SAFETY INJECTION PUMP 11204-P6-003
SYSTEM 1204

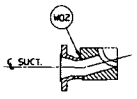
DRAWN FT | DRAWN CSB | CHECKED WS
SCALE NONE | PROJECT NO. | DRAWING NUMBER 1SI-11204-P6-003 | REV 1

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO.					
				VOL.	SURF.	VT 1	VT 2	VT 3	VT 4
11204-P6-004	SAFETY INJ. PMP.	PRESS. RET. COMPONENT	—	—	—	—	C7.10 C7.11	—	—
11204-P6-004-S01	PUMP SUPPORT	LINEAR SUPPORT	IWF-1300-1	—	—	—	—	F2.10 F2.10	—
11204-P6-004-W01	BEVEL & FILLET WELD	CASING WELD	——	—	—	—	C7.30 C7.30	—	—
W02	↓	↓	IWC-2500-8	—	C6.10	—	↓	—	—
11204-P6-004-B01/32	PRESSURE RET. BLT.	CASE STUDS	IWC-2500-6	C4.30	—	—	—	—	— (SEE NOTE 3) 2

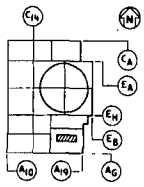
PART NAME	CLASS ISI	CLASS PROJ.	MATERIAL	NOM. WALL THKN. OR SIZE	DESIGN PRESS. PSIG	DESIGN TEMP.
PUMP CASING	2	212	SA-182 F 304	VARIES	1750	300°F
DISCH. NOZZLE	↓	↓	↓	3-600# RF	↓	↓
SUCTION NOZZLE	↓	↓	↓	6-150# RF	↓	↓
CASE STUD	↓	↓	SA-193 B7	2 1/8" DIA. 12N 2A	↓	↓
BASE CRADLE	↓	↓	SA-36	VARIES	—	—



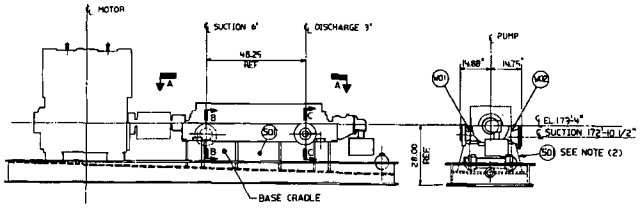
VIEW A-A-CASING STUD LAYOUT



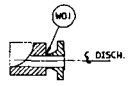
SECTION B-B



KEY PLAN UNIT 1
LEVEL "B"



SAFETY INJECTION PUMP (ROOM B19)
11204-P6-004 (TRAIN "B")



SECTION C-C

REFERENCE DWGS.

SAFETY INJECTION PUMP OUTLINE _ 1X6AG02-13-7
OPERATION AND MAINTENANCE MANUAL _ 1X6AG02-16-0
ISI ISOMETRIC _ ISH-11204-010

NOTES.

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. SUPPORT INCLUDES PUMP BASE ASSEMBLY
3. CAP NUTS DO NOT ALLOW PRE-SERVICE INSPECTION OF CASE STUDS.

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 09-14-86	REVISION 1	DATE 9-10-85	REVISION 0	DATE 1-14-85
						ADDED NOTE 3		REVISED AS NOTED		ISSUED FOR INSPECTION	
BY	CHK'D	APPL'D	BY	CHK'D	APPL'D	BY	CHK'D	BY	CHK'D	BY	CHK'D
						BKG	WS	#ST	BKG		WS

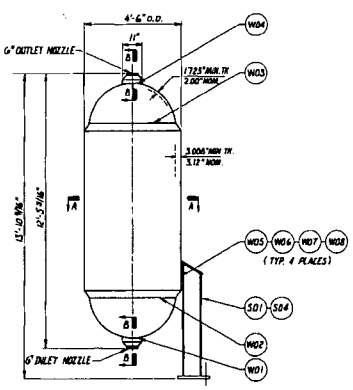
Southern Company Services, Inc.
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1
INSERVICE INSPECTION EQPT. DWG.
SAFETY INJECTION PUMP 11204-P6-004
SYSTEM 1204

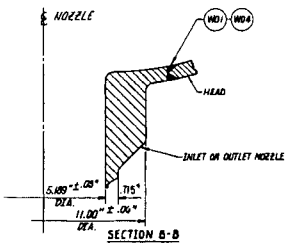
DRAWN FT | CHECKED CSR | CHECKED WS
SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISH11204-P6-004 | REV 2

WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCR.	PART EXAMINED	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO					
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4
11204-V6-001-W01	BUTT	INLET NOZZLE TO VESSEL HD.	TNC-2500-4	C2.21	C2.21	–	C1.10 C1.11	–	–
11204-V6-001-W02		VESSEL HD. TO VESSEL SHELL	TNC-2500-1	C1.20	–	–		–	–
11204-V6-001-W03		VESSEL SHELL TO VESSEL HD.	TNC-2500-1	C1.20	–	–		–	–
11204-V6-001-W04		VESSEL HD. TO OUTLET NOZZLE	TNC-2500-4	C2.21	C2.21	–		–	–
11204-V6-001-W05	FILLET	VESSEL SUPP PAD WELD BETWEEN	TNC-2500-5	–	C8.10	–		–	–
11204-V6-001-W06		" " " "		–		–		–	–
11204-V6-001-W07		" " " "		–		–		–	–
11204-V6-001-W08		" " " "		–		–		–	–
11204-V6-001-S01		VESSEL SUPPORT	TNC-2001-1	–	–	–	–	F6.10 F7.10	–
11204-V6-001-S02				–	–	–	–		–
11204-V6-001-S03				–	–	–	–		–
11204-V6-001-S04				–	–	–	–		–

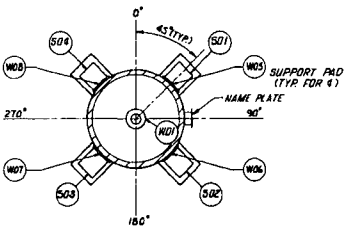
PART NAME	CLASS TSS	CLASS PROJECT		MATERIAL	NOM. WALL THICKNESS	DESIGN PRESS.	DESIGN TEMP.
VESSEL SHELL	2	E12		SA-240-CF8A	3.12"	2735 PSI	300°F
VESSEL HEAD				SA-240-304	2.00"		
NOZZLE FORGING				SA-182-F304	—		
SUPPORTS PADS				SA-240-304	4.25"		



FRONT VIEW



SECTION B-B
(TYP. 2 PLACES)



SECTION A-A
(SECTION IS ROTATED 45°)

REFERENCE DWGS:

1. BORON INJECTION TANK SHT. 1 OF 2 ... 1X64605-10-0
2. BORON INJECTION TANK SHT. 2 OF 2 ... 1X64605-11-0
3. 6" X 2.1" X 9" LG. FLAT PLATE CAL. BLOCK ... TSI-0-418A

NOTES:

1. SEE TSI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 0	DATE 3-14-85
										ISSUED FOR FABRICATION	

BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5
EJO	WS	CWD				

Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT #1

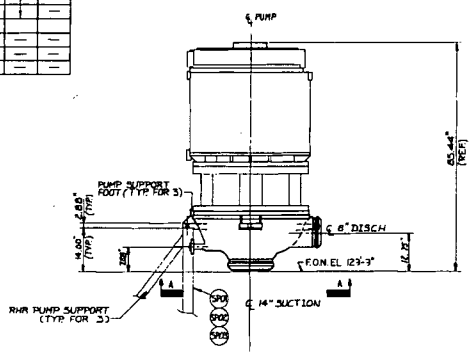
INSERVICE INSPECTION EQUIPMENT DRAWING
BORON INJECTION TANK 11204-V6-001

DRAWN G.A.L. | DRAW. E.H. | CHECKED W.S.

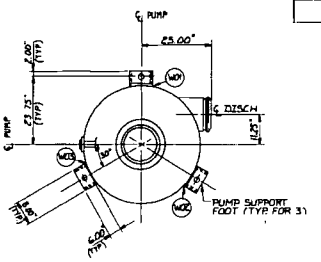
SCALE: NONE | PROJECT I.D. | DRAWING NUMBER: TSI-11204-V6-001 | REV. 0

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP DESCRIP	PART EXAMINED (SEE NOTE 1)	EXAM REQUIREMENT FIG	EXAMINATION METHOD AND ITEM NO					
				VOL	SURF	VT1	VT2	VT3	VT4
11205-P6-001	RHR PUMP CASING	PRESS. RET. PORTION OF PUMP CASING	—	—	—	—	C1.30 C3.31	—	—
11205-P6-001-SP01	RHR PUMP SUPPORT	PUMP SUPPORT	TWF-1500-1	—	—	—	—	K2.10 K2.30	—
SP02				—	—	—	—		—
SP03				—	—	—	—		—
11205-P6-001-W01	PUMP SUPPORT FEET	FAT. WLD. ATTACHMENT	TWC-2500-5	—	C3.70	—	—	—	—
W02				—		—	—	—	—
W03				—		—	—	—	—

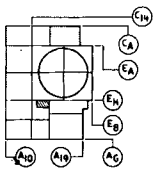
PART NAME	CLASS		MATERIAL	NOM. WALL THKN. OR SIZE	DESIGN PRESS.	DESIGN TEMP.
	ISI	PROJ				
PUMP CASING	2	212	SA-182 F 304	VARIES	600	400
PUMP SPRT FEET	2	212	SA-240 TY 304	288"	—	—



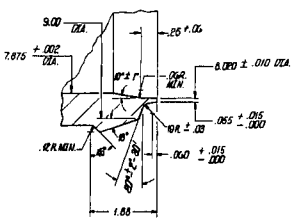
ELEVATION-RHR PUMP
11205-P6-001



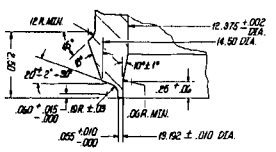
VIEW A-A



KEY PLAN UNIT 1
LEVEL D



DISCHARGE NOZZLE WELD END
8.00 SCHED 40



SUCTION NOZZLE WELD END
14.000 SCHED 40

REFERENCE DWGS:
INGERSOLL RAND DWGS:
RHR PUMP — — — IX6AF02-26

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.

REVISION	DATE
0	8-13-84

ISSUED FOR INSPECTION

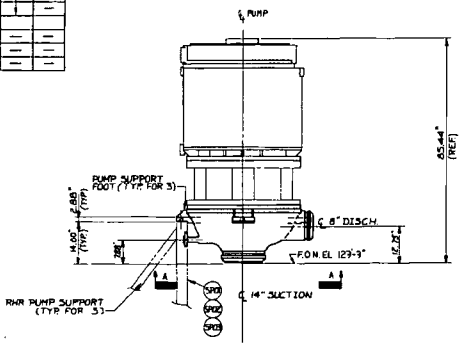
Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT-1
INSERVICE INSPECTION EQPT DWG.
RHR PUMP P6-001 -SYSTEM 1205

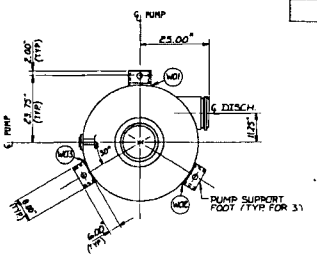
DESIGNED FT | DRAWN BKG | CHECKED WS
SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-11205-P6-001 | REV. 0

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP DESCRIP	PART EXAMINED (SEE NOTE 12)	EXAM REQUIREMENT FIG	EXAMINATION METHOD AND ITEM NO					
				VOL	SURF	VT1	VT2	VT3	VT4
11205-P6-002	RHR PUMP	RHR PUMP CASING	—	—	—	—	C1.30 C1.31	—	—
11205-P6-002-SP01	RHR PUMP SUPPORT	RHR PUMP SUPPORT	TWF-1300-1	—	—	—	—	F12.10 F12.50	—
SP02				—	—	—	—		—
SP03				—	—	—	—		—
11205-P6-002-W01	RHR PUMP FEET	FEET, W03 ATTACHMENT	TWC-2500-5	—	C5.70	—	—	—	—
W02				—			—	—	—
W03				—			—	—	—

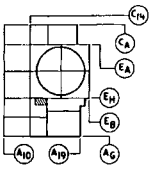
PART NAME	CLASS ISI	CLASS PROJ	MATERIAL	NOM. WALL THKN. OR SIZE	DESIGN PRESS	DESIGN TEMP.
PUMP CASING	2	212	SA-182 F 304	VARIES	600	400
PUMP SPRT FEET	2	212	SA-240 TY 304	288"	—	—



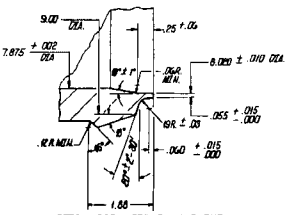
ELEVATION-RHR PUMP
11205-P6-002



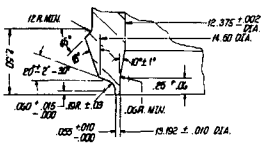
VIEW A-A



KEY PLAN UNIT 1
LEVEL D



DISCHARGE NOZZLE WELD END
8.00 SCHED.#80



SUCTION NOZZLE WELD END
14.000 SCHED-40

REFERENCE DWGS:
INGERSOLL RAND DWGS:
RHR PUMP — — — IX6AF02-26

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.

REVISION	DATE
REVISION 0	DATE 8-31-84
ISSUED FOR INSPECTION	

Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT-1
INSERVICE INSPECTION EQPT DWG.
RHR PUMP P6-002-SYSTEM 1205

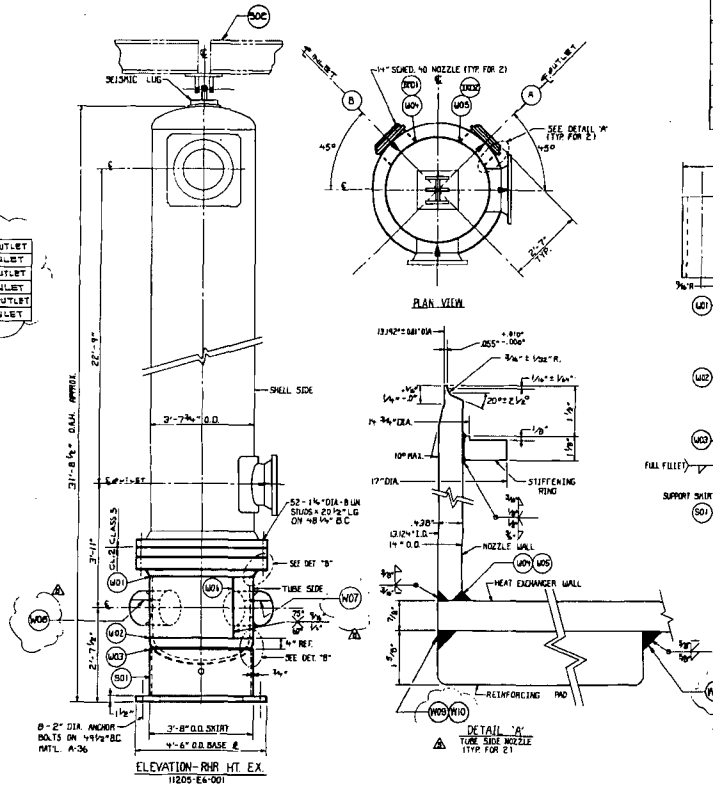
DESIGNED PT DRAWN BKG CHECKED WS

BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5
BKG	WS	PT				

SCALE: NONE
PROJECT I.D.
DRAWING NUMBER: ISI-11205-P6-002
REV. 0

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4	
11205-E6-001-S01	SUPPORT PART	SHELL TYPE SUPPORT	TMF-1300-1	—	—	—	—	FL10	—	
S02	SEISMIC SUPPORT	SEISMIC SUPPORT		—	—	—	—	RE-EXAMINE	—	
11205-E6-001-W01	B W	WELD TO TUBE WELD	TMC-2500-1	C1.10	—	—	C2.10 C2.11	—	—	
W02	B W	SHELL TO SHELL WELD		—	—	—		—	—	
W03	FILLET WELD	SCRIP TO SHELL WELD	TMC-2500-5	—	C3.10	—		—	—	
W04	BEVEL-* FILLET	NOZZLE TO SHELL WELD	TMC-2500-3	C2.21	C2.21	—		—	—	
W05				C2.21	C2.21	—		—	—	
W06	INSULATING PAD WELD	NOZZLE TO PAD WELD		—	—	—	—	—	—	
IRD1	1" FULL PT. PENETRATION WELD	SUPPORT TO NOZZLE	TMC-2500-4	C2.22	—	—	C2.10 C2.11	—	—	
IRD2										
W07	CONSTRUCTION NOZZLE WELD	1/2 FST REMOVED		—	—	—	—	—	—	OUTLET
W08	NOZZLE WELD	1/2 FST REMOVED		—	—	—	—	—	—	INLET
W09	REINF PAD TO NOZZLE	FILLET WELD	TMC-2500-4	—	C2.51	—	—	—	—	OUTLET
W10	REINF PAD TO SHELL	FILLET WELD	TMC-2500-4	—	C2.51	—	—	—	—	INLET
W11	REINF PAD TO NOZZLE	BEVEL WELD	TMC-2500-4	—	C2.51	—	—	—	—	OUTLET
W12	REINF PAD TO SHELL	BEVEL WELD	TMC-2500-4	—	C2.51	—	—	—	—	INLET

PART NAME	CLASS 1S1	CLASS PROJ.	MATERIAL	NOM. WALL THKN.	DESIGN PRESSURE	DESIGN TEMP.
TUBE SIDE SHELL	2	212	SA-240 TP-304	.875"	600	400
NOZZLE A & B	2	212	SA-358 TP-304 CL.2	.438"	600	400
HEAD	2	212	SA-240 TP-304	.875"	600	400
FLANGE	2	212	SA-182F TP-304	—	600	400
SUPPORT SKIRT	2	212	SA-36	.750	600	400



ELEVATION-RHR HT. EX.
11205-E6-001

NOTES:
1. SEE 1S1 PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.

REFERENCE DWGS.
1. OUTLINE DRAWING VERTICAL RESIDUAL HT. EXCH. — — — — 1AGAF093-G
2. VERTICAL RESIDUAL HT. EXCHANGER. — — — — 1/2×GAA00-112

REVISION	DATE	REVISION	DATE	REVISION 3	DATE 2/26/91	REVISION 2	DATE 8-18-86	REVISION 1	DATE 4-5-85	REVISION 0	DATE 8-13-84
				ADDED REFERENCE DWGS, WELDS NO. W07 THRU W12.		REVISED AS-NOTED		CHANGED EXAMINATION METHOD ADDED S02 COMPONENT SEISMIC SUPPORT		ISSUED FOR INSPECTION	

Southern Company Services, Inc.

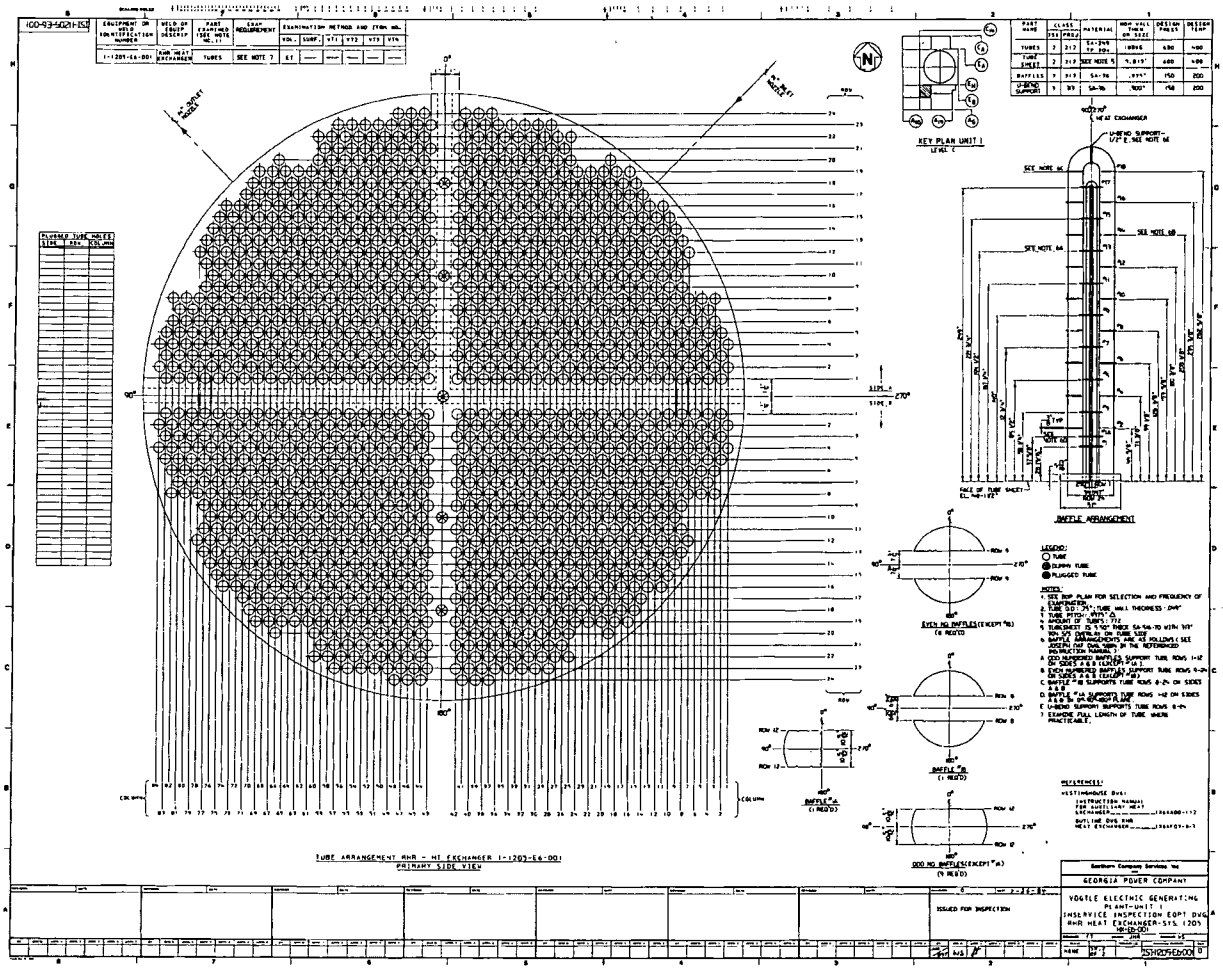
GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT-1
INSERVICE INSPECTION EQPT. DWG.
R.H.R. HEAT EXCHANGER-SYSTEM 1205

DRAWN BGS	CHECKED WS	SCALE NONE	SHT. 1 OF 2	1S1-11205-E6-001	REV 3

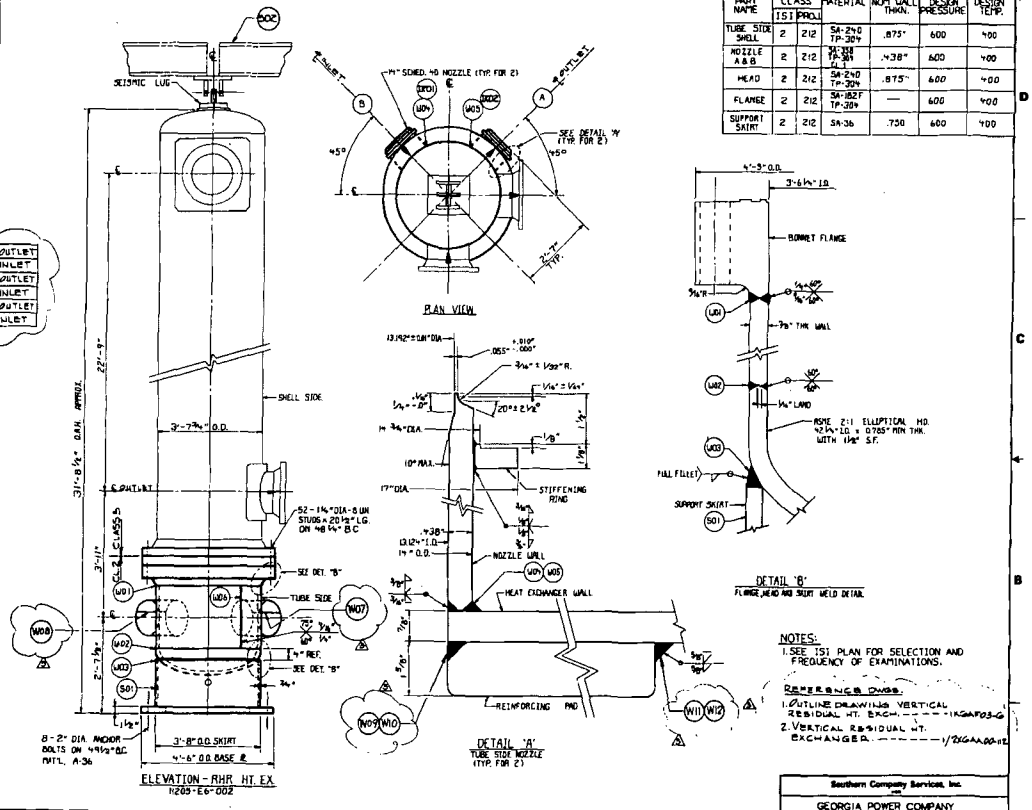
ICI-93-5021-ICI	EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO.)	EXAM REQUIREMENT	EXAMINATION METHOD AND ITEM NO.					
					VIS.	SURF.	VT1	VT2	VT3	VT4
	1-1203-E6-001	AUX HEAT EXCHANGER	TUBES	SEE NOTE 7	E1	—	—	—	—	—

PART NAME	CLASS		MATERIAL	MIN. WALL THICK. OR SIZE	DESIGN PRESS	DESIGN TEMP
	SS	PRES				
TUBES	2	3/2	SA-249 TP. 304	.0065	600	400
TUBE SHEET	2	3/2	SEE NOTE 5	5.0/3"	600	400
BAFFLES	3	3/3	SA-36	.375"	150	200
U-BEND SUPPORT	3	3/3	SA-36	.500"	150	200



EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4	
1205-E6-002-S01	SUPPORT SKIRT	SHELL TO SUPPORT SKIRT WELD	IWF-1300-1	—	—	—	—	F1.10	—	
002	EXCHANGER SEISMIC SUPP.	SUPPORT SKIRT TO BASE PLATE WELD		—	—	—	—	F1.10	—	
1205-E6-002-W01	BW	SHELL TO SHELL WELD	IWC-2500-1	C1.10	—	—	C2.10 C2.11	—	—	
W02	BW	HEAD TO SHELL WELD		—	—	—		—	—	
W03	FILLET WELDS	SUPPORT TO SHELL WELD	IWC-2500-5	—	C3.10	—		—	—	
W04	FILLET	SUPPORT TO SHELL WELD	IWC-2500-3	C2.21	C2.21	—		—	—	
W05				C2.21	C2.21	—		—	—	
W06	INSTRUMENTATION SHELL WELD	NO. 1&2 NOZ/PIPE		—	—	—		—	—	
1ROC	4" SCHEDULE 160 NOZZLE	NOZZLE TO SHELL WELD	IWC-2500-8	C2.22	—	—	C2.10 C2.11	—	—	
1DOC	4" SCHEDULE 160 NOZZLE			—	—	—		—	—	
W07	INSTRUMENTATION NOZZLE WELD	NOZ/WELD		—	—	—		—	—	OUTLET
W08	INSTRUMENTATION NOZZLE WELD	NOZ/WELD		—	—	—		—	—	INLET
W09	4" SCHEDULE 160 TO PIPE	PIPE TO WELD	IWC-2561-4	—	C2.31	—		—	—	OUTLET
W10	4" SCHEDULE 160 TO PIPE	FILLET WELD	IWC-2561-4	—	C2.31	—		—	—	INLET
W11	4" SCHEDULE 160 TO PIPE	PIPE TO WELD	IWC-2561-4	—	C2.31	—		—	—	OUTLET
W12	4" SCHEDULE 160 TO PIPE	PIPE TO WELD	IWC-2561-4	—	C2.31	—		—	—	INLET

PART NAME	CLASS ISI	CLASS PROJ.	MATERIAL	NOM WALL THKN.	DESIGN PRESSURE	DESIGN TEMP.
TUBE SIDE SHELL	2	212	SA-240 TP-304	.875"	600	400
NOZZLE A&B	2	212	SA-358 TP-304 FL-80	.438"	600	400
HEAD	2	212	SA-240 TP-304	.875"	600	400
FLANGE	2	212	SA-182F TP-304	—	600	400
SUPPORT SKIRT	2	212	SA-36	.750	600	400



NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.

REFERENCE DWGS.
1. OUTLINE DRAWING VERTICAL RESIDUAL HT. EXCH. - - - - - - 1KGAF03-G
2. VERTICAL RESIDUAL HT. EXCHANGER - - - - - - - 1/2GAA00-112

REVISION	DATE	
3	2/24/91	ADDED REFERENCE DWGS, WELDS NO. W07 THRU W12.
2	8-18-86	REVISED AS-NOTED
1	4-5-85	CHANGED EXAMINATION METHOD ADDED 402 COMPONENT SEISMIC SUPPORT
0	6-13-84	ISSUED FOR INSPECTION

Southern Company Services, Inc.

GEORGIA POWER COMPANY

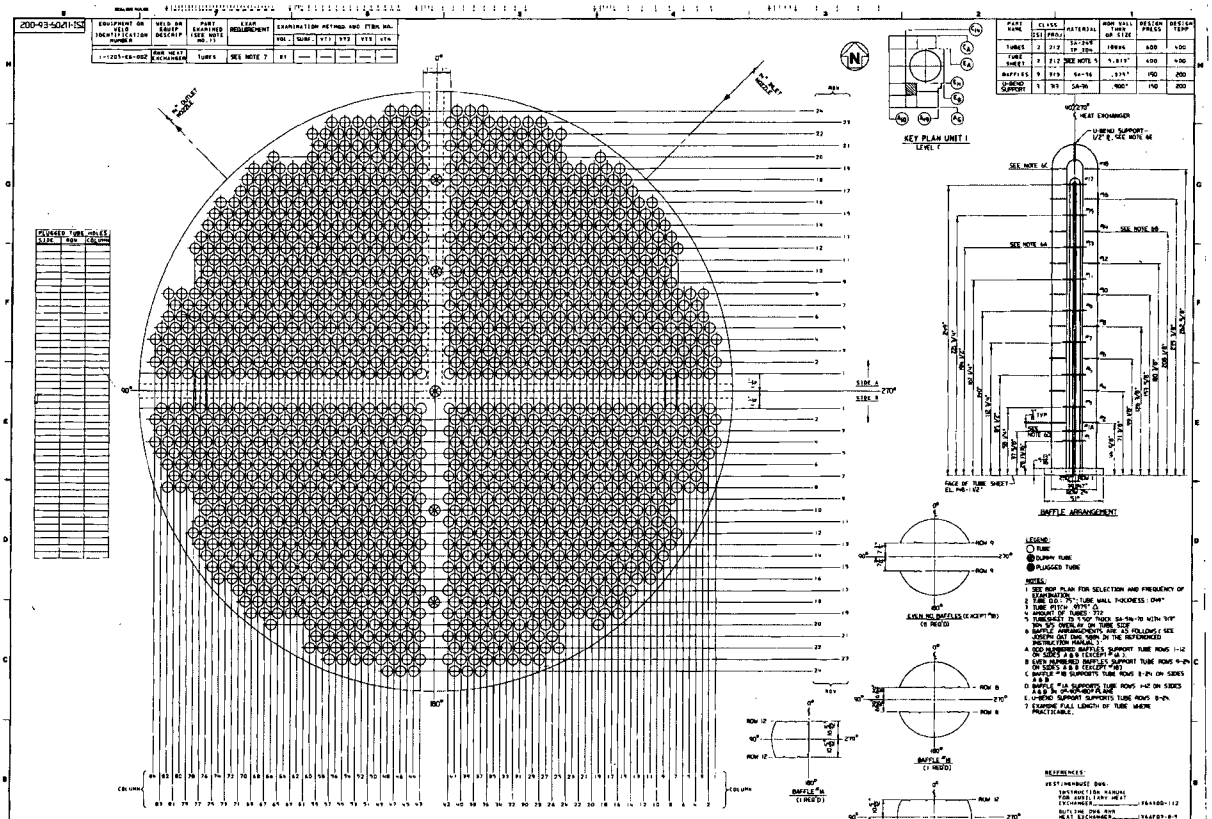
VOGTLE ELECTRIC GENERATING PLANT UNIT-1
INSERVICE INSPECTION EQPT. DWG.
R.H.R. HEAT EXCHANGER-SYSTEM 1205

SCALE	SHT.	PROJECT ID	DRAWING NUMBER	REV.
NONE	SHT. 1 OF 2		ISI-1205-E6-002	3

200-93-6021-15

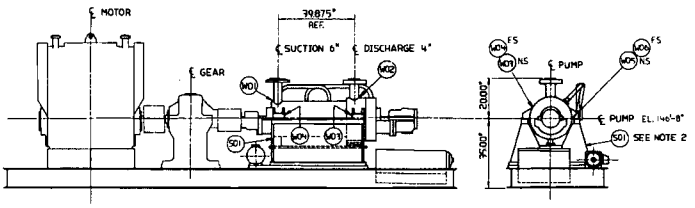
EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP DESCRIP	PART EXAMINED (SEE NOTE NO. 7)	EXAM REQUIREMENT	EXAMINATION METHOD AND ITEM NO.				
				VOL.	SURF.	VT1	VT2	VT3
1-1205-E6-002	RHR HEAT EXCHANGER	TUBES	SEE NOTE 7	B1	—	—	—	—

PART NAME	CLASS SSI	CLASS PROJ	MATERIAL	NOM WALL THKN OR SIZE	DESIGN PRESS	DESIGN TEMP
TUBES	2	2/2	SA-249 TP 304	.10996	600	400
TUBE SHEET	2	2/2	SEE NOTE 5	5.813"	600	400
BAFFLES	9	9/9	SA-36	.375"	150	200
U-BEND SUPPORT	3	3/3	SA-36	.400"	150	200

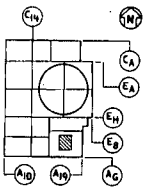


EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO.					
				VOL.	SURF.	VTI	VT2	VT3	VT4
11208-P6-002	CUT FOR CHARGING PUMP	PRESSURE RETAINING COMPONENT	—	—	—	—	C7.30 C7.31	—	—
11208-P6-002-S01	RIGID SUPPORT	CINCH SUPPORT	INF-1300-1	—	—	—	—	F2.10 F2.30	—
11208-P6-002 - W01	BEVEL & FILLET WELD	CASING WELD	INC-2500-8	—	C0.10	—	C7.30 C7.31	—	—
W02				—		—		—	—
W03		TYPICALLY REPLICATED	INC-2500-5	—	C0.70	—	—	—	—
W04				—		—	—	—	—
W05				—		—	—	—	—
W06				—		—	—	—	—

PART NAME	CLASS ISI	CLASS PROJ	MATERIAL	NOM. WALL THKN. OR SIZE	DESIGN PRESS.	DESIGN TEMP.
PUMP CASING	2	212	SA-182 F304	VARIES	2500	300°F
DISCH. NOZZLE	2	212		4"	2500	
SUCTION NOZZLE	2	212		6"	500	
DISCH. FLANGE	2	212		4" 150# R.F.	2500	
SUCTION FLANGE	2	212		6" 150# R.F.	500	
SUPPORT BRACKET	2	212	SA-351 CF8	VARIES	—	—



CENTRIFUGAL CHARGING PUMP
11208-P6-002



KEY PLAN UNIT 1
LEVEL "C"

REFERENCE DWGS:
CENTRIFUGAL CHARGING PUMP OUTLINE ____ 1X6AN02-G5-7
PUMP AND MOTOR DATA _____ 1X6AN02-G6-6

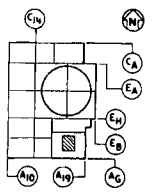
NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. SUPPORT INCLUDES PUMP BASE
3. WALL THICKNESS OF 6" SUCTION NOZZLE IS 0.730" MIN TO 0.765" MAX. (FIELD MEASURED)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 1	DATE 9-10-85	REVISION 0	DATE 8-23-84
								REVISED AS NOTED		ISSUED FOR INSPECTION	

BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5

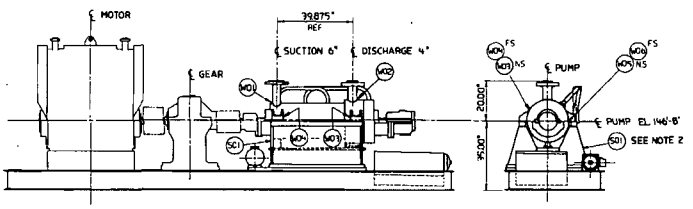
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO.					
				VOL.	SURF.	VT1	VT2	VT3	VT4
11208-P6-003	CUTTING CHARGING PUMP HOLD DOWN SUPPORT	PRESSURE BOUNDARY COMPONENT	—	—	—	—	C7.30 C7.31	—	—
11208-P6-025-S01		CENTER SUPPORT	INF-1320-1	—	—	—	—	F2.10 F2.20	—
11208-P6-003 - W01	BEVEL & FILLET WELD	CASING WELD	INE-2520-8	—	C6.10	—	C7.30 C7.31	—	—
W02						—		—	—
W03		TYPICAL FILLET WELD ATTACH.	INC-2520-5	—	C3.70	—	—	—	—
W04				—		—	—	—	—
W05				—		—	—	—	—
W06				—		—	—	—	—

PART NAME	CLASS ISI	CLASS PROJ	MATERIAL	NOM. WALL THKN. OR SIZE	DESIGN PRESS.	DESIGN TEMP.
PUMP CASING	2	212	SA-182 F304	VARIES	2800	300°F
DISCH. NOZZLE	2	212		4"	2800	
SUCTION NOZZLE	2	212		6"	200	
DISCH. FLANGE	2	212		4"-1500#R.F.	2800	
SUCTION FLANGE	2	212		6"-150#R.F.	200	
SUPPORT BRACKET	2	212	SA-351 CF8	VARIES	—	—



KEY PLAN UNIT 1

LEVEL "C"



CENTRIFUGAL CHARGING PUMP

11208-P6-003

REFERENCE DWGS.

CENTRIFUGAL CHARGING PUMP OUTLINE ____ 1X6AM02-65-7

PUMP AND MOTOR DATA ____ 1X6AM02-66-6

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. SUPPORT INCLUDES PUMP BASE
3. WALL THICKNESS OF 6" SUCTION NOZZLE IS 0.730" MIN TO 0.765" MAX. (FIELD MEASURED)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 1	DATE 9-10-85	REVISION 0	DATE 8-28-84
								REVISED AS NOTED		ISSUED FOR INSPECTION	
BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5		BST	DKG	MB	
								BST	WS	PT	

Southern Company Services, Inc.

FOR

Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT UNIT-1

INSERVICE INSPECTION EQPT. DWG.

CENTRIFUGAL CHARGING PUMP P6-003

SYSTEM 1208

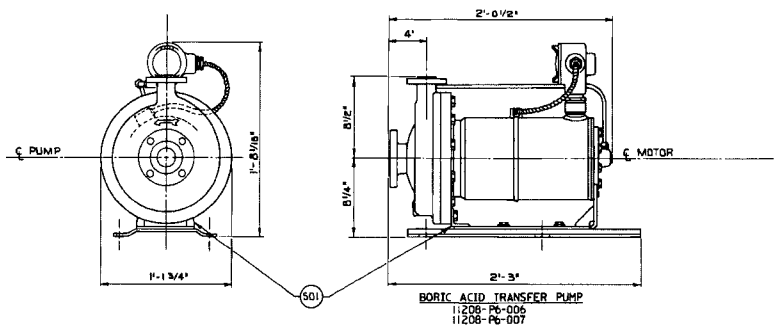
DRAWN BST CHECKED WS

SCALE NONE

PROJECT I.D.

DRAWING NUMBER ISI1208-P6-003 REV. 1

ISI-1208-P6006



BORIC ACID TRANSFER PUMP
1208-P6-006
1208-P6-007

REFERENCES:

CRANE CO. DWG.
BORIC ACID TRANSFER PUMP2.....62251

(BECHTEL LOG NO.....IX6AH02-45-9)

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAM.
2. THIS PUMP IS CODE CLASS A.S.M.E. SECTION III, CLASS 3.
3. ALL SUPPORTS ARE PREFIXED BY PUMP NUMBER:
   EXAMPLE: 1208-P6-006-S01
4. THIS DWG COVERS BORIC ACID TRANSFER PUMPS 1208-P6-006 AND 1208-P6-007.

REVISION	DATE
0	01-30-86

ISSUED FOR INSPECTION

Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT I

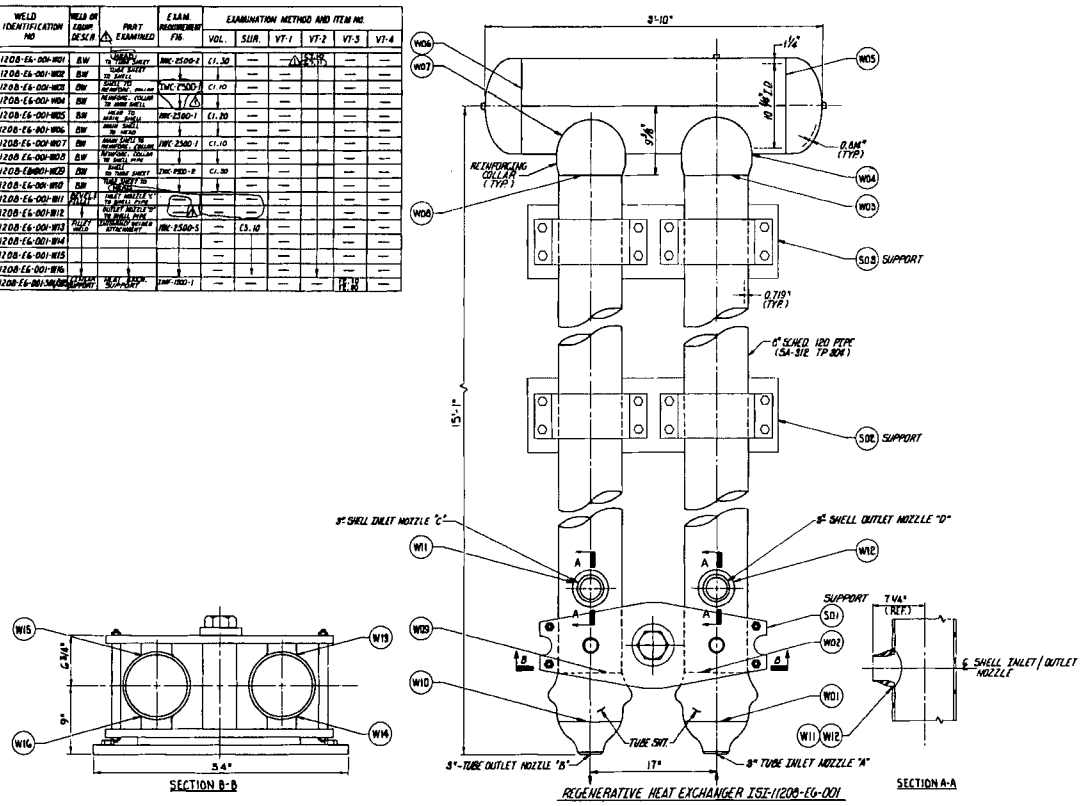
INSERVICE INSPECTION EQUIP. DWG.
BORIC ACID TRANSFER PUMP
SYSTEM 1208

DRAWN REC DESIGN EJD CHECKED WS

SCALE: NONE
PROJECT I.D.
DRAWING NUMBER: ISI-1208-P6006
REV. 0

WELD IDENTIFICATION NO	WELD OR EQUIP. DESCR.	PART EXAMINED	EXAM REQUIREMENT FIG	EXAMINATION METHOD AND ITEM NO. VOL.	SUR.	VT-1	VT-2	VT-3	VT-4
11208-EG-001-W01	B.W.	SHELL TO TUBE SHEET	TMC-2500-2	C1.30	—	—	—	—	—
11208-EG-001-W02	B.W.	TUBE SHEET TO SHELL							
11208-EG-001-W03	B.W.	SHELL TO REINFORCING COLLAR	TMC-2500-1	C1.10	—	—	—	—	—
11208-EG-001-W04	B.W.	REINFORCING COLLAR TO SHELL							
11208-EG-001-W05	B.W.	HEAD TO SHELL	TMC-2500-1	C1.20	—	—	—	—	—
11208-EG-001-W06	B.W.	SHELL TO HEAD							
11208-EG-001-W07	B.W.	NOZZLE TO SHELL	TMC-2500-1	C1.10	—	—	—	—	—
11208-EG-001-W08	B.W.	REINFORCING COLLAR TO SHELL							
11208-EG-001-W09	B.W.	SHELL TO TUBE SHEET	TMC-P500-2	C1.30	—	—	—	—	—
11208-EG-001-W10	B.W.	TUBE SHEET TO CLADDING							
11208-EG-001-W11	BUTT-F WELD	TUBE OUTLET & INLET NOZZLE TO SHELL			—	—			—
11208-EG-001-W12		INLET NOZZLE TO THE SHELL			—	—			—
11208-EG-001-W13	FILLET WELD	SUPPORTED SUPPORT ATTACHMENT	TMC-2500-5	—	C3.10	—			—
11208-EG-001-W14				—	—	—			—
11208-EG-001-W15				—	—	—			—
11208-EG-001-W16				—	—	—			—
11208-EG-001-S01/S02	CLEAR SUPPORT	HEAT SHIELD SUPPORT	TMF-1500-1	—	—	—	—	F8.10 F1.40	—

PART NAME	CLASS ISI	CLASS PROJECT	MATERIAL	NOM. WALL THICKNESS	DESIGN PRESS.	DESIGN TEMP.
3" TUBE IN/OUT NOZZLE	2	2/2	SA182 F304	SCH 160	P5IG SEE NOTE 2	650°F
8" SHELL INLET NOZZLE						
SHELL			SA312-304 & SA240-304	0.719 1.250		
SHELL HEAD			SA240-304	0.84"		
TUBE SHEET			SA-182 F 304	VARIES		
SUPPORTS			SA240-304 & SA36	—		
REINFORCING COLLAR			SA-182 F 304	1.125"		



REGENERATIVE HEAT EXCHANGER ISI-11208-EG-001

REFERENCE DWGS.

1. JOSEPH OAT CORPORATION OUTLINE DWG. REGENERATIVE HEAT EXCHANGER ..... 6085 REV. 6

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. DESIGN PRESSURE TUBE SIDE 3100 PSIG. DESIGN PRESSURE SHELL SIDE 2485 PSIG.

REVISION	DATE	DRAWN	APPR. 1	APPR. 2
0	3-29-85	EJD	WS	CWD
1	9-10-85	BKL	BDT	MB

REVISED AS NOTED

ISSUED FOR INSPECTION

Southern Company Services, Inc.

Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT UNIT # 1

INSERVICE INSPECTION EQUIPMENT DRAWING REGENERATIVE HEAT EXCHANGER 11208-EG-001

DESIGNED G.A.L. DRAWN EJD CHECKED W.A.

SCALE NONE

DRAWING NUMBER ISI-11208-EG-001 REV. 1

WELD IDENTIFICATION NO	WELD OR EQUIP. DESCR.	PART EXAMINED	EXAM. REQT. FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT-1	VT-2	VT-3	VT-4
11208-EG-002-W01	B.W.	UNIT FLANGE TO CHANNEL HEAD	FWC-9909-4	C1.20	—	—	C7.10 C7.11	—	—
11208-EG-002-W02		UNIT NOZ. NECK CHANNEL NOZ.		—	—	—		—	—
11208-EG-002-W03		CHANNEL HEAD TO INLET NOZZLE NECK		—	—	—		—	—

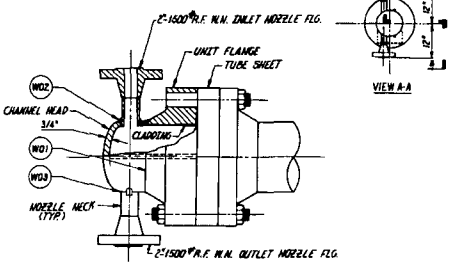
PART NAME	CLASS IST	CLASS PROJECT	MATERIAL	NOM. WALL THICKNESS	DESIGN PRESS	DESIGN TEMP.
CHANNEL HEAD	E	E/B	SA-240 SB-209	0.750"	2445 PSI	660°F
NOZZLE NECKS			SA-312 SB-209	.343"		
UNIT FLANGE			SA-105 SS 304L CLAD	—		
INLET / OUTLET FLANGE			SA-182 SS-316	2" 150# R.F. W.N.		
TUBE SHEET			SA-240 SS-304L	3"		

REFERENCE DWGS.

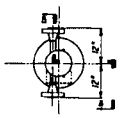
1. ATLAS INDUSTRIAL MFG. CO.-EXCESS LETDOWN HEAT EXCHANGER _____ D-6246-4
   CONSTRUCTION DETAILS _____ D-6245-1

NOTES:

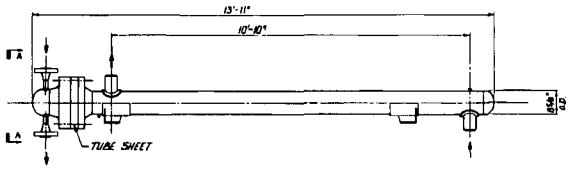
1. SEE IST PLAN FOR SELECTION AND FREQUENCY OF EXAMINATION.



SECTION B-B



VIEW A-A



EXCESS LETDOWN HEAT EXCHANGER 11208-EG-002

REVISION	DATE	DRAWN	CHECKED	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5
1	9-10-85	BJT	MB					
0	4-1-85	EJO	WS	CWB				

REVISED AS NOTED

ISSUED FOR INSPECTION

Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1

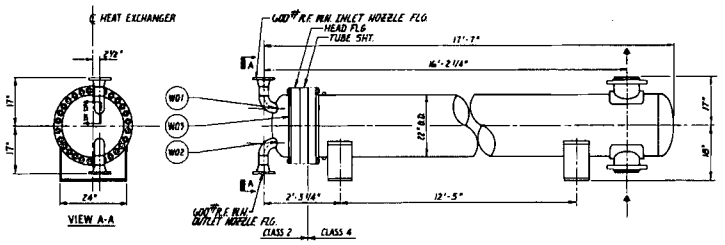
INSERVICE INSPECTION EQUIPMENT DRAWING
EXCESS LETDOWN HEAT EXCHANGER 11208-EG-002

SCALE: NONE

DRAWING NUMBER: 1SI-11208-EG-002 REV. 1

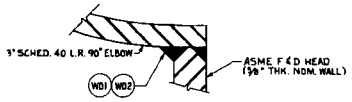
EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTED 1)	EXAM. REQT. FIG.	EXAMINATION METHOD AND ITEM NO.					
				VOL.	SUR.	VT-1	VT-2	VT-3	VT-4
11208-E6-003-W01	BEVEL/FILLET	3" ELBOW (NOZZLE) TO NOZ. NO. 1		—	—	—	C1.11 C1.17	—	—
11208-E6-003-W02		NOZ. NO. 2 TO ELBOW (NOZZLE)		—	—	—	—	—	—
11208-E6-003-W03	BW	NOZ. NO. 3 TO HD. FLG.	PWC-2560-1	C1.10	—	—	—	—	—

PART NAME	CLASS ISI	CLASS PROJ	MATERIAL	NOM. WALL THKN. OR SIZE	DESIGN PRESS.	DESIGN TEMP.
HEAD FLANGE	2	E/C	SA-182 F 304		600 PSI	100°F
HEAD			SA-240 304	5/8"		
NOZZLE NECK			SA-312 304	SCH. 40		
NOZZLE FLANGES			SA-182 F 304	2-600# R.F. W.N. SCH. 40 BORE		
ELBOWS			SA-403 304	SCH. 40		



LETDOWN HEAT EXCHANGER 11208-E6-003

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATION.



SECTION B-B
NO SCALE

REFERENCES:
1. JOSEPH OAT CORP.
DWG. NOS. 5931-6
5932-10
5934-10
5984-13

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 1	DATE 9-12-86	REVISION 0	DATE 4-5-85
								REVISED CHART		ISSUED FOR INSPECTION	

BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5
																					BDT	WS	CWD					EJO	WS	CWD											

Southern Company Services, Inc.
FOR
Georgia Power Company

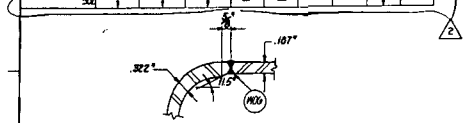
VOGTLE ELECTRIC GENERATING PLANT
UNIT-1
INSERVICE INSPECTION EQPT. DWG.
LETDOWN HEAT EXCHANGER
11208-E6-003

DESIGNED EJO DRAWN WS

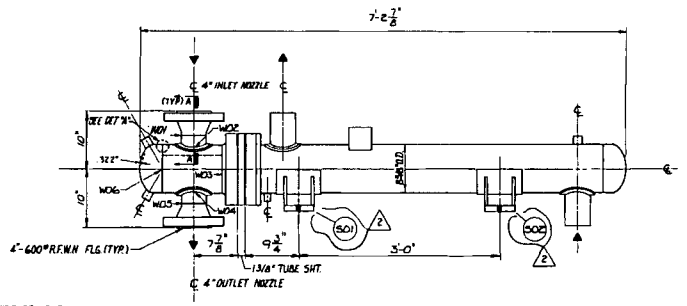
SCALE: NONE | PROJECT I.D. | DRAWING NUMBER: ISI-11208-E6-003 | REV. 1

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP DESCRIP	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT	EXAMINATION METHOD AND ITEM NO.					
				VOL	SURF	VT1	VT2	VT3	VT4
11208-E6-007-W01	B.W.	INLET/SH TB SHELL WELD	—	—	—	—	LT.14 C7.11	—	—
W02		HEADER/SH TB WELD	—	—	—	—		—	—
W03		HEADER/TB TB WELD	DWG-2900-1	C1.10	—	—		—	—
W04		HEADER/TB OUTLET WELD	—	—	—	—		—	—
W05		INLET/SH TB TS	—	—	—	—		—	—
W06		HEAD/SH TB FLANGE WELD	DWG-2900-1	C1.10	—	—		—	—
11208-E6-007-S01	N.K. SUPPORT	L. LIMIT SUPPORT	DWF-1300-1	—	—	—	—	PE.10 PE.30	—
S02				—	—	—	—		—

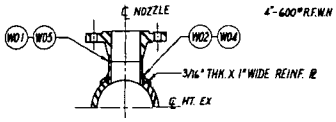
PART NAME	CLASS ISI	CLASS PROJ.	MATERIAL	NOM. WALL THKN. OR SIZE	DESIGN PRESS	DESIGN TEMP.
SHELL HEAD TUBE SIDE	2	212	SA-403 SS-304	.322"	600#	400°F
NOZZL SHELL			SA-240 SS-304	.187"		
TUBE SIDE						
NOZZLE WELD INLET/OUTLET			SA-312 SS-304	SCHED 40S		
NOZZLE FLANGE INLET/OUTLET			SA-182 SS-304	4" 600# RFWN		



DETAIL "A"
NO SCALE



LETDOWN REHEAT HEAT EXCHANGER-11208-E6-007



SECTION A-A

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATION.

REFERENCE DWGS.

AUXILIARY BUILDING PIPING PLAN ---------- X4DL3G03
AUXILIARY BUILDING PIPING SECTIONS ---- X4DL3G14
LETDOWN REHEAT H.E. - 1/2X6AH06-85-E

REVISION	DATE	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5
2	6-23-86	BST	WS	CWD				
1	9-10-85	BST	BKG	MR				
0	9-8-85	BST	WS	CWD				

ADDED CALLOUTS ON SUPPORTS; ADDED SUPPORTS TO LIST. REMOVED EXAM REQUIREMENT FOR W01. ADDED EXAM REQUIREMENT FOR W06.

REVISED AS NOTED REMOVED HOLD ON WELDS W01 AND W05

ISSUED FOR INSPECTION

Southern Company Services, Inc.

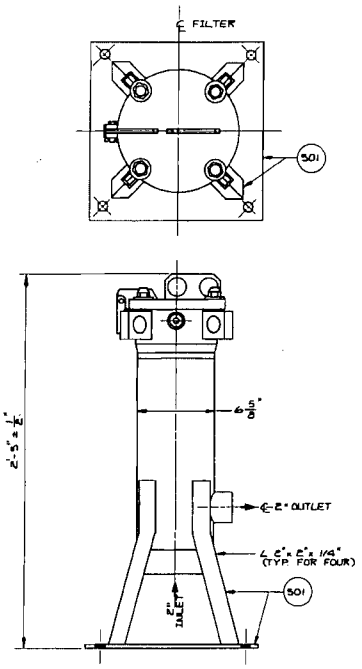
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT UNIT-1
INSERVICE INSPECTION EQPT. DWG.
LETDOWN REHEAT HEAT EXCHANGER
11208-E6-007

DRAWN ATM CHK'D BST APPR. WS

SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-11208-E6-007 | REV 2

151-1208-F6-003



BORIC ACID FILTER
1-1208-F6-003

REFERENCES:

BORIC ACID FILTER OUTLINE ____ 1X6AH07-17
P&ID ____ 1X4DB118

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.

REVISION	DATE
0	87-10-26

ISSUED FOR INSPECTION

Southern Company Services, Inc.
FOR
Georgia Power Company

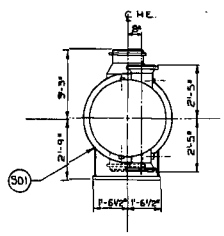
VOGTLE ELECTRIC GENERATING PLANT
UNIT-1
INSERVICE INSPECTION EQPT. DWG.
BORIC ACID FILTER F6-003
SYSTEM 1208

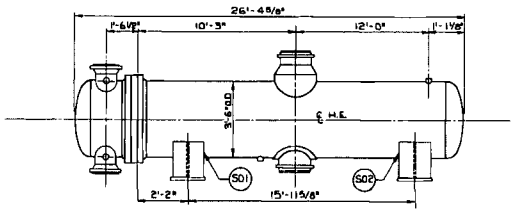
DESIGNED CWD DRAWN BST CHECKED WS

BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5
BST	WS	CWB				

SCALE NONE | PROJECT I.D. | DRAWING NUMBER 151-1208-F6-003 | REV 0

100-93-E1211-152





SPENT FUEL PIT HEAT EXCHANGER
11213-E6-001
11213-E6-002

REFERENCES:

JOSEPH OAT CORP. DWG.
SPENT FUEL PIT HEAT EXCHANGER.....6136

(BECHTEL LOG NO.....IX6AM06-5-1)

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAM.
2. THIS HEAT EXCHANGER IS CODE CLASS A.S.M.E. SECTION III, CLASS 3
3. THIS DWG. COVERS HEAT EXCHANGERS 11213-E6-001 AND 11213-E6-002
4. ALL SUPPORTS ARE PREFIXED BY THE HEAT EXCHANGER NUMBER: EXAMPLE: 11213-E6-001-S01

REVISION	DATE	DESCRIPTION
0	01-24-86	ISSUED FOR INSPECTION

Southern Company Services, Inc.

Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1

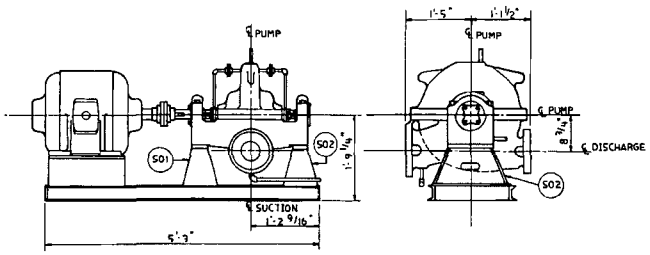
INSERVICE INSPECTION EQUIP. DWG.
SPENT FUEL PIT HEAT EXCHANGER
SYSTEM 1213

DESIGNED REC DRAWN EJO CHECKED WS

DT	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5
EJO	WS	[illegible]				

SCALE NONE

DRAWING NUMBER ISI-11213-E6-001 REV 0



SPENT FUEL PIT PUMP
11213-P6-002
11213-P6-005

REFERENCES:
GOULDS PUMPS, INC. DWG.
SPENT FUEL PIT PUMPS___N242737*1

(BECHTEL LOG NO._____IX6AM03-6-1)

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAM.
2. THIS DWG. COVERS SPENT FUEL PIT PUMPS 11213-P6-002 AND 11213-P6-005
3. THIS PUMP IS CODE CLASS A.S.M.E SECTION III, CLASS 3.
4. ALL SUPPORTS ARE PREFIXED BY THE PUMP NUMBER.
EXAMPLE:
11213-P6-002-S01

REVISION	DATE
0	01-29-86

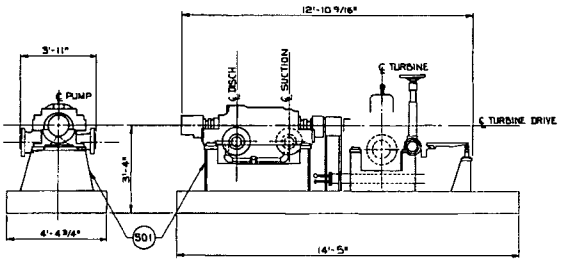
ISSUED FOR INSPECTION

Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1
INSERVICE INSPECTION EQUIP. DWG.
SPENT FUEL PIT PUMPS
SYSTEM 1213

DESIGNED REC DRAWN RMS CHECKED WS
SCALE NONE
PROJECT I.D.
DRAWING NUMBER IS1-11213-P6-002 REV. 0

ISI-1302-P4-001



TURBINE AUXILIARY FEEDWATER PUMP
11302-P4-001

REFERENCES:

INGERSOLL-RAND DWG.
TURBINE AUXILIARY FEEDWATER PUMP.....
.....C-65HMTA86X32B

(BECHTEL LDG NO.....IX4AF03-83-4)
(" " " .....IX4AF03-111-6)

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAM.
2. THIS PUMP IS CODE CLASS A.S.M.E. SECTION III, CLASS 3.
3. ALL SUPPORTS ARE PREFIXED BY THE PUMP NUMBER:
   EXAMPLE: 11302-P4-001-501

REVISION	DATE
D	01-30-86

ISSUED FOR INSPECTION

Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERTING PLANT
UNIT 1

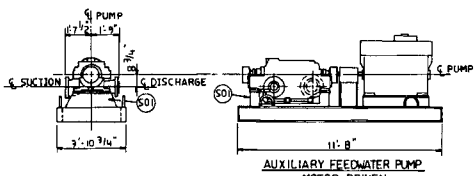
INSERVICE INSPECTION EQUIP. DWG.
TURBINE AUXILIARY FEEDWATEP PUMP
SYSTEM 1302

REC DRAWN EJD CHECKED WS

EJD WS

SCALE: NONE | PROJECT: | DRAWING NUMBER: ISI-11302-P4-001 | REV: 0

200hd-206111-151



AUXILIARY FEEDWATER PUMP
MOTOR DRIVEN
11302-P4-002
11302-P4-003

REFERENCES:

INGERSOLL-RAND DWG.
AUXILIARY FEEDWATER PUMP MOTOR DRIVEN
C-46HMTB86X6A

(BECHTEL LOG NO____IX4AF03-81-3)

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAM.
2. THIS DWG. COVERS AUXILIARY FEEDWATER MOTOR DRIVEN PUMPS 11302-P4-002 AND 11302-P4-003.
3. THIS PUMP IS CODE CLASS A.S.M.E SECTION III, CLASS 3.
4. ALL SUPPORTS ARE PREFIXED BY THE PUMP NUMBER
   EXAMPLE:
   11302-P4-002-SO1

REVISION	DATE
0	01-30-86

ISSUED FOR INSPECTION

Southern Company Services, Inc.

Georgia Power Company

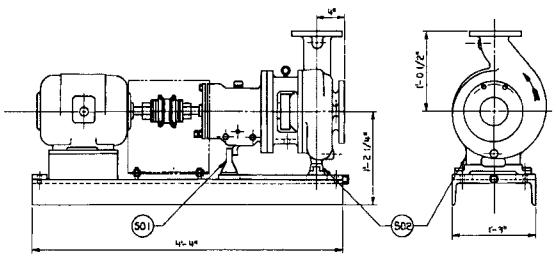
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1
INSERVICE INSPECTION EQUIP. DWG.
AUXILIARY FEEDWATER PUMP-MOTOR DRIVEN
SYSTEM 1302

DRAWN REC | CHECKED RMS | APPROVED WS

RMS | WS | CLB

SCALE NONE | ISI-11302-P4-002 | REV 0

ISI-11592-P6-001



HVAC CHILLED WATER RECIRC PUMP
11592-P7-001
11592-P7-002

REFERENCES:

GOULDS PUMPS, INC
HVAC CHILLED WATER RECIRC.PUMP.
N778895#1

(BECHTEL LDG NO. JX4AJ05-27-5).

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAM.
2. THIS DWG. COVERS PUMPS 11592-P7-001 AND 11592-P7-002
3. THESE PUMPS ARE CODE CLASS A.S.M.E. SECTION III, CLASS 3.
4. ALL SUPPORTS ARE PREFIXED BY THE PUMP NUMBER:
   EXAMPLE: 11592-P7-001-501

REVISION	DATE
0	1-30-86

ISSUED FOR INSPECTION

Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1

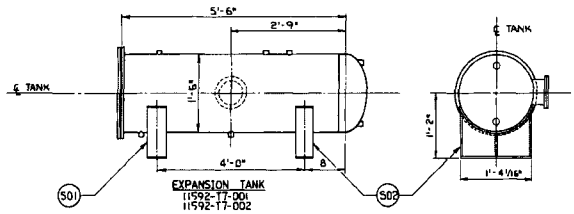
INSERVICE INJECTION EQUIP. DWG.
HVAC CHILLED WATER RECIRC. PUMP
SYSTEM 1592

DRAWN REC CHKD EJO APPD WS

SCALE NONE

DRAWING NUMBER ISI-11592-P7-001 REV. 0

ISI-11592-T7-001



REFERENCES:

RICHMOND ENGINEERING CO., INC. DWG.
EXPANSION TANK.....D-80-47

(BECHTEL LOG NO.....1X4AH04-63-8)

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAM.
2. THIS TANK IS CODE CLASS A.S.M.E. SECTION III, CLASS 3.
3. THIS DWG. COVERS TANK NUMBER 11592-T7-001 AND 11592-T7-002
4. ALL SUPPORTS ARE PREFIXED BY TANK NUMBER:
   EXAMPLE: 11592-T7-001-S01

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 0	DATE 01-30-86
										ISSUED FOR INSPECTION	

BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5
EJO	WS	EJO				

Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT I
INSERVICE INSPECTION EQUIP. DWG.
EXPANSION TANK
SYSTEM 1592

DRAWN REC | CHECKED EJO | APPROVED WS

SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-11592-T7-001 | REV. 0

ISOMETRIC DRAWINGS

The drawings listed in this section give line layout, weld location and numbers, and access expediments. The drawings are intended for ISI use only and should not be confused with design drawings. These drawings are available on aperture cards located in the Document Control at both the VEGP Site and SNC Birmingham.

The following is a listing of the applicable systems and their drawing numbers.

System	Drawing Number	Revision
Reactor Coolant	ISI-11201-001	3
	ISI-11201-002	3
	ISI-11201-003	4
	ISI-11201-004	3
	ISI-11201-005	3
	ISI-11201-006	3
	ISI-11201-007	3
	ISI-11201-008	3
	ISI-11201-009	3
	ISI-11201-010	3
	ISI-11201-011	3
	ISI-11201-012	3
	ISI-11201-029	5
	ISI-11201-030	6
	ISI-11201-031	3
	ISI-11201-036	4
	ISI-11201-042	2
	ISI-11201-046	2
	ISI-11201-048	3
	ISI-11201-049	5
	ISI-11201-050	3
	ISI-11201-051	2
	ISI-11201-053	6
	ISI-11201-056	4
	ISI-11201-057	4
	ISI-11201-058	3
	ISI-11201-059	2
	ISI-11201-060	2
	ISI-11201-208	3

System	Drawing Number	Revision
Nuclear Service Cooling Water	ISI-11202-001 (sh. 1)	3
	ISI-11202-001 (sh. 2)	4
	ISI-11202-140	4
	ISI-11202-141	3
	ISI-11202-188	4
	ISI-11202-189	3
	ISI-11202-192	3
	ISI-11202-196 (sh. 1)	3
	ISI-11202-196 (sh. 2)	3
	ISI-11202-197	3
	ISI-11202-202	2
	ISI-11202-204	2
	ISI-11202-205	2
	ISI-11202-207	2
	ISI-11202-209 (sh. 1)	2
	ISI-11202-209 (sh. 2)	2
	ISI-11202-211	2
	ISI-11202-212 (sh. 1)	4
	ISI-11202-212 (sh. 2)	3
	ISI-11202-216 (sh. 1)	4
	ISI-11202-216 (sh. 2)	2
	ISI-11202-218	2
	ISI-11202-220 (sh. 1)	2
	ISI-11202-220 (sh. 2)	4
	ISI-11202-223 (sh. 1)	3
	ISI-11202-223 (sh. 2)	3
	ISI-11202-225 (sh. 1)	3
	ISI-11202-225 (sh. 2)	3
	ISI-11202-229 (sh. 1)	2
	ISI-11202-229 (sh. 2)	3
	ISI-11202-231 (sh. 1)	3
	ISI-11202-231 (sh. 2)	2
Safety Injection	ISI-11204-001	1
	ISI-11204-003	1
	ISI-11204-004	1
	ISI-11204-006 (sh. 1)	2
	ISI-11204-006 (sh. 2)	3
	ISI-11204-007	2
	ISI-11204-008 (sh. 1)	2
	ISI-11204-008 (sh. 2)	3

System	Drawing Number	Revision
Safety Injection (continued)	ISI-11204-010	4
	ISI-11204-011	3
	ISI-11204-012	6
	ISI-11204-014 (sh. 1)	0
	ISI-11204-014 (sh. 2)	1
	ISI-11204-015	1
	ISI-11204-016	1
	ISI-11204-017	0
	ISI-11204-018	3
	ISI-11204-020	3
	ISI-11204-021	5
	ISI-11204-022	4
	ISI-11204-023	4
	ISI-11204-024	4
	ISI-11204-025	4
	ISI-11204-028 (sh. 1)	2
	ISI-11204-028 (sh. 2)	1
	ISI-11204-029 (sh. 1)	3
	ISI-11204-029 (sh. 2)	1
	ISI-11204-030	2
	ISI-11204-031	1
	ISI-11204-032	2
	ISI-11204-033	3
	ISI-11204-034	3
	ISI-11204-035	3
	ISI-11204-036	4
	ISI-11204-037 (sh. 1)	2
	ISI-11204-037 (sh. 2)	2
	ISI-11204-037 (sh. 3)	0
	ISI-11204-038	3
	ISI-11204-039 (sh. 1)	5
	ISI-11204-039 (sh. 2)	3
	ISI-11204-041	5
	ISI-11204-042	3
	ISI-11204-043	4
	ISI-11204-044	3
	ISI-11204-045	4
	ISI-11204-057 (sh. 1)	4
	ISI-11204-057 (sh. 2)	4
	ISI-11204-057 (sh. 3)	3
	ISI-11204-063 (sh. 1)	3

System	Drawing Number	Revision
Safety Injection (continued)	ISI-11204-063 (sh. 2)	2
	ISI-11204-076 (sh. 1)	3
	ISI-11204-076 (sh. 2)	3
	ISI-11204-077	4
	ISI-11204-078	2
	ISI-11204-079	3
	ISI-11204-120	2
	ISI-11204-121	2
	ISI-11204-122	2
	ISI-11204-123	3
	ISI-11204-124	3
	ISI-11204-125	1
	ISI-11204-126	3
	ISI-11204-127	2
	ISI-11204-169	1
	ISI-11204-177	1
	ISI-11204-192	1
	ISI-11204-197 (sh. 1)	0
	ISI-11204-197 (sh. 2)	1
	ISI-11204-199 (sh. 1)	3
	ISI-11204-199 (sh. 2)	0
	ISI-11204-201	1
	ISI-11204-243	4
	ISI-11204-244	5
	ISI-11204-245	2
	ISI-11204-246	3
Residual Heat Removal	ISI-11205-001	3
	ISI-11205-002	3
	ISI-11205-003 (sh. 1)	4
	ISI-11205-003 (sh. 2)	4
	ISI-11205-004	5
	ISI-11205-005	6
	ISI-11205-006	6
	ISI-11205-007 (sh. 1)	4
	ISI-11205-007 (sh. 2)	6
	ISI-11205-008 (sh. 1)	4
	ISI-11205-008 (sh. 2)	5
	ISI-11205-009	3
	ISI-11205-010	4
	ISI-11205-027	3

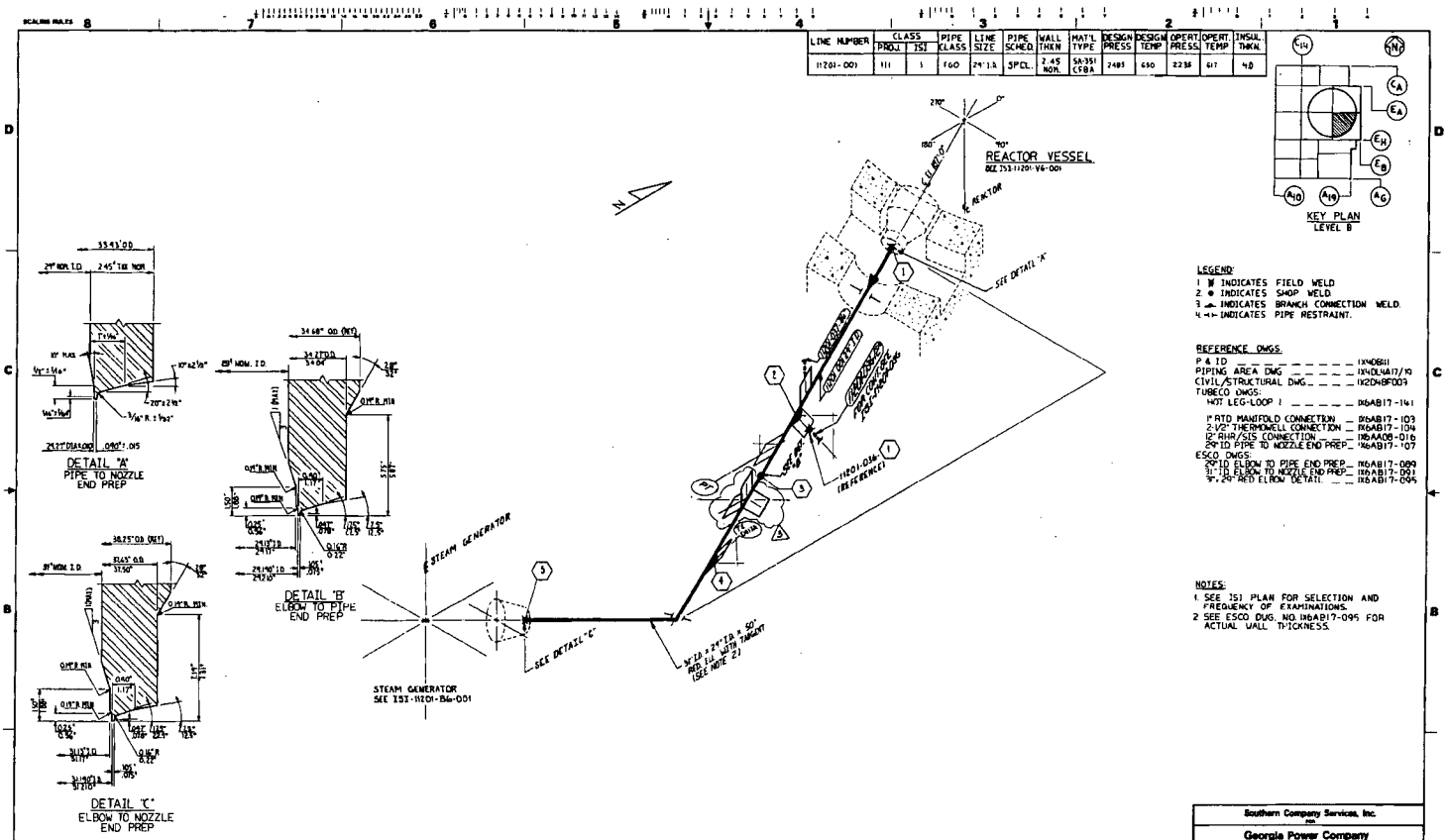
System	Drawing Number	Revision
Residual Heat Removal (continued)	ISI-11205-028	2
	ISI-11205-039	2
	ISI-11205-040	2
Containment Spray	ISI-11206-001	3
	ISI-11206-002	3
	ISI-11206-003	2
	ISI-11206-004	1
	ISI-11206-005 (sh. 1)	1
	ISI-11206-005 (sh. 2)	1
	ISI-11206-006 (sh. 1)	2
	ISI-11206-006 (sh. 2)	1
	ISI-11206-007	1
	ISI-11206-008	2
Chemical and Volume Control	ISI-11208-001	2
	ISI-11208-003 (sh. 1)	2
	ISI-11208-003 (sh. 2)	2
	ISI-11208-003 (sh. 3)	1
	ISI-11208-003 (sh. 4)	2
	ISI-11208-007	4
	ISI-11208-009	4
	ISI-11208-012	3
	ISI-11208-022 (sh. 1)	2
	ISI-11208-022 (sh. 2)	2
	ISI-11208-023 (sh. 1)	2
	ISI-11208-023 (sh. 2)	1
	ISI-11208-023 (sh. 3)	2
	ISI-11208-024	7
	ISI-11208-042	0
	ISI-11208-043	4
	ISI-11208-044	1
	ISI-11208-045	5
	ISI-11208-046	1
	ISI-11208-047	5
	ISI-11208-051	0
	ISI-11208-052	1
	ISI-11208-053	0
	ISI-11208-099	2
	ISI-11208-101	1
	ISI-11208-123 (sh. 1)	2
	ISI-11208-123 (sh. 2)	2

System	Drawing Number	Revision
Chemical and Volume Control - (continued)	ISI-11208-137	5
	ISI-11208-139 (sh. 1)	5
	ISI-11208-139 (sh. 2)	1
	ISI-11208-141	4
	ISI-11208-144	5
	ISI-11208-145	4
	ISI-11208-146	1
	ISI-11208-147	0
	ISI-11208-149	1
	ISI-11208-150	2
	ISI-11208-251	0
	ISI-11208-252	0
	ISI-11208-253	0
	ISI-11208-410	0
	ISI-11208-411	4
	ISI-11208-497	1
	ISI-11208-499	1
Main Steam	ISI-11301-001	2
	ISI-11301-002	2
	ISI-11301-003	2
	ISI-11301-004	2
	ISI-11301-013	6
	ISI-11301-014	5
	ISI-11301-015	5
	ISI-11301-016	3
	ISI-11301-104	3
	ISI-11301-105	2
	ISI-11301-106	2
	ISI-11301-107	3
Auxiliary Feedwater	ISI-11302-029	1
	ISI-11302-030	1
	ISI-11302-031 Sh 1	1
	ISI-11302-031 Sh 2	1
	ISI-11302-032 Sh 1	1
	ISI-11302-032 Sh 2	1
	ISI-11302-033	1
	ISI-11302-034	1
	ISI-11302-035	1
	ISI-11302-084	1
	ISI-11302-085	1
	ISI-11302-086	1

Auxiliary Feedwater (continued)	ISI-11302-107	5
	ISI-11302-108	5
	ISI-11302-109	6
	ISI-11302-110	4
Condensate and Feedwater	ISI-11305-058	2
	ISI-11305-060	2
	ISI-11305-062	3
	ISI-11305-064	2
	ISI-11305-154	3

System	Drawing Number	Revision
Condensate and Feedwater (continued)	ISI-11305-155	3
	ISI-11305-156	2
	ISI-11305-157	3

LINE NUMBER	CLASS PROJ	CLASS ISI	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP	OPERT PRESS	OPERT TEMP	INSUL THKN
1120I-001	III	1	F60	29" I.D.	SPCL.	2.45 NOM.	SA-351 CF8A	2485	650	2235	617	48



LEGEND:
1. ⋈ INDICATES FIELD WELD
2. ● INDICATES SHOP WELD
3. INDICATES BRANCH CONNECTION WELD.
4. INDICATES PIPE RESTRAINT.

REFERENCE DWGS.
P & ID _____ IX4DB111
PIPING AREA DWG _____ IX4DL1A17/19
CIVIL/STRUCTURAL DWG _____ IX2048F009
TUBECO DWGS:
HOT LEG-LOOP 1 _____ IX6AB17-141
1" RTD MANIFOLD CONNECTION _____ IX6AB17-103
2-1/2" THERMOWELL CONNECTION _____ IX6AB17-104
12" RHR/SIS CONNECTION _____ IX6AA08-016
29" ID PIPE TO NOZZLE END PREP _____ IX6AB17-107
ESCO DWGS:
29" ID ELBOW TO PIPE END PREP _____ IX6AB17-089
31" ID ELBOW TO NOZZLE END PREP _____ IX6AB17-091
31" x 29" RED ELBOW DETAIL _____ IX6AB17-094

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. SEE ESCO DWG. NO. IX6AB17-095 FOR ACTUAL WALL THICKNESS.

REVISION	DATE	REVISION	DATE	REVISION 3	DATE 11-19-92	REVISION 2	DATE 5-13-87	REVISION 1	DATE 3-15-85	REVISION 0	DATE 2-27-86
				DELETED LINES NO 1120I-021-1", 1120I-032-1" AND 1120I-238-1" PER DCP 4-VIN 0004.		GENERAL REVISION TO UPDATE FOR ISI		ADDED: NEW WELD NO'S, 29" CAL. BLOCK, ISI CLASSIFICATION DWG.		ISSUED FOR INSPECTION	

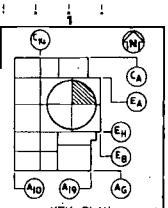
Southern Company Services, Inc.
FOR
Georgia Power Company

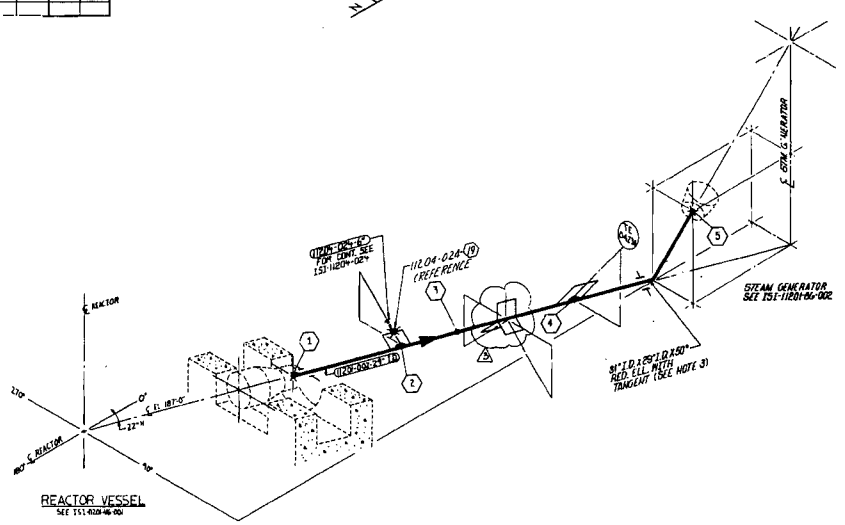
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 001
INSERVICE INSPECTION ISOMETRIC
REACTOR COOLANT-SYSTEM 1201

DESIGNED FT | DRAWN DRC | CHECKED VS
SCALE NONE | PROJECT I.D. | DRAWING NUMBER 1SI-1120I-001 | REV 3

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP	PART EXAMINED (SEE NOTE NO.1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF	VT1	VT2	VT3	VT4
~~1120-002-WM1.0~~	~~BW~~	~~CIRC WELD~~	~~IWB-2500-8~~	~~B9.11~~	~~B9.11~~	—	~~B15.50 B15.54~~		—
WM1.1	~~BW~~	~~FITTING-PENETRATION~~	~~IWB-2500-4~~	~~B9.31~~	~~B9.31~~			—	—
WM1.2	BW	CIRC WELD	~~IWB-2500-8~~	~~B9.11~~	~~B9.11~~	—		—	—
WM1.3	~~BW~~	~~BRANCH CONN WELD~~	~~IWB-2500-8~~	—	~~B9.32~~			—	—
~~WM2.0~~	~~BW~~	~~CIRC WELD~~	~~IWB-2500-8~~	~~B9.11~~	~~B9.11~~	—			—

LINE NUMBER	ISI CLASS	PROJ. CLASS	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT PRESS.	OPERT TEMP.	INSUL. THKN.
1120-002	1	III	FG0	29-1Q	SPCL.	.245 NOM	SA-351 CI.B	2485	650	2235	617	4.0





LEGEND

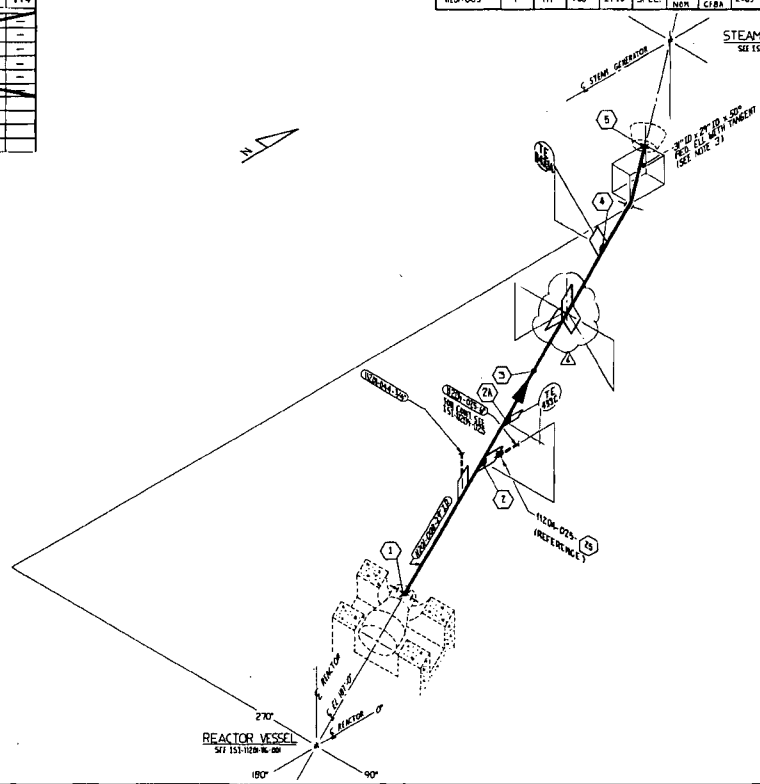
1. X INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ⊥ INDICATES BRANCH CONNECTION WELD
4. ↔ INDICATES PIPE RESTRAINT.

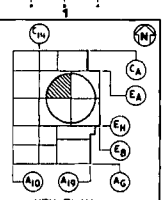
REFERENCE DWGS.

P & ID _ _ _

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO.1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF	VT1	VT2	VT3	VT4
~~1120[illegible]-WELD~~	BW	CIRC. WELD	1HB-2500-8	B9.11	B9.11	—	B15.10 B15.10	—	—
~~WOL1~~	~~FIELD FABRICATION~~	~~BRANCH CONN. WELD~~	~~1HB-2500-11~~	~~B9.31~~	~~B9.31~~	—	—	—	—
~~WOL2~~	~~BW~~	~~CIRC. WELD~~	~~1HB-2500-8~~	~~B9.11~~	~~B9.11~~	—	—	—	—
~~WOL3~~	~~FIELD FABRICATION~~	~~BRANCH CONN. WELD~~	~~1HB-2500-10~~	—	~~B9.32~~	—	—	—	—
~~WOL4~~	~~BW~~	~~CIRC. WELD~~	~~1HB-2500-8~~	~~B9.11~~	~~B9.11~~	—	—	—	—
~~WOL5~~	~~FIELD FABRICATION~~	~~BRANCH CONN. WELD~~	~~1HB-2500-10~~	—	~~B9.32~~	—	B15.10 B15.10	—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MATL TYPE	DESIGN PRESS.	DESIGN TEMP	OPERT PRESS.	OPERT. TEMP	INSUL THKN.
1120-003	1	III	F60	29"ID	SPCL.	2.45 NOM	SA-351 CI8A	2485	650	2235	617	4.0





LEGEND:
1. ⋈ INDICATES FIELD WELD
2. ● INDICATES SHOP WELD.
3. ⊸ INDICATES BRANCH CONNECTION WELD.
4. —— INDICATES PIPE RESTRAINT

REFERENCE DWGS.
P & ID _____ 1X4D811
PIPING AREA DWG _____ 1X4DL1A17/19
CIVIL STRUCTURAL _____ 1X2D4BF002,F004
TUBECO DWGS.
HOT LEG LOOP 3 _____ 1X6AB17-142
3/4" SAMPLE CONNECTION _____ 1X2750-006
FATD MANIFOLD CONNECTION _____ 1X6AB17-103
2-1/2" THERMOWELL CONNECTION _____ 1X6AB17-104
6" RHR/SIS CONNECTION _____ 1X6AA09-16
29"ID PIPE TO NOZZLE END PREP _____ 1X6AB17-107
ESCO DWGS.
29"ID ELBOW TO PIPE END PREP _____ 1X6AB17-89
3"ID ELBOW TO NOZZLE END PREP _____ 1X6AB17-91
3" 29" RED ELBOW DETAIL _____ 1X6AB17-95

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. SEE ISI-1120-001 FOR WELD END PREP.
3. SEE ESCO DWG. NO. 1X6AB17-095 FOR ACTUAL WALL THICKNESS.

REVISION	DATE	
4	11-19-92	DELETED LINES NO. 1120-023-1", 1120-034-1" AND 1120-235-1" PER DCP 91-VINDOR.
3	5-18-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI
2	8-19-85	ADDED TE 433C TO DRAWING. ADDED WELD EA TO DWG AND CHART.
1	3-15-85	ADDED NEW WELD NO'S ADDED 29"& 31" CALIBRATION BLOCK TO REFERENCE DWS.
0	6-25-84	ISSUED FOR INSPECTION

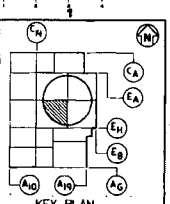
Southern Company Services, Inc.
Georgia Power Company

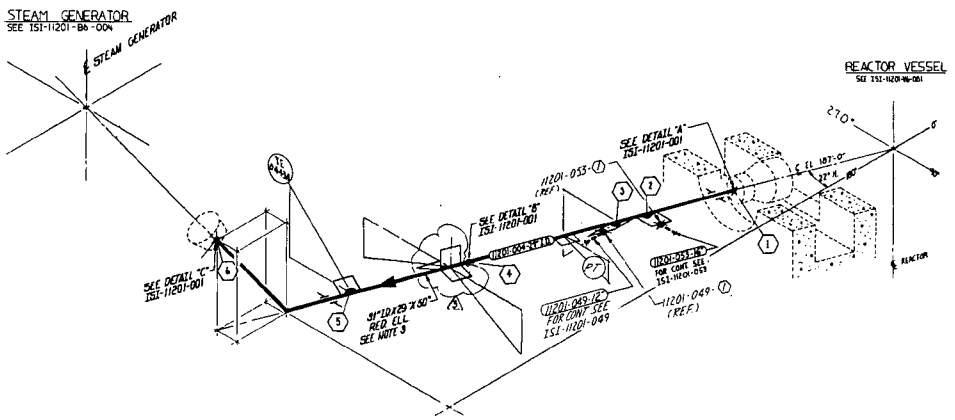
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 003
INSERVICE INSPECTION ISOMETRIC
REACTOR COOLANT - SYSTEM 1201

DESIGNED PT | DRAWN DRC | CHECKED US
SCALE NONE | PROJECT LB | DRAWING NUMBER ISI-1120I-003 | REV 4

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP	PART. EXAMINED (SEE NOTE 1)	EXAM. PROCEDURE-MENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL	SURF	VT1	VT2	VT3	VT4
~~11201-004-WELD~~	~~BUTTWELD~~	~~CIRC WELD~~	~~IWB-2500-B~~	~~B9.11~~	~~B9.11~~	—	~~B17.50 B20.00~~	—	—
W01.1	~~FULL PEN WELD~~	~~BRANCH CONN WELD~~	~~IWB-2500-11~~	~~B9.31~~	~~B9.31~~	—	—	—	—
W01.2	~~FULL PEN WELD~~	~~BRANCH CONN WELD~~	~~IWB-2500-11~~	~~B9.31~~	~~B9.31~~	—	—	—	—
W01.3	~~BUTTWELD~~	~~CIRC WELD~~	~~IWB-2500-8~~	~~B9.11~~	~~B9.11~~	—	—	—	—
W01.4	~~FULL PEN WELD~~	~~BRANCH CONN WELD~~	~~IWB-2500-11~~	—	~~B9.32~~	—	—	—	—
~~W02.0~~	~~BUTTWELD~~	~~CIRC WELD~~	~~IWB-2500-8~~	~~B9.11~~	~~B9.11~~	—	—	—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11201-004	1	III	F40	29"I.D.	SPCL.	2.45 NOM.	SA351 CF8A	2485	650	2235	617	4.0





LEGEND:
1. ⊠ INDICATES FIELD WELD
2. ● INDICATES SHOP WELD.
3. INDICATES BRANCH CONNECTION WELD
4. INDICATES PIPE RESTRAINT

REFERENCE DWGS.

P & ID	1X4DB111
PIPING AREA DWG.	1X4DLN417/19
CIVIL STRUCTURAL	1X2DMBF002
TUBECO DWGS:	
HOT LEG-LOOP 4	1X6AB17 - 143
1" RTD MANIFOLD CONNECTION	1X6AB17 - 103
2-1/2" THERMOWELL CONNECTION	1X6AB17 - 104
12" RHR/SIS CONNECTION	1X6AA08 - 16
14" PRESSURIZER SURGE LINE CONNECTION	1X6AA08 - 16
29" I.D. PIPE TO NOZZLE END PREP	1X6AB17 - 107
ESCO DWGS:	
29" I.D. ELBOW TO PIPE END PREP	1X6AB17 - 89
31" I.D. ELBOW TO NOZZLE END PREP	1X6AB17 - 91
31" x 29" RED ELBOW DETAIL	1X6AB17 - 95

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. SEE ISI-11201-001 FOR WELD END PREPS.
3. SEE ESCO DWG NO. 1X6AB17-95 FOR ACTUAL WALL THICKNESS.

REVISION	DATE	REVISION	DATE	REVISION 3	DATE 11-11-92	REVISION 2	DATE 5-18-87	REVISION 1	DATE 3-15-85	REVISION 0	DATE 12-19-83
				DELETED LINES NO. 11201-024-1" 11201-035-1" AND 11201-236-1" PER DCP #1-VIN004		GENERAL REVISION TO UPDATE DRAWING FOR ISI		ADDED: NEW WELD NO'S. 29" CAL. BLOCK, ISI CLASSIFICATION DWG.		ISSUED FOR INSPECTION	
BY	CHK'D	APPR 1	APPR 2	WJS	CLW	EJM	RLB	BKG	WJS	DRC	RJS

Southern Company Services, Inc.

Georgia Power Company

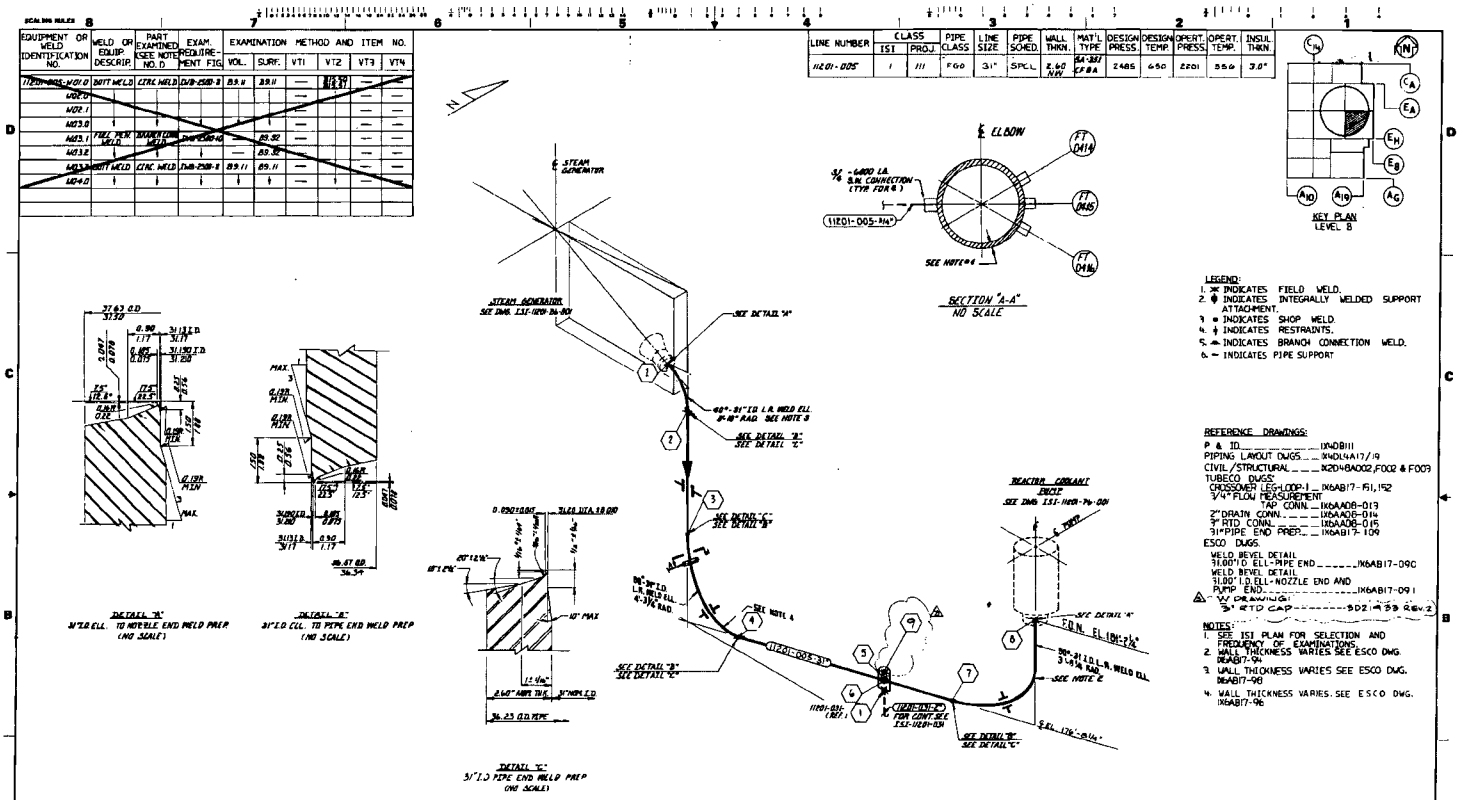
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 004
INSERVICE INSPECTION ISOMETRIC
REACTOR COOLANT-SYSTEM 1201

DRAWN BY FT | DRAWN BY DRC | CHECKED BY WJS

SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-11201-004 | REV. 3

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11201-005-W01.0	BUTT WELD	CIRC. WELD	IWB-2500-8	B9.11	B9.11	—	B9.30 B9.31	—	—
W02.0						—		—	—
W02.1						—		—	—
W03.0						—		—	—
W03.1	FILL PER WELD	EXAMINATION WELD	IWB-2500-16		B9.32	—		—	—
W03.2				—	B9.32	—		—	—
W03.3	BUTT WELD	CIRC. WELD	IWB-2500-8	B9.11	B9.11	—		—	—
W04.0						—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11201-005	1	III	F60	31"	SPCL	2.60 NW	SA-387 GR B & SA-516 GR 70	2485	650	2201	556	3.0"



LEGEND:
1. ✱ INDICATES FIELD WELD.
2. ⬮ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
3. ● INDICATES SHOP WELD.
4. ⏚ INDICATES RESTRAINTS.
5. ⚠ INDICATES BRANCH CONNECTION WELD.
6. ⊸ INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:
P & ID 1X4DB111
PIPING LAYOUT DWGS 1X4DL4A17/19
CIVIL/STRUCTURAL ..... 1X2048A002, F002 & F009
TUBECO DWGS:
CROSSOVER LEG-LOOP-1 ..... 1X6AB17-151, 152
3/4" FLOW MEASUREMENT TAP CONN. 1X6AA08-013
2" DRAIN CONN. 1X6AA08-014
3" RTD CONN. 1X6AA08-015
31" PIPE END PREP. 1X6AB17-109
ESCO DWGS:
WELD BEVEL DETAIL
31.00" I.D. ELL-PIPE END 1X6AB17-090
WELD BEVEL DETAIL
31.00" I.D. ELL-NOZZLE END AND PUMP END 1X6AB17-091
W DRAWING:
3" RTD CAP ..... 5D21-A33 REV. 2

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. WALL THICKNESS VARIES SEE ESCO DWG. 1X6AB17-94.
3. WALL THICKNESS VARIES SEE ESCO DWG. 1X6AB17-96.
4. WALL THICKNESS VARIES. SEE ESCO DWG. 1X6AB17-96.

REVISION	DATE	REVISION	DATE	REVISION 3	DATE 2-14-92	REVISION 2	DATE 5-18-87	REVISION 1	DATE 3-15-85	REVISION 0	DATE 4-11-84
				DELETED LINE 11201-116 PER DCP A1-V1N009. ADDED WELD # 4 AND 31" WELD CAP. ADDED NEW REFERENCE DWG.		GENERAL REVISION TO UPDATE DWG. FOR ISI		ADDED NEW WELD NUMBERS. ADDED REFERENCE.		ISSUED FOR INSPECTION	
BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4
				LJS	DRC	CAC	RLB	RSC	DGC	BST	LJS

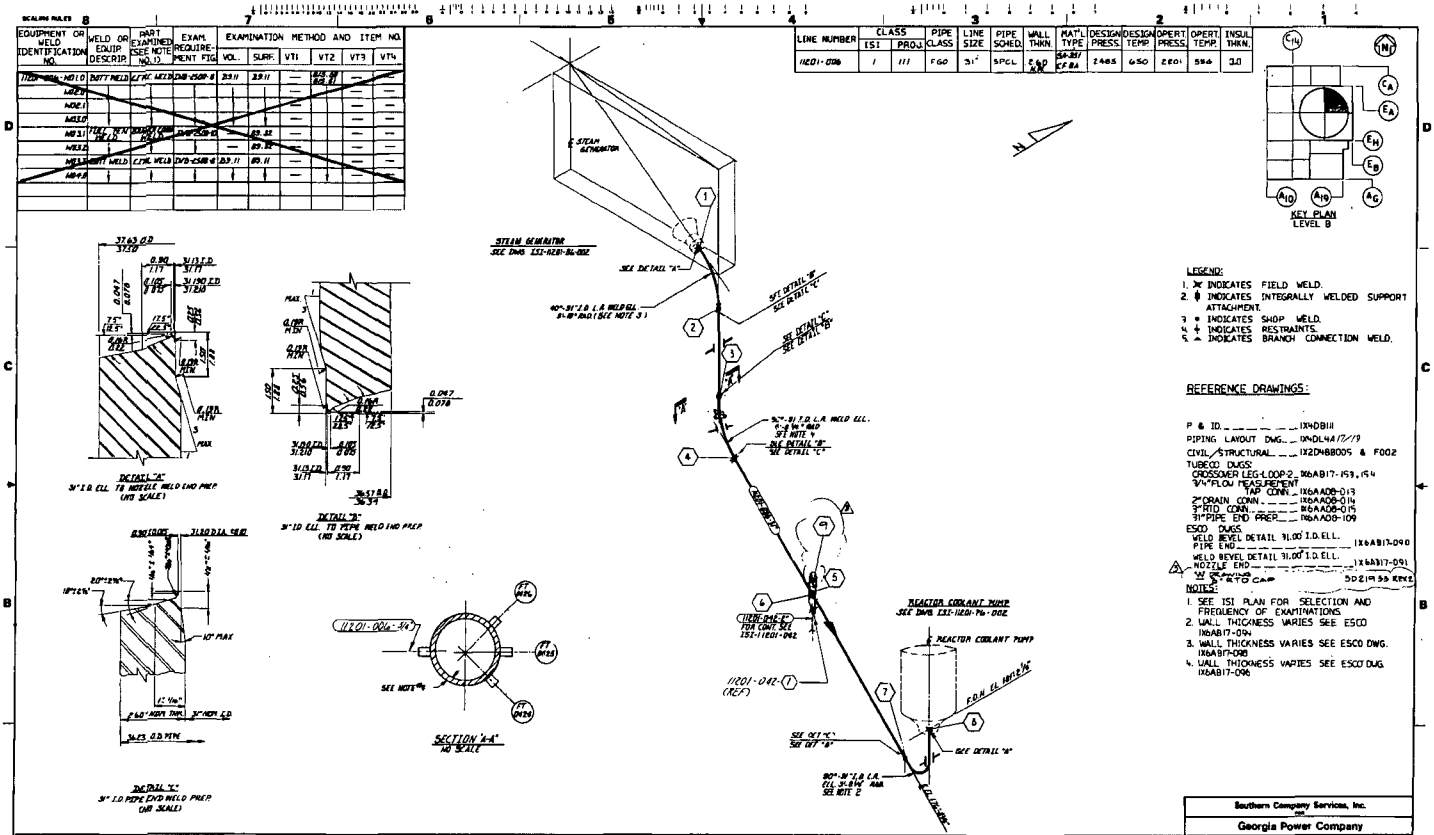
Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 005
INSERVICE INSPECTION ISOMETRIC
REACTOR COOLANT-SYSTEM 1201

DESIGNED FT | DRAWN E.A.L. | CHECKED W.S.
SCALE NONE | FREQUENCY LB | DRAWING NUMBER 1SI-11201-005 | REV. 3

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM. REQUIREMENT FIG	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
1120[illegible]-006-WD10	BUTT WELD	2" FHT. WELD	DWG-2500-B	B9.11	B9.11	—	B12.20 B12.21	—	—
WD20						—	—	—	—
WD21						—	—	—	—
WD30						—	—	—	—
WD31	FILET WELD	[illegible]	DWG-2500-C		B9.32	—	—	—	—
WD32				—	B9.32	—	—	—	—
WD33	BUTT WELD	2" FHT. WELD	DWG-2500-B	B9.11	B9.11	—	—	—	—
WD40						—	—	—	—

LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11201-006	1	III	F60	31"	SPCL	5.40 / .438	SA-351 CF8A	2485	650	2201	596	3.0



REVISION	DATE	
5	3-14-92	DELETED LINE 11201-117 PER DCP 91-VN0004. ADDED WELDER AND 3" WELD CAP. ADDED NEW REFERENCE DWG.
2	5-18-87	GENERAL REVISION TO UPDATE DWG FOR 1S1
1	3-15-85	ADDED NEW WELD NUMBERS. ADDED REFERENCES.
0	11-16-83	ISSUED FOR INSPECTION

Southern Company Services, Inc.

Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 – LINE NO. 006
INSERVICE INSPECTION ISOMETRIC
REACTOR COOLANT – SYSTEM 1201

DESIGNED F.T. DRAWN EAL CHECKED WS

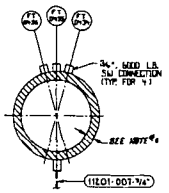
BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	APPR. 6
WS	WFL	WC					
EBH	RLB	DBC					
DST	WS	CWD					
EAL	WS						

SCALE NONE

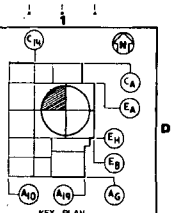
DRAWING NUMBER 1S1-11201-006 REV. 3

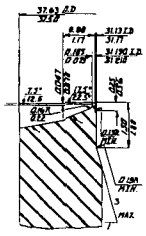
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE 1) NO. D	EXAM. PROCEDURE-MENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
~~WED-0017-W01.0~~	~~BUTT WELD~~	~~CTRL WELD~~	~~CVB-2500-P~~	~~B9.11~~	~~B9.11~~	-	~~B9.30 B9.31~~	-	-
~~W02.0~~						-		-	-
~~W03.0~~						-		-	-
~~W03.1~~	~~PIPE TO SAF. END~~	~~BRANCH CONN. WELD~~	~~CVB-2500-B~~		~~B9.32~~	-		-	-
~~W03.2~~				-		-		-	-
~~W03.3~~	~~BUTT WELD~~	~~CTRL WELD~~	~~CVB-2500-B~~	~~B9.11~~	~~B9.11~~	-		-	-
~~W04.0~~						-		-	-

LINE NUMBER	CLASS PROJ	CLASS ISI	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11201-007	111	1	FG0	31"	SPCL	2.60 NW	SA-351 CF8A	2485	650	2201	556	3.0

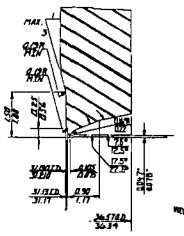


SECTION A-A
NO SCALE

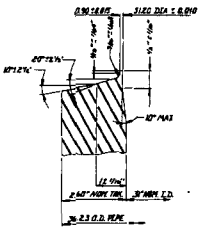




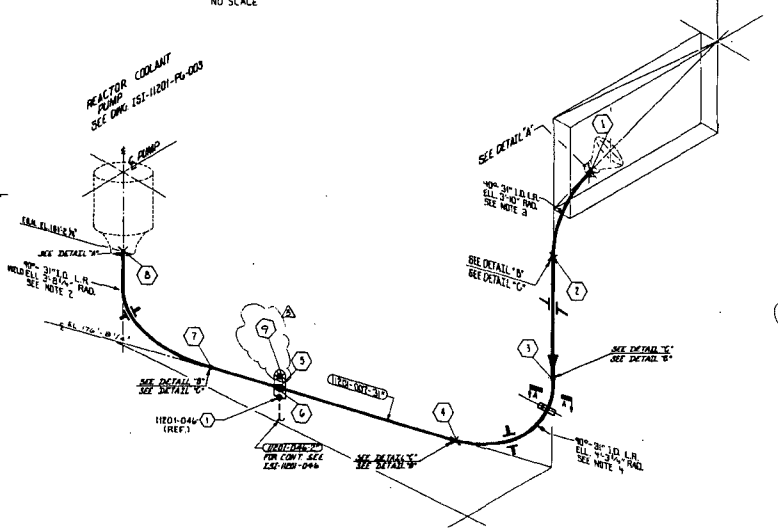
DETAIL "A"
31" I.D. ELL TO NOZZLE END PREP
(NO SCALE)



DETAIL "B"
31" I.D. ELL TO PIPE END
(NO SCALE)



DETAIL "C"
31" I.D. PIPE END PREP
(NO SCALE)



LEGEND:
1. ⋈ INDICATES FIELD WELD.
2. ⊕ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
3. ⊕ INDICATES SHOP WELD.
4. ⊕ INDICATES RESTRAINTS.
5. ⊸ INDICATES BRANCH CONNECTION WELD.

REFERENCE DRAWINGS:
P & ID. ——— 1X4DB111
PIPING LAYOUT DWGS. ——— 1X4DL4A17/19
CIVIL/STRUCTURAL ——— 1X204BA005,A006,B005
TUBECO DWGS.
CROSSOVER LEG-LOOP-3 ——— 1X6AB17-155,156
3/4" FLOW MEASUREMENT TAP CONN ——— 1X6AA08-013
2" DRAIN CONN. ——— 1X6AA08-014
3" RTD CONN. ——— 1X6AA08-015
31" PIPE END PREP. ——— 1X6AA08-109
ESCO DWGS.
WELD BEVEL DETAIL 31.00 I.D.
ELBOW PIPE END ——— 1X6AB17-90
WELD BEVEL DETAIL 31.00 I.D. ELBOW NOZZLE END 1X6AB17-91
WDRAWING: 3" RTD CAP ——— 1D2E1158 REV. 2

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. WALL THICKNESS VARIES SEE ESCO DWG. 1X6AB17-094
3. WALL THICKNESS VARIES SEE ESCO DWG. 1X6AB17-098
4. WALL THICKNESS VARIES SEE ESCO DWG. 1X6AB17-096

REVISION	DATE	DESCRIPTION
3	3-14-92	DELETED LINE 11201-118 PER DCP #1-V1-0004. ADDED WELDS 4 AND 5 WELD CAP. ADDED NEW REFERENCE DWG.
2	5-12-87	GENERAL REVISION TO UPDATE FOR ISI
1	3-15-85	ADDED NEW WELD NO'S ADDED ISI CLASSIFICATION DWG. NO: AND 31" CALIBRATION BLOCK DWG. NO: TO REF. DWGS.
0	11-21-83	ISSUED FOR INSPECTION

Southern Company Services, Inc.
for
Georgia Power Company

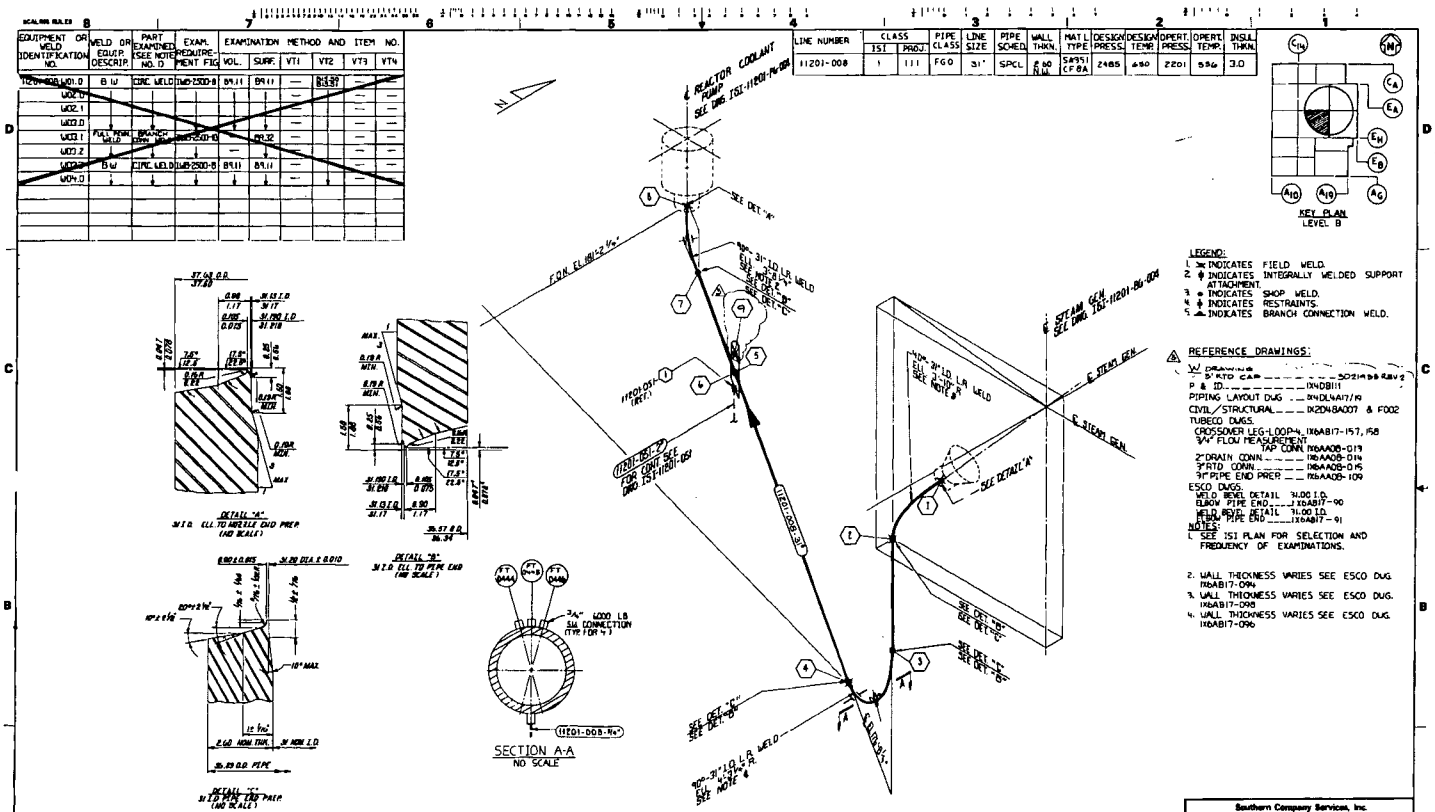
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO.007
INSERVICE INSPECTION ISOMETRIC
REACTOR COOLANT-SYSTEM 1201

DRAWN	CHK'D	APPR.1	APPR.2	APPR.3	APPR.4	APPR.5	APPR.6
WJS	JEC	GAC					
RLB	PKL	JPC					
WJS	C-LD						
RSG	WS						

SCALE FT | WEIGHT RSG | DIMENSIONS US
NONE
PROJECT NO. | DRAWING NUMBER ISI-11201-007 | REV. 3

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE) NO. D	EXAM. REQUIREMENT FIG	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11201-008 W01.0	B W	CIRC. WELD	1MB-2500-8	B9.11	B9.11	—	B13.39 B13.37	—	—
W02.0								—	—
W02.1								—	—
W03.0								—	—
W03.1	FULL PENR. WELD	BRANCH CONN. NOZ.	1MB-2500-10		B9.32			—	—
W03.2				—				—	—
W03.3	B W	CIRC. WELD	1MB-2500-8	B9.11	B9.11	—		—	—
W04.0								—	—

LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11201-008	1	III	FG0	31"	SPCL	.620 N.W.	SA351 CF8A	2485	650	2201	596	3.0



LEGEND:
1. ⋊ INDICATES FIELD WELD.
2. ⊕ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
3. ● INDICATES SHOP WELD.
4. ⊕ INDICATES RESTRAINTS.
5. ⊥ INDICATES BRANCH CONNECTION WELD.

REFERENCE DRAWINGS:
W DRAWINGS
5" RTD CAP _____ 5021498 REV 2
P & ID _____ 1X4DB111
PIPING LAYOUT DWG _____ 2X4DL4A17/K
CIVIL/STRUCTURAL _____ 1X2D48007 & F002
TUBECO DWGS.
CROSSOVER LEG-LOOP-4 _____ 1X6AB17-157, 158
3/4" FLOW MEASUREMENT TAP CONN. 1X6AA08-019
2" DRAIN CONN. _____ 1X6AA08-014
5" RTD CONN. _____ 1X6AA08-015
31" PIPE END PREP _____ 1X6AA08-109
ESCO DWGS.
WELD BEVEL DETAIL 34.00 I.D.
ELBOW PIPE END _____ 1X6AB17-90
WELD BEVEL DETAIL 31.00 I.D.
PIPE END _____ 1X6AB17-91
NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. WALL THICKNESS VARIES SEE ESCO DWG. 1X6AB17-094
3. WALL THICKNESS VARIES SEE ESCO DWG. 1X6AB17-098
4. WALL THICKNESS VARIES SEE ESCO DWG. 1X6AB17-096

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
				5	9-19-96	2	5-18-87	1	3-15-85	0	11-29-83
				DELETED LINE 11201-114 PER DCP 91-V1U009. ADDED WELD 7 AND 8" WELD CAP. ADDED NEW REFERENCE DWG.		GENERAL REVISION TO UPDATE DRAWING FOR ISI		ADDED: NEW WELD NO'S, 31" CAL. BLOCK, ISI CLASSIFICATION DWG.		ISSUED FOR INSPECTION	

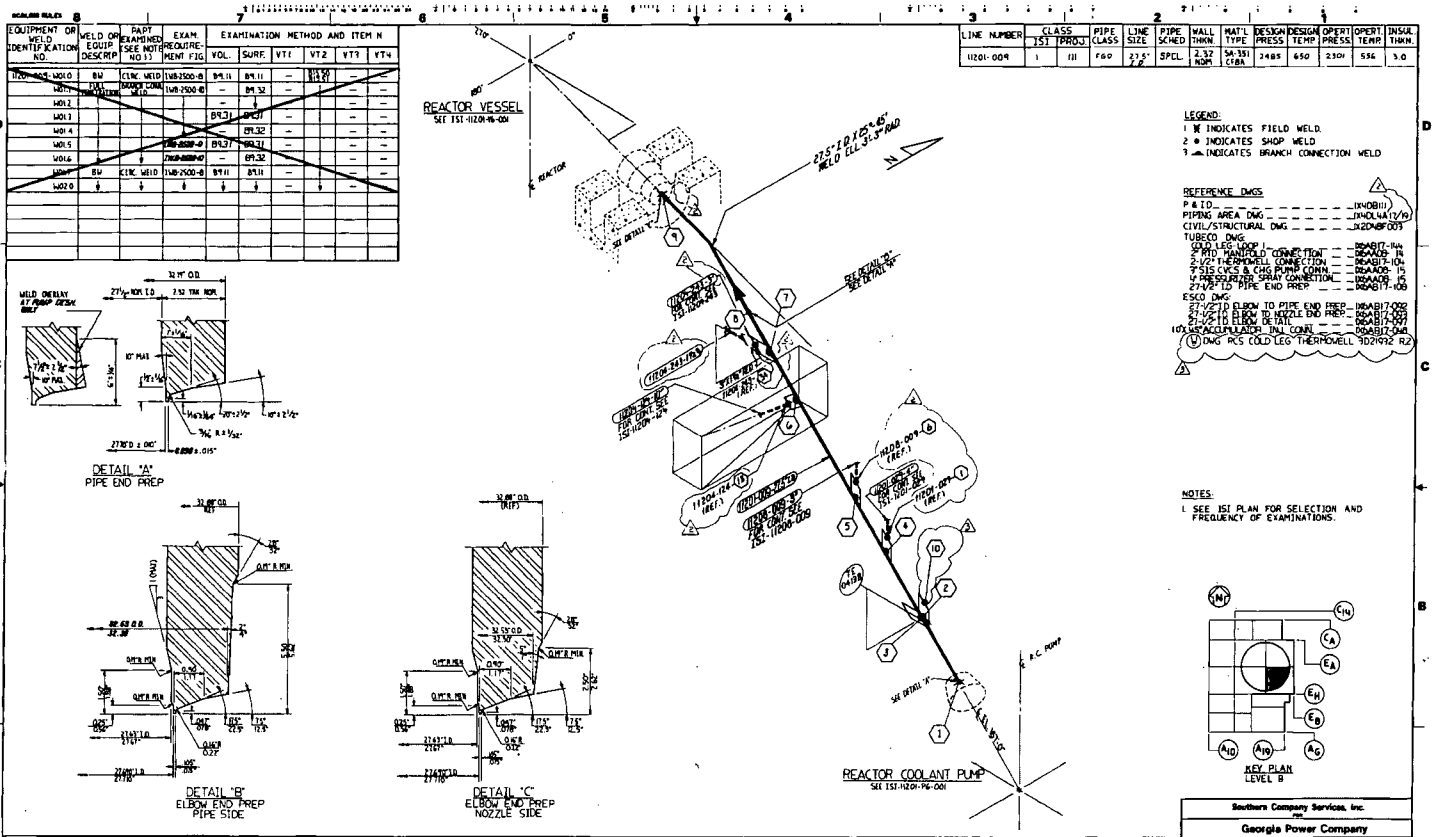
Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 008
INSERVICE INSPECTION ISOMETRIC
REACTOR COOLANT - SYSTEM 1201

DRAWN FT | DRAWN RSG | DESIGNED WS
SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-11201-008 | REV. 5

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP		PAPT EXAMINED SEE NOTE NO 13	EXAM. REQUIREMENT FIG	EXAMINATION METHOD AND ITEM N VOL.	SURF.	VT1	VT2	VT3	VT4
11201-009-W010	BW	CIRC WELD	IWB-2500-8	B9.11	B9.11	–	B15.50 B15.51	–	–	–
W011	FILL	BRANCH CONN WELD	IWB-2500-10	–	B9.32	–		–	–	–
W012				B9.31	B9.31	–		–	–	–
W013					B9.32	–		–	–	–
W014				B9.31	B9.31	–		–	–	–
W015					B9.32	–		–	–	–
W016				–	B9.11	–		–	–	–
W017	BW	CIRC WELD	IWB-2500-8	B9.11	B9.11	–		–	–	–
W020						–		–	–	–

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN.	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP	OPERT PRESS	OPERT TEMP.	INSUL THKN.
11201-009	1	III	F60	27.5" I.D.	SPCL	2.32 NOM	SA-351 CF8A	2485	650	2301	556	3.0



LEGEND:
1 ⊠ INDICATES FIELD WELD.
2 ● INDICATES SHOP WELD
3 ⌓ INDICATES BRANCH CONNECTION WELD

REFERENCE DWGS
P & ID ____ 1X1DB111
PIPING AREA DWG ____ 1X1DL1A1(1/8)
CIVIL/STRUCTURAL DWG ____ 1X2DN8F003
TUBECO DWG:
COLD LEG LOOP 1
2" RTD MANIFOLD CONNECTION ____ D6AA09-114
2-1/2" THERMOWELL CONNECTION ____ D6AB17-104
3" SIS CVCS & CHG PUMP CONN. ____ D6AA09-115
4" PRESSURIZER SPRAY CONNECTION ____ D6AA09-116
27-1/2" I.D. PIPE END PREP ____ D6AB17-108
ESCO DWG:
27-1/2" I.D. ELBOW TO PIPE END PREP ____ D6AB17-009
27-1/2" I.D. ELBOW TO NOZZLE END PREP ____ D6AB17-009
27-1/2" I.D. ELBOW DETAIL ____ D6AB17-007
10" ACCUMULATOR INJ. CONN. ____ D6AB17-040
(U) DWG RCS COLD LEG THERMOWELL 3D2N972 R2

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.

REVISION	DATE	REVISION	DATE	REVISION 3	DATE 4-11-92	REVISION 2	DATE 5-18-87	REVISION 1	DATE 3-15-85	REVISION 0	DATE 11-17-83
				DELETED LINE 11201-025 PER DCP 91-11N0009 ADDED 4" THERMOWELL (WELD 101) ADDED NEW REF DRAWING		GENERAL REVISION TO UPDATE DRAWING FOR ISI		ADDED: NEW WELD NO'S, 27.5" CAL. BLOCK, ISI CLASSIFITION DWG.		ISSUED FOR INSPECTION	
BY	CHK'D	APPR 1	APPR 2	GS		RLD		BKG		DRC	

Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO.009
INSERVICE INSPECTION ISOMETRIC
REACTOR COOLANT-SYSTEM 1201

DRAWN F.T. | DESIGN DRC | ENGINEER W.S.

SCALE NONE | DRAWING NUMBER ISI-11201-009 | REV 3

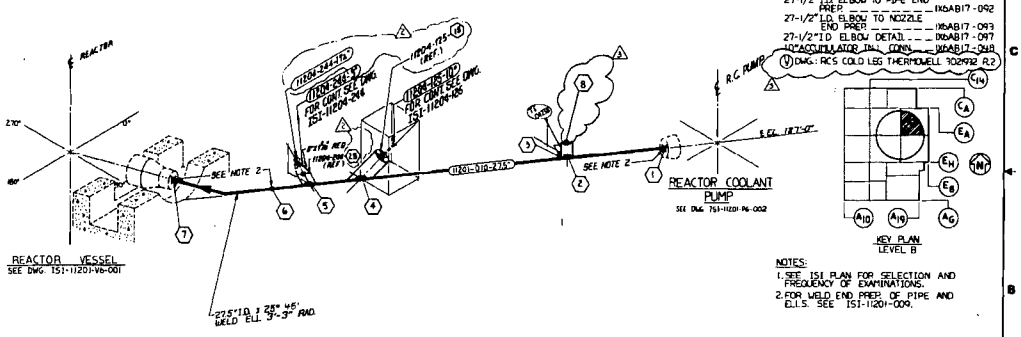
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP	PART EXAMINED SEE NOTE NO.1	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF	VT1	VT2	VT3	VT4
~~11201-010-WELD~~	~~A.W~~	~~SURF WELD~~	~~CKS-2500-8~~	~~B9.11~~	~~B9.11~~	—	~~B9.11~~	—	—
~~WOL1~~	~~WOLP~~	~~WOLP~~	~~CKS-2500-10~~	—	~~B9.32~~	—	—	—	—
~~WOL2~~				—	~~B9.32~~	—		—	—
~~WOL3~~			~~DWG 2500-10~~	~~B9.31~~	~~B9.31~~	—		—	—
~~WOL4~~			DWG 2500-10	—	~~B9.32~~	—		—	—
~~WOL5~~	~~A.W~~	~~SURF WELD~~	~~CKS-2500-8~~	~~B9.11~~	~~B9.11~~	—		—	—
~~WOL6~~	~~A.W~~			~~B9.11~~	~~B9.11~~	—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP	OPERT PRESS	OPERT TEMP	INSUL THKN.
11201-010	1	111	FG0	27.5 I.D.	SPCL.	2.32" NOM.	SA-351 CF8A	2485	650	2301	556	1.0

LEGEND:
1. ⌧ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ⟶ INDICATES BRANCH CONNECTION WELD

REFERENCE DWGS.
P & I D. _____ 0N4081111, 112
PIPING AREA DWG. _____ 0N4DL4417/29
CIVIL/STRUCTURAL DWG. _____ 0X2048B010
TUBECO DWG:
COLD LEG-LOOP 2 _____ 1X6AB17-145
2"RTD MANIFOLD CONN. _____ 0X6AA08-14
2-1/2" THERMOWELL CONN. _____ 0X6AB17-104
3" BORON INJECTION CONN. _____ 1X6AA08-15
27-1/2" I.D. PIPE END PREP. _____ 0X6AB17-108

ESCO DWG:
27-1/2" I.D. ELBOW TO PIPE END PREP _____ 1X6AB17-092
27-1/2" I.D. ELBOW TO NOZZLE END PREP _____ 1X6AB17-093
27-1/2" I.D. ELBOW DETAIL _____ 0X6AB17-097
10" ACCUMULATOR TANK CONN. _____ 0X6AB17-098
(V) DWG.: RCS COLD LEG THERMOWELL 3029732 R2



NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR WELD END PREP. OF PIPE AND ELL'S SEE 151-11201-009.

REVISION	DATE	
3	8-11-92	DELETED LINE 11201-086 PER DCP 91-V1N10001. ADDED 2" THERMOWELL WELD 8. ADDED NEW REF. DRAWING
2	5-18-87	GENERAL REV. TO UPDATE DWG FOR ISI
1	3-15-85	ADDED NEW WELD NO'S. ADDED ISI CLASSIFICATION DWG. NO; AND 27.5 CALIBRATION BLOCK NO TO REF DWG. WOL0 WAS WOO1
0	12-12-83	ISSUED FOR INSPECTION

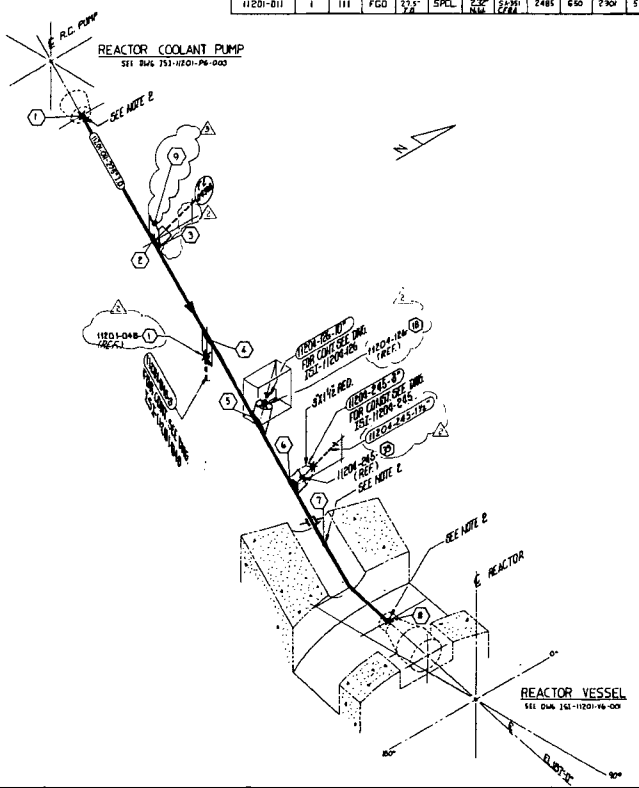
Southern Company Services, Inc.
Georgia Power Company

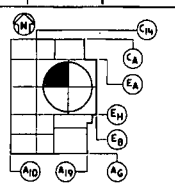
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO.010
INSERVICE INSPECTION ISOMETRIC
REACTOR COOLANT-SYSTEM 1201

DRAWN FT | CHECKED DRC | CHECKED US
SCALE: NONE | PROJECT LN. | DRAWING NUMBER: 151-11201-010 | REV. 3

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO					
				VOL.	SURF.	VT1	VT2	VT3	VT4
11201-011-W01.0	BW	CIRC. WELD	IWB-2500-8	B9.11	B9.11	—	B-G-2 B9.21	—	—
W01.1	FILL. TRU CHAN.	BRANCH CONN. WELD	IWB-2500-10	—	B9.32	—	—	—	—
W01.2				—	—	—	—	—	—
W01.3						—	—	—	—
W01.4			IWB-2500-9	B9.21	B9.21	—	—	—	—
W01.5			IWB-2500-10	—	B9.32	—	—	—	—
W01.6	BW	CIRC. WELD	IWB-2500-8	B9.11	B9.11	—	—	—	—
W02.0						—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT PRESS.	OPERT TEMP.	INSUL. THKN.
11201-011	I	III	FCD	27.5" O.D.	SPCL.	2.37" NOM.	SA-351 CF8A	2485	650	2300	556	3.0





LEGEND:
1. ✱ INDICATES FIELD WELD
2. ● INDICATES SHOP WELD
3. INDICATES BRANCH CONN. WELD.
4. — INDICATES PIPE SUPPORT
5. INDICATES PIPE RESTRAINT

REFERENCE DWGS.
P & I D 0AADB111
PIPING AREA DWG. 0AADLA17/19
CIVIL/STRUCTURAL DWG. 0CDNBA010
TUBECO DWG.
COLD LEG-LOOP 3 ..... 1X6AB17-146
2" RTD MANIFOLD CONN 1X6AA08-014
2-1/2" THERMOWELL CONN. 1X6AB17-104
3" SIS & CVCS CONN. 1X6AA08-015
27-1/2" I.D. PIPE END PREP. 1X6AB17-108

FSCO DWG.
27-1/2" I.D. ELBOW TO PIPE END PREP. 1X6AB17-092
27-1/2" I.D. ELBOW TO NOZZLE END PREP. 1X6AB17-093
27-1/2" I.D. ELBOW DETAIL 1X6AB17-097
40 ACCUMULATOR INJ. CONN. 1X6AB17-048
(W) DWG.: ECS COLD LEG THERMOWELL 3DE1985 R3

NOTES:
1. SEE 1S1 PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR WELD END PREP. OF PIPE AND ELL SEE DWG. 1S1-11201-009.

REVISION	DATE	REVISION	DATE	REVISION 3	DATE 8-11-92	REVISION 2	DATE 5-18-87	REVISION 1	DATE 3-15-85	REVISION 0	DATE 5-14-84
				DELETED LINE 11201-27 PER DCP 91-V1U0004 ADDED 2" THERMOWELL (WELD 9) ADDED NEW REF DRAWING		GENERAL REV. TO UPDATE DWG. FOR 1S1		ADDED NEW WELD NUMBERS ADDED REFERENCE DRAWING PUT REDUCER ON LINE 243 WELD WAS W01		ISSUED FOR INSPECTION	
BY	CHK'D	APPR 1	APPR 2	GS	DRC	RLB		BST	WS	DRC	WS

Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO.011
INSERVICE INSPECTION ISOMETRIC
REACTOR COOLANT-SYSTEM 1201

DRAWN DRC | CHECKED WS
SCALE NONE | DRAWING NUMBER 1S1-11201-011 | REV 3

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP	PART EXAMINED (SEE NOTE NO. 1)		EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
~~[illegible]-62-W30~~	BW	CIRC. WELD	IWB-2520-5	B9.11	B9.11	—	B9.90 B9.91	—	—	—
~~W31~~	FILLET	BONNET TO VALVE WELD	IWB-2500-10	—	B9.32	—	—	—	—	—
~~W32~~				—	—	—	—	—	—	—
~~W33~~				B9.31	B9.31	—	—	—	—	—
~~W34~~				—	B9.32	—	—	—	—	—
~~W35~~			IWB-2500-9	B9.31	B9.31	—	—	—	—	—
~~W36~~			IWB-2500-10	—	B9.32	—	—	—	—	—
~~W37~~	BW	CIRC. WELD	IWB-2500-8	B9.11	B9.11	—	—	—	—	—
~~W38~~									—	—

LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT PRESS.	OPERT TEMP.	INSUL. THKN.
11201-012	1	111	F60	27.5"	SPECIAL	2.32" NOM.	SA-351 CF8A	2485	650	2301	556	3.0

LEGEND:

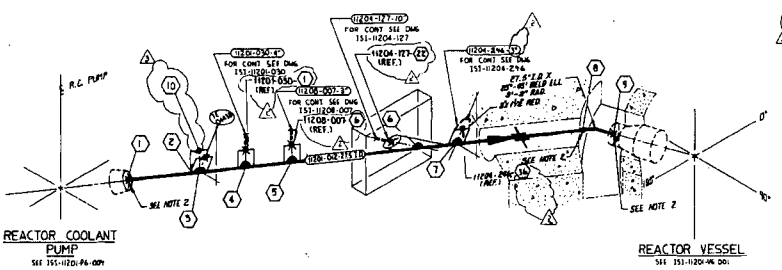
1. ⊠ INDICATES FIELD WELD
2. ● INDICATES SHOP WELD
3. ⊥ INDICATES BRANCH CONNECTION WELD
4. ⊣⊢ INDICATES PIPE RESTRAINT

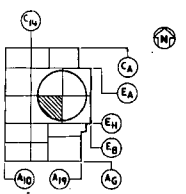
REFERENCE DWGS.

R & I.D. IX4DB111
PIPING AREA DWG. IX4DL4A17
CIVIL/STRUCTURAL DWG. IX2DABA007
TURBECO DWG:
COLD LEG - LOOP 4 ..... IX6AB17-147
2" RTD MANIFOLD CONN. IX6AA08-14
2-1/2" THERMOWELL CONN. IX6AB17-104
3" SIS, CVCS & CHG. PUMP CONN. IX6AA08-15
4" PRESSURIZER SPRAY CONN. IX6AA08-15
27-1/2" I.D. PIPE END PREP. IX6AB17-108
ESCO DWG:
27-1/2" I.D. ELBOW TO PIPE END PREP. IX6AB17-092
27-1/2" I.D. ELBOW TO NOZZLE END PREP. IX6AB17-093
27-1/2" I.D. ELBOW DETAIL IX6AB17-097
10" X 45° ACCUMULATOR INL. CONN. IX6AB17-048
(W) DWG: RCS COLD LEG THERMOWELL 3D21932 R.0

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR WELD END PREP OF PIPE AND ELL. SEE 1SI-1201-009.





REVISION	DATE	REVISION	DATE	REVISION 3	DATE 8-11-92	REVISION 2	DATE 5-18-87	REVISION 1	DATE 3-15-85	REVISION 0	DATE 3-13-84
				DELETED LINE 11201-023 PER DCP 91-V1N1009. ADDED 2" THERMOWELL (WELD 10) ADDED NEW REF DRAWING		GENERAL REVISION TO UPDATE FOR ISI		ADDED NEW WELD NO'S. 27.5" CAL. BLOCK, ISI CLASSIFICATION DWG.		ISSUED FOR INSPECTION	
BY	GS	RLB	BKB								
CHK'D	DRC										
APPR. 1	DH	99C	WJS								
APPR. 2			CWB								
APPR. 3											
APPR. 4											
APPR. 5											

Southern Company Services, Inc.
for
Georgia Power Company

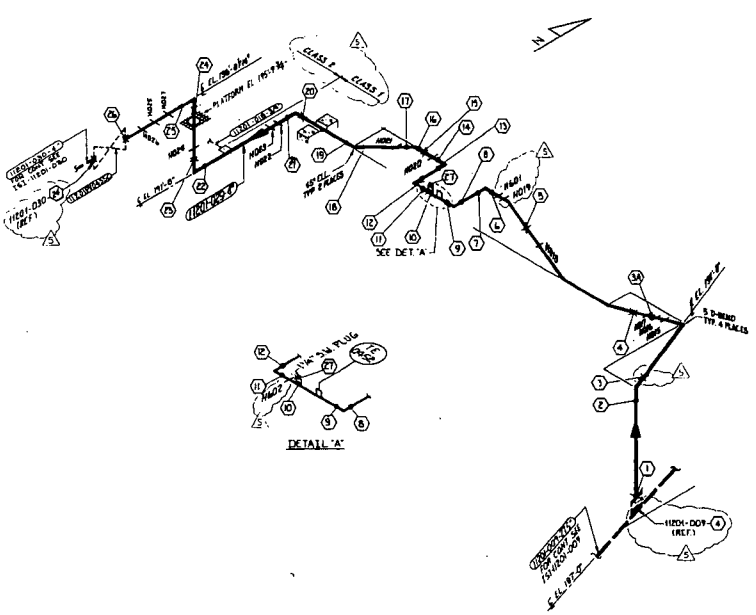
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 012
INSERVICE INSPECTION ISOMETRIC
REACTOR COOLANT SYSTEM 1201

DESIGNED FT | DRAWN DRC | CHECKED US

SCALE NONE | PROJECT I.D. | DRAWING NUMBER 1SI-1201-012 | REV. 3

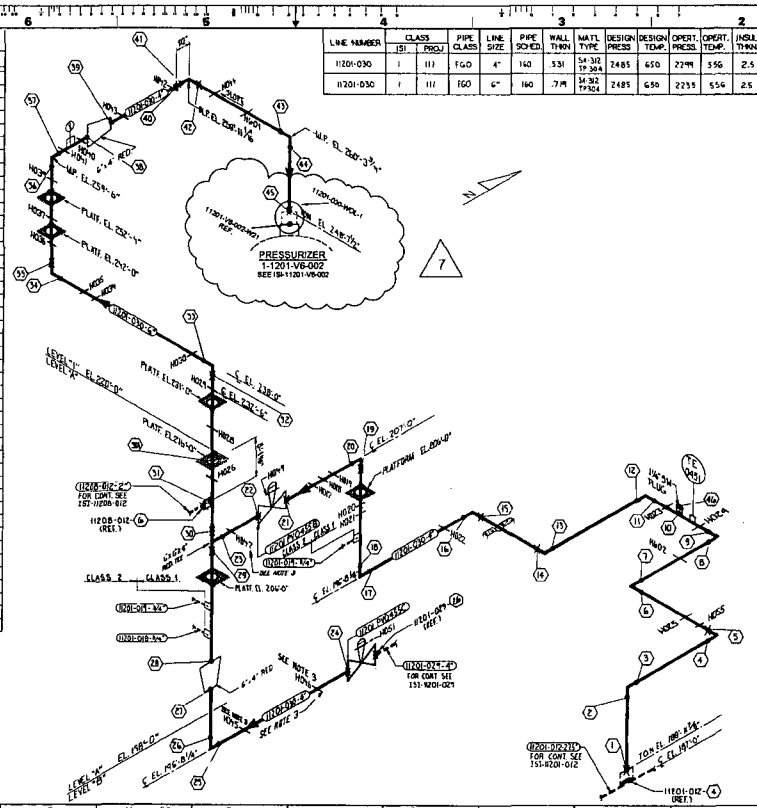
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
VI-1201-029-H027	PIPE & SUPPORT	COMPONENT SUPPORT	TMF-1400-1	–	–	–	–	F3.50	
VI-1201-029-H015	PIPE & SUPPORT	COMPONENT SUPPORT	TMF-1300-1	–	–	–	–	–	
H016	PIPE & SUPPORT	PIPE & SUPPORT		–	–	–	–	–	
H017	PIPE & SUPPORT			–	–	–	–	–	
H018				–	–	–	–	–	
H019				–	–	–	–	–	
H020				–	–	–	–	–	
H021	PIPE & SUPPORT	COMPONENT SUPPORT		–	–	–	–	F3.50	
H022	PIPE & SUPPORT	PIPE & SUPPORT		–	–	–	–	–	
H023	PIPE & SUPPORT	COMPONENT SUPPORT		–	–	–	–	F3.60	
H024	PIPE & SUPPORT	PIPE & SUPPORT		–	–	–	–	F3.60	
H025	RIGID STRUT			–	–	–	–	–	
H026	VARIABLE SPRING			–	–	–	–	F3.50	
11201-029-W01.0	B.W.	CTMS NOZ.	DAP-2500-8	89.11	89.11	–	89.11	–	–
W01.1						–		–	–
W01.2						–		–	–
W01.3						–		–	–
W01.4						–		–	–
W02.0						–		–	–
W02.1						–		–	–
W02.2						–		–	–
W02.3						–		–	–
W02.4						–		–	–
W02.5	PIPE & BRANCH CONN.	BRANCH CONN.	DAP-2500-10	–	89.11	–	89.11	–	–
W02.6	DELETED	—	—	—	—	—	—	–	–
W02.7	B.W.			89.11	89.11	–		–	–
W02.8						–		–	–
W02.9						–		–	–
W02.10						–		–	–
W03.0						–		–	–
W04.0						–		–	–
W04.1						–		–	–
W04.2						–		–	–
W05.0						–		–	–
W05.1						–		–	–
W05.2						–		–	–
W06.0						–		–	–
W07.0						–		–	–
W07.1						–		–	–
W08.0						–		–	–

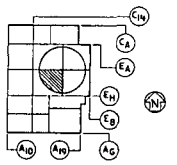
LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11201-029	1	III	F60	4"	160	.531	SA-312 TP-304	2485	650	2235	556	2.5



EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO.					
				VOL.	SURF.	VT1	VT2	VT3	VT4

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11201-030	1	III	FGO	4"	160	.531	SA 312 TP 304	2485	650	2299	556	2.5
11201-030	1	III	FGO	6"	160	.719	SA 312 TP304	2485	650	2255	556	2.5





KEY PLAN
LEVEL A, B & 1&2

LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ⊥ BRANCH CONNECTION WELD.
6. —|—| PIPE RESTRAINT
7. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & ID _ _ _ _ _ _ _ _ IX4DB111,112
FAB ISO _ _ _ _ _ _ _ IX4-1201-029-02/22

PIPING LAYOUT DWG _ _ IX4DL4D02 THRU D06
CIVIL/STRUCTURAL _ _ IX2D48A011, A015
HANGER DETAIL DWGS _ V1-1201-030-H017 THRU H030, H032, H034 THRU H097, H099 THRU H049, H051, H055, H601, H602
F-SHEETS _ _ _ _ _ _ F-19006 THRU F-19016

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)
3. HANGER MUST BE REMOVED FOR PIPE WELD INSPECTION.

REVISION	DATE	DESCRIPTION
5	5-17-87	GENERAL REV. TO UPDATE DWG FOR ISI SHEET 2 OF 2 WAS VOIDED ADD WELD 40 SHA
4	[illegible]	ADDED TE 0451
3	1-[illegible]	ADDED WELD 46
2	11-11-85	REMOVED HANGERS H031, H033, H038, H053 AND H054. REMOVED 6" CALIBRATION BLOCK
7	6-26-09	REVISED PER DCP 1060607901 AND DOCUMENTED IN PCR 2007-005
6	11-26-92	REMOVED HANGERS H037, H038 AND H048 PER PCR 92-005
0	6-27-84	ISSUED FOR INSPECTION

Southern Company Services, Inc.

GEORGIA POWER COMPANY

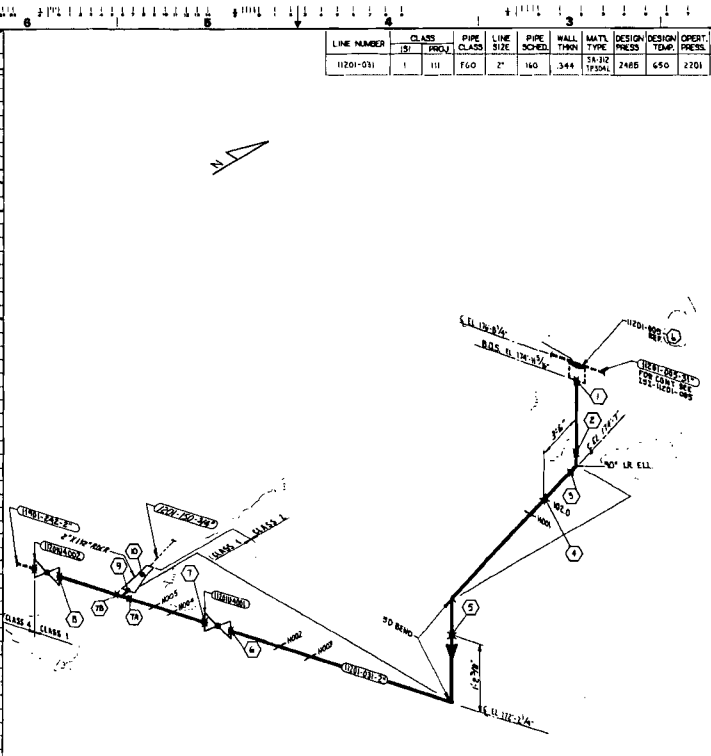
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 030
INSERVICE INSPECTION ISOMETRIC
REACTOR COOLANT - SYSTEM 1201

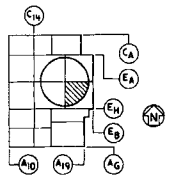
DESIGNED FT | DRAWN DRC | CHECKED WS

SCALE: NONE | PROJECT I.D. | DRAWING NUMBER: ISI-1120-030 | REV: 7

COMPONENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	MPT	VT3	VT4
1120104001	GLOBE VALVE	PIPE BELT COMPONENT	—	—	—	—	B9.11 B9.31	—	—
1120104002	↓	↓	—	—	—	—	↓	—	—
VY-1201-031-H001	MECHANICAL SNUBBER	CONPONENT SUPPORT	VGB4000-1	—	—	—	—	F1.10 F3.30 F1.10 F3.30 F1.10 F3.30 F1.10 F3.30	F3.50
H002	PIPE STRUT			—	—	—	—		—
H003	MECHANICAL SNUBBER	↓		—	—	—	—		F3.50
H004	PIPE STRUT	LINEAR SUPPORT COMPONENT SUPPORT		—	—	—	—		—
H005	MECHANICAL SNUBBER		↓	—	—	—	—	F1.10 F3.30 F1.10 F3.30	F3.50
1120-031-W101.0	SW	CTW WELD	1WB2500-8	—	B9.40	—	B9.31 B9.40	—	—
W101.1	BW			—	B9.31	—		—	—
W101.2				—		—		—	—
W102.0						—		—	—
W103.0	↓				↓	—		—	—
W104.0	SW			—	B9.40	—		—	—
W105.0				—		—		—	—
W107.0	↓	↓	↓	—	↓	—	↓	—	—

LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MATL TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1120-031	1	III	F60	2"	160	.344	SA-312 TP304L	2485	650	2201	556	2.5





KEY PLAN
LEVEL C

LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ♦ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:

P & I D IX4DB111
FAB ISO IX4-1201-031-0109
PIPING LAYOUT DWG. IX4DL1A07
CIVIL STRUCTURAL DWG. IX2D4BF002
HANGER DETAIL DWG. ..... VY-1201-031-H001 THRU H005

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

Southern Company Services, Inc.
FOR
GEORGIA POWER COMPANY

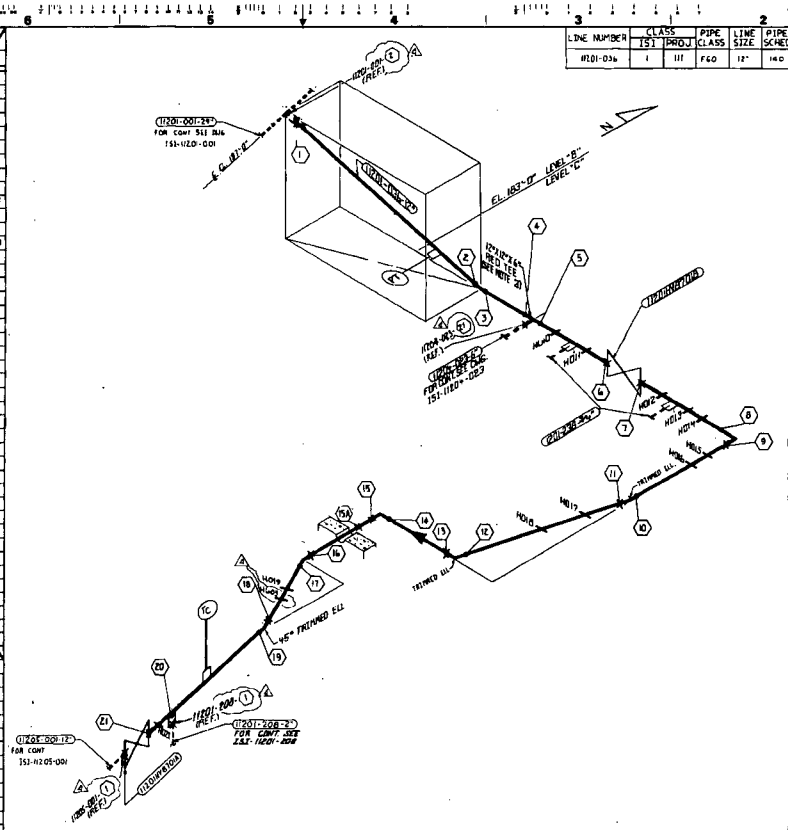
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 031
INSERVICE INSPECTION ISOMETRIC
REACTOR COOLANT-SYTEM 1201

REVISION	DATE	DESCRIPTION
3	5-12-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI
2	11-11-85	ADDED. NEW WELD NO'S. REDUCER & FLOW RESTRICTION
1	3-15-85	ADDED: NEW WELD NO'S. ISI CLASSIFICATION DWG
0	11-13-83	ISSUED FOR INSPECTION

DESIGNED FT DRAWN DRK CHECKED WS
SCALE NONE
DRAWING NUMBER ISI-11201-031 REV 3

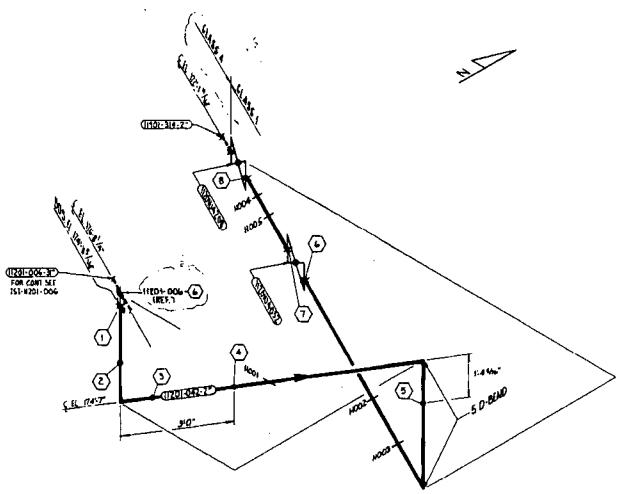
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
1120HV-8701A	CONT VALVE	PRESSURE SEL. CONN	—	—	—	—	B15.10 B9.21	B15.10	—
1120HV-8701B	↓	↓	—	—	—	—	↓	↓	—
VI-1201-036-H010	MECHANICAL SNUBBER	COMPONENT SUPPORT	BWF-1300-1	—	—	—	—	F1.10 F1.20 F2.10 F2.20	F3.50
H011				—	—	—	—		—
H012	PIPING STRUT			—	—	—	—		—
H013	MECHANICAL SNUBBER	COMPONENT SUPPORT		—	—	—	—	F1.10 F1.20 F2.10 F2.20	F3.50
H014				—	—	—	—		↓
H015	PIPING STRUT			—	—	—	—		—
H016	MECHANICAL SNUBBER	COMPONENT SUPPORT		—	—	—	—	F1.10 F1.20 F2.10 F2.20	F3.50
H017	I-DIR RESTRAINT	LINEAR SUPPORT		—	—	—	—	F1.10 F1.20 F2.10 F2.20	—
H018	Z-DIR RESTRAINT			—	—	—	—		—
H019				—	—	—	—		—
H021	E BODY CLAMP	NO ISI REQUIRED	—	—	—	—	—	—	—
1120I-036-W010	B.W.	CIRC. WELD	LWB-2500-8	B9.11	B9.11	—	B9.20 B9.31	—	—
W011						—		—	—
W012						—		—	—
W013						—		—	—
W014	↓	↓	↓	↓	↓	—	↓	—	—
W020	B.W.	CIRC. WELD	LWB-2500-8	B9.11	B9.11	—	B9.10 B9.31	—	—
W040						—		—	—
W041						—		—	—
W050						—		—	—
W051						—		—	—
W060						—		—	—
W061						—		—	—
W070						—		—	—
W071						—		—	—
W072						—		—	—
W080						—		—	—
W081						—		—	—
W090						—		—	—
W091						—		—	—
W092	FUL. PEN. DELAY	BRANCH CONN.	LWB-2500-10	—	B9.32	—		—	—
W100	B.W.	CIRC. WELD	LWB-2500-8	B9.11	B9.11	—		—	—

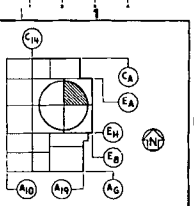
LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN.	MATL TYPE	DESIGN PRESS.	DESIGN TEMP	OPERT PRESS.	OPERT TEMP	INSUL THKN.
1120I-036	1	III	F60	12"	140	1.125"	SA-376 TP-316	2485	650	2255	617	3.5"



LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11201-042	1	III	FGO	2"	160	.344	SA-312 TP304L	2485	650	2201	556	2.5

COMPONENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
1201U4052	GATE VALVE	PRES. BLT. COMPONENT	—	—	—	—	B4.10 B11.11	—	—
1120U4208	↓	↓	—	—	—	—	↓	—	—
11201-042-H001	MECHANICAL SNUBBER	COMPONENT SUPPORT	MT-1580-1	—	—	—	—	F1.10 F3.11 F3.12 F3.13	F3.50
H002	RESTRAINT	COMPONENT SUPPORT		—	—	—	—	F3.20	—
H003	MECHANICAL SNUBBER	COMPONENT SUPPORT		—	—	—	—	F1.10 F3.11 F3.12 F3.13	F3.50
H004	RIGID STRUT			—	—	—	—	F1.10 F3.11 F3.12 F3.13	—
H005	MECHANICAL SNUBBER			—	—	—	—	F1.10 F3.11 F3.12 F3.13	F3.50
11201-042-W01.0	SW	CIRC. WELD	TVA-2500-8	—	B4.40	—	B4.40 B11.11	—	—
W01.1	SW			—	B4.21	—		—	—
W01.2				—		—		—	—
W02.0				—		—		—	—
W03.0				—		—		—	—
W04.0	SW			—	B4.40	—		—	—
W05.0				—		—		—	—
W06.0				—		—		—	—





KEY PLAN
LEVEL C

LEGEND:
1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:
P & ID _ _ _ _ _ _ _ _ 1X4DB111
FAB ISO _ _ _ _ _ _ _ 1X4-1201-042-02/09

PIPING LAYOUT DWG _ 1X4DL4807
CIVIL/STRUCTURAL _ _ 1X2D4BF002
HANGER DETAIL DWG _ VI-1201-042-H001 THRU H005

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 5-12-87	REVISION 1	DATE 3-15-85	REVISION 0	DATE 3-8-84
						GENERAL REVISION TO UPDATE DRAWING FOR ISI		REVISED REFERENCES REVISED LEGEND REMOVED REF. WELD ADDED NEW WELD NUMBERS.		ISSUED FOR INSPECTION	
						BY RLB	BY BST	BY DRC			

Southern Company Services, Inc.
FOR
GEORGIA POWER COMPANY

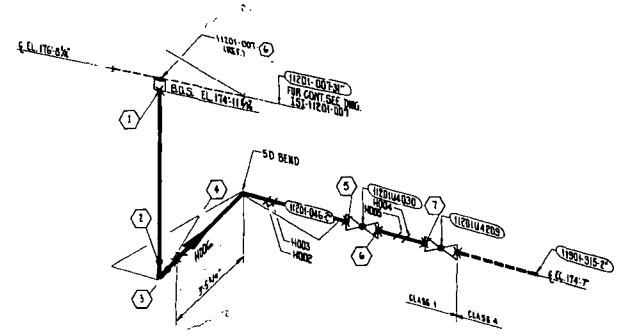
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO.042
INSERVICE INSPECTION ISOMETRIC
REACTOR COOLANT-SYSTEM 1201

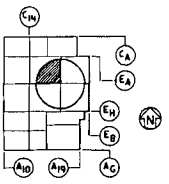
DESIGNED FT | DRAWN DRC | CHECKED WS

SCALE	PROJECT ID	DRAWING NUMBER	REV
NONE		ISI-11201-042	2

COMPONENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
1201U4030	GLOBE VALVE	PIPE, INST. CONTROLS	—	—	—	—	PDI-VT PDI-71	—	—
1120U4209									
V1-1201-046-H006	MECH. SNUBBER	COMPONENT SUPPORT	CHP-1000-1	—	—	—	—	V.E.M.P.M.P. CHP-10-12	F3-50
V1-1201-046-H005	RIGID HANGER			—	—	—	—	V.E.M.P.M.P. CHP-10-12	—
V1-1201-046-H004				—	—	—	—		—
V1-1201-046-H003	MECH. SNUBBER			—	—	—	—	V.E.M.P.M.P. CHP-10-12	F3-50
1120U-046-W101.0	S.W.	CARB. WELD	TNB 5520-8	—	BB-40	—	BB-41 BB-71	—	—
1120U-046-W101.1	SW			—	BP-21	—		—	—
1120U-046-W101.2				—		—		—	—
1120U-046-W102.0				—		—		—	—
1120U-046-W102.0	SW			—	BP-40	—		—	—
1120U-046-W104.0				—		—		—	—
1120U-046-W105.0				—		—		—	—

LINE NUMBER	CLASS 1SI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1120U-046	1	III	F00	2.0	160	0.344	304-STE GRP-TP304L	2485	650	2201	556	2.5





KEY PLAN
LEVEL C

LEGEND:

1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P&I.D. _____ 1X4DB111

FAB ISO. _____ W4-1201-046-01J06

PIPING LAYOUT DWG. _____ 1X4DL4C07

CIVIL/STRUCTURAL _____ 1X2D48F002

HANGER DETAIL DWG. _____ V1-1201-046-H00C THRU H006

NOTES:

1. SEE 1SI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5
2	3-12-87	RLB			99C			
1	3-15-85	BST	WS	CWA				
0	2-7-84	BKD	WS					

GENERAL REVISION TO UPDATE DRAWING FOR 1SI

ADDED NEW WELD NUMBERS REVISED REFERENCES REVISED LEGEND H006 WAS H001

ISSUED FOR INSPECTION

Southern Company Services, Inc.

GEORGIA POWER COMPANY

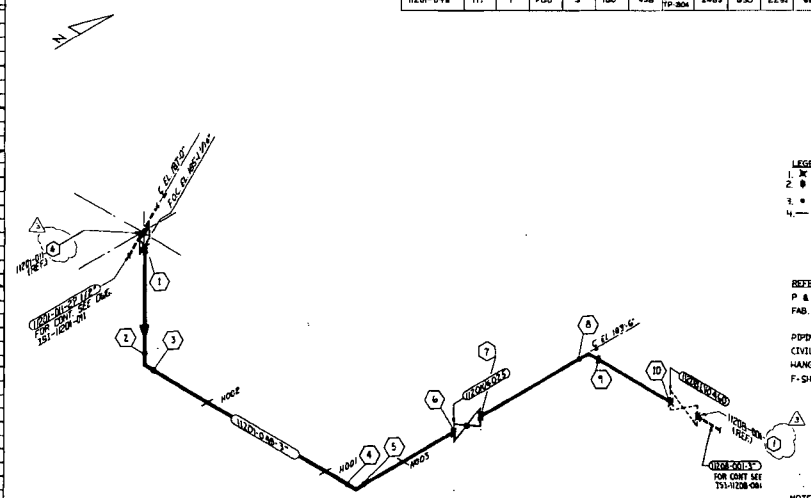
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 046
INSERVICE INSPECTION ISOMETRIC
REACTOR COOLANT-SYSTEM 1201

DRAWN FT | CHK'D CSB | APPR. WS

SCALE: NONE | PROJECT ID | DRAWING NUMBER: 1SI-1120U-046 | REV. 2

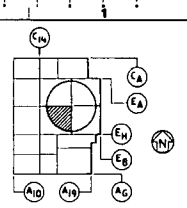
COMPONENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	UT	VT3	VT4
11201-U6025	ALUM. BRACE	PIPE SURFACE NEXT COMP.	—	—		—		—	—
VI-1201-048-H001	RCCA NUMBER	EQUIPMENT SUPPORT	IVF-1800-1	—		—	—	F3.50	
H002	VERTICAL SPRING WITH STOP			—	—	—	—		
H003				—	—	—	—		
H007				—	—	—	—		
11201-048-W010	BW	CINC WELD	IVB-2500-5	—	BW21	—		—	—
W011				—		—		—	—
W012				—		—		—	—
W013				—		—		—	—
W014				—		—		—	—
W020				—		—		—	—
W050				—		—		—	—
W057				—		—		—	—
W060				—		—		—	—

LINE NUMBER	CLASS PROJ	CLASS ISI	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11201-048	III	I	FG0	3"	160	.438	SA-312 TP-304	2485	650	2235	556	2.5

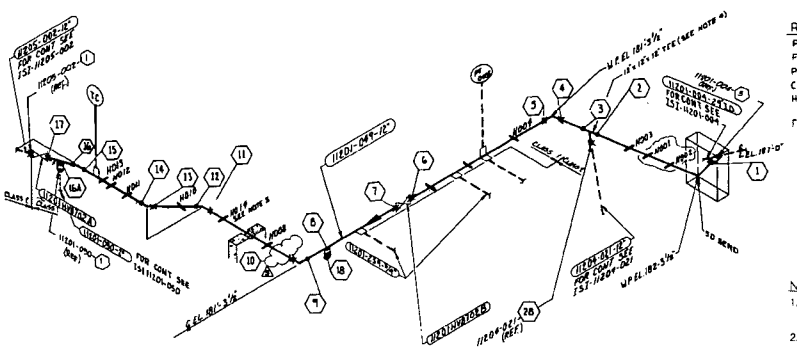

N
℄ EL 197'-6"
SOL. EL 195'-1¼"
11201-D1-37 1/2-3
FOR CONT SEE DWG. 151-1201-D1
11201-D1-37 1/2-3
FOR CONT SEE DWG. 151-1201-D1
H002
11201-D-38-3"
H001
H003
11201-D-40-3"
℄ EL 197'-6"
11201-D-40-3"
11201-D-40-3"
11201-D-40-3

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11201HT8702A	GATE VALVE	PIPE, PIPE COMPONENT	—	—	—	—	B12.10 B12.40	B12.40	—
11201HT8702B	GATE VALVE	PIPE, PIPE COMPONENT	—	—	—	—	B12.10 B12.31	B12.40	—
VH-1201-049-H001	PIPE SANDER PIPE SANDER	COMPONENT SUPPORT	IWF-1300-1	—	—	—	—	F1.20 F1.20 F1.20 F1.20	F3.60
H002	VARIABLE SPRING VARIABLE SPRING			—	—	—	—		
H003				—	—	—	—		
H004				—	—	—	—		
H005				—	—	—	—		
H006				—	—	—	—		
H007				—	—	—	—		
H008				—	—	—	—		
H010				—	—	—	—		
H011				—	—	—	—		
H012	1-BOLT ALLOWANCE	LINEAR SUPPORT					—	F1.20 F1.20 F1.20 F1.20	—
H014	SCHEDULE STRUT	COMPONENT SUPPORT		—	—	—	—		—
H015	2 BOLT CLEAR	NO TRS REQUIRED	—	—	—	—	—	—	
11201-049-W01.0	BW	CIRC. WELD	IWB-2500-8	B9.11	B9.11	—	B12.50 B12.57	—	—
W01.1						—		—	—
W01.2						—		—	—
W01.3						—		—	—
W02.0						—		—	—
W02.1						—		—	—
W03.0						—		—	—
W04.0						—		—	—
W04.1						—		—	—
W05.0						—		—	—
W06.0						—		—	—
W06.1						—		—	—
W07.0						—		—	—
W07.1						—		—	—
W07.2						—		—	—
W08.0						—		—	—
W04.2	FULL PEN WELD	BRANCH CONN. WELD	IWB-2500-10	—	B9.32	—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKY	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11201-049	1	III	F60	12"	140	1.125	SA-376 TP-316	2485	650	2235	617	3.5"

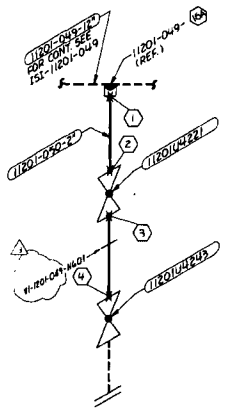


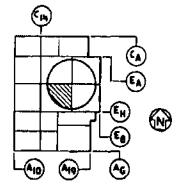
KEY PLAN
LEVEL B


N
11201-049-12
FOR CONT. SEE ISI-11205-002
11201-049-12
FOR CONT. SEE ISI-11201-050
11201-049-12
FOR CONT. SEE ISI-11204-001
11201-049-12
FOR CONT. SEE ISI-11204-001
11201-049-12
11201-049-12
11201-049-12

ISI-11201-050

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11201-050	1	III	FG0	2"	160	.344	SA-312 TP304L	2485	650	2235	617	2.5"





LEGEND:

1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. INDICATES PIPE SUPPORT.

REFERENCE DRAWINGS:

P & I D. IX4DB122
FAB. ISO. IX4-1201-04902/14
PIPING LAYOUT DWG. IX4DL4207
CIVIL/STRUCTURAL IX2048F002
HANGER DETAIL DWG. V1-1201-049-H601

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 3	DATE 5-18-97	REVISION 2	DATE 11-11-95
								GENERAL REVISION TO UPDATE DRAWING FOR ISI		REDRAWN-ISSUED FOR INSPECTION	

Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT I - LINE NO. 050
INSERVICE INSPECTION ISOMETRIC
REACTOR COOLANT-SYSTEM 1201

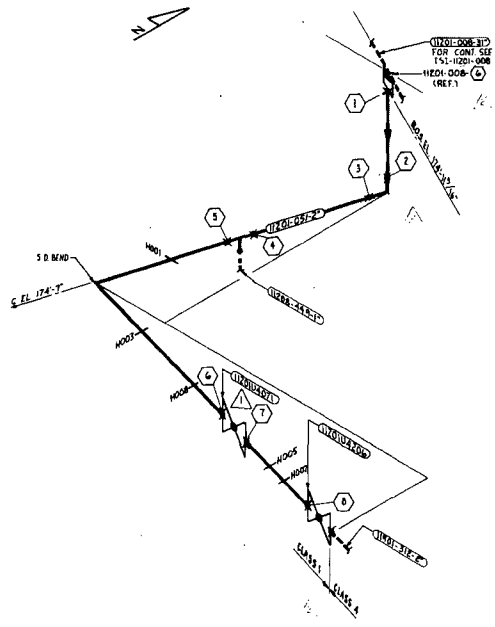
DRAWN FT | GRAPH GPP | CHECKED WS

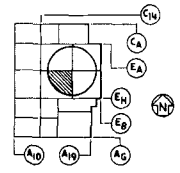
BY	DATE	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	DATE	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	DATE	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	DATE	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	DATE	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	DATE	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5
																					XLB	5-18-97	990					GPP	11-11-95	WS	CWD										

SCALE		DRAWING NUMBER	REV
NONE		ISI-1201-050	3

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1-1201-051	1	111	F50	2"	160	.344	SA-312 TP304L	2485	650	2201	556	2.5

COMPONENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11201104071	GLOBE VALVE	CONTROL VALVE COMPONENT		—	—	—	B9.70 B9.71	—	—
11201104206	↓	↓		—		—	↓	—	—
VI-1201-051-H001	MECHANICAL SNUBBER	COMPONENT SUPPORT	TUB-H001		—	—	—	F1.10 F1.40 F1.40 F1.40	F3.50
H003	RIGID STRUT	COMPONENT SUPPORT	TMF-1300-1	—	—		—	F1.40 F1.40 F1.40	—
H008	MECHANICAL SNUBBER	COMPONENT SUPPORT		—	—	—		↓	F3.50
H005	SPRING HANGER	CATEGORY SUPPORT		—	—	—	—	F1.20 F1.20	—
H007	MECHANICAL SNUBBER	COMPONENT SUPPORT	↓	—	—	—	—	F1.40 F1.40 F1.40	F3.50
11201-051-W101.0	SW	CIRC WELD	TUB-2500-1	—	B9.40	—	B9.30 B9.31	—	—
W101.1	BW			—	B9.21			—	—
W101.2				—				—	—
W102.0				—		—		—	—
W105.0	↓			—		—		—	—
W104.0	SW			—	B9.40	—		—	—
W103.0				—		—		—	—
W106.0	↓	↓	↓	—	↓	—	↓	—	—





KEY PLAN
LEVEL C

LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ⌒ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & ID _ _ _ _ _ _ _ IX4DB111
FAB. ISO _ _ _ _ _ _ _ IK4-1201-051-01/13

PIPING LAYOUT DWG _ IX4DL4D07
CIVIL/STRUCTURAL _ _ IX2D48A007
HANGER DETAIL DWG _ VI-1201-051-H001, H003, H005, H007, H008

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O)

REVISION	DATE	
2	3-18-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI
1	3-15-85	ADDED NEW WELD NUMBERS VOIDED HANGER H006 3'-3" WAS 5'-9" ON H003 H008 WAS H004 H003 WAS RIGID STRUT H007 WAS H006 CHANGED VALVES TO GLOBE REVISED LEGEND & REFERENCES
0	11-17-83	ISSUED FOR INSPECTION

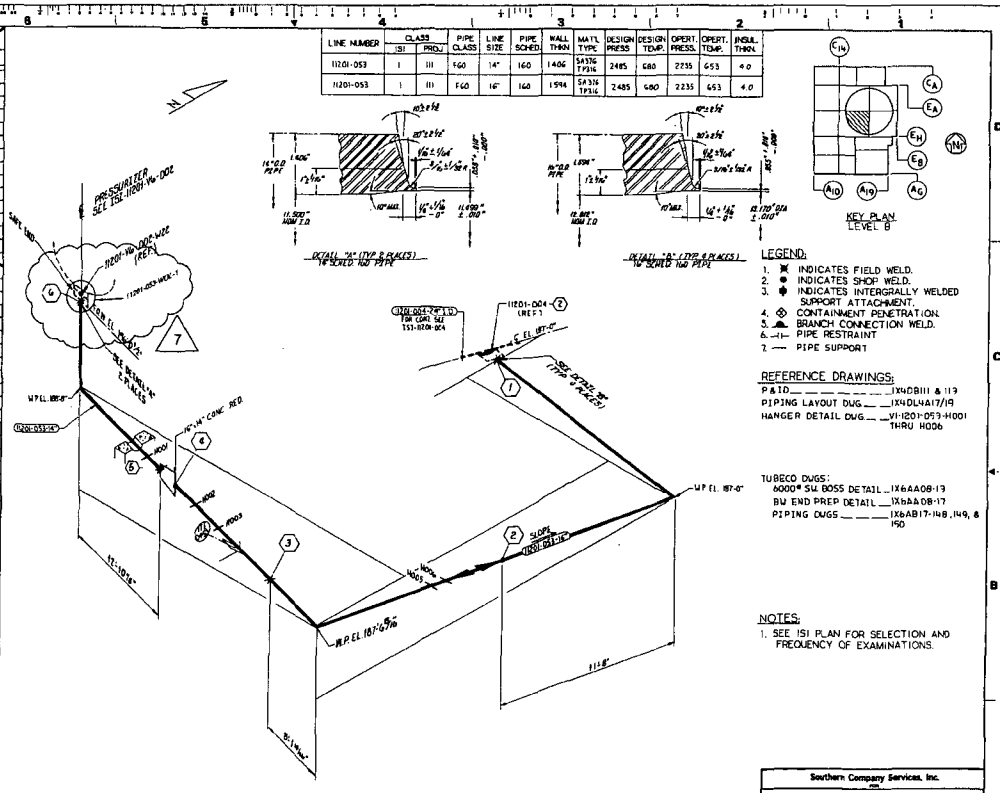
Southern Company Services, Inc.
FOR
GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 051
INSERVICE INSPECTION ISOMETRIC
REACTOR COOLANT - SYSTEM 1201

DRAWN FT | DRAWN DRC | CHECKED US
SCALE NONE | PROJECT/A | DRAWING NUMBER 151-11201-051 | REV 2

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11201-053-H001	PIPE SUPPORT ATTACHMENT	COMPONENT SUPPORT	2WF-1300-1	—	—	—	—	F3.50 F3.30 F3.40 F3.50	F3.50
H002	PIPE SUPPORT ATTACHMENT			—	—	—	—	F3.50 F3.30 F3.40 F3.50	—
H003	PIPE SUPPORT ATTACHMENT			—	—	—	—	F3.50 F3.30 F3.40 F3.50	F3.50
H004	PIPE SUPPORT ATTACHMENT			—	—	—	—	F3.50 F3.30 F3.40 F3.50	F3.50
H005	↓		↓	—	—	—	—	↓	↓
H006	WELD TO STUD			—	—	—	—	F3.50 F3.30 F3.40 F3.50	—
11201-051-W01.0	BW	CIRC. WELD	2WB-2500-8	BR.11	BR.11	—	B16.50 B16.51	—	—
W02.0						—		—	—
W02.1						—		—	—
W03.0	BW	CIRC. WELD	2WB-2500-8	BR.11	BR.11	—	B16.50 B16.51		—
W03.1						—		—	—
W04.0						—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11201-053	I	III	F60	14"	160	1406	SA376 TP316	2485	680	2235	653	4.0
11201-053	I	III	F60	16"	160	1594	SA376 TP316	2485	680	2235	653	4.0



LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✚ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ⊥ BRANCH CONNECTION WELD.
6. —⊥— PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID ____ IX4DB111 & 119
PIPING LAYOUT DWG ____ IX4DL4A17/19
HANGER DETAIL DWG ____ VI-1201-053-H001 THRU H006

TUBECO DWGS:
6000# SW BOSS DETAIL ____ IX6AA08-19
BW END PREP DETAIL ____ IX6AA08-17
PIPING DWGS ____ IX6AB17-148, 149, & 150

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.

REVISION	DATE	DESCRIPTION
5	5-13-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI
4	11-11-85	ADDED FIELD DETERMINED DIMENSIONS
3	3-15-85	ADDED: NEW WELD NO'S
7	6-26-09	REVISED PER DCP 1060607901 AND DOCUMENTED IN PCR 2007-005.
6	5/22/91	DELETED HANGER W004 PER PCR 91-004.
0	3-9-84	ISSUED FOR INSPECTION

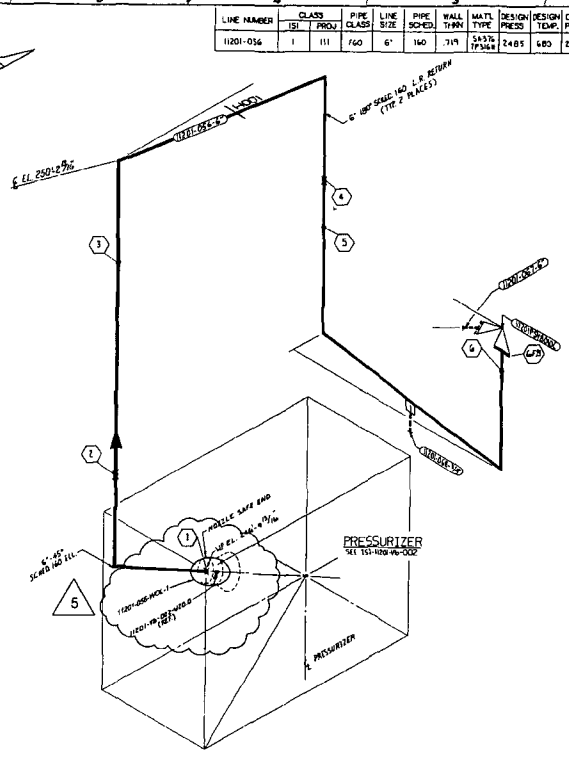
Southern Company Services, Inc.
FOR
GEORGIA POWER COMPANY

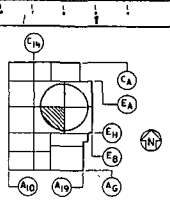
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 053
INSERVICE INSPECTION ISOMETRIC
REACTOR COOLANT-SYSTEM (201)

DESIGNED FT | DRAWN DRK | CHECKED WS
SCALE NONE | PROJECT I.D. | DRAWING NUMBER 151-1201-053 | REV 7

EQUIPMENT OR PIPING IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11201PS1B010C	RELIEF VALVE	PRESS. REL. ASSEMBLY	—	—	—	—	B13.10 B13.11	B12.40	—
11201-056-W010	BW	CIRC. WELD	11-B2500-B	BRH	BRH	—	B13.20 B13.21	—	—
W020						—		—	—
W023						—		—	—
W030						—		—	—
W031						—		—	—
W032						—		—	—
1E201-056-6FB	PRV BODY	FLG. BLT. ASSEMBLY	—	—	—	B7.70	—		—
1W201-056-H004	PIPE RESTRAINT	STRUCT. SUPPORT	INF-1300-1	—	—	—	—	PSE-10 FE.20	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11201-056	1	III	F60	6"	160	.719	SA376 TP316	2485	680	2235	653	3.5





KEY PLAN
LEVEL 2

LEGEND:

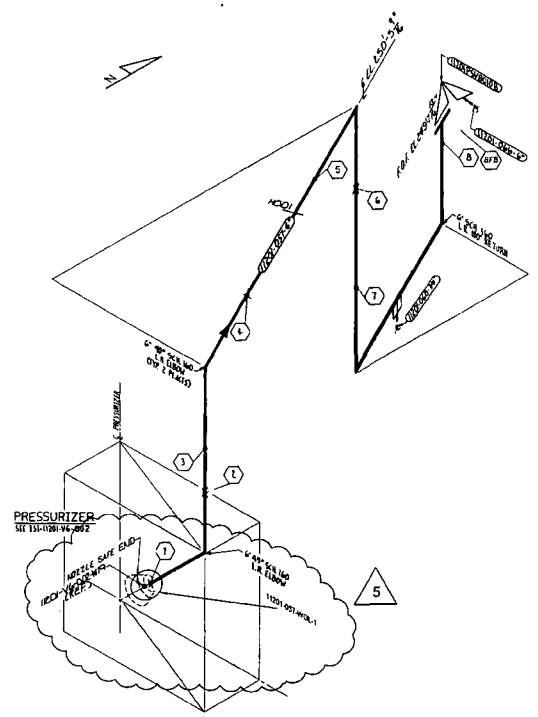
1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

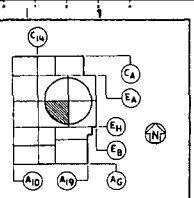
REFERENCE DRAWINGS:

P & ID _ _ _

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
1V02P5180008	RELIEF VALVE	PRESS. RELIEF COMPONENT	–	–	–	–	B5.70 B5.71	B7.40	
11201-057-W010	BW	CIRC. WELD	148-2500-8	B9.11	B9.11	–	B9.11 B9.31	–	–
W020						–		–	–
W021						–		–	–
W030						–		–	–
W031						–		–	–
W040						–		–	–
W041						–		–	–
W042						–		–	–
11201-057-BF18	FLG. BOLT ASSEMBLY	FLG. BOLT ASSEMBLY	–	–	–	B7.70	–		–
11201-057-H001	6" SCH. 160 RESTRAINT	STRUCTURAL SUPPORT	INF-1500-1	–	–	–	–	K1.10 K1.30	

LINE NUMBER	CLASS 151	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11201-057	1	111	F60	6"	160	.719	SA-376 TP316H	2485	680	2235	653	3.5





KEY PLAN
LEVEL 2

LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ♦ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & ID _____ 1X4DB112
PIPING AREA DWG ___ 1X4DL402D10/07
CIVIL/STRUCTURAL ___ 1X2D48A015
WESTINGHOUSE DWGS:
PRESSURIZER SAFETY & RELIEF VALVE PIPING AND SUPPORTS _____ 1X6A917-194, 195, 196, 197

NOTES:

1. SEE 151 PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	DESCRIPTION
5	6-26-09	REVISED PER DCP 1060607901 AND DOCUMENTED IN PCR 2007-005.
4	5-18-97	GENERAL REVISION TO UPDATE DRAWING FOR 151
3	6-23-86	ADDED SUPPORT H001 TO DRAWING AND LIST. ADDED FLG. BOLT ASSEMBLY TO LIST.
2	11-11-85	ADDED FLANGE BOLTS
1	3-15-85	ADDED NEW WELD NUMBERS REVISED LEGEND & REFERENCES INSERTED ANGLES, LINEAR DIMENSION AND ELEVATION ADDED 11201-VG-002-WIR (REF.)
0	3-5-84	ISSUED FOR INSPECTION

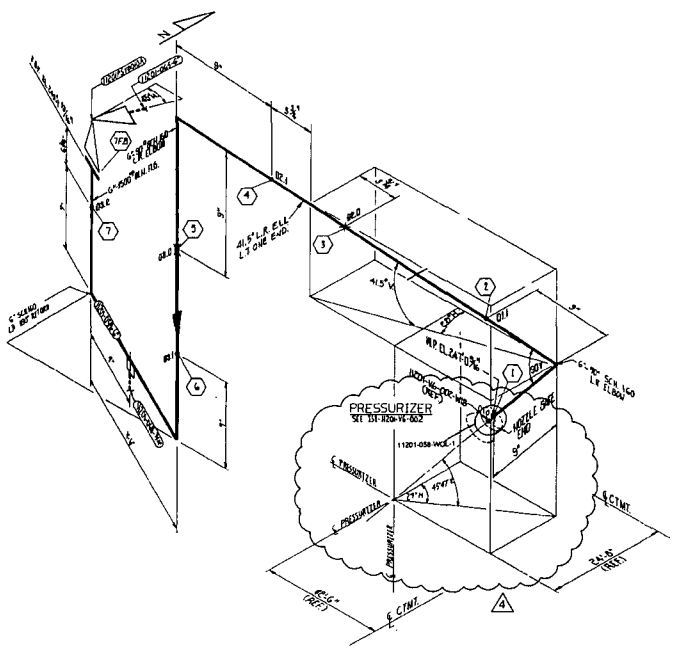
Southern Company Services, Inc.
AGENT
GEORGIA POWER COMPANY

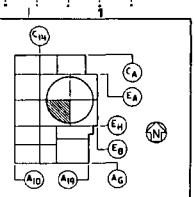
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 057
INSERVICE INSPECTION ISOMETRIC
REACTOR COOLANT-SYSTEM 1201

DESIGNED FT | DRAWN DRC | CHECKED VS
SCALE NONE | PROJECT I.D. | DRAWING NUMBER 151-11201-057 | REV 5

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11201PSV8010A	RELIEF VALVE	PRESS. RET. COMPONENT	—	—	—	—	B15.10 B15.11	B2.40	—
11201-058 WOL.0	BU	CTRL WELD	1WB2X0-B	B9.11	B9.11	—	B15.10 B15.11	—	—
WELD 0	↓	↓	↓	↓	↓	—	↓	—	—
WELD 1						—		—	—
						—		—	—
						—		—	—
WELD 8						—		—	—
WELD 9						—		—	—
WELD 10						—		—	—
11201-058-7FB	WELD BOTTOM FLANGE TO PENETRANT	FLG BOLTS PRESSURIZER FLANGE	—	—	—	B7.70	—	—	—
11201-058-1H001		SUPPORT	1WF-1300-1	—	—	—	—	F2.10 F2.20	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11201-058	I	III	FGO	6"	160	.719	SA-376 TP316H	2485	680	2235	653	3.5





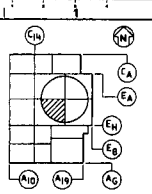
KEY PLAN
LEVEL 2

LEGEND:
1. ✱ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ⊥ BRANCH CONNECTION WELD.
6. —||— PIPE RESTRAINT
7. — INDICATES PIPE SUPPORT

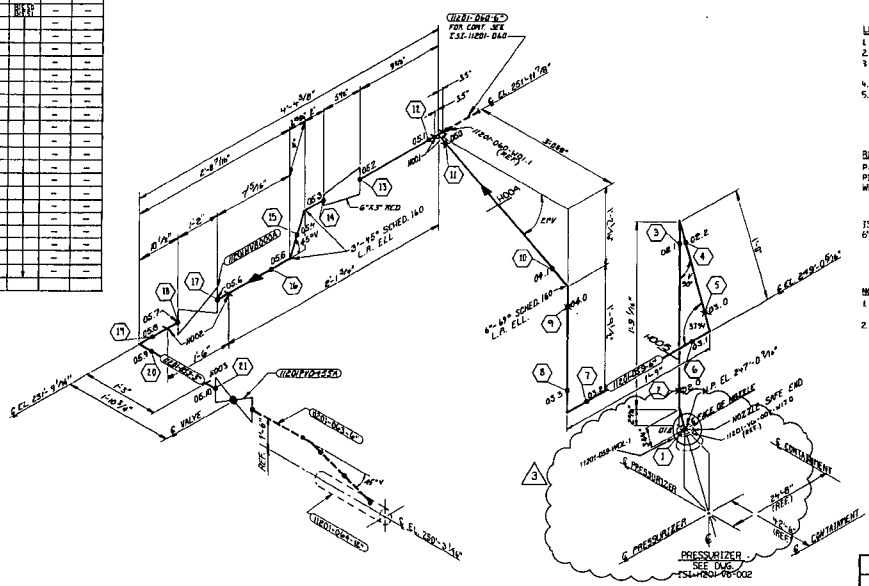
REFERENCE DRAWINGS:
P & ID_____ _ _ _

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO.)	EXAM REQUIREMENT FIG	EXAMINATION METHOD AND ITEM NO. VOL.	SURF	VT1	VT2	VT3	VT4
1120HV8000A	GATE VALVE	PRESSURE HOLDER	—	—	—	—	QR-10 QR-11	—	—
1120PSV4205A	RELIEF VALVE		—	—	—	—	↓	—	—
1120I-059-H001	1-DTR RAN/TANT 2-DTR RGIDITY 3-DTR RESTRAINT	LINEAR SUPPORT	DWG-1120I-1	—	—	—	—	FE26	—
H002				—	—	—	—	FE25 FE30	—
H003				—	—	—	—	↓	—
H004				—	—	—	—	RE10 FE30	—
H005	↓	↓	↓	—	—	—	—	↓	—
1120I-059-WOLD	N.W	CTRL WELD	DWG-2580-1	3.9.8	3.9.11	—	RE50 RE51	—	—
W02.0						—		—	—
W02.1						—		—	—
W02.2						—		—	—
W03.0						—		—	—
W03.1						—		—	—
W03.2						—		—	—
W03.3						—		—	—
W04.0						—		—	—
W04.1						—		—	—
W05.0						—		—	—
W05.1						—		—	—
W06.2						—		—	—
W05.3						—	RM.21	—	—
W05.4						—		—	—
W05.5						—		—	—
W05.6						—		—	—
W05.7						—		—	—
W05.8						—		—	—
W05.9						—		—	—
W05.10	↓	↓	↓		↓	—	↓	—	—

LINE NUMBER	CLASS PROJ	CLASS ISI	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN.	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP	OPERT PRESS	OPERT TEMP	INSUL THKN.
1120I-059	III	I	F60	3"	160	.438	SA-376 TP-316N	2485	680	2235	653	3.5
1120H-059	III	I	F60	6"	160	.719	SA-376 TP-316N	2485	680	2235	653	3.5



KEY PLAN
LEVEL 2



KEY PLAN
LEVEL 2

LEGEND:
1. ⊠ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ⊕ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
4. — INDICATES PIPE SUPPORT.
5. —H— INDICATES PIPE RESTRAINT.

REFERENCE DRAWINGS:
P&I.D. _____ 1X4DB112
PIPING LAYOUT DWG. _____ 1X4DL4D1B
WESTINGHOUSE DWGS:
PRESSURIZER SAFETY & RELIEF VALVE PIPING & SUPPORTS _____ 1X6AB17-194,195,196,197
ISI CLASSIFICATION DWG. ___ ISI-D-027
6" CAL. BLOCK DWG. _____ ISI-D-304A

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP SEE BECHTEL DWG. A2X4DR001 APPENDIX D (U.N.O.)

REVISION	DATE	REMARKS
3	6-26-09	Removed nozzle details to keep the ISI sketches consistent. Revised per DCP 1060607901 and documented in PCR 2007-005.
2	6-23-86	CHANGED PIPE RESTRAINT TO PIPE SUPPORT, NUMBERED IT H004 AND ADDED TO LIST. ADDED H005 TO DRAWING AND LIST.
1	3-15-85	ADDED NEW WELD NO'S REVISED REFERENCES
0	6-1-84	ISSUED FOR INSPECTION

Southern Company Services, Inc.
for
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 059
INSERVICE INSPECTION ISOMETRIC
REACTOR COOLANT-SYSTEM 1201

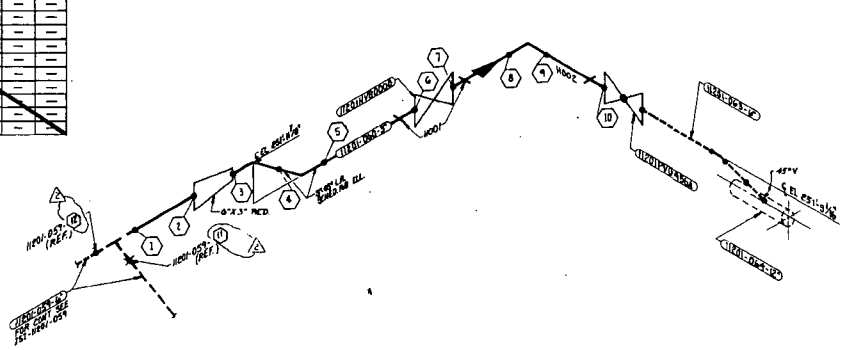
DESIGNED F.T. DRAWN E.A.L. CHECKED W.S.

SCALE	PROJECT I.D.	DRAWING NUMBER	REV
NONE		ISI-1120I-059	3

SM 5/21/2015 JMA

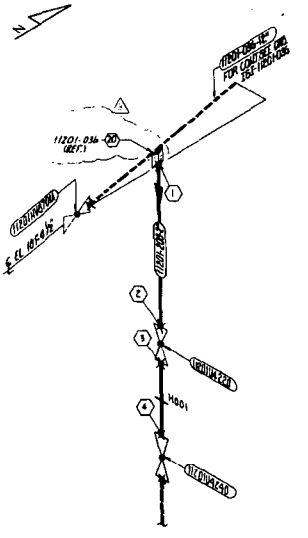
EQUIPMENT OR WELD IDENTIFICATION NO	WELD OR EQUIP DESCRIP	PART EXAMINED (SEE NOTE NO.1)	EXAM. REQUIREMENT FIG	EXAMINATION METHOD AND ITEM NO. VOL	SURF	VT1	VT2	VT3	VT4
1201-V-456A	GATE VLVE MOTOR VALVE	PACKING PACK COMPD	—	—	—	—	B6.19 B6.21	—	—
1201-060-H001	PIPE SUPPORT	LINEAR SUPPORTS	TMF-1500-1	—	—	—		B6.19 B6.21	—
H002	PIPE RESTRAINT			—	—	—	—		—
1201-060-W01.1	B.W.	CIRC. WELD		B9.11	B9.11	—	B15.50 B15.51	—	—
W01.2				—		—		—	—
W01.3				—	B9.21	—		—	—
W01.4				—		—		—	—
W01.5				—		—		—	—
W01.6				—		—		—	—
W01.7				—		—		—	—
W01.8				—		—		—	—
W01.9				—		—		—	—
W01.10				—		—		—	—

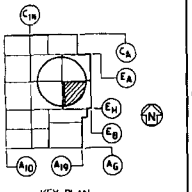
LINE NUMBER	CLASS PROJ	CLASS ISI	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP	OPERT PRESS	OPERT TEMP	INSUL THKN.
1201-060	III	1	FG0	3"	160	.438"	SA-376 TP304H	2485	680	2235	653	3.5"
1201-060	III	1	FG0	6"	160	.719"	SA-376 TP304H	2485	680	2235	653	3.5"



EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
TRQU14220	GATE VALVE	PRESS. BOUND. COMPONENT	—	—	—	—	RVT-17	—	—
1120U14240				—	—	—		—	—
VF-1201-208-H001	T-BOLT CLAMP	DUBBELD METHOD	FIG-1500-1	—	—	—	—	RVT-10	—
11201-208-W010	SMW	CATS WELD	CWB-2550-8	—	B9.21	—	RVT-10	—	—
11201-208-W020	S.W.			—	B9.40	—		—	—
W030				—	—	—		—	—
W040				—	—	—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11201-208	1	III	F00	2"	160	0.344	SA-312 TP304L	2485	650	2235	617	2.5





KEY PLAN
LEVEL 'C'

LEGEND:
1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ⌓ BRANCH CONNECTION WELD.
6. ⊣⊢ PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:

P&I.D. _____ 1X4DB122
FAB ISO. _____ 1X4-1201-036-01/E1
PIPING LAYOUT DWG. _____ 1X4DL6A07
CIVIL/STRUCTURAL _____ 1X2DA8F002
HANGER DWG. _____ VF-1201-208-H001

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
				3	5-18-87	2	3-15-85	1	9-25-84
				GENERAL REVISION TO UPDATE DRAWING FOR ISI		ADDED: NEW WELD NO'S		ADDED: NOTE 3, REF. DWG. PIPE SUPPORT TO LEGEND, HANGER H001, WELDS 030 & 040, & VALVE 1120U14240	

REVISION 0	DATE 12-30-83
ISSUED FOR INSPECTION	

Southern Company Services, Inc.

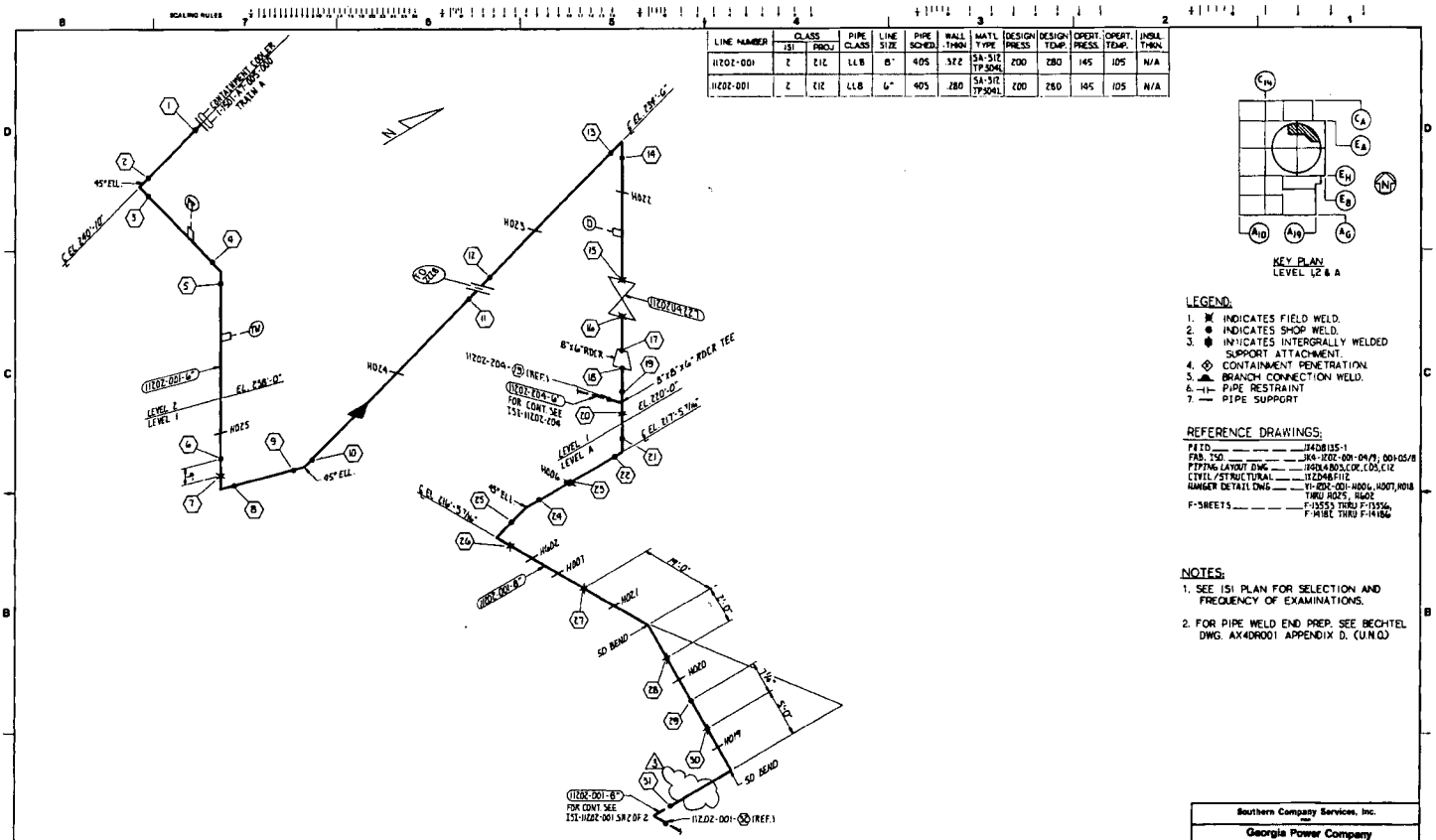
GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 208
INSERVICE INSPECTION ISOMETRIC
REACTOR COOLANT-SYSTEM 1201

DRAWN	CHECKED	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	APPR. 6
RLD	GLO	WJC					
TKG	WJS	CWB					
TKG	WJS	JF					
RLD	WJS	JF					

Subscribed FT | Drawn CSB | Checked WS
SCALE: NONE | PROJECT I.D. | DRAWING NUMBER: ISI-11201-208 | REV. 3

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL THKN.
11202-001	2	212	LLB	8"	40S	.322	SA-312 TP304L	200	280	145	105	N/A
11202-001	2	212	LLB	6"	40S	.280	SA-312 TP304L	200	280	145	105	N/A



LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. ⊣⊢ PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID ____ J14DB135-1
FAB. ISO ____ JK4-11202-001-04/9, 001-05/8
PIPING LAYOUT DWG ____ 1A9QL4B05,C0K,C05,C12
CIVIL/STRUCTURAL ____ 11ZD46F112
HANGER DETAIL DWG ____ Y1-11202-001-H006, H007, H018 THRU H025, H602
F-SHEETS ____ F-13553 THRU F-13556, F-14186 THRU F-14186G

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION 3	DATE 11-19-92	REVISION 2	DATE 5-18-87	REVISION 1	DATE 10-3-85	REVISION 0	DATE 8-17-85
				REMOVED HANGER H018 PER PCR 92-005		GENERAL REVISION TO UPDATE DRAWING FOR ISI		CHANGED CAL. BLK. NO.		ISSUED FOR INSPECTION	

Southern Company Services, Inc.

Georgia Power Company

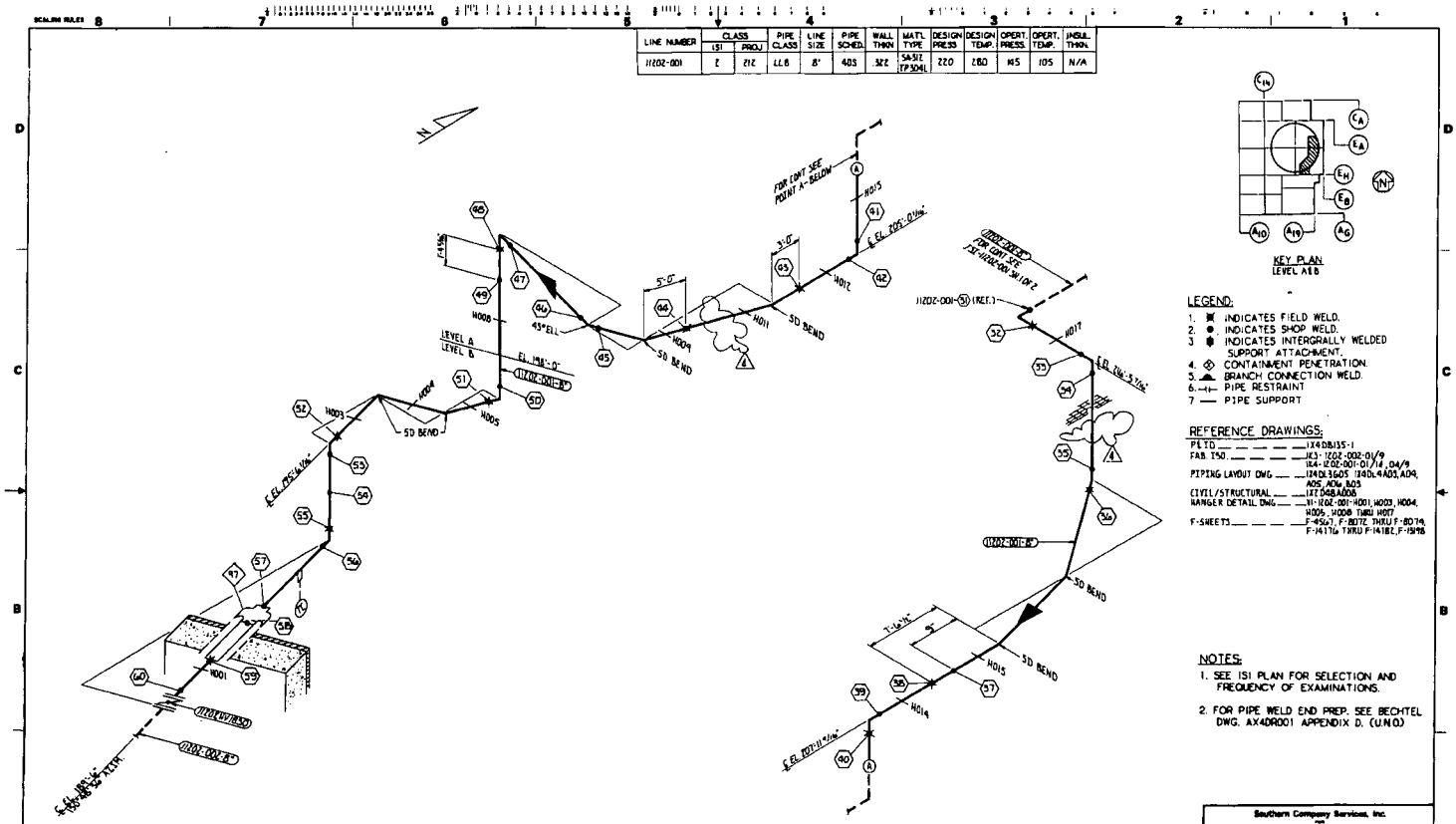
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO 001
INSERVICE INSPECTION ISOMETRIC
NSCW - SYSTEM 1202

DESIGNED CWD | DRAWN BEG | CHECKED WS

BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5
				CAK	CWD									RLB	CWB	SGC					CAK	WS	CWB					TKG	CWS	MB											

SCALE	PROJECT I.D.	DRAWING NUMBER	REV
NONE	SH 1 OF 2	ISI-11202-001	3

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11202-001	2	212	LL6	8"	40S	.322	SA-312 TP304L	220	280	145	105	N/A



LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ◇ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —⊣⊢ PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:

PID — 1X4DB135-1
FAB. ISO. — X3-1202-002-01/9, X4-1202-001-01/14, 04/9
PIPING LAYOUT DWG — 1A4DL3605, 1A4DL4A03, A09, A05, A06, A03
CIVIL/STRUCTURAL — 1X7D48A008
HANGER DETAIL DWG — N-1202-001-H001, H003, H004, H005, H008 THRU H017
F-SHEETS — F-4546, F-8072 THRU F-8074, F-14176 THRU F-14182, F-15918

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	DESCRIPTION
4	11-19-92	REMOVED HANGERS H010 AND H016 PER PCR 92-005
3	5-19-87	GENERAL REVISION TO UPDATE DRAWING FROM ISI.
2	6-10-86	ADDED DIMENSION TO WELD 57 ADDED GRATING
1	10-3-85	CHANGED CAL. BLK. NO.
0	8-19-85	ISSUED FOR INSPECTION

Southern Company Services, Inc.

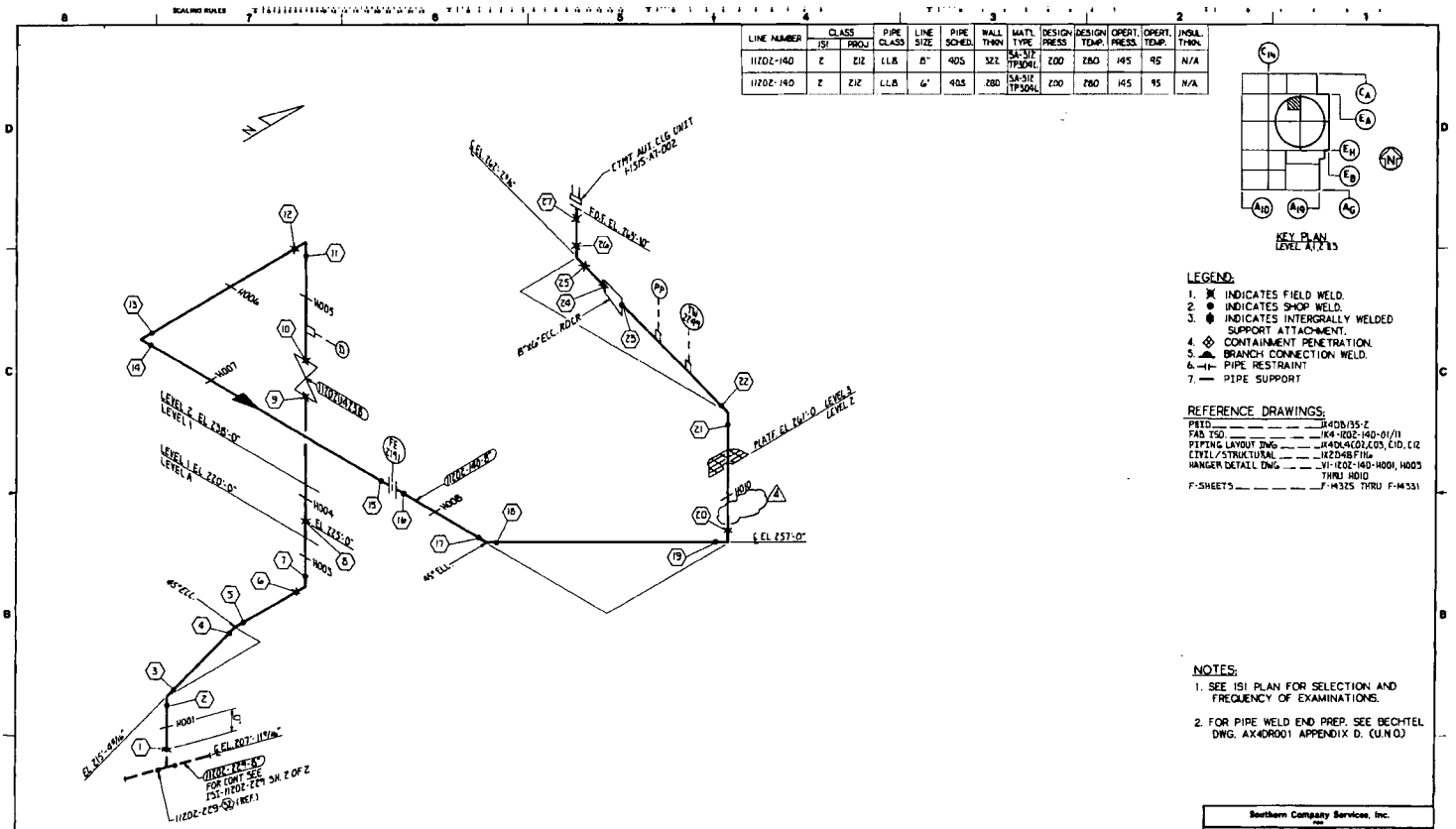
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 001
INSERVICE INSPECTION ISOMETRIC
NSCW-SYSTEM 1202

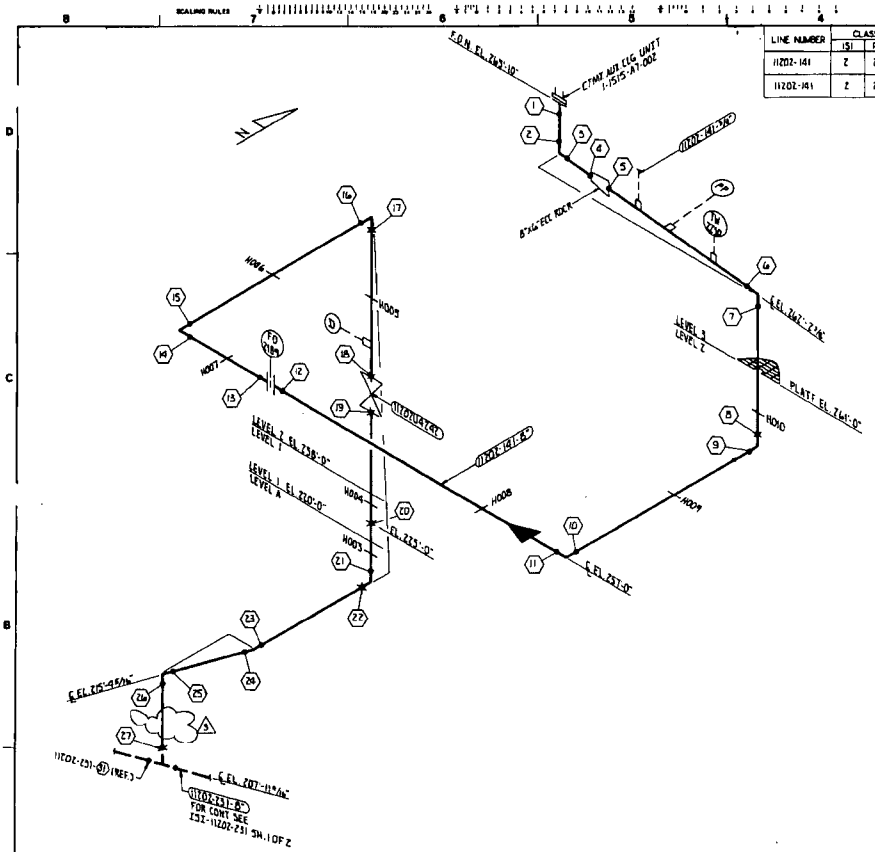
DESIGNED CWD DRAWN BKG ENGINEER WS

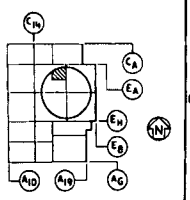
SCALE	SHEET	PARENT LA	DRAWING NUMBER	REV
NONE	5H.2 OF 2		ISI-11202-001	4

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1120Z-140	2	212	LLB	8"	40S	.322	SA-312 TP304L	200	280	145	95	N/A
1120Z-140	2	212	LLB	6"	40S	.280	SA-312 TP304L	200	280	145	95	N/A



LINE NUMBER	CLASS 151	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11202-141	2	212	LL8	8"	40S	.322	SA-312 TP304L	200	280	145	105	N/A
11202-141	2	212	LL8	6"	40S	.280	SA-312 TP304L	200	280	145	105	N/A





KEY PLAN
LEVEL 4,1,2 & 3

LEGEND:

1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID ____ JX4DB135-2
FAB. ISO. ____ JK9-12D2-141-01/12
PIPING LAYOUT DWG. ____ JX4DL4C02,C03,C10,C12
CIVIL/STRUCTURAL ____ JX2D9BF110
HANGER DETAIL DWG. ____ VI-1202-141-H001, H005 THRU H010
F-SHEETS ____ F-14332 THRU F-14338

NOTES:

1. SEE 151 PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

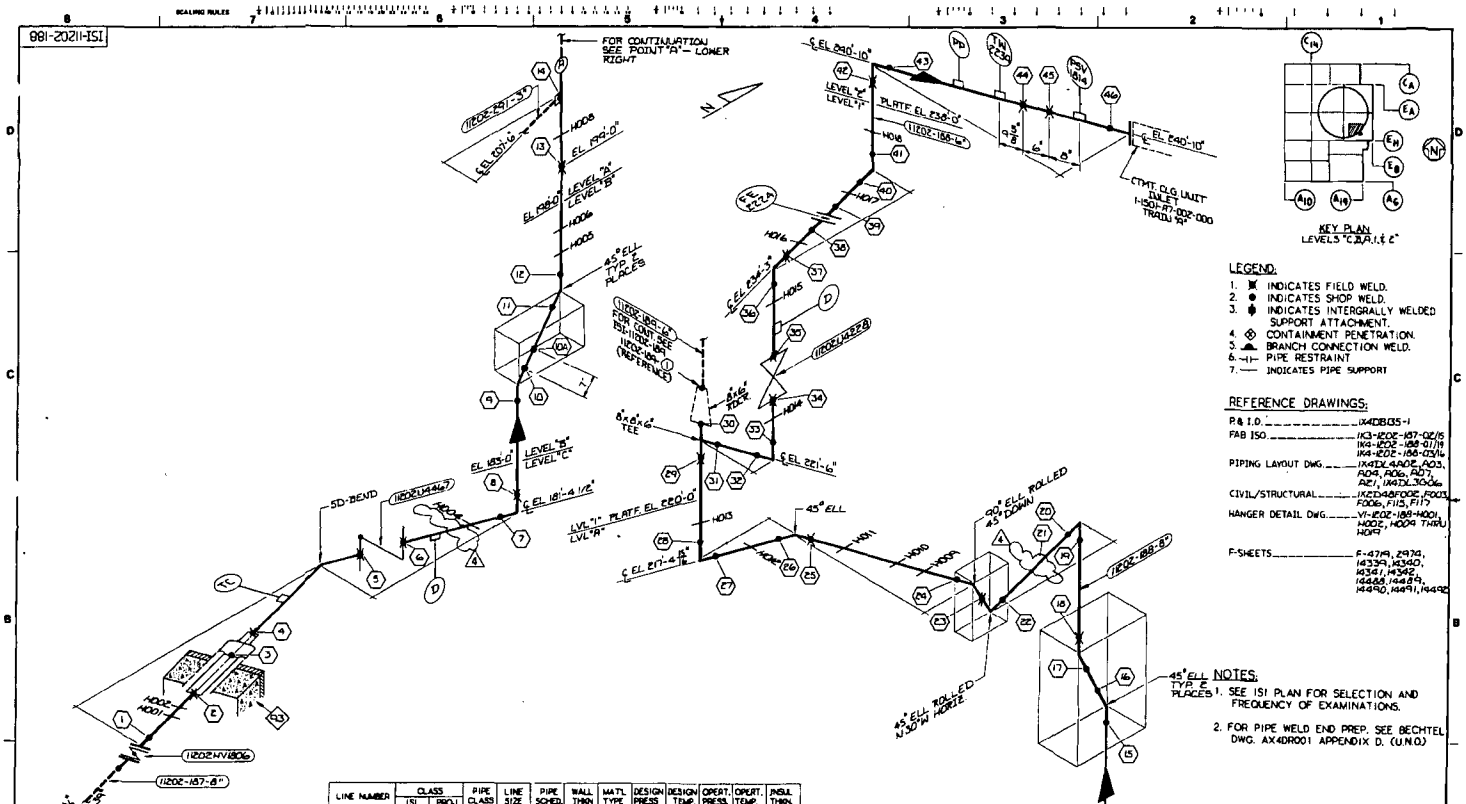
REVISION	DATE	DESCRIPTION
3	11-19-92	REMOVED HANGER H001 PER PCR 92-005
2	5-17-87	GENERAL REVISION TO UPDATE DRAWING FOR 151
1	6-3-85	CHANGED CAL. BLK. NO.
0	8-19-85	ISSUED FOR INSPECTION

Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO 141
INSERVICE INSPECTION ISOMETRIC
NSCW-SYSTEM 1202

DESIGNED CWD | DRAWN BKG | CHECKED WS

SCALE: NONE | PROJECT I.D. | DRAWING NUMBER: 151-11202-141 | REV. 3



LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL THKN.
11202-188	2	212	LL8	8"	40S	.322"	SA-312 TP304L	200	280	195	95	N/A
11202-188	2	212	LL8	6"	40S	.280"	SA-312 TP304L	200	280	195	95	N/A

REVISION	DATE	DESCRIPTION
4	11-13-92	REMOVED HANGERS H007 AND H019 PER PCR 92-006
3	5-17-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI
2	6-10-86	ADDED WELD 10A
1	6-3-85	CHANGED CAL. BLK. NO.
0	8-19-85	ISSUED FOR INSPECTION

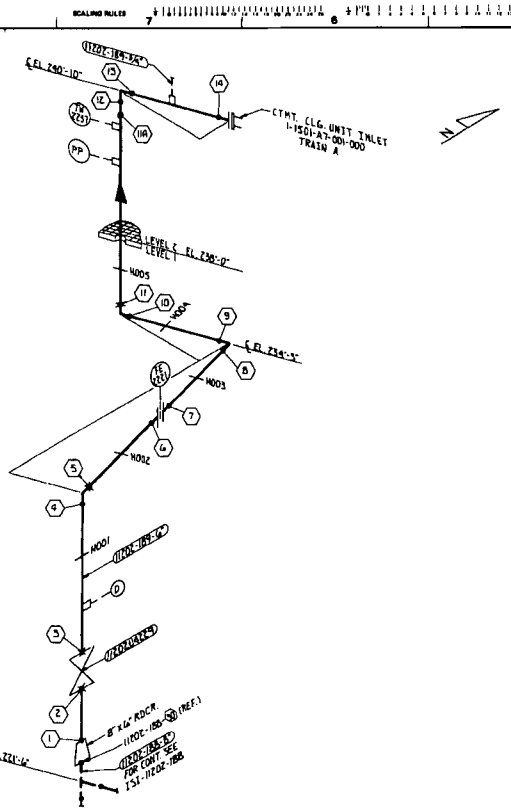
Southern Company Services, Inc.
Georgia Power Company

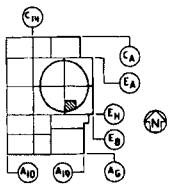
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 188
INSERVICE INSPECTION ISOMETRIC
NSCW-SYSTEM 1202

DRAWN CWD | DESIGN BST | ENGINEER WS

SCALE NONE | DRAWING NUMBER ISI-11202-188 | REV. 4

LINE NUMBER	CLASS		PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
	ISI	PROJ										
11202-189	2	212	LL8	6"	40S	.280	SA-312 TP304L	200	280	145	95	N/A





KEY PLAN
LEVEL 182

LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ⬢ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ◠ BRANCH CONNECTION WELD.
6. ⊣⊢ PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:

PID ____ 1X4DB135-1
FAB. ISO ____ 1X4-1202-188-03/16
PIPING LAYOUT DWG ____ 1X4DL49A01 A21
CIVIL/STRUCTURAL ____ 1X2D48A008
HANGER DETAIL DWG ____ VI-1202-189-H001 THRU H005
F-SHEETS ____ F-14493 THRU F-14496
F-14488

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION 3	DATE 5-19-87	REVISION 2	DATE 6-20-86	REVISION 1	DATE 10-3-85	REVISION 0	DATE 8-19-85
				GENERAL REVISION TO UPDATE DRAWING FOR ISI.		ADDED WELD 11A		CHANGED CAL. BLK. NO.		ISSUED FOR INSPECTION	

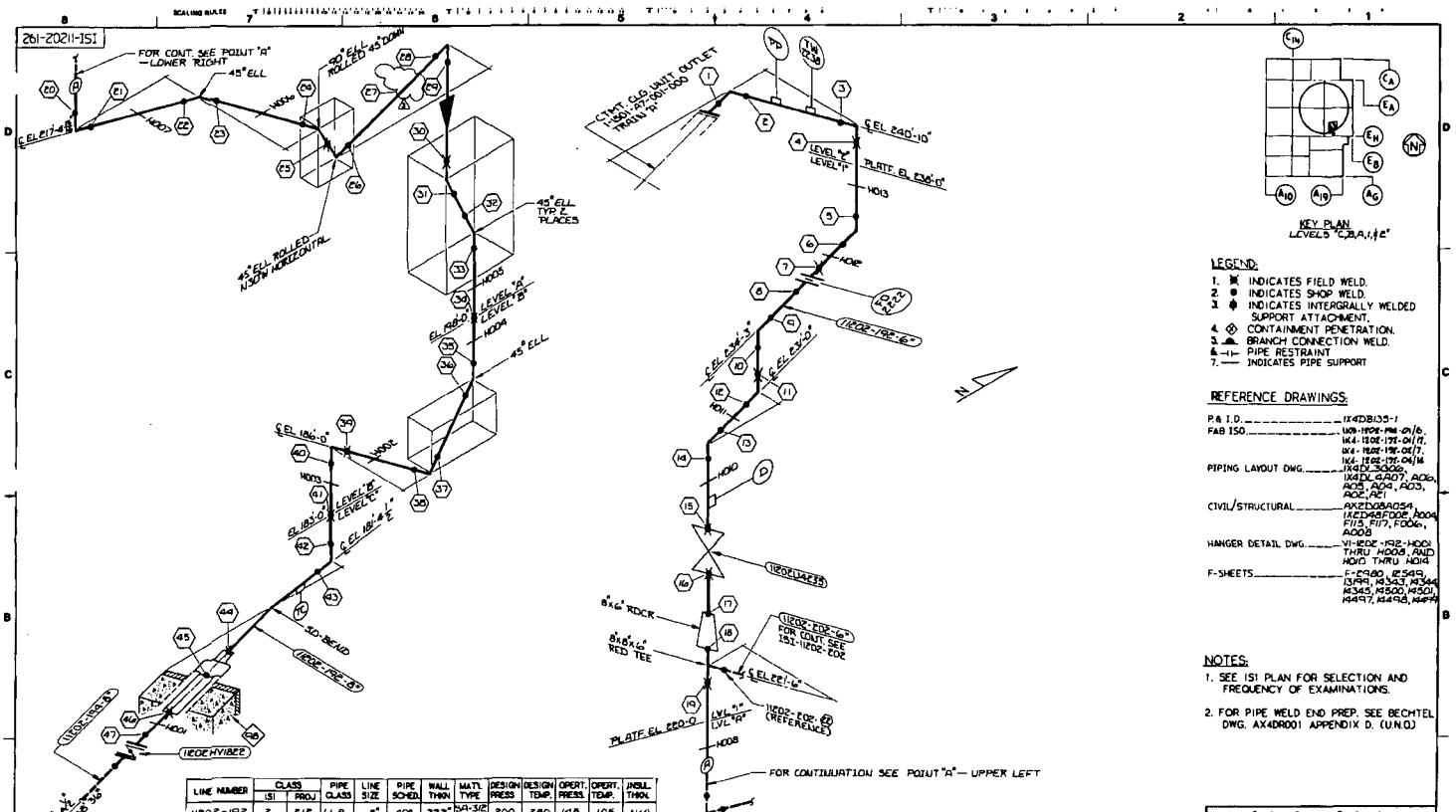
BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5
														MEL	GLB	GRC					BKG	BST	CWB						CAB	WS	CWB						BKG	WS	MB				

Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 189
INSERVICE INSPECTION ISOMETRIC
NSCW - SYSTEM 1202

DESIGNED CWD DRAWN BKG CHECKED WS

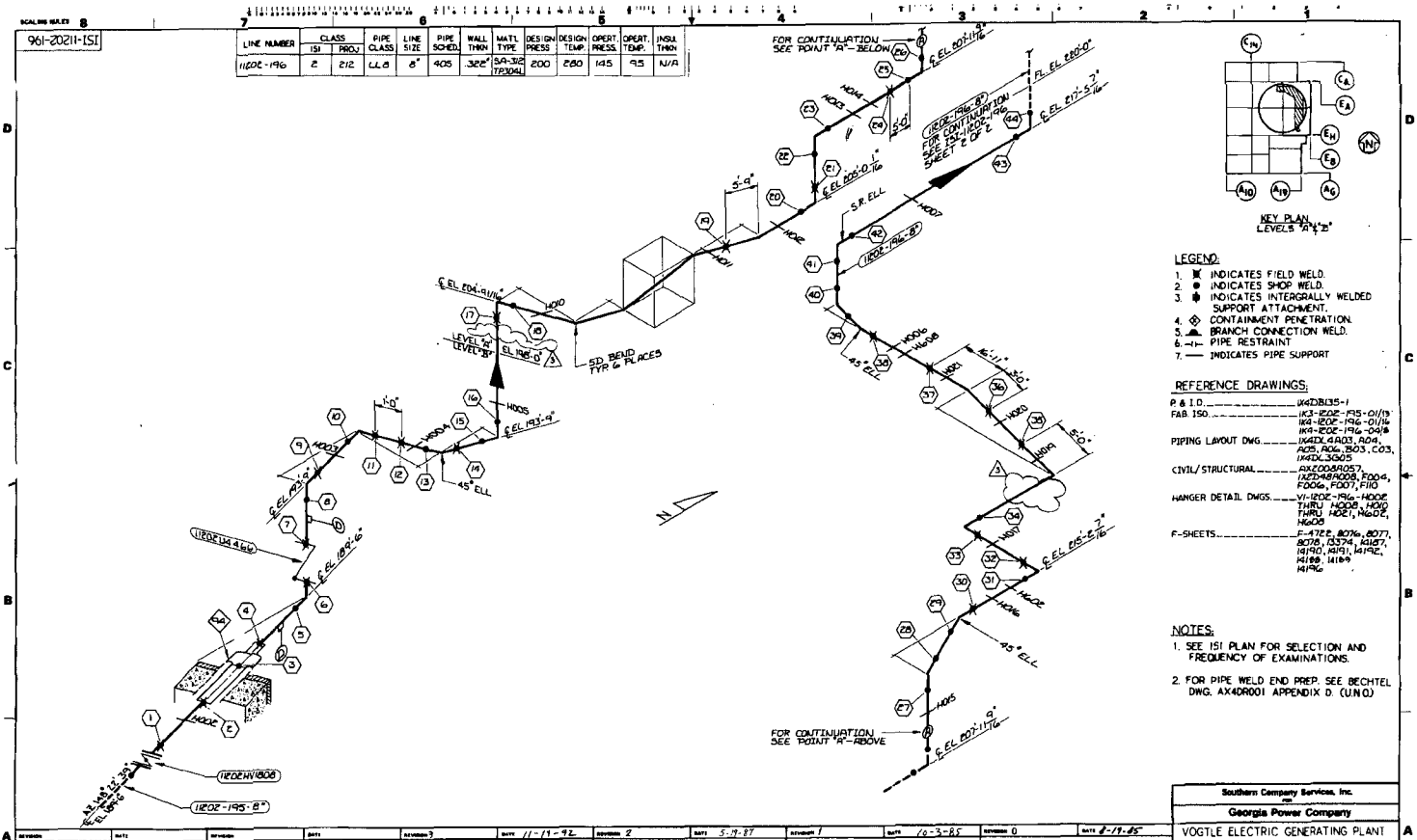
SCALE	PROJECT I.D.	DRAWING NUMBER	REV.
NONE		ISI-11202-189	3



LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1120E-192	2	212	LL8	8"	40S	.322"	SA-312 TP304L	200	280	145	105	N/A
1120E-192	2	212	LL8	6"	40S	.280"	SA-312 TP304L	200	280	145	105	N/A

ISI-11202-196

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL THKN
11202-196	2	212	CL8	8"	40S	.322"	SA-312 TP304L	200	280	145	95	N/A



LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & I.D. — IX4DB035-1
FAB. ISO. — IK3-12D2-195-01/13, IK4-12D2-196-01/14, IK4-12D2-196-04/8
PIPING LAYOUT DWG. — IX4DX4A03, A04, A05, A06, B03, C03, IX4DL3G05
CIVIL/STRUCTURAL — AX2D05R057, IX2D48N008, F004, F006, F007, F110
HANGER DETAIL DWGS. — V1-12D2-196-H00F THRU H00J, H00O THRU H021, H6D2, H600
F-SHEETS — F-1128, 8076, 8077, 8078, 13374, 14187, 14190, 14191, 14192, 14188, 14189, 14196

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION 3	DATE 11-13-92	REVISION 2	DATE 5-19-87	REVISION 1	DATE 10-3-85	REVISION 0	DATE 8-19-85
				REMOVED HANGERS H008 AND H018 PER PCR 92-005		GENERAL REVISION TO UPDATE DRAWING FOR ISI.		CHANGED CAL BLK. NO.		ISSUED FOR INSPECTION	
BY	CHK'D	APPR.1	APPR.2	BK	CWD		MKG	GLB	RGD	CAL	WS
										BST	WS

Southern Company Services, Inc.
Georgia Power Company

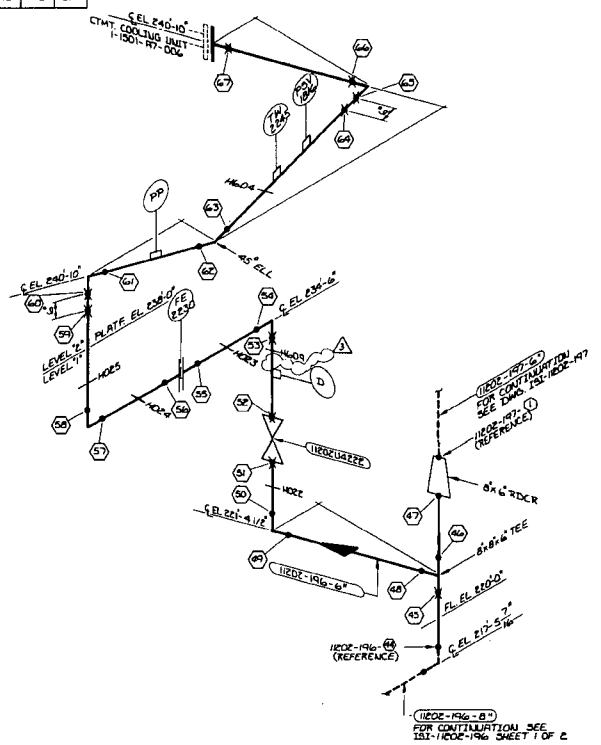
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO 196
INSERVICE INSPECTION ISOMETRIC
NSCW-SYSTEM 1202

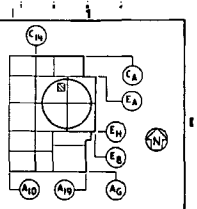
DRAWN CWD | DESIGN BST | CHECKED WS

SCALE NONE | SHEET 1 OF 2 | DRAWING NUMBER ISI-11202-196 | REV. 3

961-20211-1S1

LINE NUMBER	CLASS 1S1	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL THKN
11202-196	2	212	LL8	8"	40S	.322"	SA-312 TP304L	200	280	145	95	N/A
11202-196	2	212	LL8	6"	40S	.280"	SA-312 TP304L	200	280	145	95	N/A





LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ⬢ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & I.D. 1X4DB135-1
FAB ISO 1X4-11202-196-05/10
PIPING LAYOUT DWGS. 1X4DL4C1E, C.O.2
CIVIL/STRUCTURAL 1X2D4AF112, 114, 116
HANGER DETAIL DWGS V-1202-196-H02.2, H02.3, H02.4, H02.5, H6.03, H6.04, H6.09
F-SHEETS F-14756, 14757, 14758, 14759, 14760, 14761

NOTES:

1. SEE 1S1 PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION 3	DATE 11-19-92	REVISION 2	DATE 5-19-87	REVISION 1	DATE 10-3-85	REVISION 0	DATE 8-19-85
				REVOKED NUMBER H6.03 PER PCR 92-202		GENERAL REVISION TO UPDATE DRAWING FOR 1S1.		CHANGED CAL. BLK. NO.		ISSUED FOR INSPECTION	

Southern Company Services, Inc.
for
Georgia Power Company

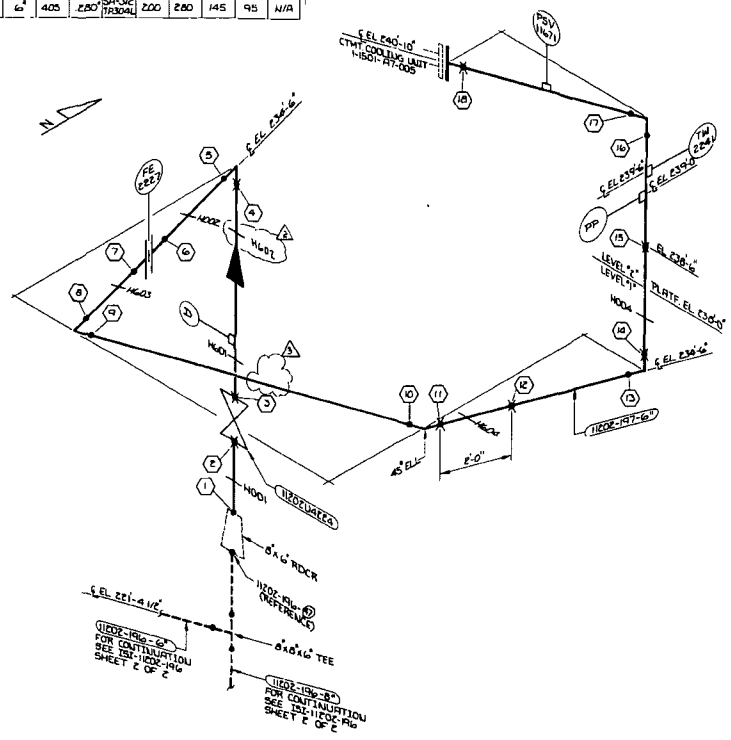
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO 196
INSERVICE INSPECTION ISOMETRIC
NSCW-SYSTEM 1202

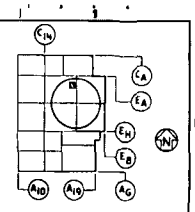
DRAWN CWD | DESIGN BSJ | CHECKED WS

SCALE NONE | SHEET 2 OF 2 | PROJECT I.D. | DRAWING NUMBER 1S1-11202-196 | REV. 3

ISI-20211-197

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL THKN
11202-197	2	212	LL6	6"	40S	.280"	SA-312 TP304L	200	280	145	95	N/A





KEY PLAN
LEVELS "F" & "C"

LEGEND:

1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT.
7. INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & I.D. ——— 1X4DB135-1
FAB. ISO ——— 1X4-1202-1916-05/11
PIPING LAYOUT DWG ——— 1X4DL4C02, C12
CIVIL/STRUCTURAL ——— 1X2D4611E, F14, F16
HANGER DETAIL DWG ——— VI-1202-197-H001 THRU H004, H601, H602, H603, H604
F-SHEETS ——— F-1476E, 1476G, 1476H, 1476I

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	DESCRIPTION
3	11-19-92	REMOVED HANGER H603 PER PCR 92-005
2	5-28-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI
1	11-3-85	CHANGED CAL BLK NO.
0	8-19-85	ISSUED FOR INSPECTION

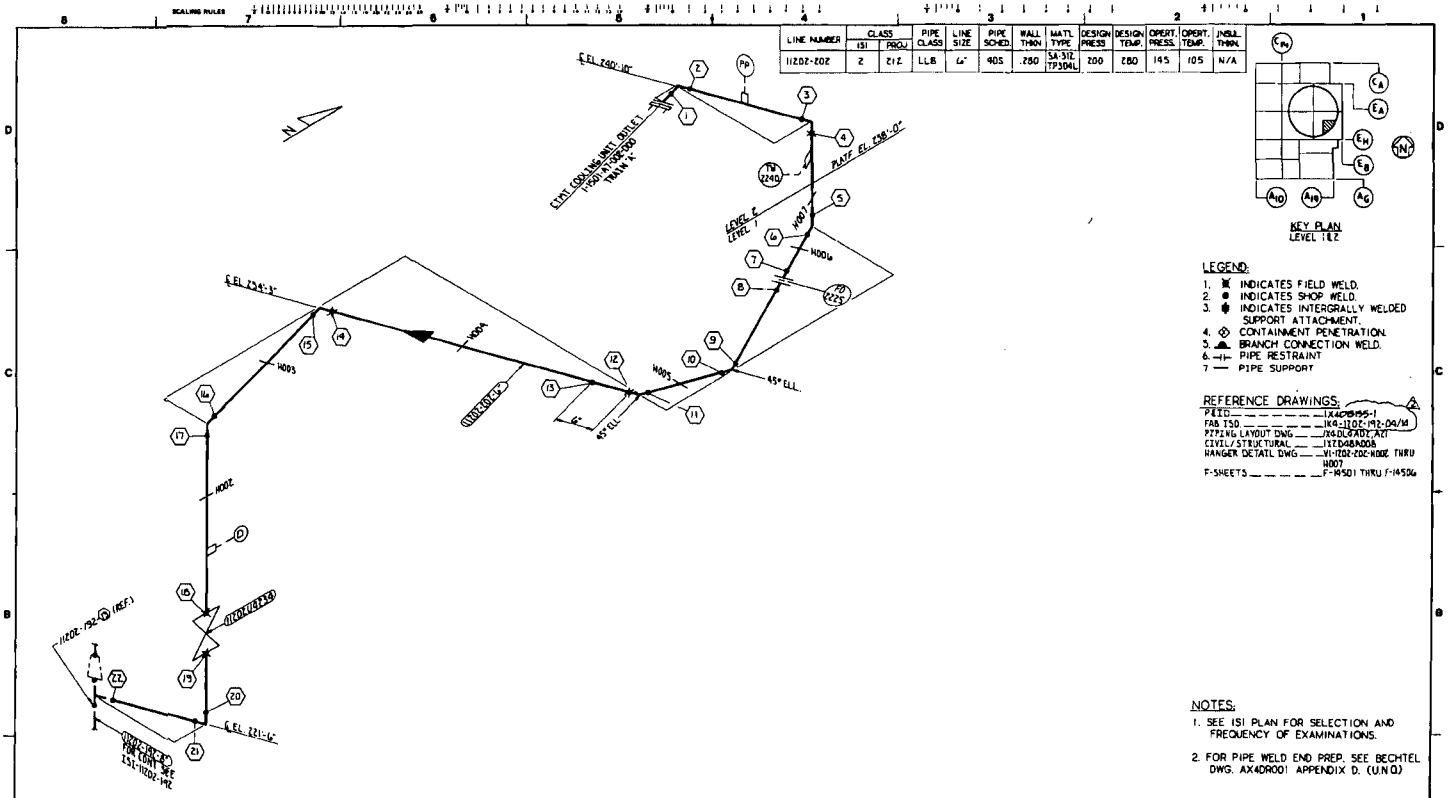
Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 197
INSERVICE INSPECTION ISOMETRIC
NSCW-SYSTEM 1202

DRAWN CWD | DESIGN BST | CHECKED WS

SCALE: NONE | PROJECT NO. | DRAWING NUMBER: ISI-11202-197 | REV. 3

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11Z02-Z02	2	212	LLB	6"	40S	.280	SA-312 TP304L	200	280	145	105	N/A



LEGEND:

1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID — IX4C18155-1
FAB ISO — IK9-11Z02-M2-D9/M
PIPING LAYOUT DWG — JX4DLX4DE/ACT
CIVIL/STRUCTURAL — IZ2D48A008
HANGER DETAIL DWG — VI-11Z02-Z02-H002 THRU H007
F-SHEETS — F-14501 THRU F-14506

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 5-17-87	REVISION 1	DATE 10-3-85	REVISION 0	DATE 8-19-85
						GENERAL REVISION TO UPDATE DRAWING FOR ISI.		CHANGED CAL BLK NO.		ISSUED FOR INSPECTION	

Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO 202
INSERVICE INSPECTION ISOMETRIC
N.S.C.W. - SYSTEM 1202

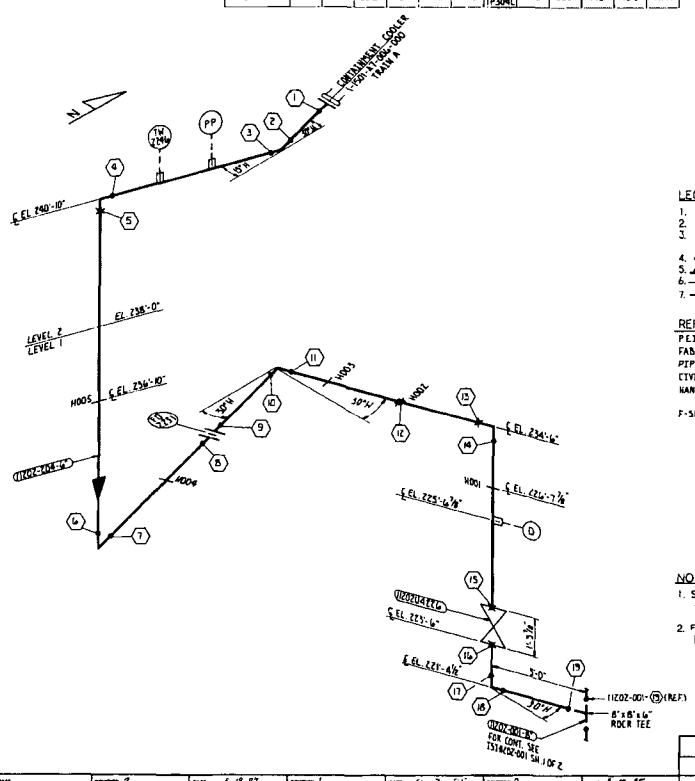
DESIGNED CWD DRAWN BKG CHECKED WS

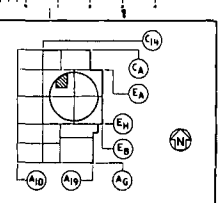
BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4
												MKA	GLB	99C				CAB	WS	CWD				BKG	WS	MB			

SCALE 1 NONE | FREQUENCY I.D. | DRAWING NUMBER ISI-11202-202 | REV. E

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO.					
				VOL.	SURF.	VT1	VT2	VT3	VT4

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11Z02-204	2	212	LL8	6"	40S	.280	SA-312 TP304L	200	280	145	105	N/A



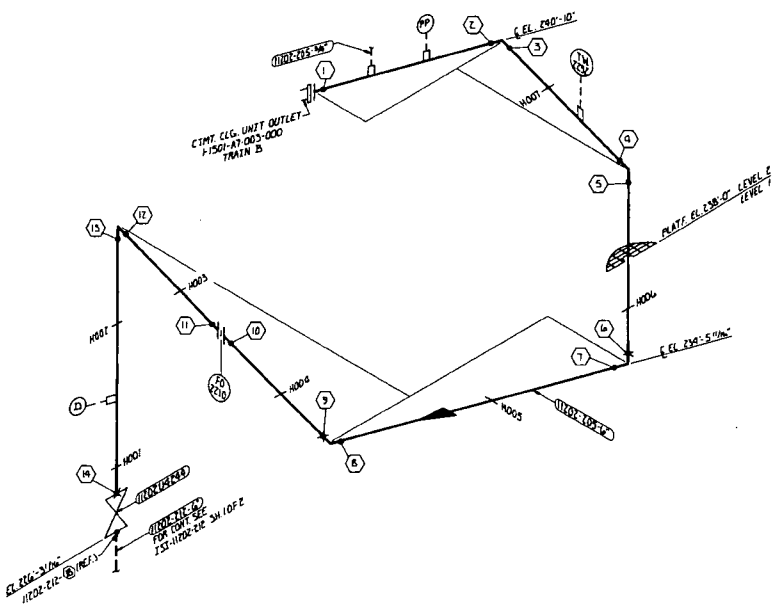


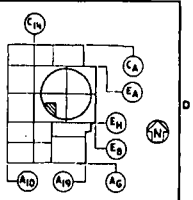
KEY PLAN
LEVEL 1 & 2

LEGEND:
1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:
P.E.I.D. — — —

LINE NUMBER	CLASS		PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
	ISI	PROJ										
11202-205	2	212	4L8	6"	40S	.280	SA-312 TP304L	200	280	145	105	N/A





KEY PLAN
LEVEL 1E2

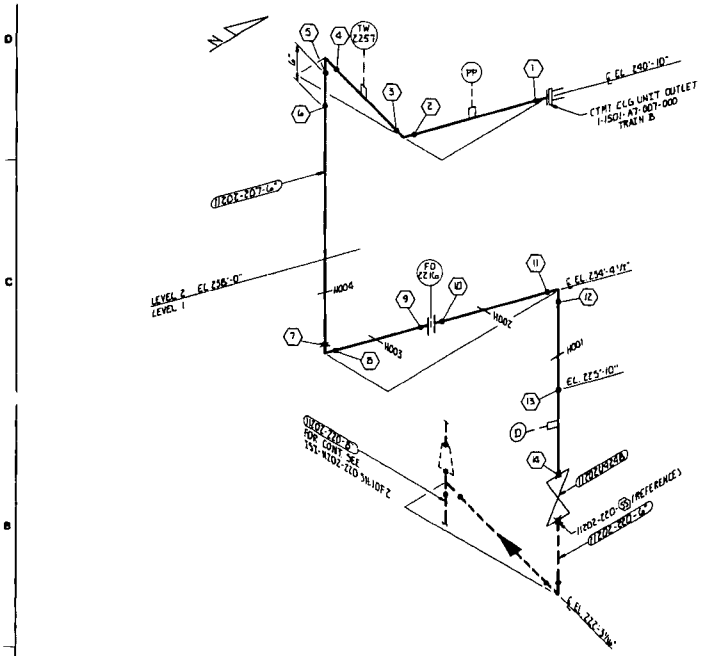
LEGEND:

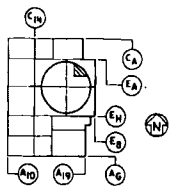
1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ♦ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. —⊥— PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:

PID TD — — —

LINE NUMBER	CLASS		PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MATL. TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
	ISI	PROJ										
11202-207	2	212	LL8	6"	40S	.280	SA312 TP316L	100	280	145	105	N/A





KEY PLAN
LEVEL 1 & 2

LEGEND:

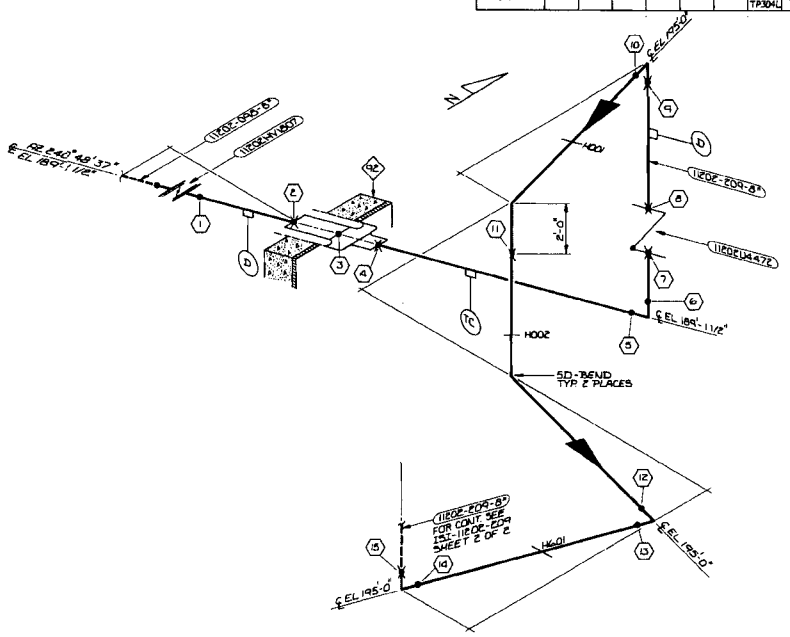
1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. — PIPE SUPPORT

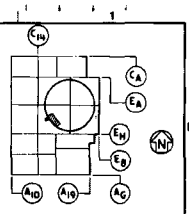
REFERENCE DRAWINGS:

PID ____ ____ ____

602-20211-ISI

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11202-209	7	212	LL6	8"	40S	.322"	SA-312 TP304L	200	280	145	95	N/A





LEGEND:

1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P. & I.D. — 1X4DB135-2
FAB. ISO. — 1K7-1202-098-01/13, 1K4-1202-209-01/13
PIPING LAYOUT DWG. — 1X4DL3D03, 1X4DL4D03, D06
CIVIL/STRUCTURAL — AX2D09A006, 1X2D48A007
HANGER DETAIL DWG. — V1-1202-209-H001, H002, H601
F-SHEETS — F-1597

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 5-19-87	REVISION 1	DATE	REVISION 0	DATE 8-19-85
						GENERAL REVISION TO UPDATE DRAWING FOR ISI		CHANGED CAL BLK. HD.		ISSUED FOR INSPECTION	

BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5
																					RLB	GLB	GJC					CAG	WJ						BST	WJ	MB				

Southern Company Services, Inc.
FOR
Georgia Power Company

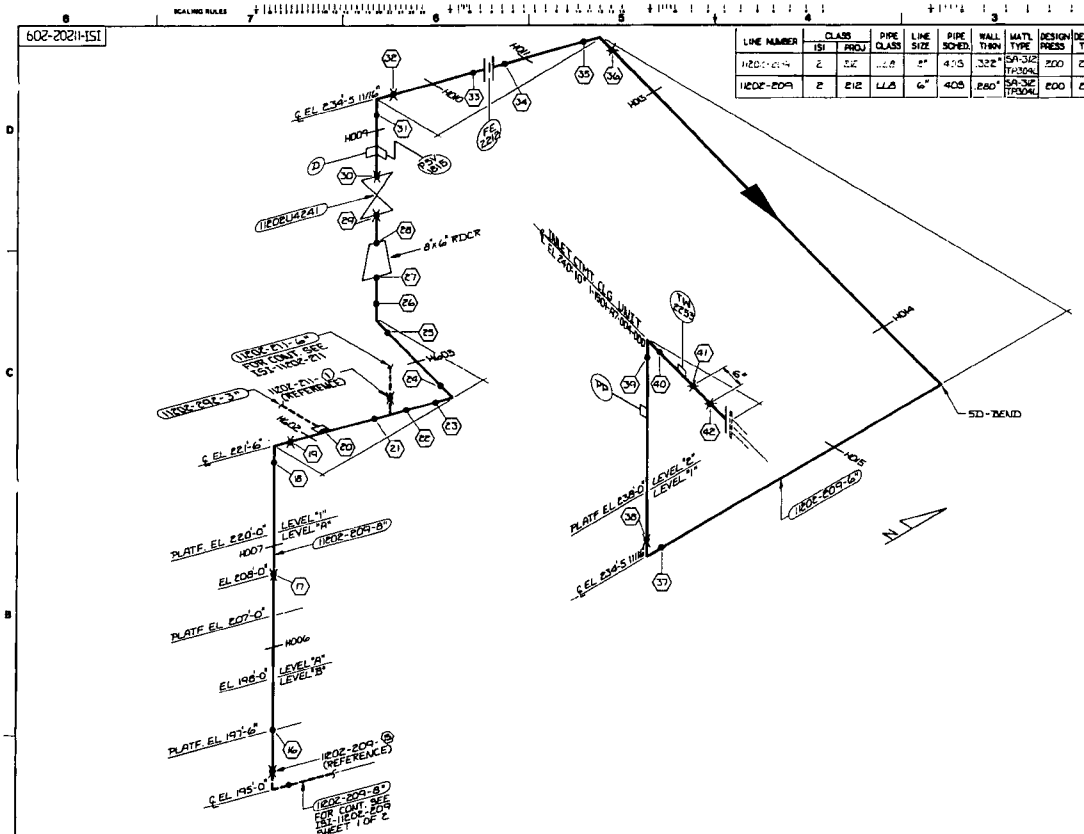
VOGTLE ELECTRIC GENERATING PLANT
UNIT I - LINE NO. 209
INSERVICE INSPECTION ISOMETRIC
NSCW-SYSTEM 1202

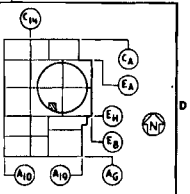
DESIGNED CWD | DRAWN BST | CHECKED WS

SCALE NONE | SHEET 1 OF 2 | PROJECT NO. | DRAWING NUMBER ISI-11202-209 | REV 2

602-20211-ISI

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1E02-209	2	212	LLB	6"	40S	.280"	SA-312 TP304L	200	280	145	95	N/A





KEY PLAN
LEVELS "B" & 2"

LEGEND:

1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & I.D. ——— 1X4DB035-E
FAB ISO. ——— 1X4-1E02-209-0216
PIPING LAYOUT DWG ——— 1X4DL4D02, D03, D04, D18
CIVIL/STRUCTURAL ——— 1X2D48A007, A011, A015, F006, F117
HANGER DETAIL DWG ——— V1-1E02-209-H006, H007, H009, H010, H011, H012, H014, H015, H020, H025
F-SHEETS ——— F-13664, 13661, 13662, 13663, 13664, 13665, 13666, 13667

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	
2	5-19-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI
1	11-3-85	CHANGED CAL. BLK. NO.
0	8-19-85	ISSUED FOR INSPECTION

Southern Company Services, Inc.
FOR
Georgia Power Company

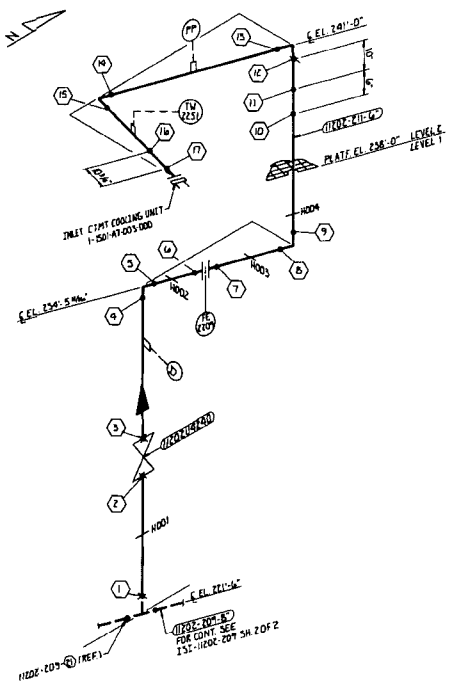
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 209
INSERVICE INSPECTION ISOMETRIC
NSCW-SYSTEM 1202

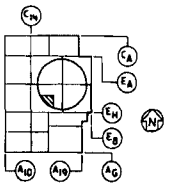
DESIGNED CWD DRAWN BST CHECKED WS

BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5
RLB	GLB	RBC				
CWD	WS	CWD				
BST	WS	MB				

SCALE NONE SHEET 2 OF 2 DRAWING NUMBER ISI-1202-209 REV. 2

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL. TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11202-211	2	212	LLB	6"	40S	280	SA-312 TP304L	200	280	145	95	N/A





KEY PLAN
LEVEL 182

LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:

PEID ____ AX4D0135-2
FAB ISO ____ AX4-11202-211-01/16
PIPING LAYOUT DWG. ____ AX4DL4D01, D16
CIVIL/STRUCTURAL ____ 11212D48F115
HANGER DETAIL DWG. ____ VI-1202-211-H001 THRU H004
F-SHEETS ____ F-13741 THRU F-13745

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 5-19-87	REVISION 1	DATE 10-3-85	REVISION 0	DATE 8-19-85
						GENERAL REVISION TO UPDATE DRAWING FOR ISI		CHANGED CAL. BLK. NO.		ISSUED FOR INSPECTION	
BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	RLB	GLB	99C		LCAF	WJS	CWD
										DKS	WJS	MB

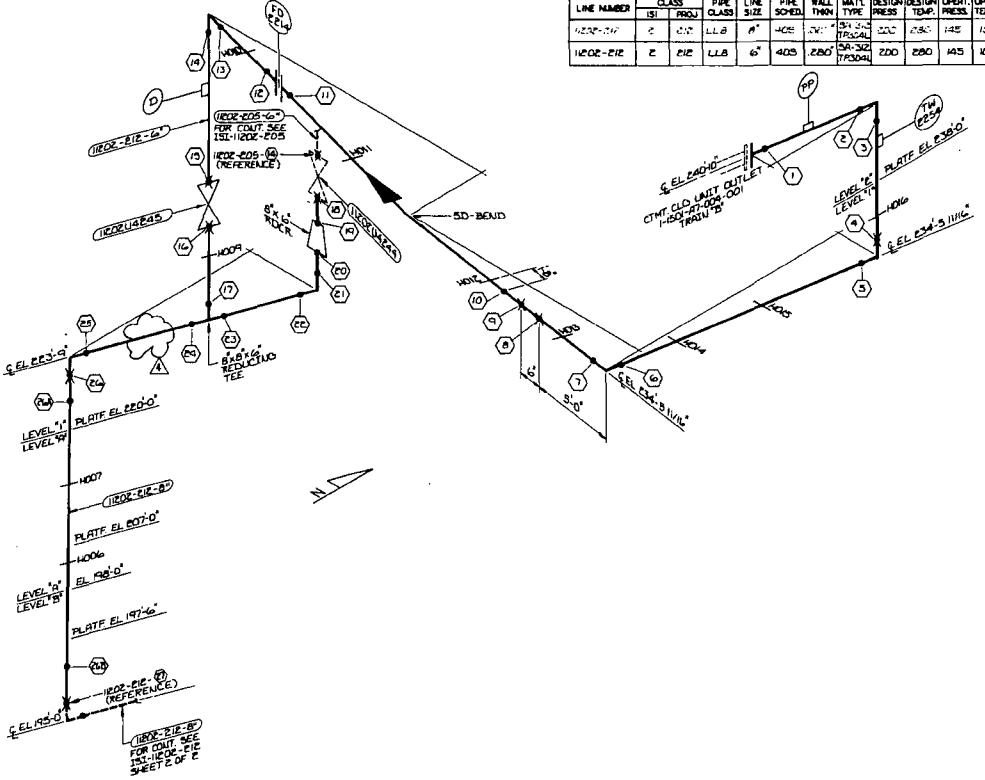
Southern Company Services, Inc.
FOR
Georgia Power Company

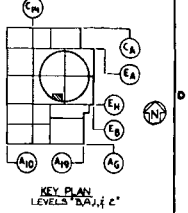
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO 211
INSERVICE INSPECTION ISOMETRIC
NSCW - SYSTEM 1202

DESIGNED CWD | DRAWN BKG | CHECKED WJS
SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-11202-211 | REV. 2

212-2021-ISI

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1202-212	2	212	LL8	8"	40S	.322"	SA-312 TP304L	200	280	145	105	N/A
1202-212	2	212	LL8	6"	40S	.280"	SA-312 TP304L	200	280	145	105	N/A





KEY PLAN
LEVELS "B,A,J,E"

LEGEND:
1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ⬢ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:
PE I.D. ——— IX4DB035-E
FAB. ISO ——— IX4-1202-212-02/14
PIPING LAYOUT DWG. ——— IX4DL4D02, D03, D04, D18
CIVIL/STRUCTURAL ——— IX2D48R015, F113, F115, F117
HANGER DET. DWG ——— VI-1202-212-H006 TI-RU-1426
F-SHEETS ——— F-13747, 13748, 13749, 13750, 13751, 13635

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	DESCRIPTION
4	11-14-92	REMOVED HANGER H001 PER PCR 92-005
3	5-17-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI
2	6-16-86	ADDED WELDS 26A & 26B
1	10-3-85	CHANGED CAL BLK NO.
0	8-19-85	ISSUED FOR INSPECTION

Southern Company Services, Inc.

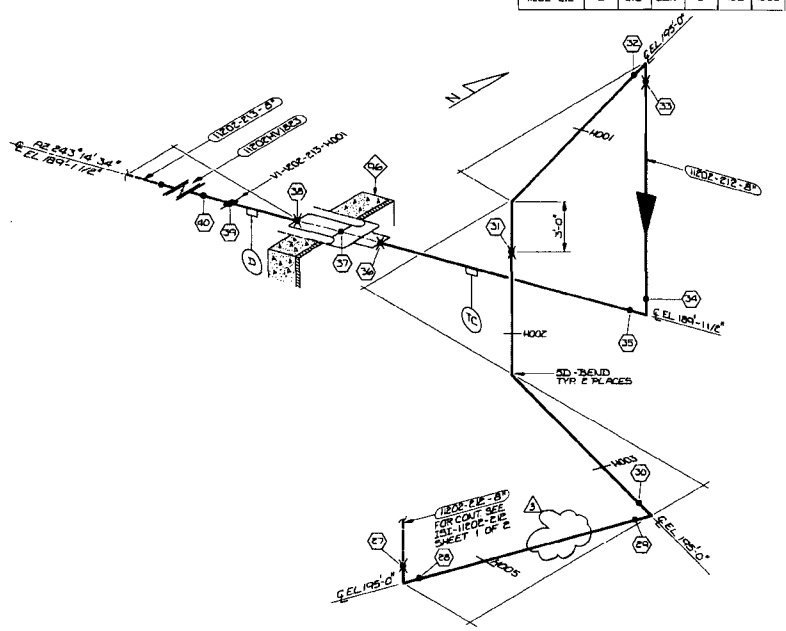
Georgia Power Company

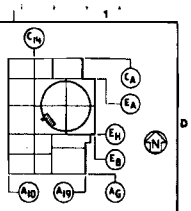
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO 212
INSERVICE INSPECTION ISOMETRIC
NSCW - SYSTEM 1202

DESIGNED CWD DRAWN BST CHECKED WS
SCALE NONE SHEET 2 OF 2
ISI-1202-212 4

ISI-1202-212

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1202-212	2	212	LLA	8"	40S	.322"	SA-312 TP304L	600	280	145	105	N/A





KEY PLAN
LEVEL "B"

LEGEND:

1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID ——— IX4DB135-2
ISO. ISO ——— IK7-1202-213-01114, IK4-1202-212-0118
PIPING LAYOUT DWG. ——— IX4DL3D03, IX4DL4D06, D05
CIVIL / STRUCTURAL ——— IX2D48A007, AX2D09A006
HANGER DET. DWG ——— VI-1202-213-H001, VI-1202-212-H001 THRU H005
F-SHEETS ——— F-2981, 10070,

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION 3	DATE 11-19-92	REVISION 2	DATE 5-19-87	REVISION 1	DATE 10-3-85	REVISION 0	DATE 2-19-85
				REMOVED HANGER H004 PER PCR 92-005		GENERAL REVISION TO UPDATE DRAWING FOR ISI		CHANGED CAL. BLK. NO		ISSUED FOR INSPECTION	
BY	CHK'D APPR 1 APPR 2 APPR 3 APPR 4 APPR 5 APPR 6	BY	CHK'D APPR 1 APPR 2 APPR 3 APPR 4 APPR 5 APPR 6	BY CWD CHK'D CWB APPR 1 APPR 2 APPR 3 APPR 4 APPR 5 APPR 6		BY RLB CHK'D GLB APPR 1 TSC APPR 2 APPR 3 APPR 4 APPR 5 APPR 6		BY CLG CHK'D WJS APPR 1 CWB APPR 2 APPR 3 APPR 4 APPR 5 APPR 6		BY BST CHK'D WJS APPR 1 MB APPR 2 APPR 3 APPR 4 APPR 5 APPR 6	

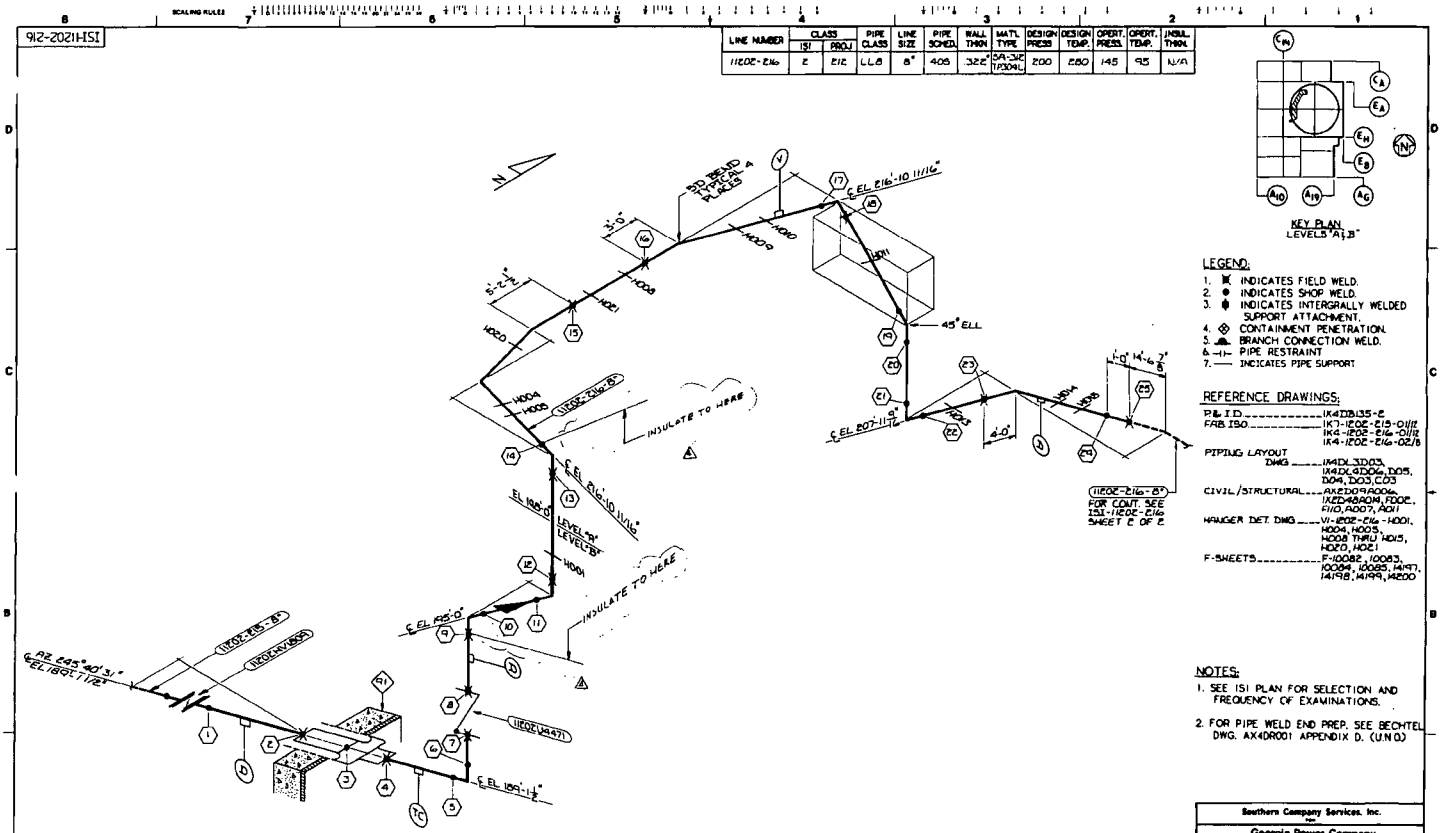
Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 212
INSERVICE INSPECTION ISOMETRIC
NSCW-SYSTEM 1202

DESIGNED CWD DRAWN BST CHECKED WS
SCALE NONE SHEET 2 OF 2 PROJECT I.D. DRAWING NUMBER ISI-1202-212 REV 3

ISI-1202-216

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1120Z-216	2	212	LL8	8"	40S	.322"	SA-312 TP304L	200	280	145	95	N/A



LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ⬢ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ⊥ BRANCH CONNECTION WELD.
6. ⊣⊢ PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID IK4DB135-2
FAB ISO IK1-1202-215-01/12
IK4-1202-216-01/12
IK4-1202-216-02/8
PIPING LAYOUT DWG IK4DL3D03, IK4DL3D06, D05, D04, D03, C03
CIVIL/STRUCTURAL AX2D09A004, IX2D48A04, F002, F110, A007, A011
HANGER DET. DWG ..... VI-1202-216-H001, H004, H005, H008 THRU H015, H020, H021
F-SHEETS F-10082, 10083, 10094, 10095, 14197, 14198, 14199, 14200

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	DESCRIPTION
4	11-20-96	ADDED INSULATION
3	11-19-92	REMOVED HANGER H012 PER RCR 92-005
2	5-19-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI
1	10-3-85	CHANGED CAL. BLK. NO.
0	2-19-85	ISSUED FOR INSPECTION

Southern Company Services, Inc.
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 216
INSERVICE INSPECTION ISOMETRIC
NSCW-SYSTEM 1202

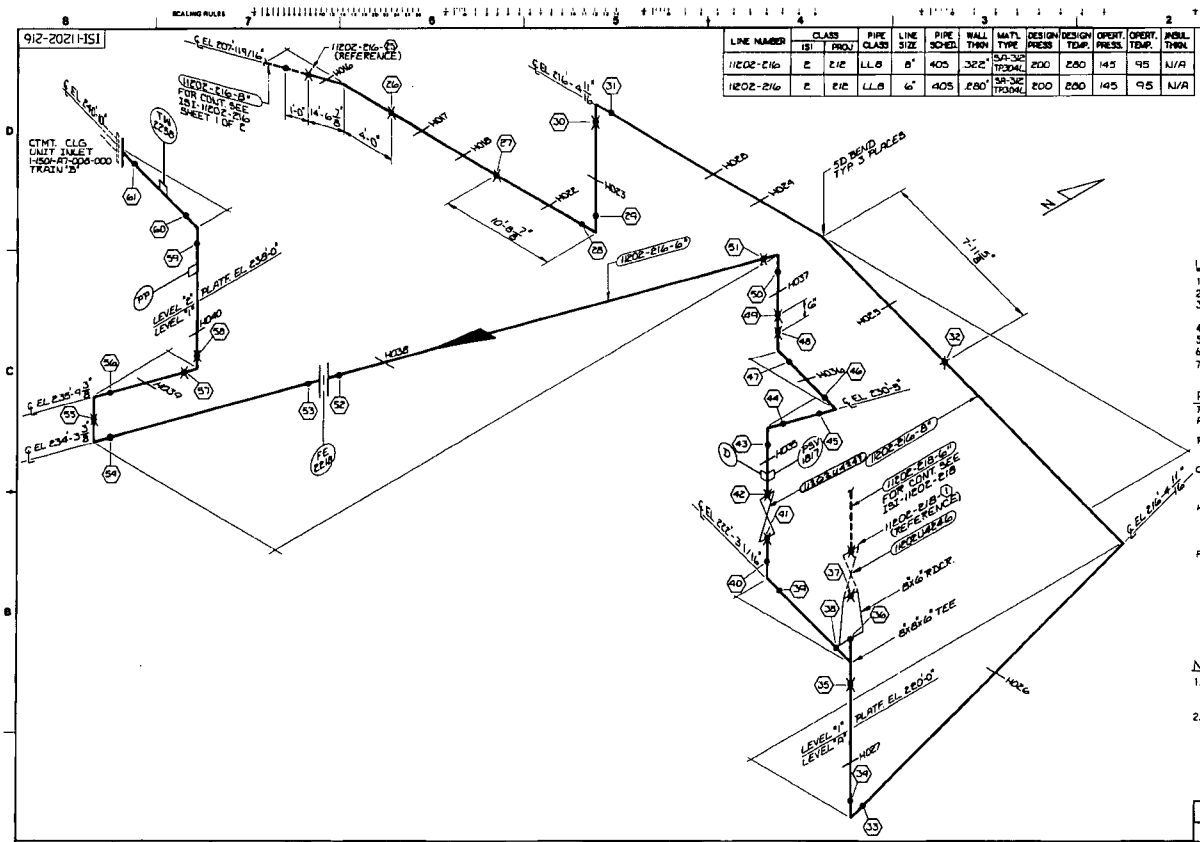
DRAWN CWD CHECKED BST DESIGNED WS

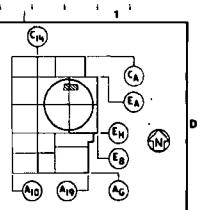
BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE
TG	WS	BTD	CWD	RB	GLB	CWD	WS	BST	WS	MB

SCALE NONE | SHEET 1 OF 2 | ISI-1120Z-216 | REV 4

912-20211-151

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11202-216	E	E12	LL8	8"	405	.322"	SA-312 TP304L	200	280	145	95	N/A
11202-216	E	E12	LL8	6"	405	.280"	SA-312 TP304L	200	280	145	95	N/A





KEY PLAN
LEVELS "A", "E"

LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID 1X4DB135-E
FAB. ISO 1K4-1202-216a-001B (216-001I, 216-001H)
PIPING LAYOUT DWG 1X4DL438E, B03, B13
CIVIL/STRUCTURAL 1X2D48A014, F002, F110, F007, A009, F112, E009, F113, A013, A023, A024
HANGER DET. DWG ..... V1-1202-216-H016, H017, H018, H022 THRU H028, H035 THRU H040,
F-SHEETS F-1420, 1X2DE, 1476a6, 1476a7, 1476a8, 1482F, 1482J, 1482K, 1482L, 1482M

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 5-19-97	REVISION	DATE 12-3-87	REVISION 0	DATE 8-19-85
						GENERAL REVISION TO UPDATE DRAWING FOR ISI		CHANGED CAL. BLK. NO.		ISSUED FOR INSPECTION	
BY	CHK'D	APP'D 1	APP'D 2	APP'D 3	APP'D 4	BY	CHK'D	APP'D 1	APP'D 2	APP'D 3	APP'D 4	APP'D 5	APP'D 6
						MLB	GLB	DGI		CAA	WJS			DST	WJS	MB			

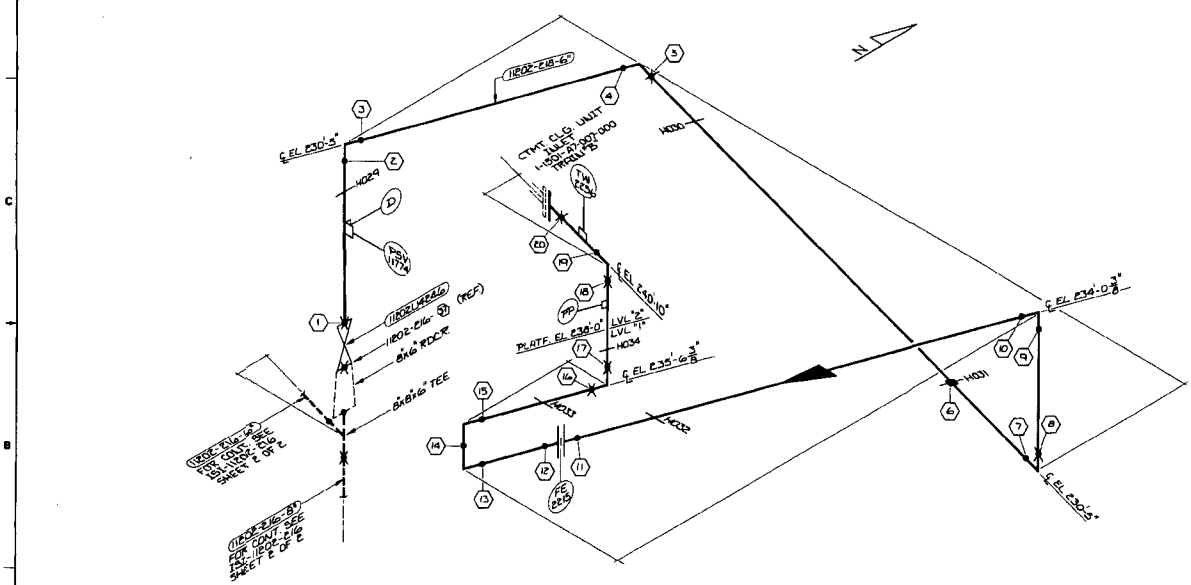
Southern Company Services, Inc.
FOR
Georgia Power Company

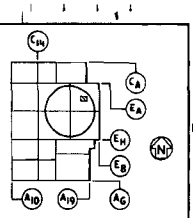
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 216
INSERVICE INSPECTION ISOMETRIC
NSCW-SYSTEM 1202

DRAWN CWD | CHECKED BST | ENGINEERED WS
SCALE NONE | SHEET 2 OF 2 | DRAWING NUMBER ISI-1202-216 | REV.

812-20211-ISI

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1202-218	2	212	LL8	6"	40S	.250"	SA-312 TP304L	200	280	145	95	N/A





KEY PLAN
LEVELS 1" & 2"

LEGEND:

1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID	IX4DB135-2
FAB TSO	K4-1202-E16-04
PIPING LAYOUT DWG	IX4DL4802, B13
CIVIL/STRUCTURAL	IX2D48013, A023, A029, E005, F112, F114
HANGER DET. DWG	V1-1202-E18-H029 THRU H034
F-SHEETS	F-14827, 14828, 14829, 14830, 14831

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	DESCRIPTION
2	5-19-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI
1	12-3-85	CHANGED CAL BLK NO.
0	8-17-85	ISSUED FOR INSPECTION

Southern Company Services, Inc.
FOR
Georgia Power Company

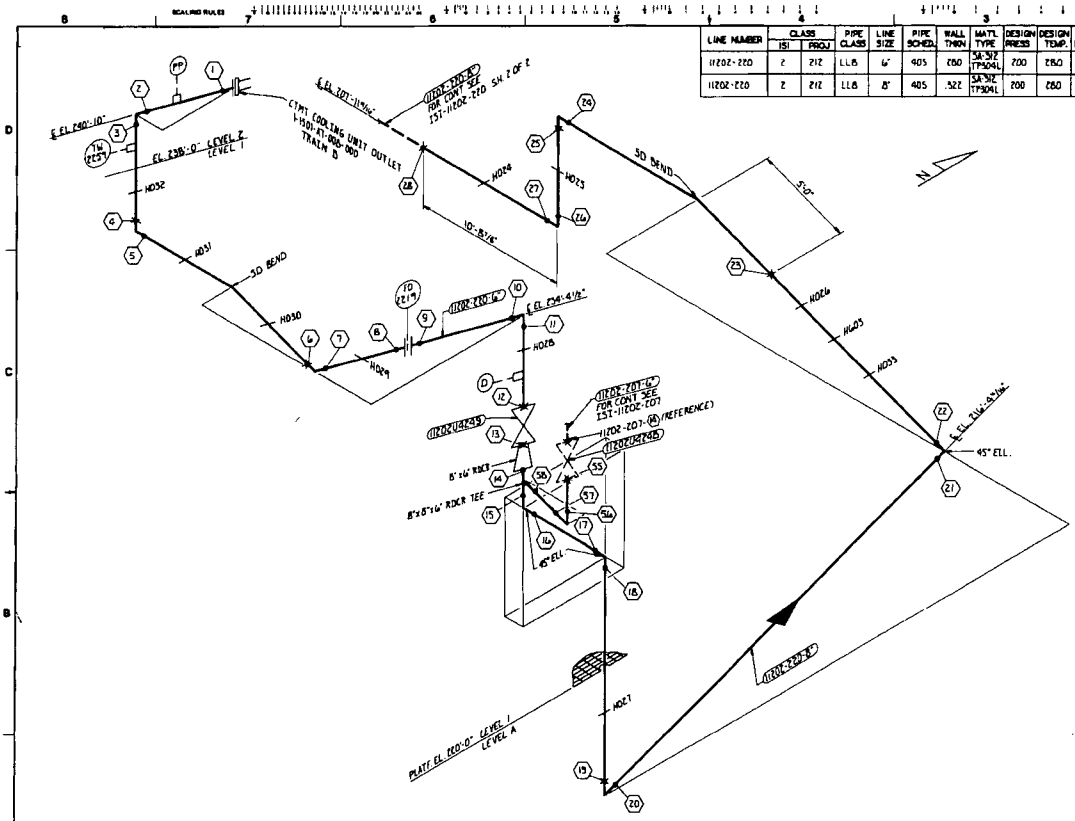
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 218
INSERVICE INSPECTION ISOMETRIC
NSCW-SYSTEM 1202

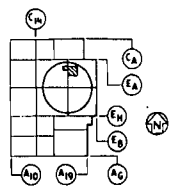
DESIGNED CWD | DRAWN BST | ENGINEER WS

DY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5
RLB	GLB	99C				
CAG	WS	C-10				
BST	WS	MB				

SCALE: NONE | PROJECT I.D. | DRAWING NUMBER: ISI-1202-218 | REV. 2

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11202-220	2	212	LL6	6"	40S	.280	SA-312 TP304L	200	280	145	105	N/A
11202-220	2	212	LL6	8"	40S	.322	SA-312 TP304L	200	280	145	105	N/A





LEGEND:

1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. PIPE SUPPORT

REFERENCE DRAWINGS:

PID — X4DB135-2
FAB. ISO — X4G-1202-220-03/5, 04/6
PIPING LAYOUT DWG — X4D14102, 103, 113, 105
CIVIL/STRUCTURAL — 1X2048A004
HANGER DETAIL DWG — 10-1202-220-H024 THRU H033, H603
F-SHEETS — F-14853 THRU F-14856, F-14769 THRU F-14771

NOTES:

1. SEE 1S1 PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 5-19-87	REVISION 1	DATE 10-3-85	REVISION 0	DATE 8-19-85
						GENERAL REVISION TO UPDATE DRAWINGS FOR 1S1.		CHANGED CAL. BLK. NO.		ISSUED FOR INSPECTION	

Southern Company Services, Inc.
FOR
Georgia Power Company

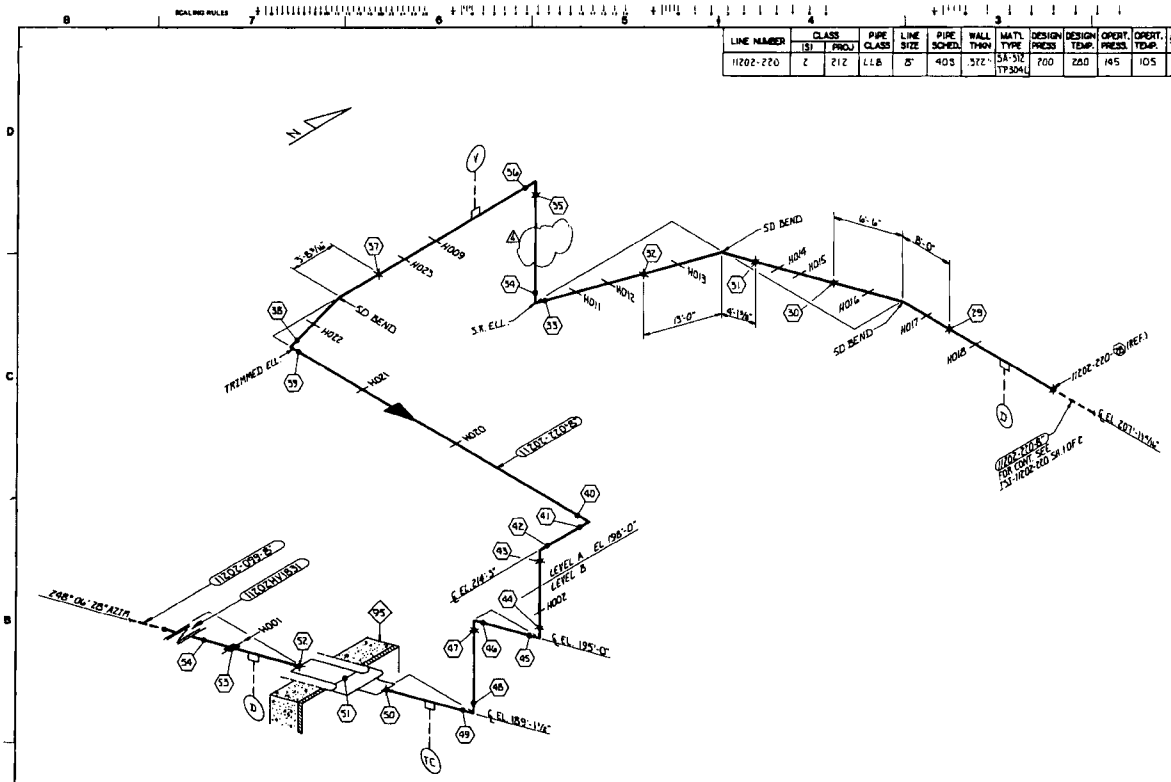
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO 220
INSERVICE INSPECTION ISOMETRIC
NSCW - SYSTEM 1202

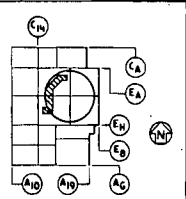
DESIGNED CWD DRAWN BKG CHECKED WS

BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5
																					MKA	GLG	RJC																			

SCALE	FREQUENCY	DRAWING NUMBER	REV
NONE	SH 1 OF 2	1S1-11202-220	

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11202-220	2	212	LLB	8"	40S	.322"	SA-312 TP304L	200	280	185	105	N/A





LEGEND:

1. ✱ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ● INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. ⊣⊢ PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID	1X4DB135-Z
FAB ISO	1X7-1202-B99-01/10 1X6-1202-220-01/01,02/11
PIPING LAYOUT DWG	1X4DL5D05, 1X4DL4C05, D03, D04, D05, D06
CIVIL /STRUCTURAL	1X2DX8A01
HANGER DETAIL DWG	W-1202-220-H001, H002, H009 THRU H016, H020 THRU H023.
F-SHEETS	F-10071 F-10074 THRU F-10079 F-14203 THRU F-14208

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	DESCRIPTION
4	1-4-91	REMOVED HANGER H010 PER PCR 92-005
3	5-27-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI.
2	6-10-86	CHANGED FAB. ISO. NUMBER
1	8-19-85	CHANGED CAL. BLK. NO.
0	8-19-85	ISSUED FOR INSPECTION

Southern Company Services, Inc.

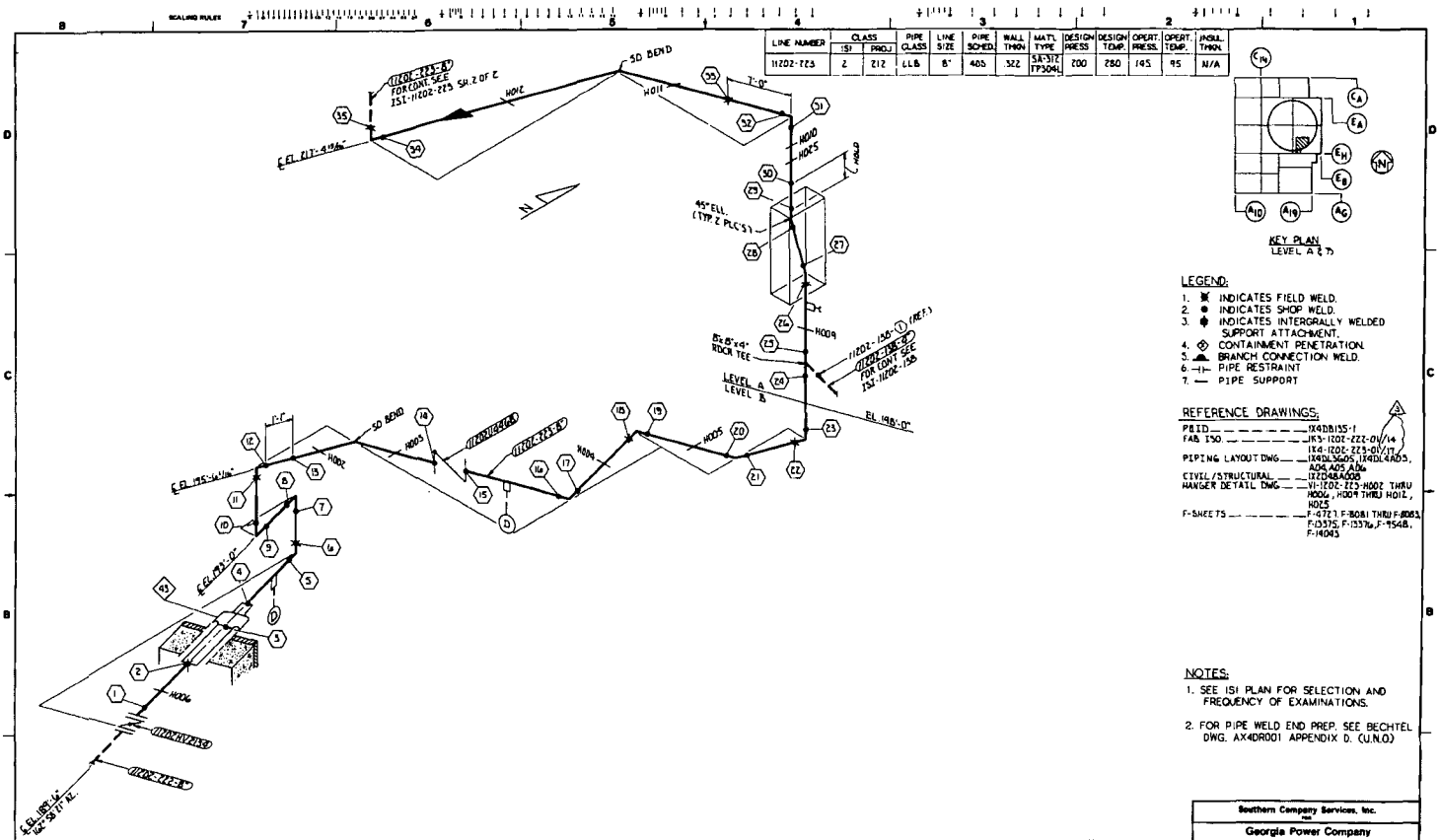
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 220
INSERVICE INSPECTION ISOMETRIC
NSCW - SYSTEM 1202

DRAWN CWD | CHKD BKG | APPD WS

SCALE: NONE | SHEET 1 OF 2 | DRAWING NUMBER: ISI-11202-220 | REV. 4

LINE NUMBER	CLASS 151	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11Z02-223	2	212	LLB	8"	40S	.322	SA-312 TP304L	200	280	145	95	N/A



LEGEND:

1. ✱ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ⬢ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —⊢ PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID	1X4DB155-1
FAB ISO	1K5-1Z02-223-01/14, 1X4-1Z02-223-01/17
PIPING LAYOUT DWG	1X4DL360S, 1X4DL4A05, A04, A05, A06
CIVIL/STRUCTURAL	1Z12A6A008
HANGER DETAIL DWG	V1-1Z02-223-H002 THRU H006, H009 THRU H012, H025
F-SHEETS	F-4723, F-8081 THRU F-8083, F-1337S, F-1337W, F-9548, F-14045

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION 3	DATE 5-17-87	REVISION 2	DATE 6-10-86	REVISION	DATE 10-3-85	REVISION 0	DATE 8-19-85
				GENERAL REVISION TO UPDATE DRAWING FOR ISI		ADDED LEVELS TO KEY PLAN		CHANGED CAL. BLK NO.		ISSUED FOR INSPECTION	
BY	CHK'D	APPR. 1	APPR. 2	RKB	GLB	BKG	BST	OAK	WJ	BKG	WJ

Southern Company Services, Inc.

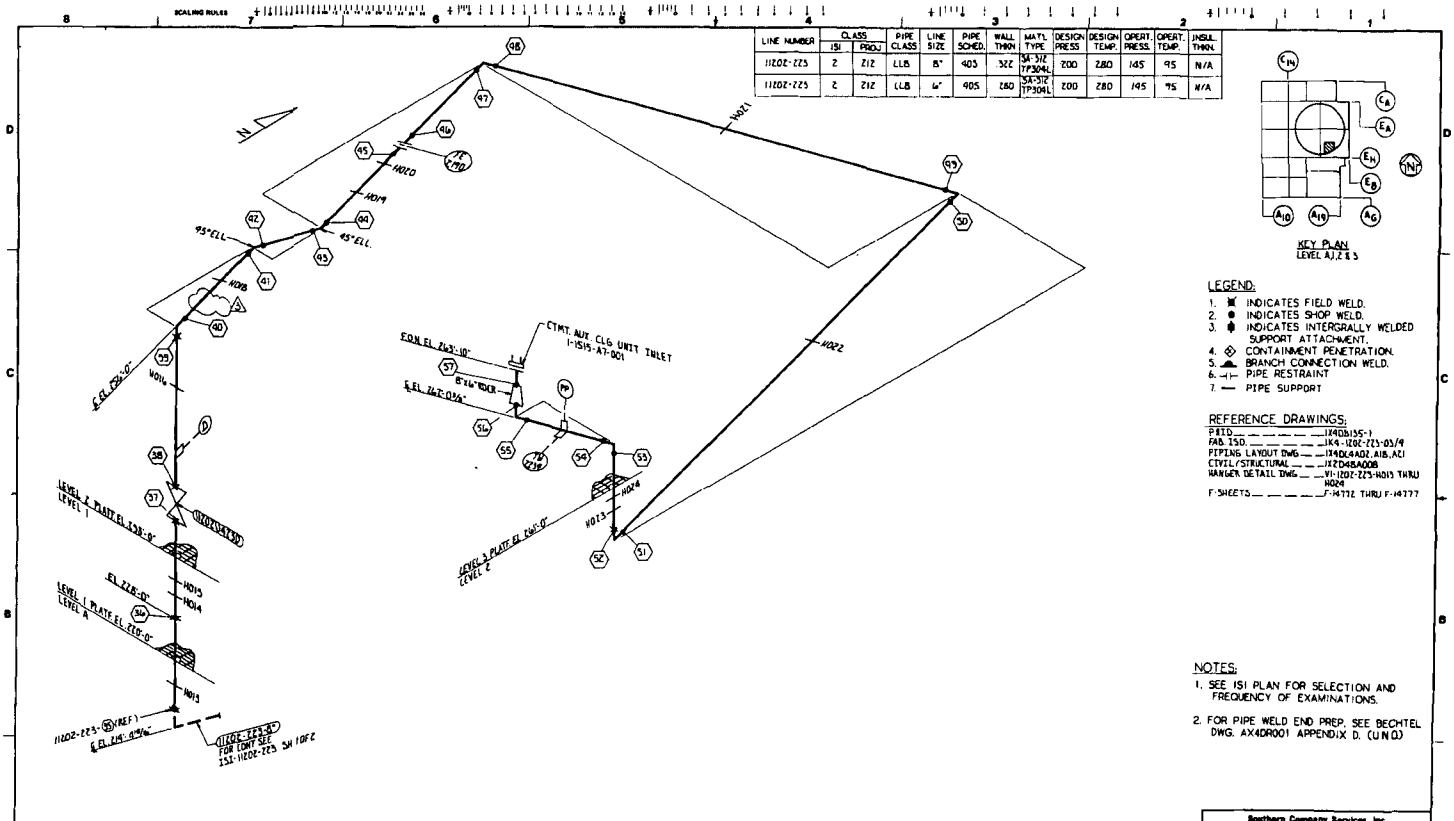
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO 223
INSERVICE INSPECTION ISOMETRIC
NSCW - SYSTEM 1202

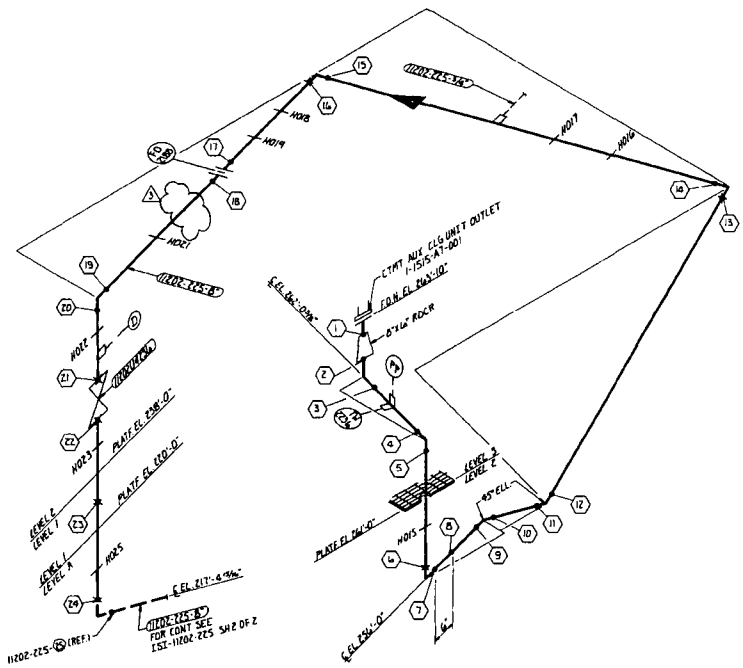
DESIGNED CWD | DRAWN BKG | APPROVED WS

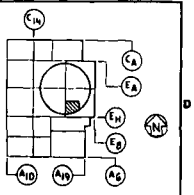
SCALE NONE | SH. 1 OF 2 | DRAWING NUMBER ISI-1Z02-223

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1120Z-225	2	212	LLB	8"	40S	.322	SA-312 TP304L	200	280	145	95	N/A
1120Z-225	2	212	LLB	6"	40S	.280	SA-312 TP304L	200	280	145	95	N/A



LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11202-225	2	212	LLB	8"	40S	.322"	SA-312 TP304L	200	280	145	105	N/A
11202-225	2	212	LLB	6"	40S	.280"	SA-312 TP304L	200	280	145	105	N/A





LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. PIPE SUPPORT

REFERENCE DRAWINGS:

PID ____ ____ ____ ____ ____ X4D6155-1
FAB. ISO ____ ____ ____ ____ ____ X4-11202-225-03/10
PIPING LAYOUT DWG ____ X4D2L4 A02, A03 A18, A21
CIVIL/STRUCTURAL ____ X2D48F115
HANGER DETAIL DWG ____ W1-11202-225-H015 THRU H025, H025
F-SHEETS ____ ____ ____ ____ F-14776 THRU F-14784

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (UNO)

REVISION	DATE	REMARKS
3	11-17-92	REMOVED HANGER HO20 PER PCR 92-005
2	5-19-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI
1	12-3-85	CHANGED CAL. BLK. NO.
0	8-13-85	ISSUED FOR INSPECTION

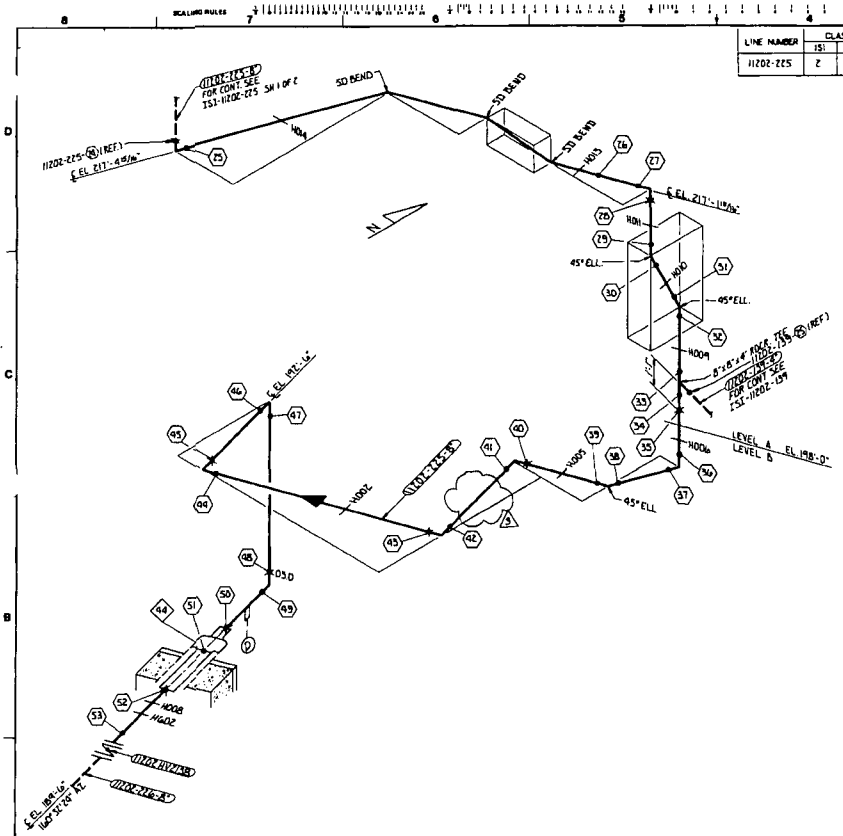
Southern Company Services, Inc.
Georgia Power Company

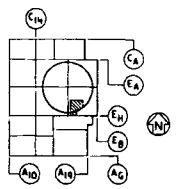
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 225
INSERVICE INSPECTION ISOMETRIC
NSCW - SYSTEM 1202

DRAWN CWD | CHECKED BKG | APPROVED WS

SCALE: NONE | SH. 1 OF 2 | DRAWING NUMBER: ISI-11202-225 | REV. 3

LINE NUMBER	CLASS 1S1	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11202-225	2	212	LLB	8"	40S	.322"	SA-312 TP304L	200	280	145	105	N/A





KEY PLAN
LEVEL A & B

LEGEND:

1. ▣ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ♦ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID — — — — — — JX4DB135-1
FAB ISO — — — — — JX3-1202-226-01/9
1X4-1202-225-01/13
PIPING LAYOUT DWG — JX4DL3G05, JX4DL4A03, A04, A05, A06
CIVIL/STRUCTURAL — JX2D48A008
HANGER DETAIL DWG — VI-1202-225-H002 THRU H006, H008 THRU H011, H013, H014, H602
F-SHEETS — — — — — F-4728, F-4739 THRU F-4743, F-4549, F-14044, F-14045

NOTES:

1. SEE 1S1 PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

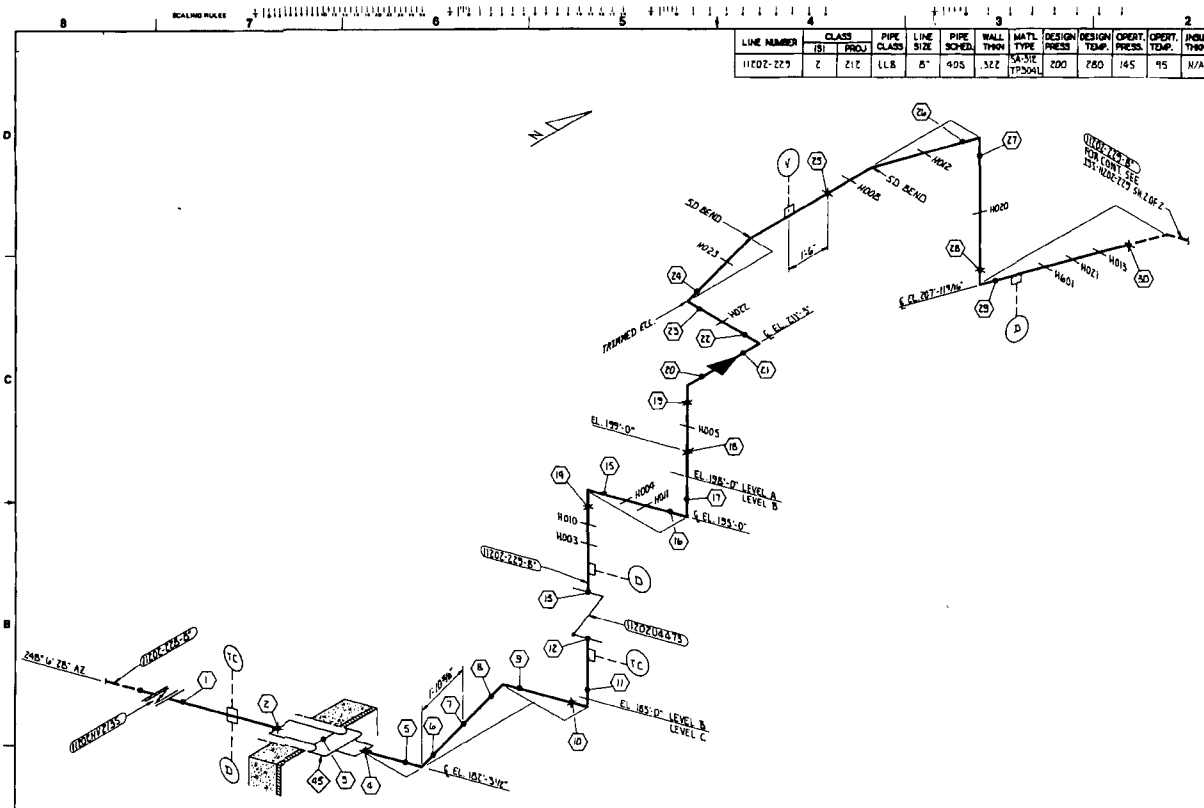
REVISION	DATE	REVISION	DATE	REVISION 3	DATE 11-19-92	REVISION 2	DATE 5-19-87	REVISION 1	DATE 10-1-85	REVISION 0	DATE 8-19-85
				REMOVED HANGERS H005 AND H004 PER PCR 92-005		GENERAL REVISION TO UPDATE DRAWING FOR 1S1		CHANGED CAL. BLK. NO		ISSUED FOR INSPECTION	
				DY DWN AKG / CHK'D CWP / APPR 1 MN		DY RLB / DWN GLB / CHK'D BGC		DY RLB / CHK'D WS / APPR 1 CA		DY BKG / CHK'D WS / APPR 1 MS	

Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 225
INSERVICE INSPECTION ISOMETRIC
NSCW-SYSTEM 1202

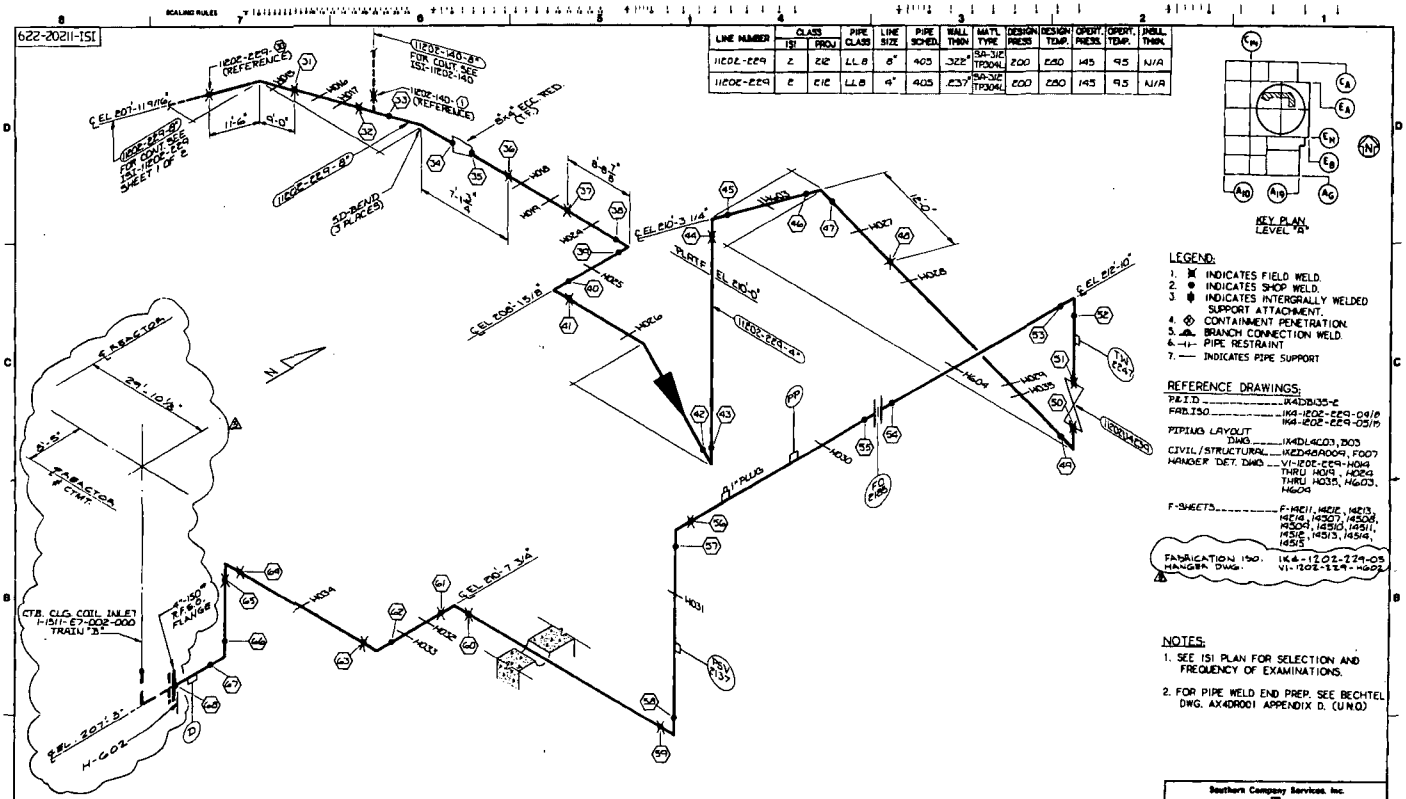
DESIGNED CWD | DRAWN BKG | SUPERVISOR WS
SCALE NONE | SH. 2 OF 2 | PROJECT I.D. | DRAWING NUMBER 1S1-11202-225 | REV. 3

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11202-229	2	212	LL8	8"	40S	.322	SA-312 TP304L	200	280	145	95	N/A


SCALING RULES
N
SD BEND
H023
H022
H006
H020
H021
H001
H013
H005
H009
H011
H010
H003
TRUNNED ELL
EL. 207'-11 1/16"
EL. 199'-0"
EL. 198'-0" LEVEL A
LEVEL B
EL. 195'-0"
EL. 183'-0" LEVEL B
LEVEL C
EL. 102'-3 1/2"
1'-6"
1'-10 1/2"
248° 6' 28" AZ
11202-229-8"
11202U4&T5
11202-229-8"
11202-229-8"
11202-229-8"

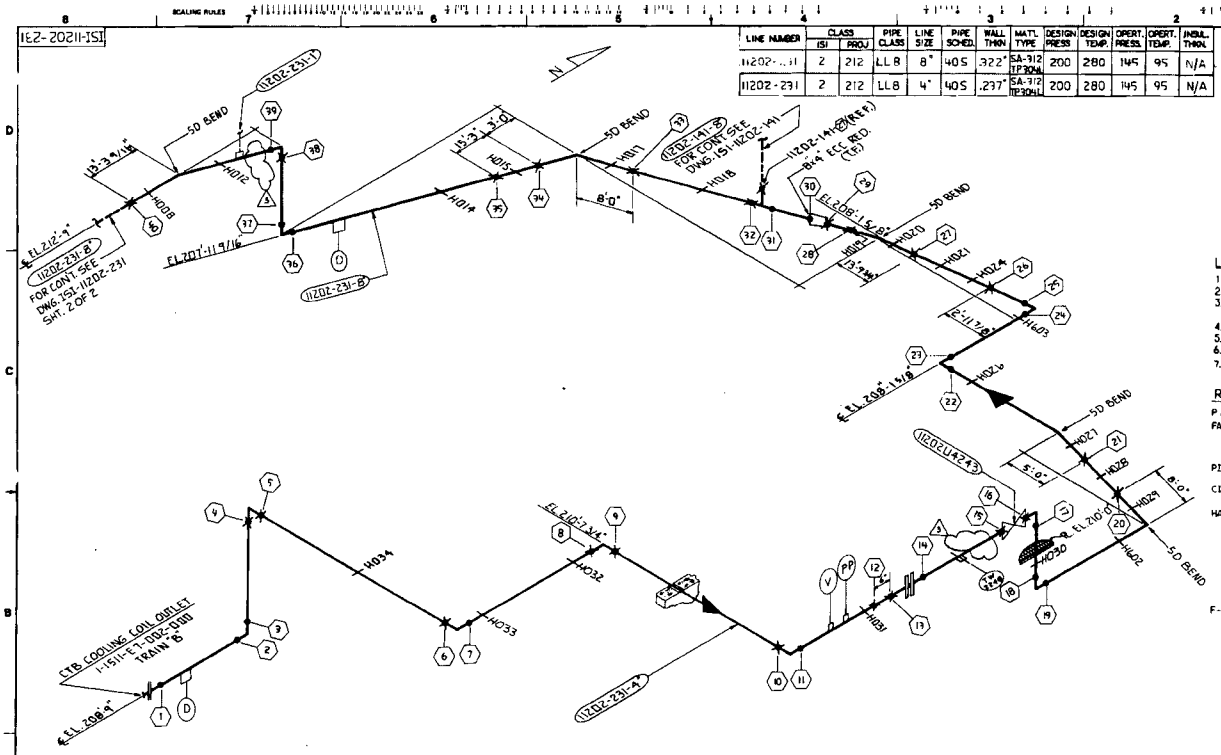
6-22-20211-ISI

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1120E-229	2	2I2	LL8	8"	40S	.322"	SA-312 TP304L	200	280	145	95	N/A
1120E-229	2	2I2	LL8	4"	40S	.237"	SA-312 TP304L	200	280	145	95	N/A


KEY PLAN
LEVEL "A"
LEGEND:
1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. INDICATES PIPE SUPPORT
REFERENCE DRAWINGS:
P&I.D. 1X4DB135-E
FAB.ISO 1X4-1202-229-04/R
1X4-1202-229-03/R
PIPING LAYOUT DWG. 1X4DL4003,1303
CIVIL/STRUCTURAL 1X2D46A009, F007
HANGER DET. DWG. V1-1202-229-H004 THRU H019, H024 THRU H035, H603, H604
F-SHEETS F-1421, 1422, 1423, 1424, 1425, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515
FABRICATION ISO. 1X4-1202-229-05
HANGER DWG. V1-1202-229-H002
NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (UNO)
REACTOR
REACTOR 1/2 CONT.
CTB. CLG. COIL INLET 1-1511-E7-002-000 TRAIN "B"
H-602
H-603
H-604
H-605
H-606
H-607
H-608
H-609
H-610
H-611
H-612
H-613
H-614
H-615
H-616
H-617
H-618
H-619
H-620
H-621
H-622
H-623
H-624
H-625
H-626
H-627
H-628
H-629
H-630
H-631
H-632
H-633
H-634
H-635
1120E-229-4"
1120E-229-8"
1120E-140-8"
1120E-140-4"
1120E-229-8"
1120E-229-4"
1120E-140-1
1120E-229
1120E-229
1120E-229

1E2-20211-ISI

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11202-231	2	212	LL8	8"	40S	.322"	SA-312 TP304L	200	280	145	95	N/A
11202-231	2	212	LL8	4"	40S	.237"	SA-312 TP304L	200	280	145	95	N/A



KEY PLAN
LEVEL "A"

LEGEND:
1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & I.D. _____ 1X4DB135-2
FAB ISO _____ 1X4-1202-231-04/11, 1X4-1202-231-05/15
PIPING LAYOUT DWG. _____ 1X4DL4C03, 1X4DL4B03
CIVIL/STRUCTURAL _____ 1X2D48F002, F007, A009, F110, A014
HANGER DETAIL DWG. _____ VI-1202-231-H012, H014, H015, H017, H018, H019, H020, H021, H024, H008, H026, H027, H028, H029, H030, H031, H032, H033, H034, H602, H601, H603, H604
F-SHEETS _____ F-14215, N216, N217, N218, N219, N220, N234, N516, N517, N518, N519, N520, N521, N522

REVISION	DATE	REVISION	DATE	REVISION 3	DATE 11-14-92	REVISION 2	DATE 5-28-87	REVISION 1	DATE 11-3-86	REVISION 0	DATE 8-19-85
				REMOVED HANGERS H601 AND H604 PER MCR 92-005		GENERAL REVISION TO UPDATE DRAWING FOR ISI		CHANGED CAL BLK NO.		ISSUED FOR INSPECTION	
BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	APPR. 6				
				CAV	CVB	DAH		RLB	GLB	99C	
								CLA	WS	CJS	
								RJJ	JST	MB	

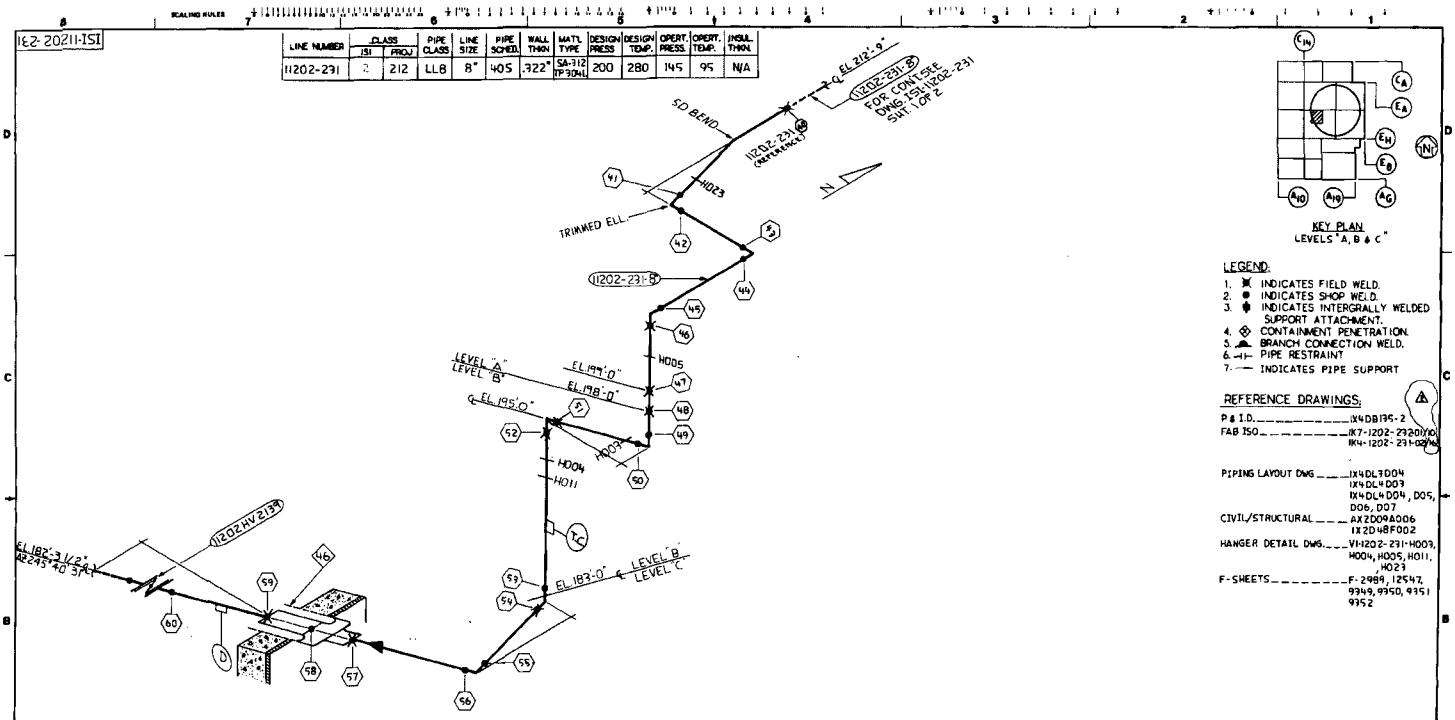
Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 231
INSERVICE INSPECTION ISOMETRIC
NSCW-SYSTEM 1202

DESIGNED CWD | DRAWN RMS | CHECKED WS
SCALE NONE | 1 OF 2 | DRAWING NUMBER 1S1-11202-231 | REV 3

162-20211-ISI

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11202-231	2	212	LL8	8"	40S	.322"	SA-312 TP304L	200	280	145	95	N/A



KEY PLAN
LEVELS "A, B & C"

LEGEND:
1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & I.D. _____ IX4DB136-2
FAB ISO _____ IK7-1202-2320IV10
IK4-1202-231-D2N6
PIPING LAYOUT DWG _____ IX4DL3D04
IX4DL4D03
IX4DL4D04, D05, D06, D07
CIVIL/STRUCTURAL _____ AX2D09A006
IX2D48F002
HANGER DETAIL DWG. _____ VH1202-231-H003, H004, H005, H011, H023
F-SHEETS _____ F-2988, 12547, 9349, 9350, 9351 9352

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 5-19-87	REVISION 1	DATE 10-3-85	REVISION 0	DATE 8-19-85
						GENERAL REVISION TO UPDATE DRAWING FOR ISI		CHANGED CAL BLK NO.		ISSUED FOR INSPECTION	
BY	RLB	BY		BY		BY	RLB	BY	CAH	BY	RMS
CHK'D	GLB	CHK'D		CHK'D		CHK'D	GLC	CHK'D	WJ	CHK'D	BST
APPR. 1	GLC	APPR. 1		APPR. 1		APPR. 1		APPR. 1	C-P	APPR. 1	MB

Southern Company Services, Inc.
Georgia Power Company

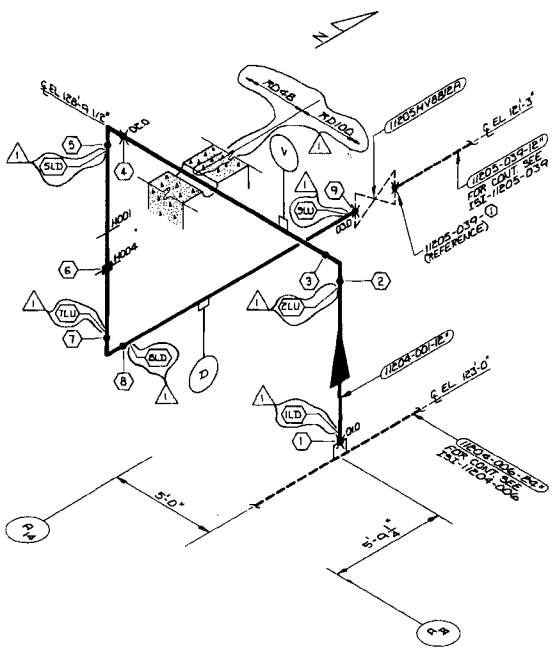
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 231
INSERVICE INSPECTION ISOMETRIC
NSCW - SYSTEM 1202

DESIGNED C.M.D. DRAWN R.M.S. CHECKED W.S.

SCALE	PROJECT I.D.	DRAWING NUMBER	REV.
NONE	2 OF 2	ISI-11202-231	2

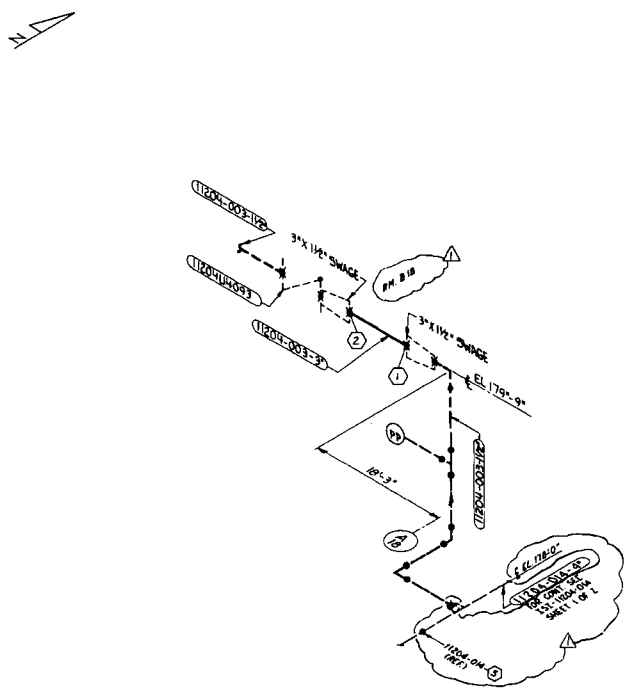
ISI-11204-001

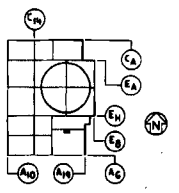
LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-001	2	212	LL1	12"	40S	.375"	SA-312 TP304	150	150	65	120	N/A


N
℄ EL. 126'-9 1/2"
DCO
5LD
4
1
5
1
9
9LU
1
RD-48
RD-100
1205HV88WR
℄ EL. 121'-3"
11205-039-12"
FOR CONT. SEE ISI-11205-039
11205-039 (REFERENCE)
1
1
1

ISI-11204-003

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-003	2	212	GG0	3"	80S	.300"	SA-312 TP 304L	1750	200	1670	206	PRIT/AL 1"





LEGEND:

1. ▣ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ⊥ BRANCH CONNECTION WELD.
6. ⊣⊢ PIPE RESTRAINT

REFERENCE DRAWINGS:

P & I.D. IX4DB121
FAB. ISO IK3-1204-003-01/13
PIPING LAYOUT
DWG. IX4DL3H04
CIVIL/STRUCTURAL ... RX2008A054

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 1	DATE 5-28-87	REVISION 0	DATE 11-13-85
								GENERAL REVISION TO UPDATE DRAWING FOR ISI		ISSUED FOR INSPECTION	
BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5		RLB	GLB	GGC	GPD	WS	CWB

Southern Company Services, Inc.
FOR
Georgia Power Company

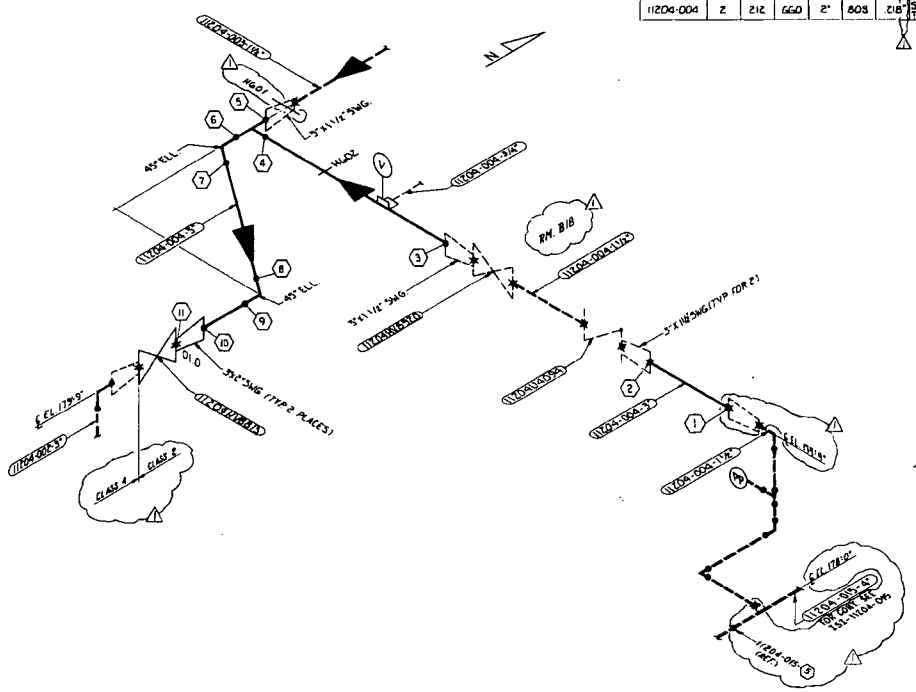
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 003
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION - SYSTEM 1204

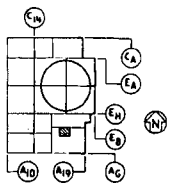
DESIGNED CWD DRAWN GPD CHECKED WS

SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-11204-003 | REV 1

H00-H0211-ISI

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-004	2	212	GGO	3"	80S	.300"	SA-312 TP304L	1750	200	1670	206	N/A
11204-004	2	212	GGO	2"	80S	.218"	SA-312 TP304L	1750	200	1670	206	N/A





KEY PLAN
LEVEL B

LEGEND:
1. ✖ INDICATES FIELD WELD
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. PIPE SUPPORT

REFERENCE DRAWINGS:
P&ID ____ IX4DB101
FAB. ISO ____ IKS-1204-002-004/6; 004-003/14
PIPING LAYOUT DWG. ____ 1X4DL3H04
CIVIL/STRUCTURAL ____ 1KZD08A054
HANGER DETAIL DWG ____ VI-1204-004-H601/H602
F-SHEET ____ F-2344

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 1	DATE 5-28-87	REVISION 0	DATE 11-13-86
								GENERAL REVISION TO UPDATE DRAWING FOR ISI		ISSUED FOR INSPECTION	
BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY RLB	DATE 6-4-8	BY BKG	DATE WSC-A

Southern Company Services, Inc.
for
Georgia Power Company

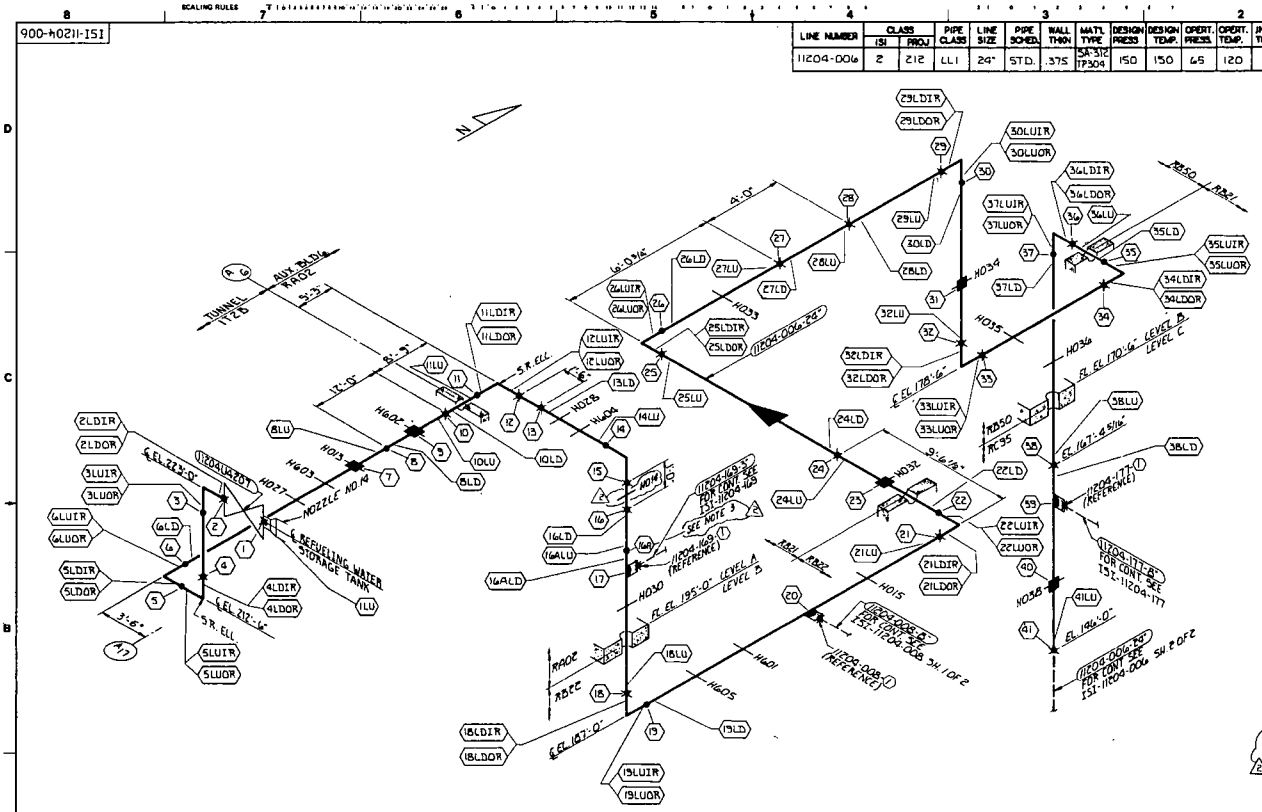
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 004
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

DESIGNED CWD DRAWN BKG CHECKED WS

SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-11204-004 | REV. 1

ISI-11204-006

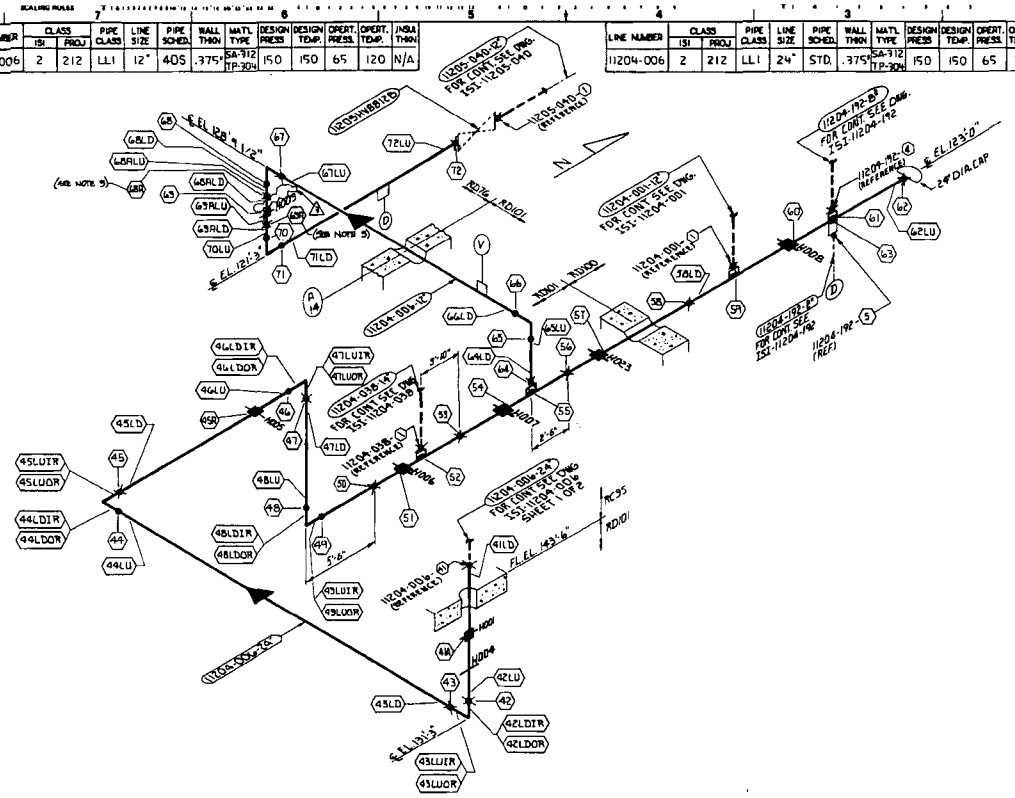
LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-006	2	212	LL1	24"	STD.	.375	SA-312 TP304	150	150	65	120	3"

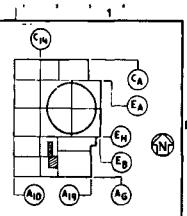


900-H0211-ISI

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL THKN
11204-006	2	212	LL1	12"	40S	.375"	SA-312 TP-304	150	150	65	120	N/A

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL THKN
11204-006	2	212	LL1	24"	STD.	.375"	SA-312 TP-304	150	150	65	120	3"





LEGEND:

1. ✱ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ◆ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ⊥ BRANCH CONNECTION WELD.
6. ⊣⊢ PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:

P & I.D. ____ IX4DB121, 122
FAB ISO. ____ IX9-1204-0110-0017
PIPING LAYOUT DWG. ____ IX4DL3E06, FD6, FD6-0
CIVIL STRUCTURAL ____ AX2008F014
HANGER DETAIL DWG. ____ VI-1204-006-H001, H002, H004, H005, H006, H007, H008, H009, H023
F-SHEETS ____ F-1124 THRU 1132, F-4350,

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)
3. WELDS 68A & 69A LOCATED DURING FIELD WALKDOWN.

REVISION	DATE	REVISION	DATE	REVISION 3	DATE 5/23/91	REVISION 2	DATE 5-19-87	REVISION	DATE 6-10-86	REVISION 0	DATE 11-16-85
				DELETED HANGER MODE PER PCR. 91-004		GENERAL REVISION TO UPDATE DRAWING PER ISI.		ADDED ROOM NO. ADDED WELD 68A & 69A ADDED LONG SEAM WELD NO.		ISSUED FOR INSPECTION	
BY	CHK'D	APPR. 1	APPR. 2	WJS	WJS	WLV	MGA	GLB	GGC	BKG	BST	CLB

Southern Company Services, Inc.
FOR
Georgia Power Company

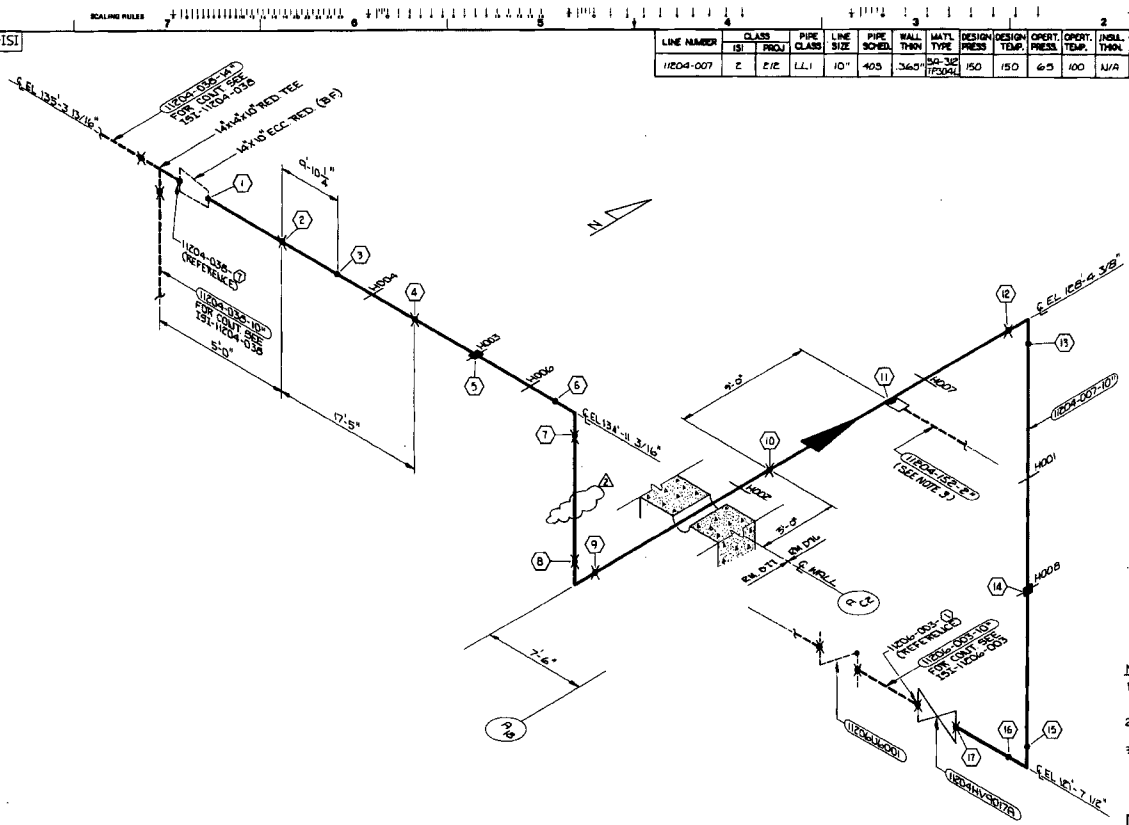
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 006
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

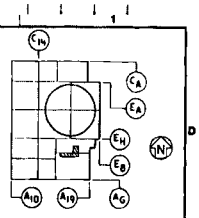
DRAWN C.W.D. DRAWN R.M.S. CHECKED BST

SCALE NONE | SHEET 2 OF 2 | DRAWING NUMBER ISI-11204-006 | REV. 3

ISI-1204-007

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1204-007	2	E/E	LL1	10"	40S	.365"	SA-312 TP304L	150	150	65	100	N/A





KEY PLAN
LEVEL "D"

LEGEND:

1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —⊣⊢— PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID 1X4DB121, 131
FAB ISO 1X3-1204-004-01/90
PIPING LAYOUT
DWG 1X4DL134106, G09
CIVIL/STRUCTURAL AX2D08A008
HANGER DET. DWG V-1204-007-H001, H002, H003, H004, H005, H007, H008, H010
F-SHEETS F-199, 200, 201, 202, 203

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)
3. NO SURFACE VOLUMETRIC EXAM REQUIRED FOR THIS LINE DUE TO PIPE THICKNESS CRITERIA.

REVISION	DATE	REVISIONS	DATE	REVISION	DATE	REVISION 2	DATE 5/23/91	REVISION 1	DATE 5-19-87	REVISION 0	DATE 11-16-85
						DELETED HANGER H010 PER RCE 91-004		GENERAL REVISION TO UPDATE DRAWING FOR ISI.		ISSUED FOR INSPECTION	

BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	APPR. 6	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	APPR. 6	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	APPR. 6	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	APPR. 6	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	APPR. 6
																																WGS	WS	WLW							
																								MLG	GLB	RSC						BST	WS	CWA							

Southern Company Services, Inc.
FOR
Georgia Power Company

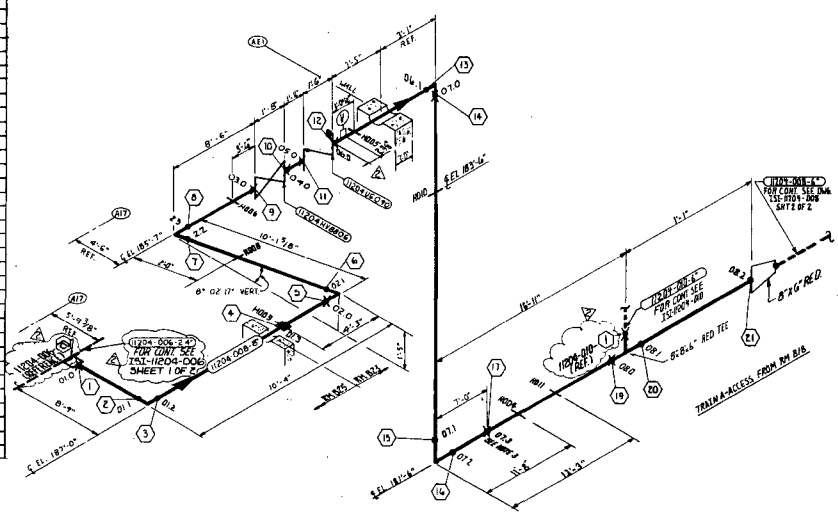
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 007
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

DESIGNED CWD DRAWN BST CHECKED WS

SCALE	PROJECT I.D.	DRAWING NUMBER	REV.
NONE		ISI-1204-007	2

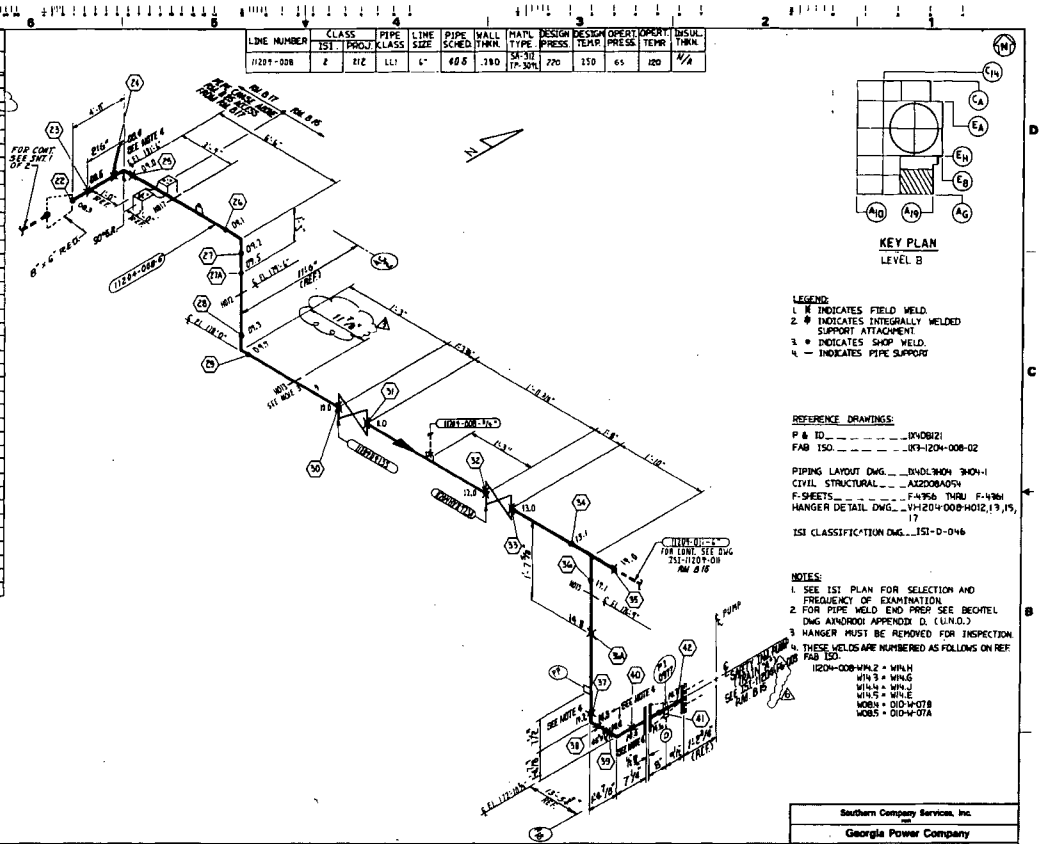
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP.	PART EXAMINED (SEE NOTE NO.1)	EXAM. REQUIREMENT FIG	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204HV8806	CONT. VLV	PRESSURE REMAIN. COMP.	–	–	–	–	C7.40 C7.41	–	–
11204U6090	CHECK VLV.	↓	–	–	–	–	↓	–	–
1K1204-008-H005	X DIR. RESTRAINT FLAT RESTRAINT	LINESS SUPPORT	IWF-1300-1	–	–	–	–	F7.10 F7.11	–
H005	↓	↓		–	–	–	–	↓	–
H006	RIGID RESTRAINT	RIGID SUPPORT		–	–	–	–	F3.10 F3.10	–
H008	VERTICAL RESTRAINT	CONSTANT SUPPORT		–	–	–	–	F3.10 F3.10	F3.50
H009	FLAT RESTRAINT	FLAT SUPPORT		–	–	–	–	F7.10 F7.10	–
H010	Y-PLANE RESTRAINT	GUIDE SUPPORT		–	–	–	–	↓	–
H011	RIGID RESTRAINT	CONSTANT SUPPORT	↓	–	–	–	–	F3.10 F3.10 F3.10 F3.10	F3.50
11204-008-W010	B.W	CIRC. WELD	IWC-2510-7	–	C5.11	–	C7.10 C7.11	–	–
W011	↓	↓		–	–	–	↓	–	–
W012				–	–	–		–	–
W013	FILLET	INT. WELDER ATTACHMENT	IWC-2510-3	–	G3.40	–	–	–	–
W020	B.W	CIRC. WELD	IWC-2510-7	–	C5.11	–	C7.10 C7.11	–	–
W021				–	–	–		–	–
W022				–	–	–		–	–
W023				–	–	–		–	–
W030				–	–	–		–	–
W040				–	–	–		–	–
W050				–	–	–		–	–
W060				–	–	–		–	–
W061				–	–	–		–	–
W070				–	–	–		–	–
W071				–	–	–		–	–
W072	↓	↓	↓	–	–	–	↓	–	–
W080	B.W.	CIRC. WELD	IWC-2510-7	–	C5.11	–	C7.10 C7.11	–	–
W081	↓	↓	↓	–	–	–	↓	–	–
W082				–	–	–		–	–
W083				–	–	–		–	–

LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP	OPERT PRESS.	OPERT. TEMP	INSUL. THKN
11204-008	2	2/2	LL1	8"	40 S	.322	SA-312 TP-304L	220	250	65	120	N/A



EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP	PART EXAMINED (SEE NOTE) NO.D	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
W-1204-009-H012	PIPE-TO-PIPE CONNECT	COMPONENT SUPPORT	IWF-1300	—	—	—	—	FOR ITEM NO. F1.50	F1.50
1 / H013	PIPE-TO-PIPE CONNECT	COMPONENT SUPPORT		—	—	—	—	F1.50 F2.50	—
H015	PIPE-TO-CLEVIS	LINEAR SUPPORT	IWF-1300-1	—	—	—	—	F2.30 F2.50	—
H011	PIPE-TO-PIPE CONNECT	COMPONENT SUPPORT	IWF-1300-1	—	—	—	—	FOR ITEM NO. F1.50	F1.50
11204-008-W20.3	B.W.	CIRC WELD	IWC-2500-7	—	C5.11	—	C7.31	—	—
W20.4				—		—		—	—
W20.5				—		—		—	—
W19.0				—		—		—	—
W19.1				—		—		—	—
W19.2				—		—		—	—
W19.3				—		—		—	—
W19.4				—		—		—	—
W10.0				—		—		—	—
W11.0				—		—		—	—
W12.0				—		—		—	—
W13.0				—		—		—	—
W13.1				—		—		—	—
W14.0				—		—		—	—
W14.1				—		—		—	—
W14.2				—		—		—	—
W14.3				—		—		—	—
W14.4				—		—		—	—
W14.5				—		—		—	—
W14.6				—		—		—	—
W14.7				—		—		—	—
W14.8				—		—		—	—
W14.9				—		—		—	—
11204UK135	GATE VALVE	PRESSURE COMPONENT		—	—	—	C7.31	—	—
11204HV0683A	CONTROL VALVE			—	—	—	—	—	—

LINE NUMBER	CLASS ISI.	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-008	2	112	LL1	6"	80S	.280	SA-312 TP-304L	270	150	65	120	N/A



LEGEND:
1. K INDICATES FIELD WELD.
2. # INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
3. • INDICATES SHOP WELD.
4. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & ID _ _ _ _ _ _ _ _ _ DN0B121
FAB ISO. _ _ _ _ _ _ _ _ 013-11204-008-02

PIPING LAYOUT DWG. _ _ DN0L3H04 3H04-1
CIVIL STRUCTURAL _ _ _ A2D08A054
F-SHEETS _ _ _ _ _ _ _ F-4956 THRU F-4961
HANGER DETAIL DWG. _ _ VH1204-008-H012, 13, 15, 17

ISI CLASSIFICATION DWG. _ _ ISI-D-046

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATION.
2. FOR PIPE WELD END PREP SEE BECHTEL DWG A2N0R001 APPENDIX D. (U.N.O.)
3. HANGER MUST BE REMOVED FOR INSPECTION.
4. THESE WELDS ARE NUMBERED AS FOLLOWS ON REF. FAB ISO.
   11204-008-W14.2 = W14.H
   W14.3 = W14.G
   W14.4 = W14.J
   W14.5 = W14.E
   W08.4 = 010-W-07B
   W08.5 = 010-W-07A

REVISION	DATE	REVISION	DATE	REVISION 3	DATE 11-13-85	REVISION 2	DATE 3-30-85	REVISION 1	DATE 10-24-84	REVISION 0	DATE 11-2-83
				CHANGED DESCRIP ON HANGER H013 AND DIM FROM 10" TO 11 7/8" GENERAL REVISIONS		ADDED NEW WELD NO15 REVISED EQUIPMENT IDENTIFICATION NO. ADDED WELDS 14.8 & 09.5 REVISED ITEM NUMBER ADDED DRAIN REVISED REFERENCES DELETED HANGERS H014 & H016		ADDED NOTE TO LEGEND AND NO 4 TO NOTES ADDIM NO15 AND ISI CLASSIFICATION DWG. ISI-D-046 CHANGED INSUL. THKNS. ADDED WELD D8.5 UPDATED DIMENSIONS		ISSUED FOR INSPECTION	
BY	CHK'D	BY	CHK'D	CLB	WS	BKS	WS	RLB	WS	TMW	WS

Southern Company Services, Inc.

Georgia Power Company

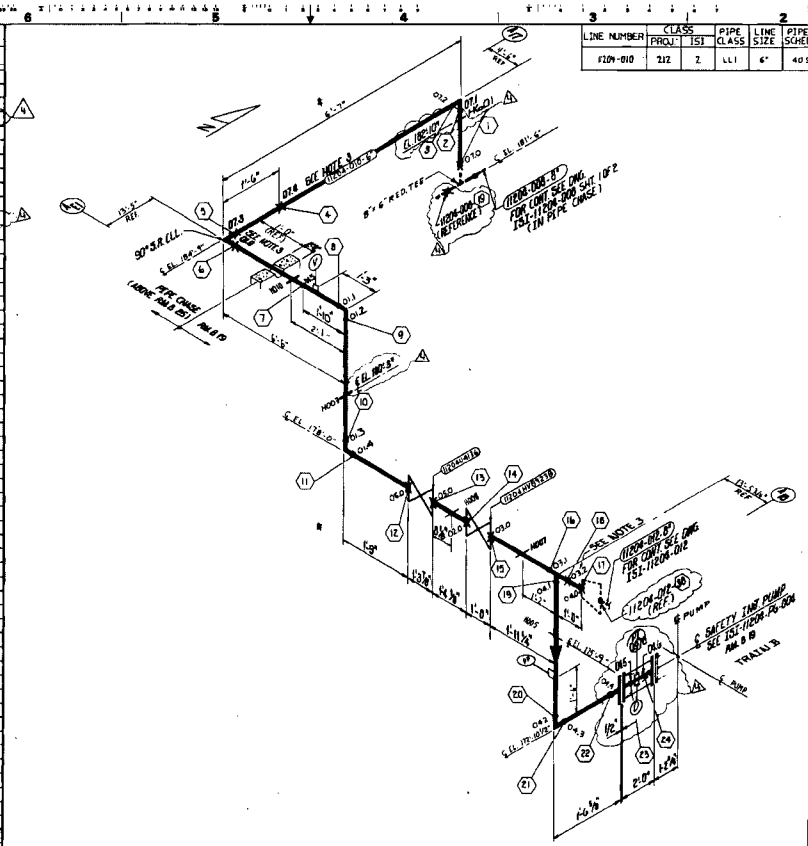
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 008
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

DESIGNED FT | DRAWN TMW | CHECKED WS

SCALE NONE | SHT 2 OF 2 | PROJECT I.D. | DRAWING NUMBER ISI-11204-008 | REV 3

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP	PART EXAMINED (SEE NOTE NO.1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF	VT1	VT2	VT3	VT4
11204HV8473B	CONT VALVE	PRESS RET COMPONENT	—	—	—	—	C140 C141	—	—
11204U4136	GATE VALVE	↓	—	—	—	—	↓	—	—
VI-1204-010-H003	WELDED ATTACH	EXPANSION SUPPORT	TWF-1300-1	—	—	—	—	F16 F17 F18 F19 F20	—
H005	E-BAR RESTRAINT	CLAMP SUPPORT	↓	—	—	—	—	F21 F22	—
H007	TRUNNION ON PIPE	EXPANSION SUPPORT	IWF-1300-4	—	—	—	—	F16 F17 F18 F19 F20	F350
H008	BRACED STRUT	↓	↓	—	—	—	—	↓	—
H010	E-BAR RESTRAINT	EXPANSION SUPPORT	IWF-1300-4	—	—	—	—	F22 F23 F24 F25	—
H601	TONG RESTRAINT	↓	↓	—	—	—	—	F22 F23 F24 F25	—
11204-010-W010	BW	CIRC WELD	IWC-3500-1	—	C511	—	C130 C131	—	—
W011				—		—		—	—
W012				—		—		—	—
W013				—		—		—	—
W014				—		—		—	—
W015				—		—		—	—
W020				—		—		—	—
W030				—		—		—	—
W031				—		—		—	—
W032				—		—		—	—
W040				—		—		—	—
W041				—		—		—	—
W042				—		—		—	—
W043				—		—		—	—
W044				—		—		—	—
W045				—		—		—	—
W046				—		—		—	—
W050				—		—		—	—
W060				—		—		—	—
W070				—		—		—	—
W071				—		—		—	—
W072				—		—		—	—
W073				—		—		—	—
W074				—		—		—	—

LINE NUMBER	CLASS PROJ.	CLASS ISI	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP	OPERT PRESS.	OPERT TEMP	INSUL. THKN.
1204-010	212	2	LL1	6"	40S	.280	SA-312 TP304L	220	250	65	120	N/A



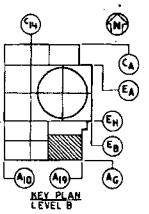
LEGEND:
1. ⊠ INDICATES FIELD WELD.
2. ⊕ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
3. ● INDICATES SHOP WELD.
4. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & ID — — — — — — — — IX4D8121
FAB. ISO. — — — — — — — IX94204-008-02

PIPING LAYOUT DWG — — — IX4DL3H0N & H04-1
CIVIL/STRUCTURAL — — — — AX4D08F069
HANGER DETAIL DWG — — — VI-1204-010-H003, H005, H007, H008, H010, H601
F-SHEETS — — — — — — — F-4362 THRU F-4364, F-4366, F-4367
ISI CLASSIFICATION DWG — — — ISI-D-046

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP SEE BECHTEL DWG AX4D8001 APPENDIX D. (U.N.O.)
3. THESE WELDS ARE NUMBERED ON REF. FAB ISO. AS FOLLOWS: W07.3 = W01C, W07.4 = W01B, W09.2 = W09A



Southern Company Services, Inc.
Georgia Power Company

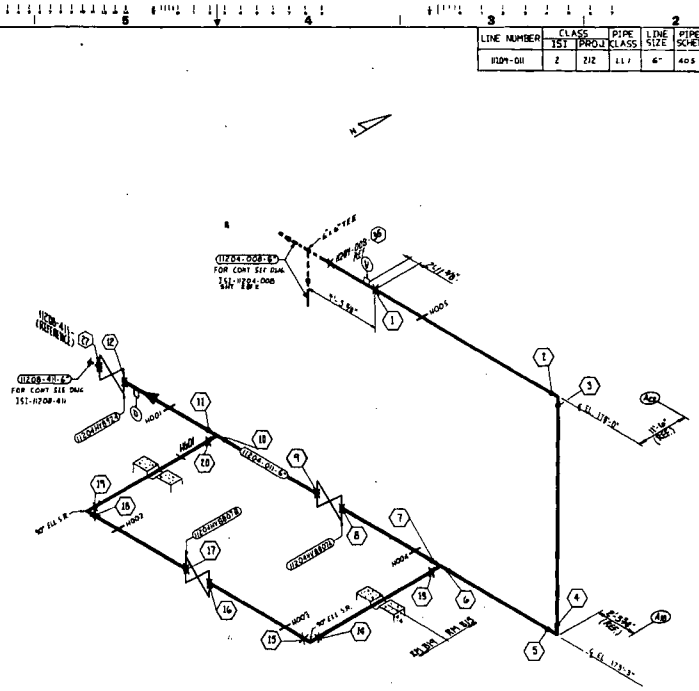
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 010
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION - SYSTEM 1204

SCALE: NONE | DRAWING NUMBER: ISI-11204-010 | REV. 6

REV	DATE	DESCRIPTION
6	11-17-95	ADDED HANGER H601, CHANGED HANGER DESCRIP ON H003, CHANGED ELEVATION ON H003. ADDED REFERENCE WELD M & 38. ADDED PT 0578 & DRAIN TO PUMP
3 CONT.	4-3-85	H005 MOVED UP 4". H003 MOVED UP 6 1/2". REMOVED HANGER H009
3	4-3-85	ADDED NEW WELD NUMBERS. ADDED TRAIN B. REVISED NOTE 3. F-1 WAS F-3. H010 WAS VARIABLE SPRING. H005 WAS E DIR RESTRAINT 8 1/8" WAS 8 1/2". H005 WAS 1 DIR. RESTRAINT
2	1-14-85	REMOVED VI-1204-010-H006. PUT HOLD ON VI-1204-010-H009. ADDED WELD W015
1	10-9-84	CHANGED REF. WELD W011 TO W011A. ADDED TO LEGEND NOTE 4 & NOTE 3 TO NOTES. ADDED ISI REF DWG. ISI-D-046, WELD NOS. 074 AND ROOM NOS. CHANGED INSUL. THKN.
0	10-14-83	ISSUED FOR INSPECTION

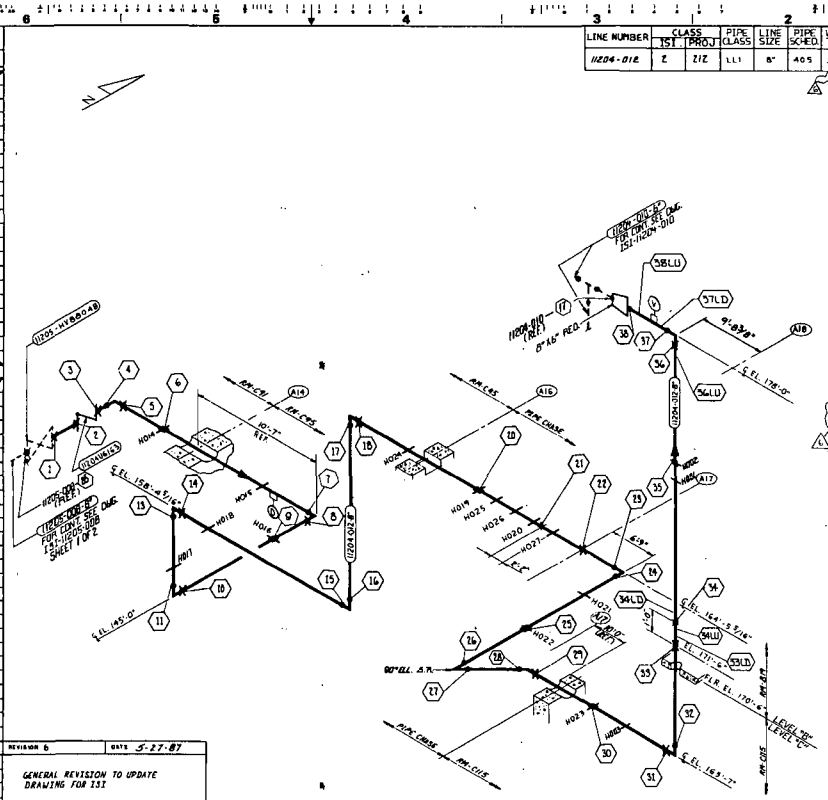
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO 1)	EXAM. REQUIREMENT FIG	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
1204HV8071	CONT. VALVE	PRESSURE RETAIN. COMP.	–	–	–	–	CWD (2A)	–	–
1204HV8078	↓	↓	–	–	–	–	↓	–	–
1204HV8724	↓	↓	–	–	–	–	↓	–	–
1204-01-H001	PIPE RESTRAINT	LINEAR SUPPORT	ZWF-(XD-)	–	–	–	–	PT 3.3	–
H002	PIPE RESTRAINT	↓	↓	–	–	–	–	↓	–
H003	↓	↓	↓	–	–	–	–	↓	–
H004	PIPE RESTRAINT	↓	↓	–	–	–	–	↓	–
H005	↓	↓	↓	–	–	–	–	PT 3.3	–
H601									
1204-01-W010	BW	CIRC. WELD	NK-2500-7	–	MT 5.8	–	CTS 2.0 (2A)	–	–
W011						–		–	–
W012				–		–		–	–
W020				–		–		–	–
W030				–		–		–	–
W031				–		–		–	–
W032				–		–		–	–
W040				–		–		–	–
W050				–		–		–	–
W051				–		–		–	–
W052				–		–		–	–
W060				–		–		–	–
W070				–		–		–	–
W080				–		–		–	–
W081				–		–		–	–
W082				–		–		–	–
W083				–		–		–	–
W084				–		–		–	–
W085				–		–		–	–
W086	↓	↓	↓	–	↓	–	↓	–	–

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP	OPERT PRESS	OPERT TEMP	INSUL. THKN
1204-011	2	212	111	6"	40S	.280 (1)	SA-312 TP304L	220	250	45	120	N/A


1204-008-6"
FOR CONT SEE DWG ISI-1204-008 SHT. 2 OF 2
1204-011-6"
1204-011-8"
1204-011-10"
1204-011-12"
1204-011-14"
1204-011-16"
1204-011-18"
1204-011-20"
1204-011-22"
1204-011-24"
1204-011-26"
1204-011-28"
1204-011-30"
1204-011-32"
1204-011-34"
1204-011-36"
1204-011-38"
1204-011-40"
FOR CONT SEE DWG ISI-1204-011
H001
H002
H003
H004
H005
H601
90° ELL S.R.
45° ELL S.R.
TEE
CAP
FLG
VALVE
REDUCER
PIPE
ELL 179°-3"
ELL 179°-3"
ELL 179°-3"

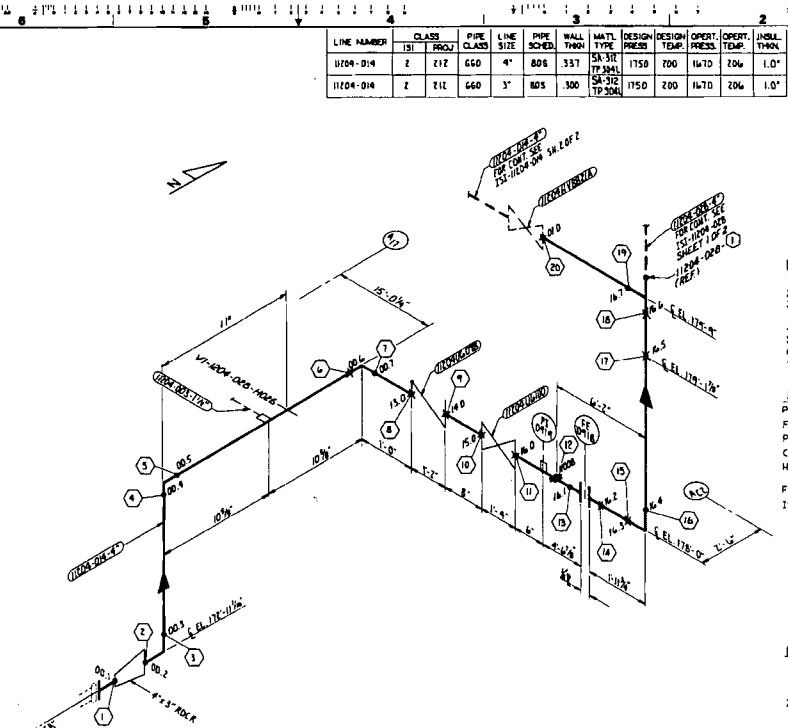
LINE NUMBER	CLASS IST	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP	OPERT. PRESS	OPERT. TEMP	INSUL. THKN
1120A-012	2	2I2	LL1	8"	40S	.322"	SA312 TP304L	220	250	200	206	1.0" (PARTIAL)

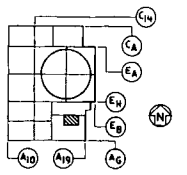
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF	VTI	VT2	VT3	VT4
1N204U013	CHECK VALVE	PRESS RET COMPONENT	–	–	–	–	C7.40 C7.41	–	–
VT-1204-012-H001	MECHANICAL SNUBBER & SUPPORT	COMPONENT SUPPORT	IWF-1300-4	–	–	–	–	C7.30 C7.31	F3.50
H002	MECHANICAL SNUBBER & SUPPORT			–	–	–	–		
H003	MECHANICAL SNUBBER & SUPPORT			–	–	–	–		
H014	RESTRAINT	STRUCTURAL ATTACHMENT		–	–	–	–	C7.40 C7.41	–
H015	RESTRAINT			–	–	–	–		–
H016	RESTRAINT			–	–	–	–		–
H017	RIGID STRUT	COMPONENT SUPPORT		–	–	–	–	C7.30 C7.31	–
H018	RESTRAINT	STRUCTURAL SUPPORT		–	–	–	–	F2.10	–
H019	RESTRAINT			–	–	–	–		–
H020	RESTRAINT			–	–	–	–		–
H021	RIGID STRUT	COMPONENT SUPPORT		–	–	–	–	C7.30 C7.31	–
H022	RESTRAINT	STRUCTURAL SUPPORT		–	–	–	–	C7.40 C7.41	–
H023	RESTRAINT			–	–	–	–		–
H024	RIGID STRUT			–	–	–	–	F2.20	–
H025				–	–	–	–		–
H026				–	–	–	–		–
H027				–	–	–	–	PER WALKDOWN	–
1120A-012-W01.0	BW	CIRC WELD	IWC-2500-7	–	C5.11	–	C7.30 C7.31	–	–
W02.0				–		–		–	–
W03.0				–		–		–	–
W04.0				–		–		–	–
W04.1	FILLET WELD	INT. WELD ATTACH	IWC-2500-5	–	C3.40	–	–	–	–
W04.2	BW	CIRC WELD	IWC-2500-7	–	C5.11	–	C7.30 C7.31	–	–
W05.0				–		–		–	–
W05.1	FILLET WELD	INT. WELD ATTACH	IWC-2500-5	–	C3.40	–	–	–	–
W06.0	BW	CIRC WELD	IWC-2500-7	–	C5.11	–	C7.30 C7.31	–	–
W06.1				–		–		–	–
W06.3	BW	CIRC WELD	IWC-2500-7	–	C5.11	–	C7.30 C7.31	–	–
W07.0				–		–		–	–
W07.1				–		–		–	–
W07.2				–		–		–	–
W07.3				–		–		–	–
W08.0				–		–		–	–
W08.2	FILLET WELD	INT. WELD ATTACH	IWC-2500-5	–	C3.40	–	–	–	–
W09.0	BW	CIRC WELD	IWC-2500-7	–	C5.11	–	C7.30 C7.31	–	–
W09.1				–		–		–	–
W09.2				–		–		–	–
W09.3	FILLET WELD	INT. WELD ATTACH	IWC-2500-5	–	C3.40	–	–	–	–
W09.4	BW	CIRC WELD	IWC-2500-7	–	C5.11	–	C7.30 C7.31	–	–
W09.5				–		–		–	–
W09.6				–		–		–	–
W10.0				–		–		–	–
W10.1	FILLET WELD	INT. WELD ATTACH	IWC-2500-5	–	C3.40	–	–	–	–
W11.0	BW	CIRC WELD	IWC-2500-7	–	C5.11	–	C7.30 C7.31	–	–
W11.1				–		–		–	–
W11.2				–		–		–	–
W11.3				–		–		–	–
W11.4				–		–		–	–


N
1120A-H018 & H019
1120A-H020 & H021
1120A-H022 & H023
1120A-H024 & H025
1120A-H026 & H027
1120A-W04.0
1120A-W05.0
1120A-W06.0
1120A-W07.0
1120A-W08.0
1120A-W09.0
1120A-W10.0
1120A-W11.0
1120A-012
1120A-010
1120A-W11.0 & W10.0 FOR CONT. SEE ISI-1120A-010
1120A-W04.0 & W05.0 FOR CONT. SEE ISI-1120A-008 SHEET 1 OF 2
1120A-W11.0 & W10.0 FOR CONT. SEE ISI-1120A-010
1120A-010 (REF.) 8"x6" RED. T
90° ELL. S.R.
PIPE CHASE
PIPE CHASE
PIPE CHASE

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11Z04U4048	CHECK VALVE	PRESS BDY. COMPONENT	—	—	—	—	C1.40 C1.41	—	—
11Z04U4100	GATE VALVE	↓	—	—	—	—	↓	—	—
VI-1Z04-014-H008	3 DIR. RESTRAINT	LINEAR SUPPORT	TVF-1500-1	—	—	—	—	F2.10 F2.40	—
VI-1Z04-028-H026	VARIABLE SPRING	COMPONENT SUPPORT	↓	—	—	—	—	F3.10 F3.30/F3.40	F3.50
11Z04-014-W00.1	B.W.	CIRC. WELD	TWC-2500-7	C5.21	C5.21	—	C1.10 C1.11	—	—
W00.2						—		—	—
W00.3						—		—	—
W00.4						—		—	—
W00.5						—		—	—
W00.6						—		—	—
W00.7						—		—	—
W13.0						—		—	—
W14.0						—		—	—
W15.0						—		—	—
W16.0						—		—	—
W16.1						—		—	—
W16.2						—		—	—
W16.3						—		—	—
W16.4						—		—	—
W16.5						—		—	—
W16.6						—		—	—
W16.7	↓	↓	↓	↓	↓	—	↓	—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11Z04-014	2	212	660	4"	80S	.337	SA-312 TP304L	1750	200	1470	206	1.0"
11Z04-014	2	212	660	3"	80S	.300	SA-312 TP304L	1750	200	1470	206	1.0"





KEY PLAN
LEVEL B

LEGEND:
1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ⌓ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:
P&ID _____ IX4DB121
FAB ISO _____ IK3-1Z04-028-01
PIPING LAYOUT DWG _____ IX4DL3H04
CIVIL / STRUCTURAL _____ AX2D08A057
HANGER DETAIL DWG _____ VI-1Z04-014-H008
VI-1Z04-028-H026
F-SHEETS _____ F-1305 THRU F-1308
ISI CLASSIFICATION DWG_ISI-D-046

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE
0	11-17-85

ISSUED FOR INSPECTION

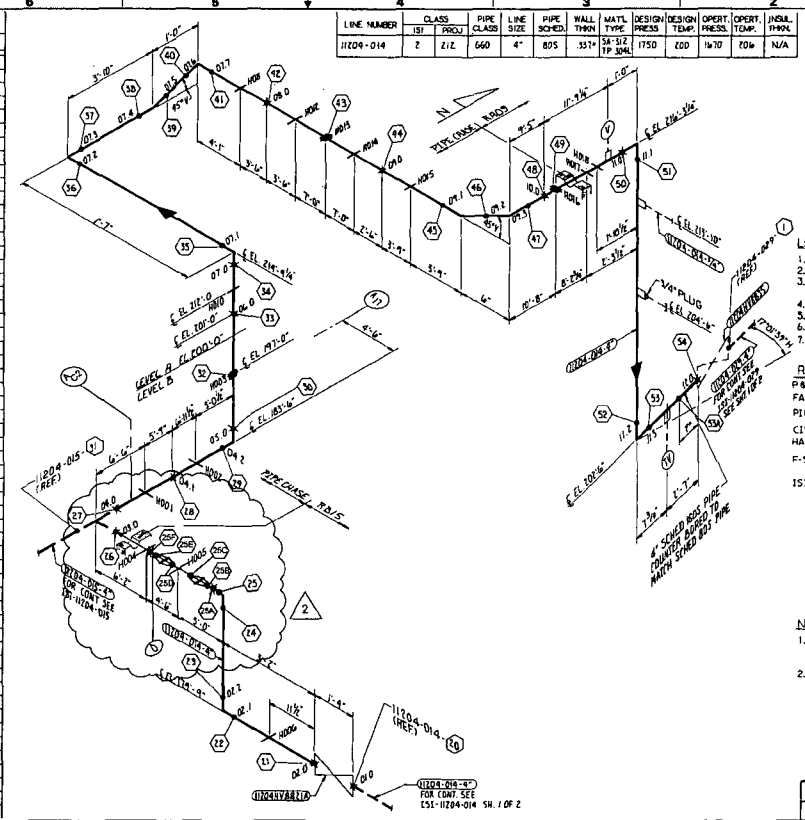
Southern Company Services, Inc.
FOR
GEORGIA POWER COMPANY

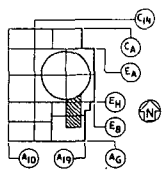
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 014
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1Z04

DESIGNED CWD DRAWN BKG CHECKED BST
SCALE NONE SN10FZ PROJECT I.D. DRAWING NUMBER ISI-11Z04-014 REV. 0

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL THKN.
11204-014	2	2.1.2	660	4"	80S	.337"	SA 312 TP 304L	1750	200	1670	206	N/A

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204HV8821A	CONTROL VALVE	VARIOUS BOLT CONFIGURATIONS	—	—	—	—	C3.40 C3.41	—	—
W-1204-014-H001	1" DIR. RESTRAINT	LITHIUM SUPPORT	IWF-1300-1	—	—	—	—	F2.20 F2.30	—
H002	1" DIR. RESTRAINT			—	—	—	—		—
H003	1" DIR. RESTRAINT			—	—	—	—		—
H004	1" DIR. RESTRAINT			—	—	—	—		—
H005				—	—	—	—		—
H006	1" DIR. RESTRAINT			—	—	—	—		—
H010				—	—	—	—		—
H011				—	—	—	—	F2.20	—
H012	1" DIR. RESTRAINT			—	—	—	—		—
H013	1" DIR. RESTRAINT			—	—	—	—		—
H014	1" DIR. RESTRAINT			—	—	—	—		—
H015	1" DIR. RESTRAINT			—	—	—	—		—
H016	1" DIR. RESTRAINT			—	—	—	—	F2.20 F2.30	—
H017	1" DIR. RESTRAINT			—	—	—	—		—
H018	VARIABLE SPRING	CONTINENTAL SUPPORT		—	—	—	—	F3.20 F3.30 F3.40	F3.50
11204-014-W01.0	B.W.	CIRC. WELD	IWC-2500-1	(5.2)	(5.2)	—	C3.20 C3.21	—	—
W02.0						—		—	—
W02.1						—		—	—
W02.2						—		—	—
W02.3						—		—	—
W02.4						—		—	—
W03.0						—		—	—
W04.0						—		—	—
W04.1						—		—	—
W04.2						—		—	—
W05.0						—		—	—
						—		—	—
W06.0						—		—	—
W07.0						—		—	—
W07.1						—		—	—
W07.2						—		—	—
W07.3						—		—	—
W07.4						—		—	—
W07.5						—		—	—
W07.6						—		—	—
W07.7						—		—	—
W08.0						—		—	—
W09.0						—		—	—
W09.1						—		—	—
W09.2						—		—	—
W09.3						—		—	—
W10.0						—		—	—
W11.0						—		—	—
W11.1						—		—	—
W11.2						—		—	—
W11.3						—		—	—
W12.0						—		—	—





KEY PLAN
LEVEL A & B

LEGEND:
1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ◇ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. ⊣⊢ PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:
P&ID ____ IX4DB121
FAB ISO. ____ IK3-1204-014-01
PIPING LAYOUT DWG ____ IK3-1204-014-02
IX4DL3G09, G04, G05, H04, H04-1
CIVIL / STRUCTURAL ____ AX2DD8A080
HANGER DETAIL DWGS ____ VI-1204-014-H001 THRU H006, H010 THRU H018
F-SHEETS ____ F-1296, F-1297, F-4969 THRU F-4974, F-12249
ISI CLASSIFICATION DWG ____ ISI-D-046

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 6-26-09	REVISION 1	DATE 6-10-86	REVISION 0	DATE 11-18-85
						REVISED PER DCP 1060178401 AND DOCUMENTED IN PCR 2008-006.		DELETED FLOOR AT EL 100' DELETED WALL AT COL. AC2 ADDED WALL ADDED ROOM NO.		ISSUED FOR INSPECTION	

Southern Company Services, Inc.

GEORGIA POWER COMPANY

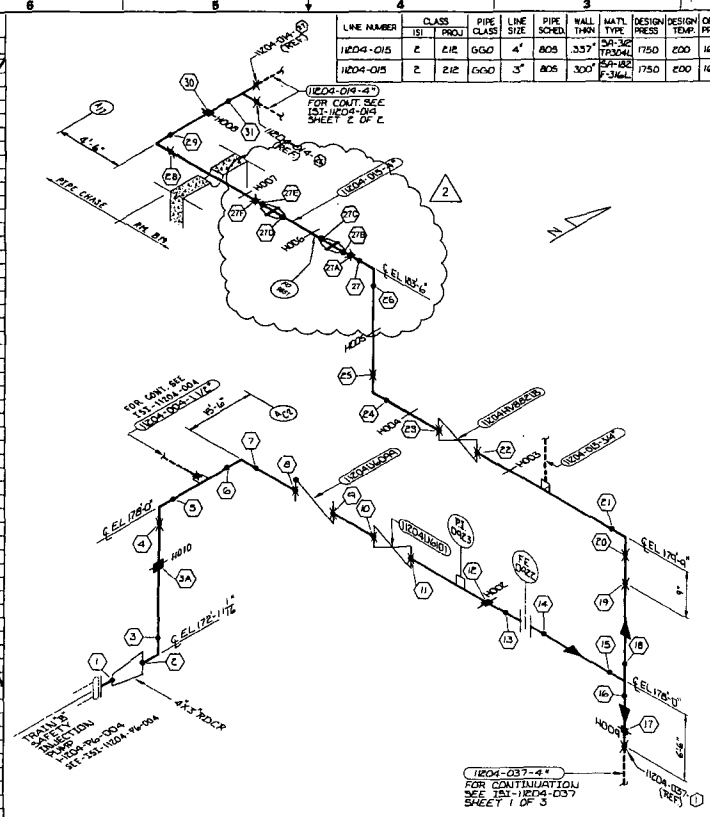
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 014
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

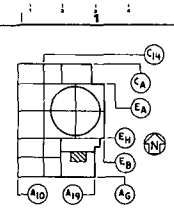
DRAWN CWD MADE BKG CHECKED BST

SCALE	PROJECT I.D.	DRAWING NUMBER	REV
NONE	SH. 2 OF 2	ISI-11204-014	2

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
1N204-HV8821B	GATE	PRESS. RET. COMPONENT	—	—	—	—	C7.40 C7.41	—	—
1N204U6-099	CHECK	↓	—	—	—	—	↓	—	—
1N204U6101	GATE		—	—	—	—		—	—
VI-1204-015-H002	2-DIR RESTRAINT	LINEAR SUPPORT	DWG-2300-1	—	—	—	—	F2.50 F3.50	—
H003	1-DIR RESTRAINT			—	—	—	—	—	—
H004	2-DIR RESTRAINT			—	—	—	—	—	—
H005	1-DIR RESTRAINT			—	—	—	—	—	—
H006				—	—	—	—	—	—
H007				—	—	—	—	—	—
H008	2-DIR RESTRAINT			—	—	—	—	—	—
H009	6-DIR RESTRAINT			—	—	—	—	—	—
H010	VERTICAL SPHERICAL	COMPONENT SUPPORT		—	—	—	—	F2.40 F3.40	F3.50
1204-05-W001	B.W.	CTRC MFG.	DWG-2500-7	C5.21	C5.21	—	C7.20 C5.21	—	—
W002						—		—	—
W003						—		—	—
W004						—		—	—
W005						—		—	—
W006						—		—	—
W007						—		—	—
W010						—		—	—
W020						—		—	—
W030						—		—	—
W040						—		—	—
W041	FILLET WELD	TANTEN WELD ATTACHMENT	DWG-2500-5	—	C5.40	—	—	—	—
W042	B.W.	CTRC MFG.	DWG-2500-7	C5.21	C5.21	—	C7.20 C5.21	—	—
W043						—		—	—
W044						—		—	—
W045						—		—	—
W046						—		—	—
W047						—		—	—
W048						—		—	—
W049						—		—	—
W050						—		—	—
W061						—		—	—
W062						—		—	—
W063						—		—	—
W064						—		—	—
W070						—		—	—
W071						—		—	—
W072						—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1N204-015	2	2.12	GG0	4"	80S	.337"	SA-312 TP304L	1750	200	1670	206	1" PARTIAL
1N204-015	2	2.12	GG0	3"	80S	.300"	SA-182 F-316L	1750	200	1670	206	1"





KEY PLAN
LEVEL "B"

LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & I.D. ——— 1X4DB121
FAB. ISO. ——— 1K3-1204-015-01/17
PIPING LAYOUT DWG. ——— 1X4DL3404, 1X4DL3404-1
CIVIL/STRUCTURAL DWG. ——— AX2D08A054
HANGER DETAIL DWG. ——— VI-1204-015-H002 THRU H010
F-SHEETS ——— F-1299, 1301, 1302, 1303, 1304

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 6-26-09	REVISION 1	DATE 5-27-87	REVISION 0	DATE 11-18-85
						REVISED PER DCP 108178401 AND DOCUMENTED IN PCR 2008-006.		GENERAL REVISION TO UPDATE DRAWING FOR ISI; ADDED WELD 3A		ISSUED FOR INSPECTION	
BY	CHK'D	APPR.1	APPR.2	APPR.3	APPR.4	SM		KLB	GLB	BST	BKG

Southern Company Services, Inc.

GEORGIA POWER COMPANY

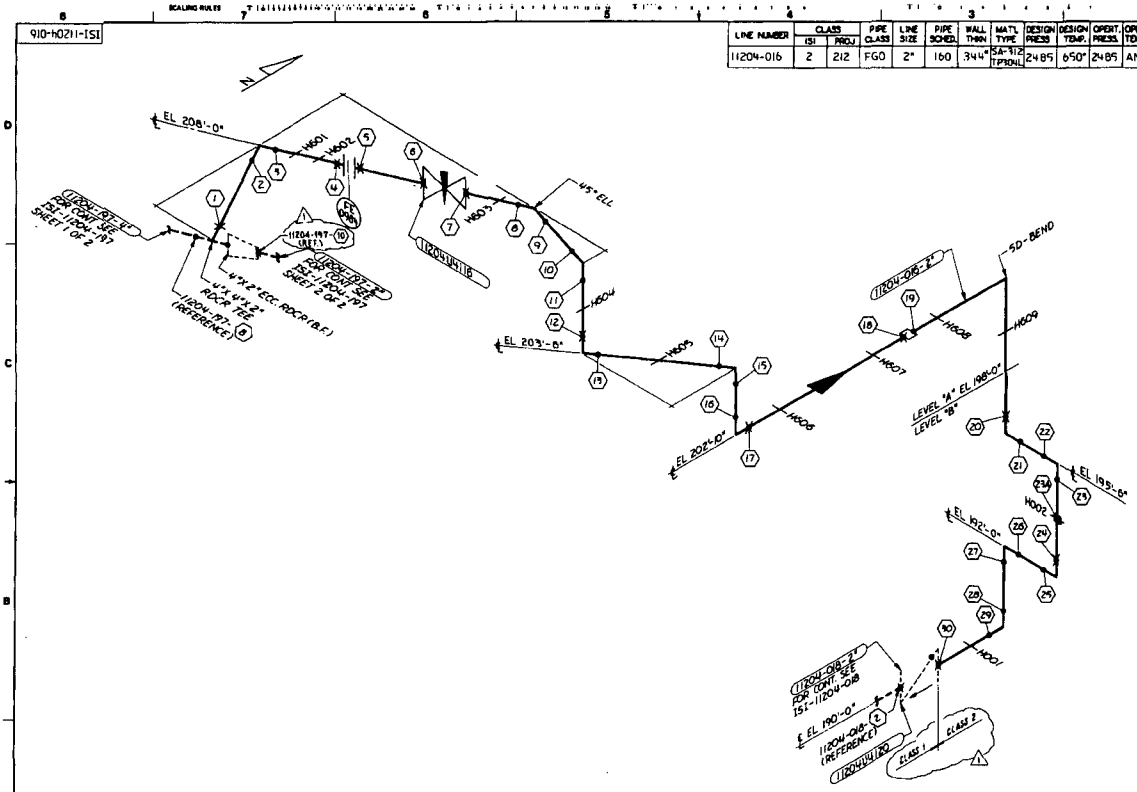
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1—LINE NO. 015
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

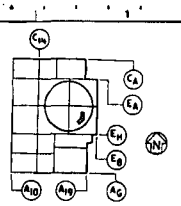
DESIGNED CWD DRAWN BST CHECKED WS

SCALE NONE | PROJECT-TASK | DRAWING NUMBER ISI-1N204-015 | REV. 2

ISI-H0211-016

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-016	2	212	FG0	2"	160	.344"	SA-312 TP304L	2485	650°	2485	AMB.	2.5"





KEY PLAN
LEVEL "A" & "B"

LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT.
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID.....1X4DB121
FAB. ISO.....1X4-1204-016-01/11
PIPING LAYOUT
DWGS.....1X4DL4A03, A04, A05, & A06
CIVIL/STRUCTURAL....1X2D4BF003 & 1X2D4BA009
HANGER DET. DWGS.... VI-1204-016-H001, H002, H601, H602, H603, H604, H605, H606, H607, H608, & H609.

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 1	DATE 5-19-87	REVISION 0	DATE 11-18-85
								GENERAL REVISION TO UPDATE DRAWING FOR ISI		ISSUED FOR INSPECTION	

Southern Company Services, Inc.
FOR
Georgia Power Company

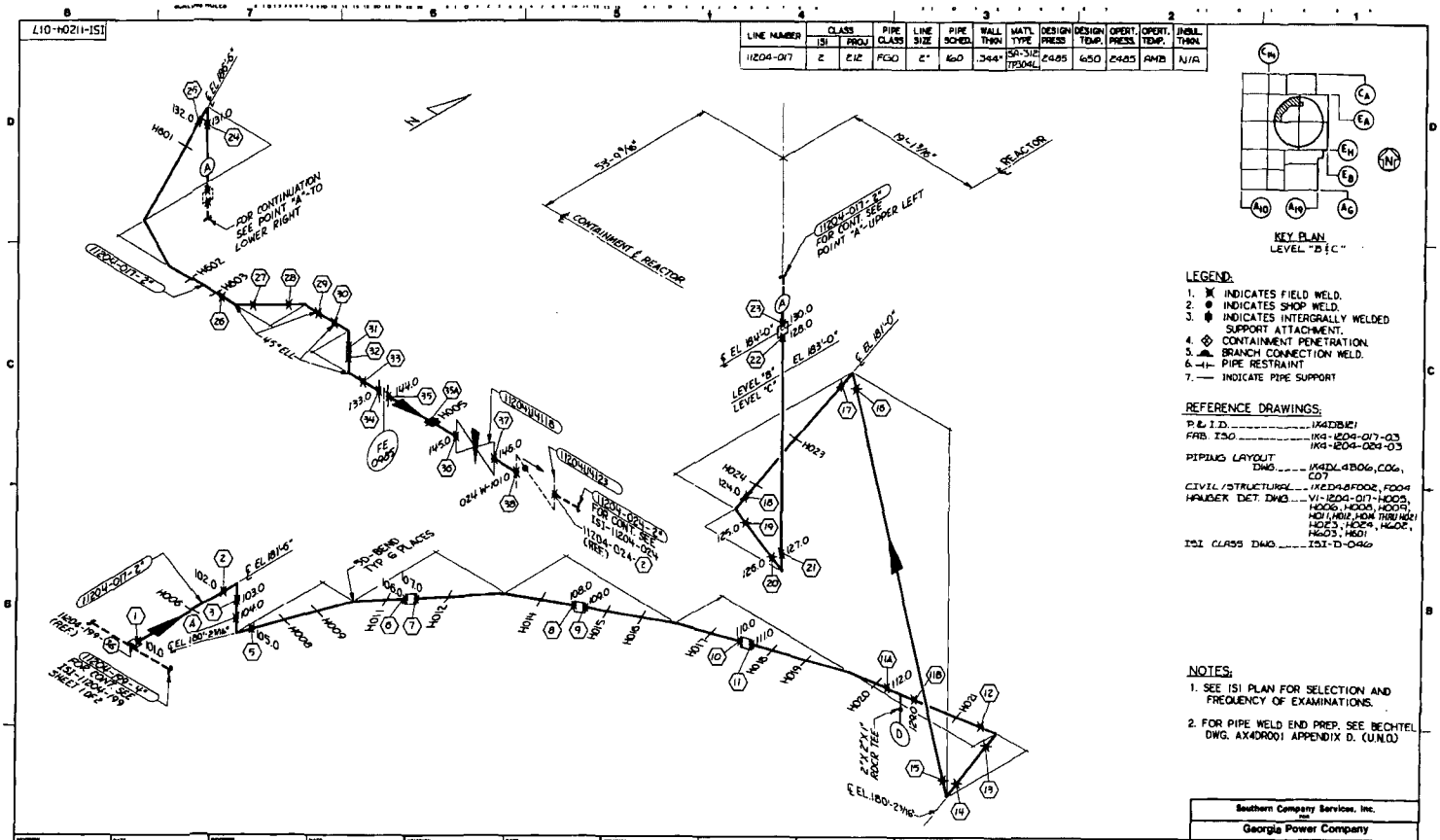
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 016
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION - SYSTEM 1204

BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5
RLB	GLB	GPC																										BPP	BST	CLP											

DESIGNED CWD | DRAWN GPP | CHECKED BST
SCALE NONE | PROJECT I.D. | CALCULATION NUMBER | REV. ISI-11204-016 | 1

ISI-I1204-017

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
I1204-017	2	E12	FC50	2"	160	.344"	SA-312 TP304L	2485	650	2485	AMB	N/A



LEGEND:

1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ◇ CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. —⊣⊢— PIPE RESTRAINT
7. —— INDICATE PIPE SUPPORT

REFERENCE DRAWINGS:

P & I.D. 1X4DB121
FAB. ISO 1X4-1204-017-03
1X4-1204-020-03
PIPING LAYOUT DWG 1X4DL4B06, C06, C07
CIVIL/STRUCTURAL 1X4DA8F002, F004
HANGER DET. DWG ..... V1-1204-017-H003, H006, H008, H009, H011, H012, H014 THRU H021, H023, H024, H026, H602, H603, H601
ISI CLASS DWG ISI-D-046

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE
0	11-18-85

ISSUED FOR INSPECTION

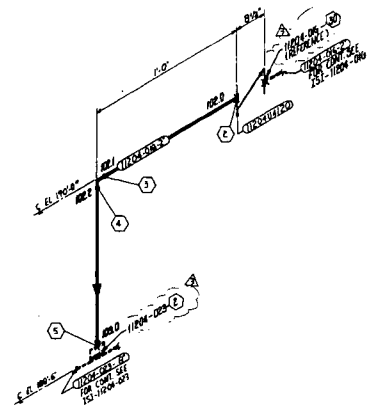
Southern Company Services, Inc.
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 – LINE NO. 017
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION – SYSTEM 1204

DRAWN CWD | DESIGN GPP | ENGINEER BST
SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-I1204-017 | REV. 0

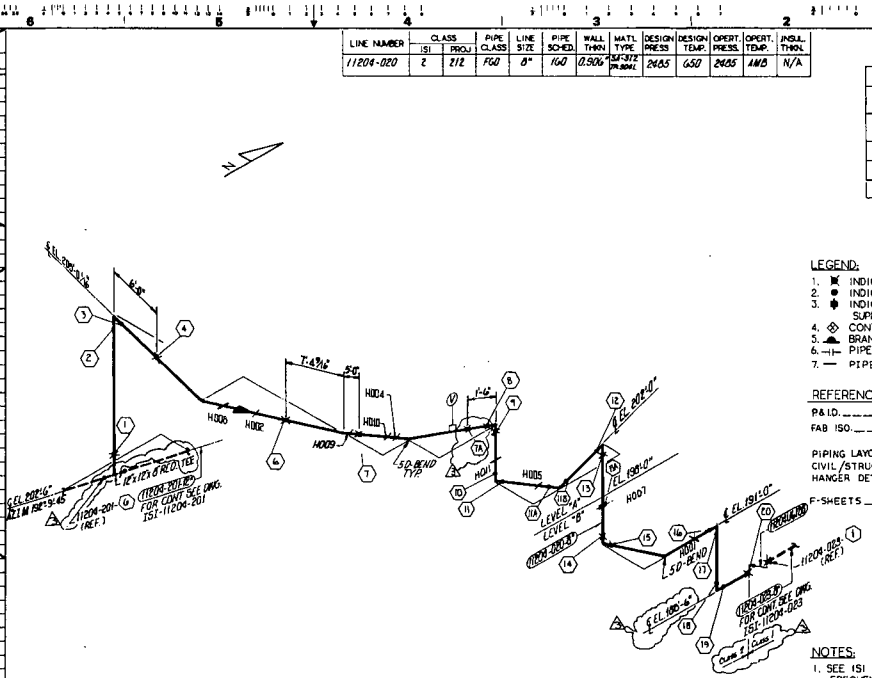
EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204U4120	CHECK VALVE	PIPING REF COMPONENT	—	—	—	—	B15.10 B15.11	—	—
11204-016-WELD 1	S.W.	CIRC. WELD	MD-2100-B	—	B9.40	—	B15.50 B15.51	—	—
WELD 2	S.W.			—	B9.21	—		—	—
WELD 3				—		—		—	—
WELD 4				—		—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-018	1	111	FG0	2"	160	.344	SA-312 TP304L	2485	650	2485	AMB	2.5



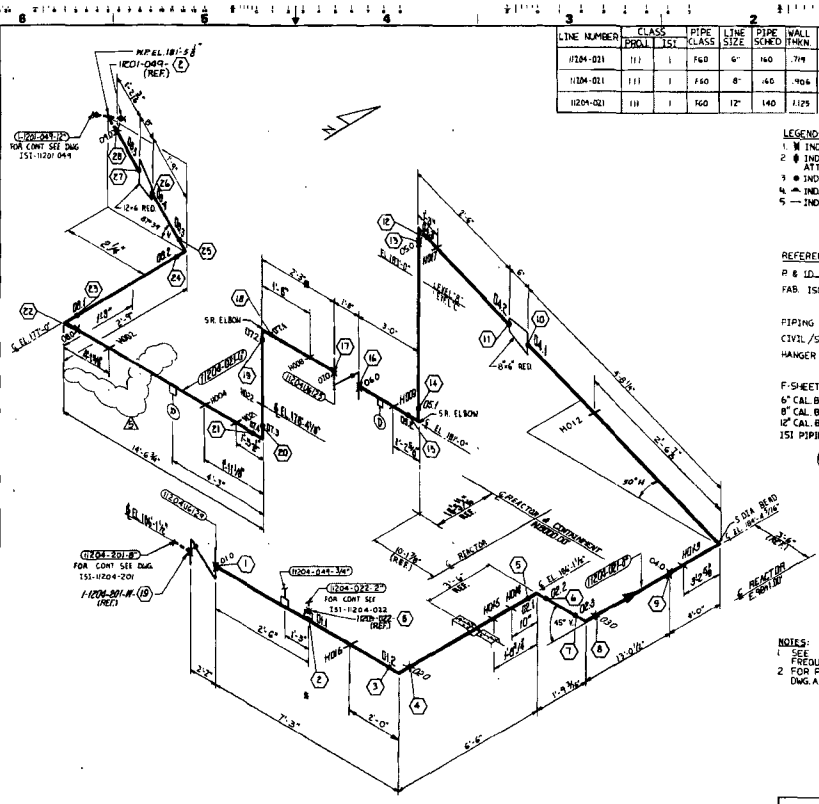
EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
VI-1204-020-H007	PIPE-DOW. RESTRAINT	LINEAR SUPPORT	PIPE-1500-1	—	—	—	—	C5.50 F2.50	—
H001	TUBE-DOW. RESTRAINT			—	—	—	—	F1.30 F2.10 F3.30 F3.40	—
VI-1204-020-H002	PIPE-DOW. RESTRAINT	L/INEAR SUPPORT	PIPE-1500-1	—	—	—	—	F2.30 F3.30	—
H004	PIPE-DOW. RESTRAINT			—	—	—	—	F2.30 F3.30	—
H005	SADDLE-DOWN STRUT	COMPONENT SUPPORT		—	—	—	—	F1.30 F2.30 F3.30	F3.50
H009				—	—	—	—		
H020	PIPE-DOW. RESTRAINT	LINEAR SUPPORT		—	—	—	—	F2.30 F3.30	—
H010	SADDLE-DOWN STRUT	COMPONENT SUPPORT		—	—	—	—	F1.30 F2.30 F3.30	F3.50
H011				—	—	—	—		
VI-1204-020-W001.0	B.W.	CIRC. WELD	PIPE-1500-7	C5.21	C5.21	—	C5.30 C5.51	—	—
W001.1						—		—	—
W001.2						—		—	—
W001.3						—		—	—
W001.4						—		—	—
W002.0						—		—	—
W003.0						—		—	—
W003.1						—		—	—
W003.2						—		—	—
W004.0						—		—	—
W005.0	B.W.	CIRC. WELD	PIPE-1500-7	C5.21	C5.21	—	C5.30 C5.51	—	—
W006.0						—		—	—
W006.1						—		—	—
W007.0						—		—	—
W007.1						—		—	—
W007.2						—		—	—
W008.0						—		—	—
W008.1						—		—	—
W008.2	FILLET WELD	INT. WELDED SUPPORT	PIPE-1500-5	—	C5.40	—	—	—	—

LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MATL. TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-020	2	2/2	FGO	8"	160	0.906	SA-312 TP304L	2485	650	2485	AMB	N/A


EL 202'-6"
EL 202'-0"
EL 191'-0"
EL 190'-6"
T-6 1/2"
5°
H004
H010
H009
H006
H002
H005
H007
H001
50-BEND TYP.
LEVEL -8"
LEVEL -8"
11204-201-W
FOR CONT SEE DWG. ISI-11204-201
11204-201-W
(REF.)
11204-020-W
11204-020-W
11204-020-W

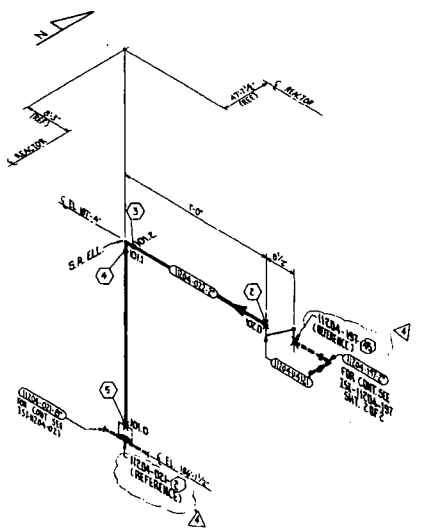
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204-021-H001				—	—	—	—		—
H002				—	—	—	—		—
H004				—	—	—	—		—
H006				—	—	—	—		—
H008				—	—	—	—		—
H012				—	—	—	—		—
H013				—	—	—	—		—
H014				—	—	—	—		—
H016				—	—	—	—		—
H017				—	—	—	—		F350
H020				—	—	—	—		
H021									
H022									
H023									
H024									
11204-021-W010									
W011									
W012									
W020									
W021									
W022									
W023									
W030									
W040									
W041									
W042									
W043									
W050									
W051									
W052									
W060									
W070									
W071									
W072									
W073									
W074									
W080									
W081									
W082									
W083									
W084									
W085									
W090									

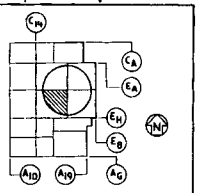
LINE NUMBER	CLASS PROJ.	CLASS ISI	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP	OPERT PRESS	OPERT. TEMP	INSUL. THKN.
11204-021	III	1	F60	6"	160	.719	SA312 TP304L	2485	650	2485	AMB	3.0
11204-021	III	1	F60	8"	160	.906	SA312 TP304L	2485	650	2485	AMB	3.0
11204-021	III	1	F60	12"	140	1.125	SA376 TP316	2485	650	2235	617	3.5


N
N.P.EL. 181'-5 8"
11201-049-(REF)
1-1201-049-12
FOR CONT SEE DWG. 1S1-11201 049
2-6 RED
SR. ELBOW
11204-021-H
11204-021-H
11204-021-H

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
1120U4121	CHECK VALVE	PIPING NOT CONTAINMENT	—	—	—	—	RS-10 [illegible]	—	—
1120-022-WOLD	SW	CIRC. WELD	1NB-2500-B	—	8940	—	RS-10 [illegible]	—	—
WOLE	BW			—	8921	—		—	—
WOLF	↓	↓	↓	—	↓	—	↓	—	—
WOLG				—		—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1120-022	1	111	FGO	2"	160	.344	SA-312 TP304L	2485	650	2485	A103	2.5





KEY PLAN
LEVEL "D"

LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ♦ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT

REFERENCE DRAWINGS:

P & ID _ _ _ _ _ _ _ _ _ 1X4DB121
FAB ISO _ _ _ _ _ _ _ _ 1K4-1204-197-02

PIPING LAYOUT DWG _ _ _ 1X4DL4006
CIVIL/STRUCTURAL _ _ _ 1X2D48A007
ISI PIPING CLASS. DWG. _ _ _ ISI-2D-046

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	DESCRIPTION
4	11-13-85	ADDED REF WELD E&G 45 ADDED FOR CONT.
3	3-15-85	ADDED NEW WELD NUMBERS REMOVED CONTINUATION NOTE REMOVED 1120-4-197-WLOG.1 (REF.) REMOVED 1120-022-W103.D
2	11-28-84	ADDED WELD & REF. WELD
1	11-15-84	REVISED WELD NUMBERS AND REFERENCES. ADDED REFERENCE WELD 1120-197-W HOLD
0	9-28-83	ISSUED FOR INSPECTION

Southern Company Services, Inc.
FOR
GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO.022
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

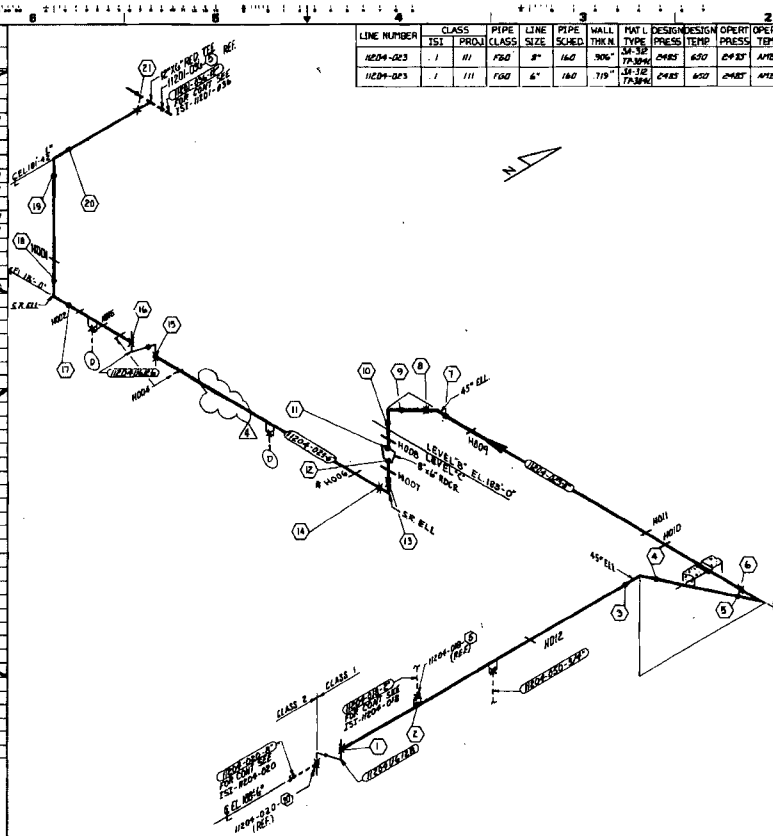
DT	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5
	CAB	WS	CWB			
BST	WS	CWD				
BGS	WS					
BST	WS					
DRC	WS					

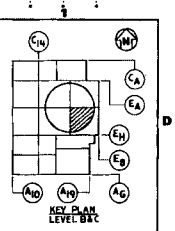
DESIGNED F.T. DRAWN DRC ENGINEER W.S.

SCALE NONE | FINISH LTR | DRAWING NUMBER ISI-1204-022 | REV 4

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP.	PART EXAMINED (SEE NOTE NO.1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF	VT1	VT2	VT3	VT4
11204-023-H001	CHECK VALVE	PIPE TO SUPPORT	—	—	—	—	PT-10 B5.10	—	—
11204-023-H002	↓	↓	—	—	—	—	↓	—	—
W-11204-023-H003	PIPE TO SUPPORT	COMPONENT SUPPORT	CWP-0000-1	—	—	—	—	F3.50	
H002	↓	↓		—	—	—	—	F3.50	
H004	PIPE TO SUPPORT	COMPONENT SUPPORT	CWP-0000-1	—	—	—	—	F3.50	
H005	SUPPORT			—	—	—	—	F3.50	
H006	SUPPORT			—	—	—	—	F3.50	
H007	SUPPORT			—	—	—	—	F3.50	
H008				—	—	—	—	F3.50	
H010	PIPE TO SUPPORT	COMPONENT SUPPORT		—	—	—	—	F3.50	
H011	SUPPORT	STRUCT. SUPPORT		—	—	—	—	—	
H012	PIPE TO SUPPORT	STRUCT. SUPPORT		—	—	—	—	F3.50	
H014	↓	↓		—	—	—	—	—	
H015	PIPE TO SUPPORT	COMPONENT SUPPORT		—	—	—	—	F3.50	F3.50
11204-023-W001	BW	CIRC. WELD	IWB-2500-8	B9.11	B9.11	—	B13.10 B13.11	—	—
W002						—		—	—
W003						—		—	—
W004						—		—	—
W005						—		—	—
W006						—		—	—
W007						—		—	—
W008						—		—	—
W009						—		—	—
W010						—		—	—
W011						—		—	—
W012						—		—	—
W013						—		—	—
W014						—		—	—
W015						—		—	—
W016						—		—	—
W017						—		—	—
W018						—		—	—
W019						—		—	—
W020						—		—	—
W021						—		—	—
W022						—		—	—
W023	PIPE TO PENETRATION	PIPE TO ANCHOR (SEE NOTE 2)	IWB-2500-10	—	B9.32	—		—	—
W024	BW	CIRC. WELD	IWB-2500-8	B9.11	B9.11	—		—	—
W025						—		—	—
W026						—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THK IN.	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP	OPERT PRESS	OPERT TEMP	INSUL. THKN.
11204-023	1	III	F60	8"	160	.906"	SA-312 TP304L	2485	650	2483	AMB.	3.0"
11204-023	1	III	F60	6"	160	.719"	SA-312 TP304L	2485	650	2485	AMB.	3.0"





LEGEND
1. ■ INDICATES FIELD WELD
2. ● INDICATES SHOP WELD
3. ◐ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
4. ⌃ INDICATES BRANCH CONNECTION WELD.
5. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:
P&ID _____ IX4DB121, 811
FAB ISO _____ IK4-1204-023-02/14 & 03/14
PIPING LAYOUT DWG. _____ IX4DL4A06 & A07
CIVIL/STRUCTURAL _____ IX2D4BA004.008 & F003
HANGER DETAIL DWG. _____ VI 1204-023-H001,2,4,5,6,7,8,9,10,11,12 & 15
F-SHEETS _____ F-13971,72,73,F5759 & 60

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP SEE BECHTEL DWG. AX4DR001 APPENDIX D.

REVISION	DATE	DESCRIPTION
4	11-19-92	REMOVED HANGER H003 PER PCR 92-005
3	5-21-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI
2	11-14-85	ADDED REF. WELDS NOS 5, 20, 6
1	3-19-85	ADDED: NEW WELD NO'S, NOTE 4, WELD 08.0
0	5-14-84	ISSUED FOR INSPECTION

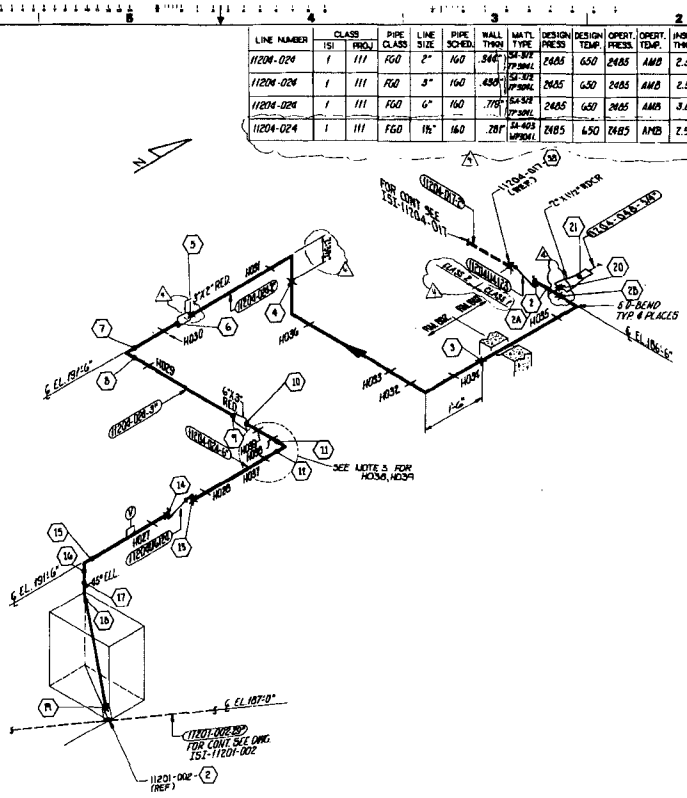
Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 023
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

DRAWN E.A.L. CHECKED WS
SCALE NONE
ISI-11204-023 REV. 4

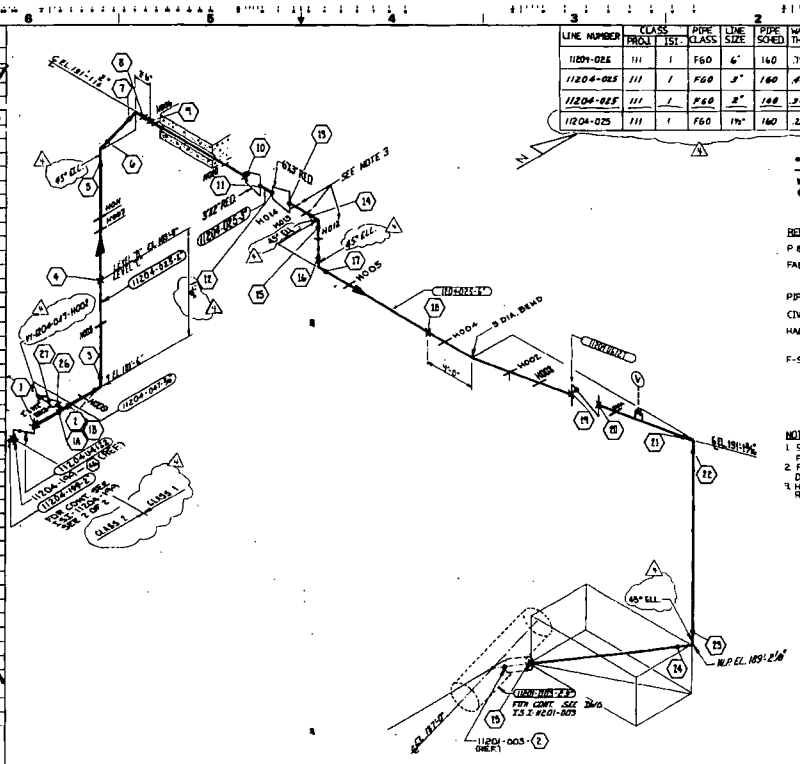
EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE 11)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204U4123	CHECK VALVE	PIPE SUP. REF COMPONENT	—	—	—	—	—	—	—
11204U4124				—	—	—	—	—	—
11204-024-H027	ANCHOR SCHED.	CONTAINMENT SUPPORT	INST-0008-1	—	—	—	—	—	—
H028	ANCHOR SCHED.			—	—	—	—	—	—
H029	ANCHOR SCHED.			—	—	—	—	—	—
H030	ANCHOR SCHED.	LINEAR SUPPORT		—	—	—	—	—	—
H031	ANCHOR SCHED.			—	—	—	—	—	—
H032	ANCHOR SCHED.	CONTAINMENT SUPPORT		—	—	—	—	—	—
H033	ANCHOR SCHED.			—	—	—	—	—	—
H034	ANCHOR SCHED.			—	—	—	—	—	—
H035	ANCHOR SCHED.	LINEAR SUPPORT		—	—	—	—	—	—
H036	ANCHOR SCHED.			—	—	—	—	—	—
H037	ANCHOR SCHED.	CONTAINMENT SUPPORT		—	—	—	—	—	—
H038	ANCHOR SCHED.			—	—	—	—	—	—
H039	ANCHOR SCHED.			—	—	—	—	—	—
11204-024-W01.B	B.W.	CLASS WELD	INST-0008-6	W01.11	B.W.	—	B.W.	—	—
W01.1				—	—	—	—	—	—
W01.2				—	—	—	—	—	—
W01.3				—	—	—	—	—	—
W01.4				—	—	—	—	—	—
W01.5				—	—	—	—	—	—
W01.6				—	—	—	—	—	—
W01.7				—	—	—	—	—	—
W01.8				—	—	—	—	—	—
W01.9				—	—	—	—	—	—
W01.10				—	—	—	—	—	—
W01.11				—	—	—	—	—	—
W01.12				—	—	—	—	—	—
W01.13				—	—	—	—	—	—
W01.14				—	B.W.	—	—	—	—
W01.15				—	—	—	—	—	—
W01.16				—	—	—	—	—	—
W01.17				—	—	—	—	—	—
W01.18	S.W.	CLASS WELDS	SNB-2500-6	—	SW40	—	SW.80	—	—
W01.19	B.W.			—	B.W.	—	B.W.	—	—
W01.20				—	—	—	—	—	—
W01.21				—	—	—	—	—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-024	1	III	FG0	2"	160	.344"	SA-376 TP304L	2485	650	2485	AMB	2.5"
11204-024	1	III	FG0	3"	160	.438"	SA-376 TP304L	2485	650	2485	AMB	2.5"
11204-024	1	III	FG0	6"	160	.719"	SA-376 TP304L	2485	650	2485	AMB	3.0"
11204-024	1	III	FG0	1½"	160	.281"	SA-403 WP304L	2485	650	2485	AMB	2.5"


N
FOR CONT. SEE ISI-11204-011
11204-011 (REF.)
2"x2" RED.
H030
H029
H028
H036
H035
H034
H033
H032
H031
H027
H037
H038
H039
11204-024-W01.1
11204-024-W01.2
11204-024-W01.3
11204-024-W01.4
11204-024-W01.5
11204-024-W01.6
11204-024-W01.7
11204-024-W01.8
11204-024-W01.9
11204-024-W01.10
11204-024-W01.11
11204-024-W01.12
11204-024-W01.13
11204-024-W01.14
11204-024-W01.15
11204-024-W01.16
11204-024-W01.17
11204-024-W01.18
11204-024-W01.19
11204-024-W01.20
11204-024-W01.21
6"x3" RED.
1½" RED.
1½"
1½"
1½"

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204U4122	GATE VLVE	PIPING	—	—	—	—	B5.10 B6.10	—	—
11204U6127				—	—	—		B12.40	—
VI-1204-025-H001	MECHANICAL SNUBBER	TEMPORARY SUPPORT	DWF-1209-1	—	—	—	—	B3.90 B3.100 B3.110	F3.50
H002				—	—	—	—	B3.90 B3.100 B3.110	—
H003	RIGID RESTRAINT			—	—	—	—	B3.90 B3.100 B3.110	—
H004	RIGID RESTRAINT	CONSTANT SUPPORT		—	—	—	—	B3.90 B3.100 B3.110	—
H005				—	—	—	—		—
H006				—	—	—	—		—
H007	RIGID RESTRAINT	TEMPORARY SUPPORT		—	—	—	—	B3.90 B3.100 B3.110	F3.50
H008	RIGID RESTRAINT			—	—	—	—		—
H009	RIGID RESTRAINT	CONSTANT SUPPORT		—	—	—	—	B3.90 B3.100 B3.110	—
H010				—	—	—	—		—
H011	RIGID RESTRAINT	TEMPORARY SUPPORT		—	—	—	—	B3.90 B3.100 B3.110	—
H012	RIGID RESTRAINT			—	—	—	—		—
H013	RIGID RESTRAINT			—	—	—	—		—
H014	RIGID RESTRAINT			—	—	—	—		—
11204-025-W01.0	B.W.	PIPE WELD	DWF-1200-8	B9.11	B9.11	—	B12.50 B12.51	—	—
W01.1						—		—	—
W01.2						—		—	—
W01.3						—		—	—
W01.4						—		—	—
W02.0						—		—	—
W03.0						—		—	—
W04.0						—		—	—
W04.1						—		—	—
W04.2						—		—	—
W04.3						—		—	—
W04.4						—		—	—
W04.5						—		—	—
W04.6				—	B9.21	—		—	—
W04.7						—		—	—
W102.0	S.W.			—	B9.40	—	B12.50 B12.51	—	—
W102.1	S.W.			—	B9.21	—		—	—
W002.0				—		—		—	—
W004.0				—		—		—	—
W004.2				—		—		—	—
W004.3				—		—		—	—
W004.4				—		—		—	—
W005.0				—		—		—	—
W006.0				—		—		—	—
W007.0				—		—		—	—

LINE NUMBER	CLASS PROJ	CLASS ISI	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT PRESS.	OPERT TEMP.	INSUL. THKN.
11204-025	III	1	F60	6"	160	.719"	SA-312 TP-304L	2485	650	2485	AMB	3.0"
11204-025	III	1	F60	3"	160	.438"			650	2485		2.5"
11204-025	III	1	F60	2"	160	.344"			650	2485		2.5"
11204-025	III	1	F60	1½"	160	.281"	SA403 WP304L	2485	630	2485	AMB	2.5"



LEGEND

- ● INDICATES SHOP WELD
- — INDICATES PIPE SUPPORT
- N INDICATES FIELD WELD
- ◐ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.

REFERENCE DRAWINGS:

P & ID _____ 1X408121

FAB. ISO _____ 1K4-1204-025-02/11
1K4-1204-199-02/2
1K4-1204-025-09/7

PIPING LAYOUT DWG. _____ 1X4DL4C06

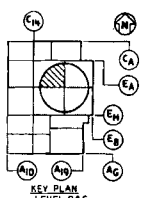
CIVIL/STRUCTURAL _____ 1X2048000

HANGER DETAIL DWGS. _____ VI-1204-025-H001 THRU H014, VI-1204-047 CH002

F-SHEETS _____ F-14003
F-14004
F-14005

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP SEE BECHTEL DWG. A1X0R001 APPENDIX D (LINO.)
3. HANGERS NO. H012, H013 & H014 MUST BE REMOVED FOR PIPE WELD INSPECTION.



REVISION	DATE	
4	3-21-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI. ADDED HANGER VI-1204-047-H002
3	11-14-85	ADDED: NEW WELD NO'S, REDUCER & FLOW RESTRICTION, R.H.40-080 H019.
2	3-19-85	ADDED NEW WELD NO'S
1	11-14-84	REMOVED S.W. COUPLINGS (TYP 2 PLACES) DELETED WELDS 10A.1 AND 10A.1 ADDED AS FIELD WELDS 10A.0 & 10B.0 ADDED AS A REF WELD 10A.0 REVISED DIMENSION ON W010 ADDED H014 TO LEGEND, CAL BLOCK AND CLASSIFICATION DWG. NO'S TO REF. DWGS.
0	10-27-83	ISSUED FOR INSPECTION

Southern Company Services, Inc.

Georgia Power Company

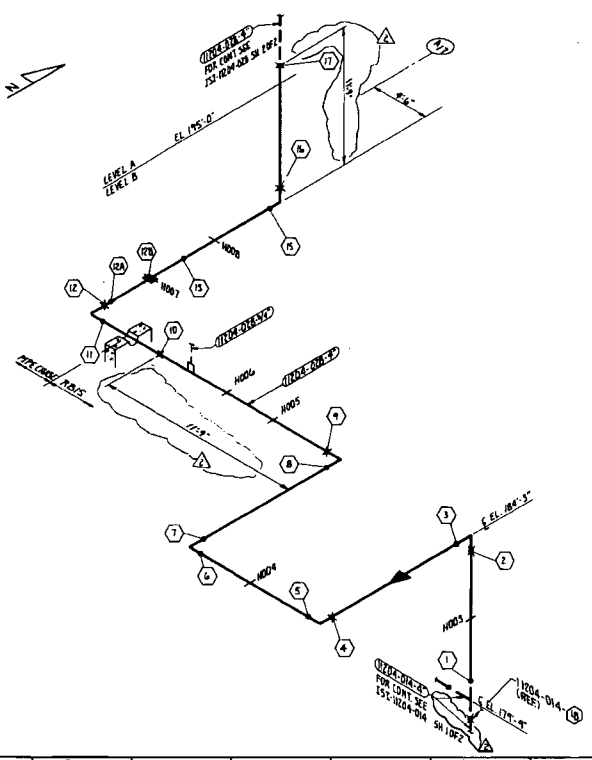
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO.025
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

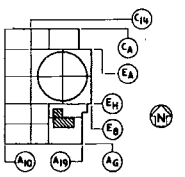
DESIGNED FT DRAWN RGG REVIEWED W.B.

SCALE NONE — ISI-11204-025 — REV 4

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204-028-H005	S. SUP. RESTRAINT	LINEAR SUPPORT	IWF-1300-1	—	—	—	—	F1.10 F1.10	—
H004	1 OTR. RESTRAINT			—	—	—	—		—
H005				—	—	—	—		—
H006				—	—	—	—		—
H007	2 OTR. RESTRAINT			—	—	—	—		—
H008	1 OTR. RESTRAINT			—	—	—	—		—
11204-028-W001	B.W.	CIRC. WELD	IWC-2500-7	C5.21	C5.21	—	C5.10 C5.21	—	—
W002						—		—	—
W003						—		—	—
W005.0						—		—	—
W005.1						—		—	—
W005.3						—		—	—
W006.0						—		—	—
W007.0						—		—	—
W16.0						—		—	—
W16.1						—		—	—
W16.2						—		—	—
W17.0						—		—	—
W17.1						—		—	—
W17.2						—		—	—
W17.3						—		—	—
W17.4						—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-028	2	212	GGO	4"	80S	.337"	SA-312 TP304L	1750	200	1470	206	(PARTIAL)





KEY PLAN
LEVEL A & B

LEGEND:

1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ♦ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID _____ IX4DB121
FAB ISO _____ IK3-1204-028 01/15
PIPING LAYOUT DWG _____ IX4DL3605, H04, H04-1
CIVIL/STRUCTURAL _____ AX2D08A057
HANGER DETAIL DWG _____ VI-1204-028-H009 THRU H008
F-SHEETS _____ F-1908, F-1909, F-1310 F-11468

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 5-27-87	REVISION 1	DATE 6-10-86	REVISION 0	DATE 11-18-85
						GENERAL REVISION TO UPDATE DWG FOR ISI		DELETED WELD 14 DELETED WALL DELETED FLOOR ADDED ROOM NO		ISSUED FOR INSPECTION	
BY	BKG	BJT	CWD	BKG	WJ	CWD					

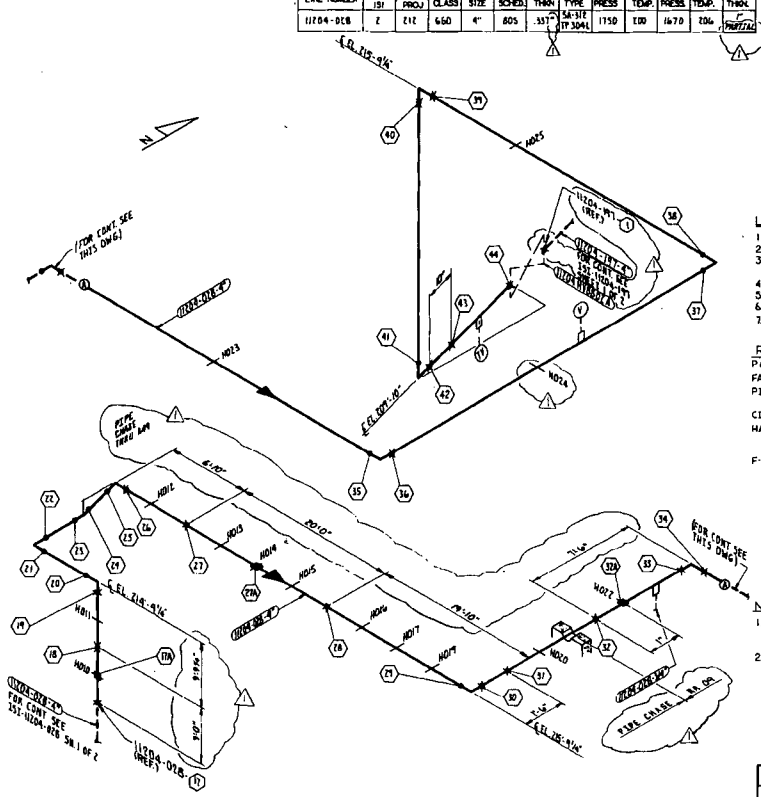
Southern Company Services, Inc.
FOR
GEORGIA POWER COMPANY

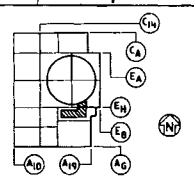
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO 028
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

DESIGNED CWD DRAWN BKG CHECKED WS
SCALE NONE | SH 1 OF 2 | PROJECT I.D. | DRAWING NUMBER ISI-11204-028 | REV. 2

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
SI-1204-028 ROD	3 DIA. RESTRAINT	LINEAR SUPPORT	ZWF-1300-1	—	—	—	—	F7.79 F7.80	—
H011	1 DIA. RESTRAINT			—	—	—	—		—
H012				—	—	—	—		—
H013	1 DIA. RESTRAINT			—	—	—	—		—
H014	1 DIA. RESTRAINT			—	—	—	—		—
H015	1 DIA. RESTRAINT			—	—	—	—		—
H016	1 DIA. RESTRAINT			—	—	—	—		—
H018				—	—	—	—		—
H019	1 DIA. RESTRAINT			—	—	—	—		—
H020	1 DIA. RESTRAINT			—	—	—	—		—
H022	1 DIA. RESTRAINT			—	—	—	—		—
H023	1 DIA. RESTRAINT			—	—	—	—		—
H024				—	—	—	—	F7.8 F7.81	—
H025	1 DIA. RESTRAINT			—	—	—	—		—
11204-028-W07.0	8 W.	CIRC. WELD	ZC-2500-1	C5.21	C5.21	—	C7.18 C7.21	—	—
W07.1								—	—
W08.0								—	—
W08.1								—	—
W08.2								—	—
W08.3								—	—
W08.4								—	—
W08.5								—	—
W08.6								—	—
W08.7								—	—
W09.0								—	—
W10.0								—	—
W10.1								—	—
W11.0								—	—
W12.0								—	—
W13.0								—	—
W13.1								—	—
W13.2								—	—
W13.3								—	—
W13.4								—	—
W13.5								—	—
W13.6								—	—
W13.7								—	—
W13.8								—	—
W13.9								—	—
W13.10								—	—
W14.0								—	—
W17.0								—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-028	2	212	660	4"	80S	.337	SA-312 TP 304L	1750	100	1470	206	PERITAC





KEY PLAN
LEVEL A

LEGEND:

1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ● INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ⌓ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID _____ IX4DB121
FAB. ISO. _____ IK3-1204-028-03/21
PIPING LAYOUT DWG. _____ IXNDL3G03, G04, G05, H04, H04-1
CIVIL/STRUCTURAL _____ AX2008A060
HANGER DETAIL DWG. _____ VI-1204-028-H010 THRU H017, H019, H020, H022 THRU H025
F-SHEETS _____ F-4375 THRU F-4381

NOTES:

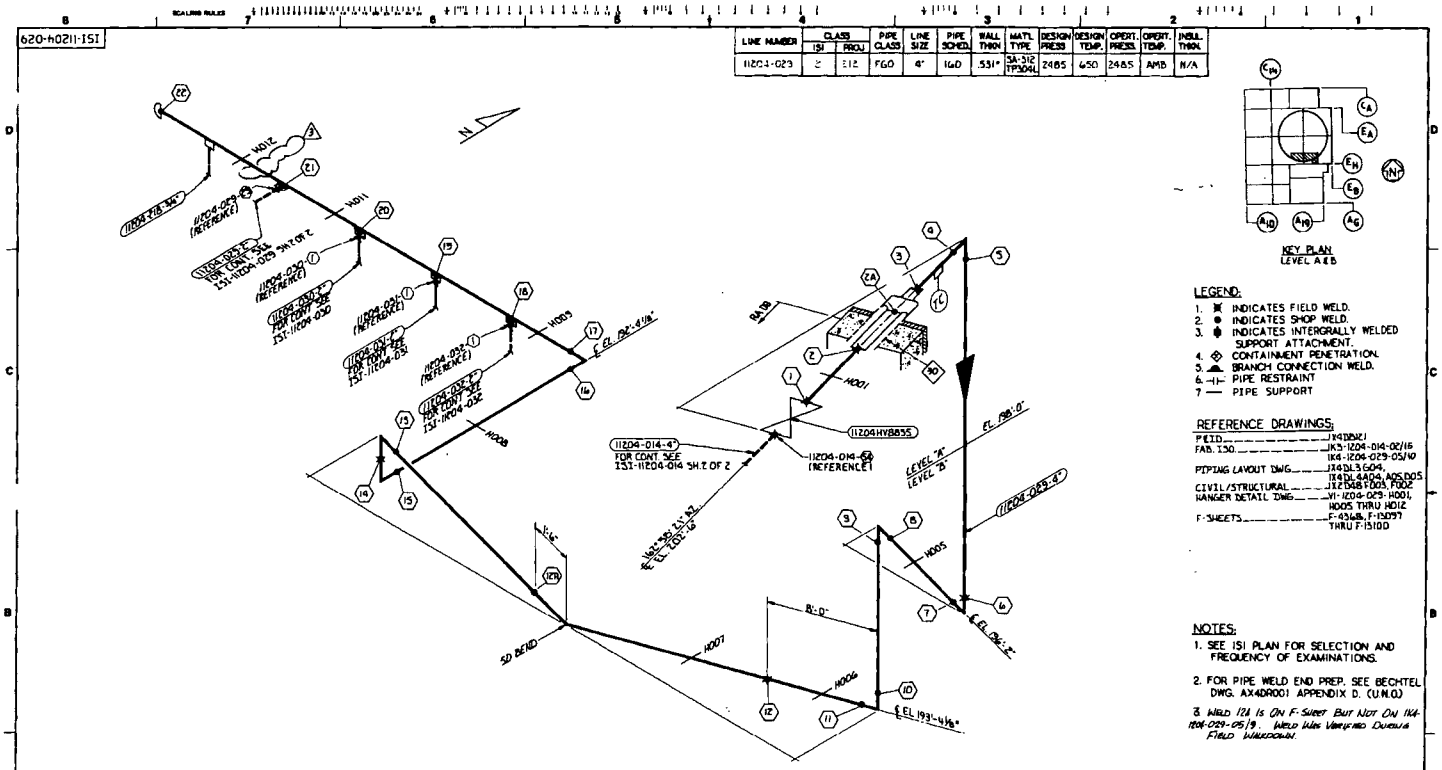
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 1	DATE 5-28-87	REVISION 0	DATE 11-15-85
								GENERAL REVISION TO UPDATE DRAWING FOR ISI		ISSUED FOR INSPECTION	

BY	CHK'D	APPR.1	APPR.2	APPR.3	APPR.4	BY	CHK'D	APPR.1	APPR.2	APPR.3	APPR.4	BY	CHK'D	APPR.1	APPR.2	APPR.3	APPR.4	BY	CHK'D	APPR.1	APPR.2	APPR.3	APPR.4	BY	CHK'D	APPR.1	APPR.2	APPR.3	APPR.4	BY	CHK'D	APPR.1	APPR.2	APPR.3	APPR.4

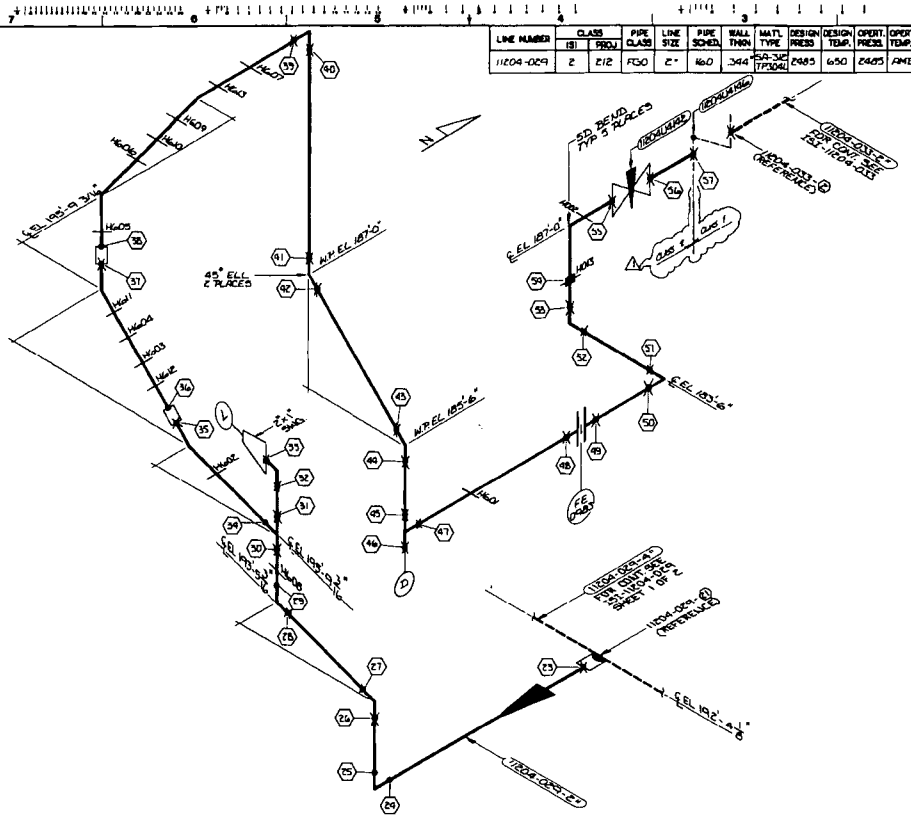
620-H0211-1S1

LINE NUMBER	CLASS 1SI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-029	2	212	F60	4"	160	.531"	SA-312 TP304L	2485	650	2485	AMB	N/A


N
H012
H011
H009
H008
H007
H006
H005
H001
11204-029-4"
11204-029-4"
11204-029-4"

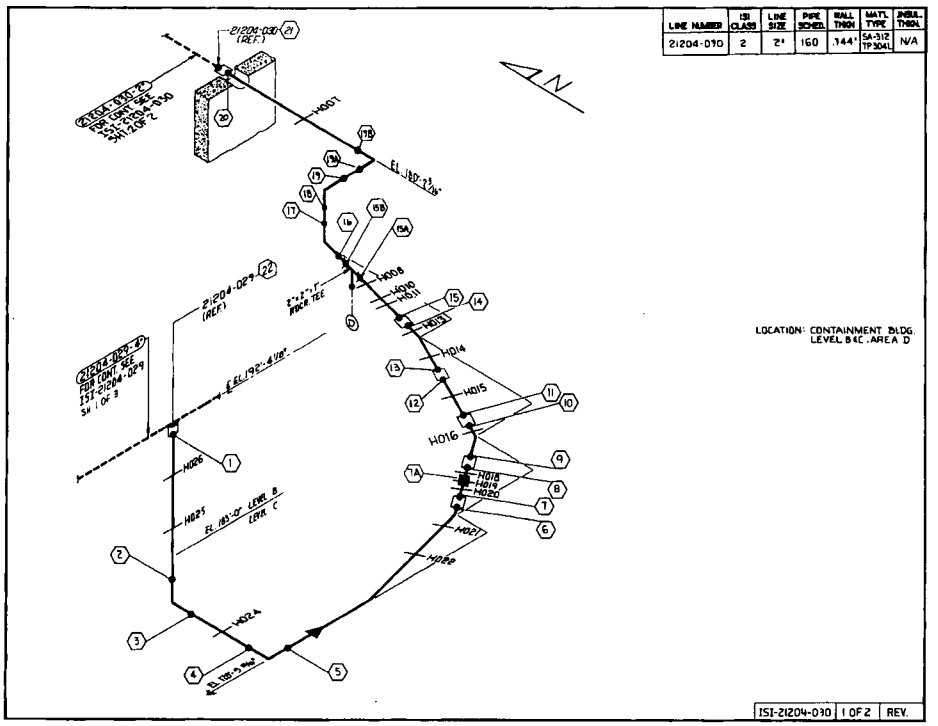
ISI-1204-029

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1204-029	2	212	F30	2"	160	.344"	SA-312 TP304L	2485	650	2485	2418	N/A


N
45° ELL. 2 PLACES
N.P. EL. 187'-0"
N.P. EL. 185'-6"
E EL. 187'-0"
E EL. 185'-6"
E EL. 193'-9 3/4"
E EL. 193'-9 3/4"
E EL. 192'-4 1/8"
SD BEND TYP 5 PLACES
2"x1" SWAGE
1204-029-2
1204-029-2
1204-029-2

ISI-21204-030

LINE NUMBER	ISI CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	INSUL THKN.
21204-030	2	2"	160	.344"	SA-312 TP304L	N/A



LOCATION: CONTAINMENT BLDG.
LEVEL B&C, AREA D

REFERENCES:
P&I D.--------2X4DB121
FAB. ISO.--------2H4-1204-030-03

HANGERS--------

ISI-21204-030 | 1 OF 2 | REV.

REVISION	DATE	
2	6-28-88	ADDED WELD 7A AND DELETED HANGERS H009, H017, H023 AND REFERENCES
1	4-28-87	ADDED WELDS 15A 15B & DRAIN
0	12-29-86	ISSUED FOR INSPECTION

	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5
	JWA	DWL	TEW				
	RLB	RMSH	DGC				
	EJO	WS	CWD				

Southern Company Services, Inc.

Georgia Power Company

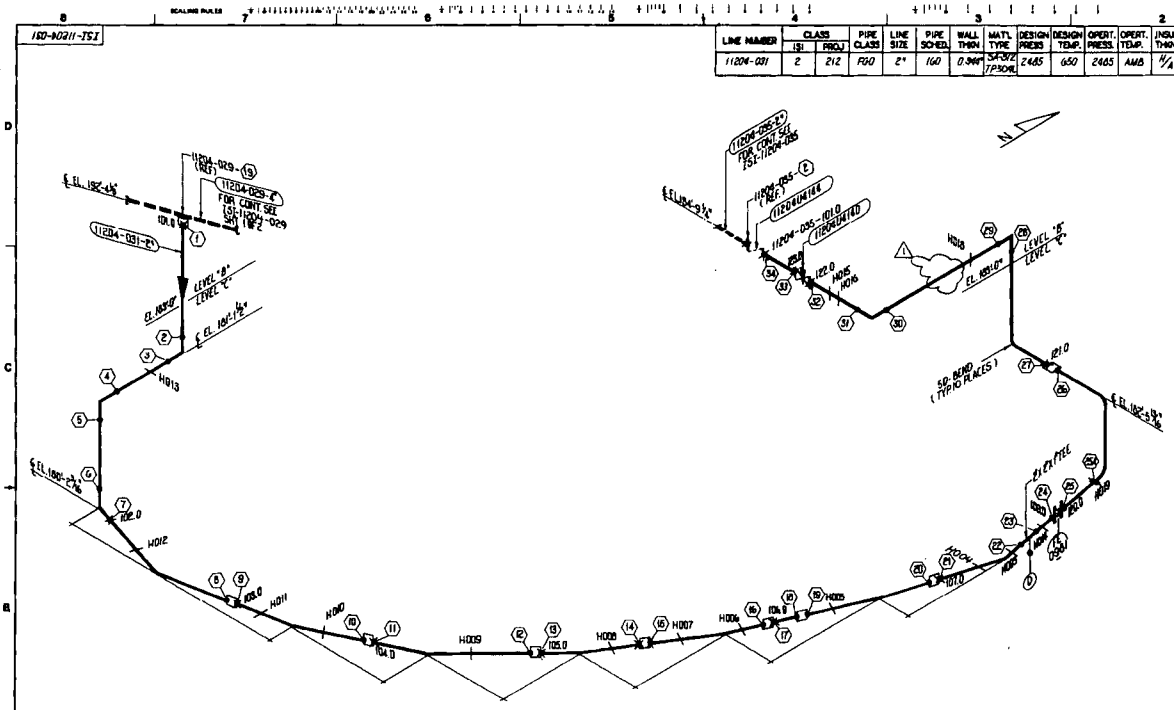
VOGTLE ELECTRIC GENERATING PLANT
UNIT 2-LINE NO. 030
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION - SYS. 1204

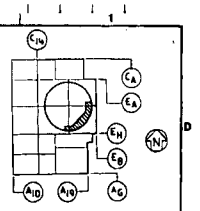
DESIGNED CWD | DRAWN EJO | REVIEWED WS

SCALE NONE | SHEET 1 | PROJECT I.D. 2 | DRAWING NUMBER ISI-21204-030 | REV.

ISO-NO311-ISI

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-031	2	212	F00	2"	160	0.940"	SA-312 TP304L	2485	650	2485	AMB	1/2





LEGEND:

1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P&I.D. _____ 1X4DB121
FAB ISO _____ 1X4-1204-031-01
PIPING LAYOUT DWG. _____ 1X4DL4ADT007 006,005,006,007
CIVIL / STRUCTURAL _____ 1X2048A007
HANGER DETAIL DWG _____ VI-1203-031-H001 THRU H019.

ISI CLASS DWG _____ ISI-D-046

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 0	DATE 11-18-92
								REMOVED HANGER H017 PER PCE 92-006		ISSUED FOR INSPECTION	

Southern Company Services, Inc.
for
Georgia Power Company

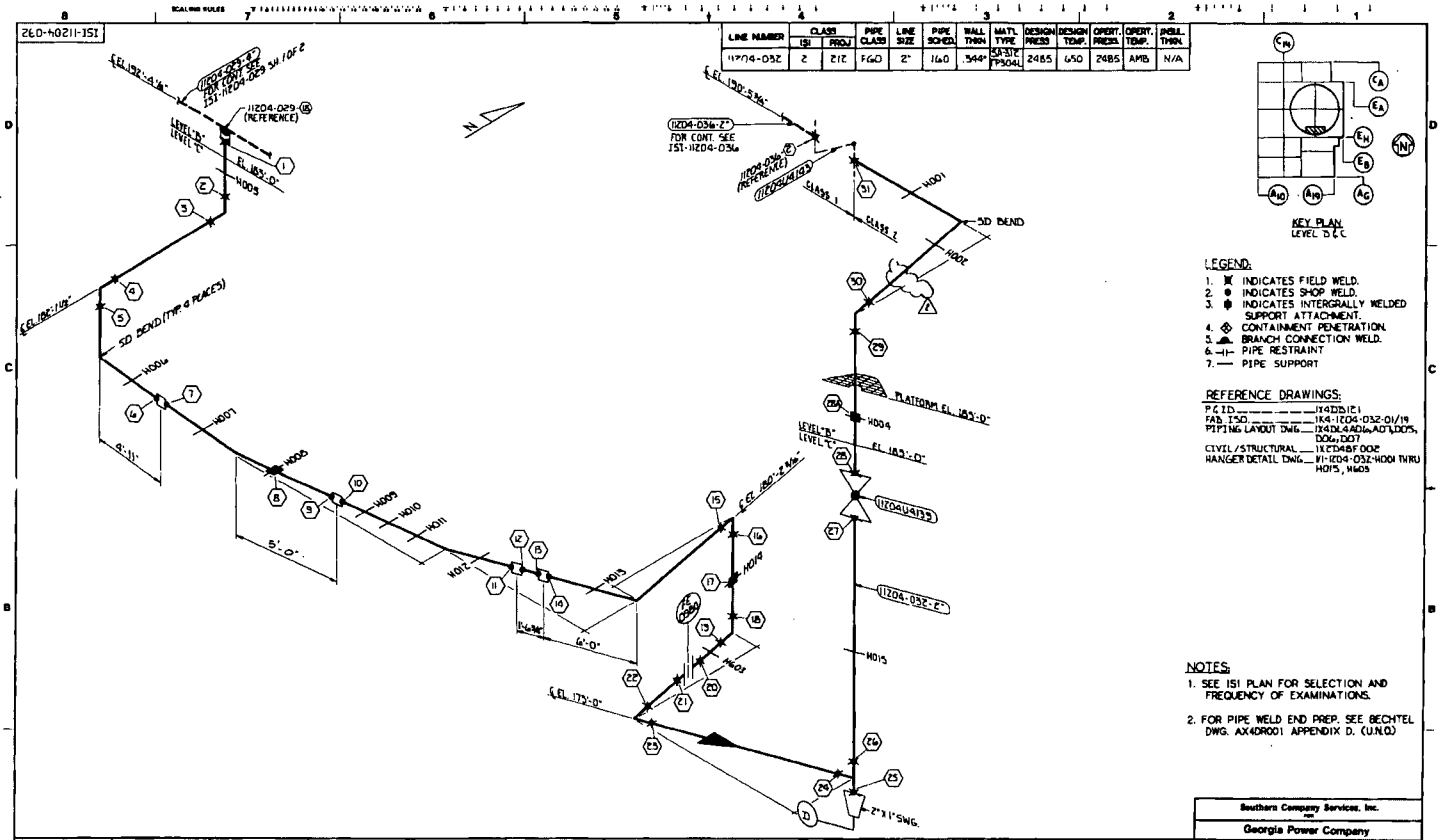
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1–LINE NO. 031
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION–SYSTEM 1204

DRAWN CRD CHECKED CSB APPROVED BST

SCALE NONE | DRAWING NUMBER ISI-11204-031 | REV 1

ISI-11204-032

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-032	2	212	FG0	2"	160	.344"	SA-312 TP304L	2485	650	2485	AMB	N/A



LEGEND:
1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. PIPE SUPPORT

REFERENCE DRAWINGS:
P&ID ____ 1X4DB121
FAB. ISO. ____ 1X4-11204-032-01/19
PIPING LAYOUT DWG. ____ 1X4DL4A01, A07, D05, D06, D07
CIVIL/STRUCTURAL ____ 1X2D4BF002
HANGER DETAIL DWG. ____ 11-1204-032-H001 THRU H015, H605

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 11-19-92	REVISION 1	DATE 5-27-87	REVISION 0	DATE 11-18-85
						REMOVED HANGER H003 PER RCE 92-005		GENERAL REVISION TO UPDATE DRAWING FOR ISI		ISSUED FOR INSPECTION	

Southern Company Services, Inc.

Georgia Power Company

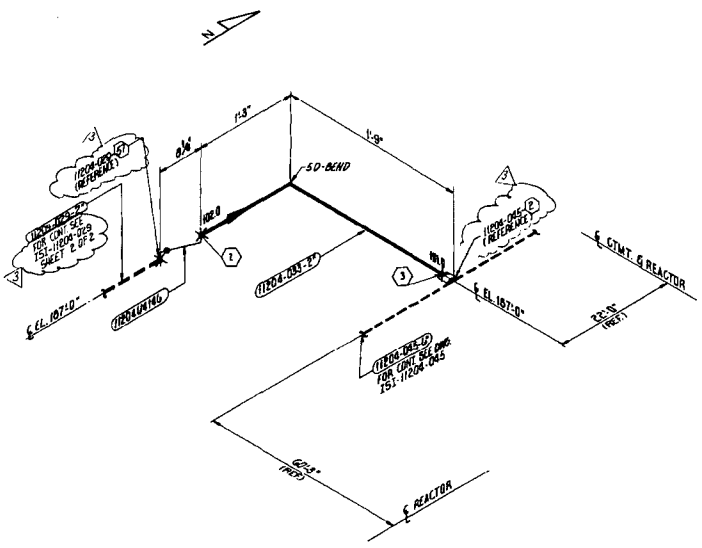
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 032
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

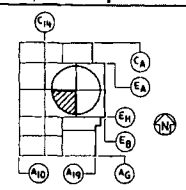
DRAWN CWD | CHECKED BKG | APPROVED WS

SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-11204-032 | REV. 2

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
1120404146	CATCH VALVE	CHECK VALVE BODY	—	—	—	—	[illegible]	—	—
11204-053-WELD	B.W.	PIPE	1200-2000-8	—	83.21	—	[illegible]	—	—
11204-055-WELD	S.W.	↓	↓	—	83.40	—	↓	—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-033	1	111	FG0	2"	160	0.344	304 SS SEAMLESS	2485	650	2485	AMB	1.0





KEY PLAN
LEVEL "B"

LEGEND:

1. ✱ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ⬢ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ⌓ BRANCH CONNECTION WELD.
6. ⊣⊢ PIPE RESTRAINT
7. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P&I.D. _____ 1X4DB121
FAB ISO. _____ 1N4-1204-029-03
PIPING LAYOUT DWG. _____ 1X4DL4006
CIVIL / STRUCTURAL _____ 1X204BF002
ISI PIPING CLASSIFICATION DWG. ___ ISI - D - 046

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
				8	11-16-85	7	3-15-85	1	7-24-84
				ADDED REF WELD NOS. 2 & 57 ADDED CONT. NO.		ADDED NEW WELD NO'S		CHANGED WELD NO'S 013 TO 1013, 023 TO 1023. ADDED WELD NO. 1033. ADDED TO LEGEND NOTE NO. 7 ADDED TO REFERENCE ISI CLASSIFICATION NO. ISI-D-046.	
BY	CHK'D	BY	CHK'D	BY	CHK'D	BY	CHK'D	BY	CHK'D
				CAP	WS	DLG	WS	CAP	WS

REVISION 0 — DATE 11-10-83
ISSUED FOR INSPECTION
BY GSB — CHK'D WS

Southern Company Services, Inc.

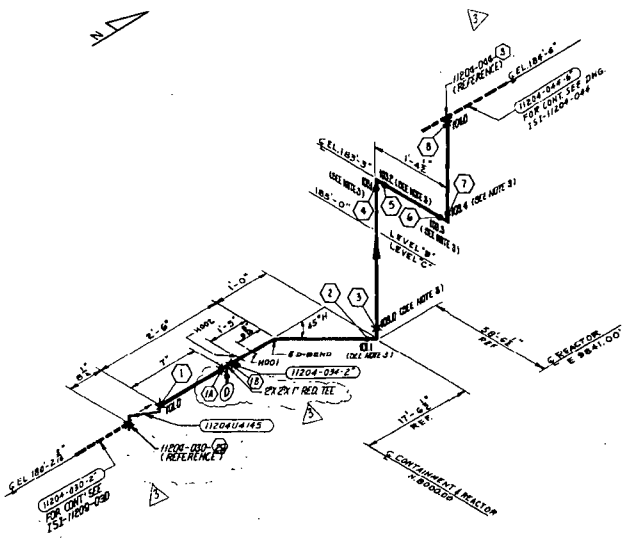
GEORGIA POWER COMPANY

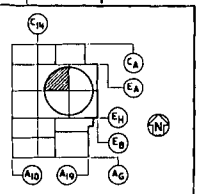
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO.033
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

DRAWN FT — DESIGNED GSB — REVIEWED WS
SCALE NONE — PROJECT NO. — DRAWING NUMBER ISI-11204-033 — REV. 3

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204U4145	CARBON VALVE	PIPE TO COMPONENT	—	—	—	—	B12.74 B12.11	—	—
VI-1204-034-H001	C-STR. SUPPORT	LINEAR SUPPORT	INF-1100-1	—	—	—	—	F2.20 F2.30	—
VI-1204-034-H002	VERTICAL C-STR. SUPPORT	VERTICAL SUPPORT	INF-1100-1	—	—	—	—	F2.20 F2.30	F2.20
11204-034 WELD	S.W.	CIRC. WELD	IND-2500-5	—	B9.40	—	B12.20 B12.21	—	—
WELD 1	B.W.			—	B9.21	—	—	—	—
WELD 2						—	—	—	—
WELD 3						—	—	—	—
WELD 4						—	—	—	—
WELD 5						—	—	—	—
WELD 6						—	—	—	—
WELD 7						—	—	—	—
WELD 8						—	—	—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-034	1	III	F60	2"	160	.344	SA-312 TP316L	2485	650	2485	AMB.	1.0"





LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊕ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID _____ IX4DB121

FAB. ISO. _____ 1X4-1204-030-02

PIPING LAYOUT DWG. ___ IX4DL4C06&C07

CIVIL/STRUCTURAL ___ IX2D48A005, B005

HANGER DETAIL DWG. ___ VI-1204-034-H001 & H002

ISI CLASSIFICATION DWG. ___ ISI-D-046

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)
3. THESE WELDS ARE NUMBERED ON THE REF. FAB AS FOLLOWS:
   1013- H
   1031- J
   1032- K
   1033- L
   1034- M

REVISION	DATE	
5	11-16-85	ADDED REF. TEE ADDED REF. WELD NO'S 8 & 09 ADDED FOR CONT. ADDED WELDS 1A & 1B
2	3-15-85	ADDED NEW WELD NUMBERS CHANGED ISI&IL THICKNESS. REVISED REFERENCES
1	7-24-84	ADDED TO LEGEND NOTE 7 & NOTE 8 TO NOTES CHANGED TW REFERENCE 1A6 TO 1B6 CHANGED 3 D-BEND TO BEND 8 D-BEND RENUMBERED ALL WELD NUMS.
0	7-7-83	ISSUED FOR INSPECTION

Southern Company Services, Inc.

GEORGIA POWER COMPANY

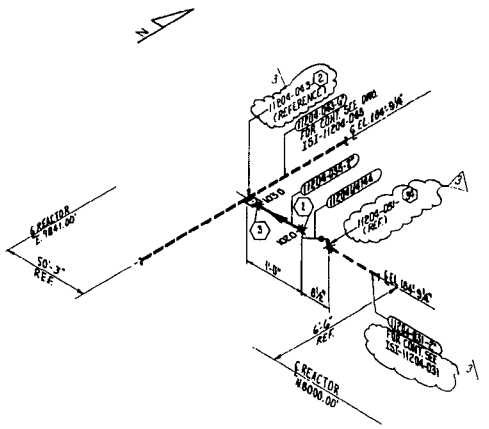
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 034
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

DRAWN BY RCS — DESIGNED BY WS

SCALE NONE — DRAWING NUMBER ISI-11204-034 — REV 3

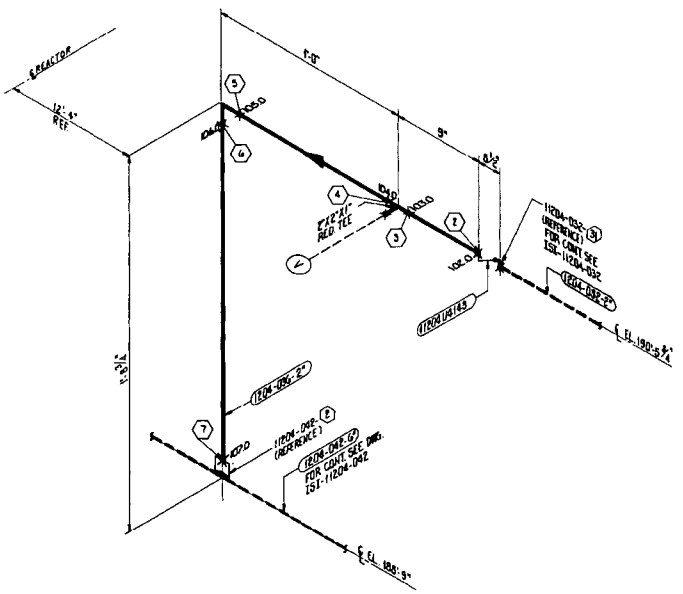
EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204U4148	CHECK VALVE	PRESSURE BOUNDARY	—	—	—	—	VT2-11 B6.11	—	—
11204-055-1802D	S.W.	CIRC WELD	IWB-2500-8	—	B9.40	—	B9.31	—	—
WCOD	B.W.			—	B9.21	—		—	—

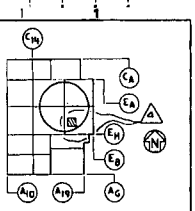
LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-035	I	III	FD0	2"	160	0.344"	304-316 TP304L	2485	650	2485	AMB	1.0"



EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204U4143	CHECK VALVE	PIPING & COMPONENT	—	—	—	—	B-M 13.11	—	—
11204-036 WE02.0	S.W.	CIRC. WELD	CW1-7500-1	—	B9.40	—	B9.10 B9.31	—	—
WE03.0	F.W.			—	B9.21	—	—	—	—
WE04.0				—		—		—	—
WE05.0				—		—		—	—
WE06.0				—		—		—	—
WE07.0				—		—		—	—

LINE NUMBER	CLASS (SI)	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-036	1	111	FG0	2"	160	0.344"	SA-376 TP-304L	2485	650	2485	AMB	1.0"





KEY PLAN
LEVEL "B"

LEGEND:
1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ⌓ BRANCH CONNECTION WELD.
6. ⊣⊢ PIPE RESTRAINT

REFERENCE DRAWINGS:
P&I.D. ——— 1X4DB121
FAB ISO. ——— 1X4-1204-032-01
PIPING LAYOUT DWG. ——— 1X4DL4006
CIVIL STRUCTURAL ——— 1X2048F002
ISI PIPING CLASS DWG. ——— ISI-D-046

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	
4	6-12-86	REVISED KEY PLAN
3	11-14-85	ADDED REF. WELDS NO'S 2 & 31 ADDED FOR CONT. CHANGED DIM. & ELEVATION
2	3-15-85	ADDED NEW WELD NO'S
1	11-15-84	REVISED WELDING NUMBERS. REMOVED F-SHEET DESIGNATION FROM REFERENCES. CHANGED INSUL. THKN. ADDED ISI PIPING CLASSIFICATION DRAWING TO REFERENCES.
0	7-7-83	ISSUED FOR INSPECTION

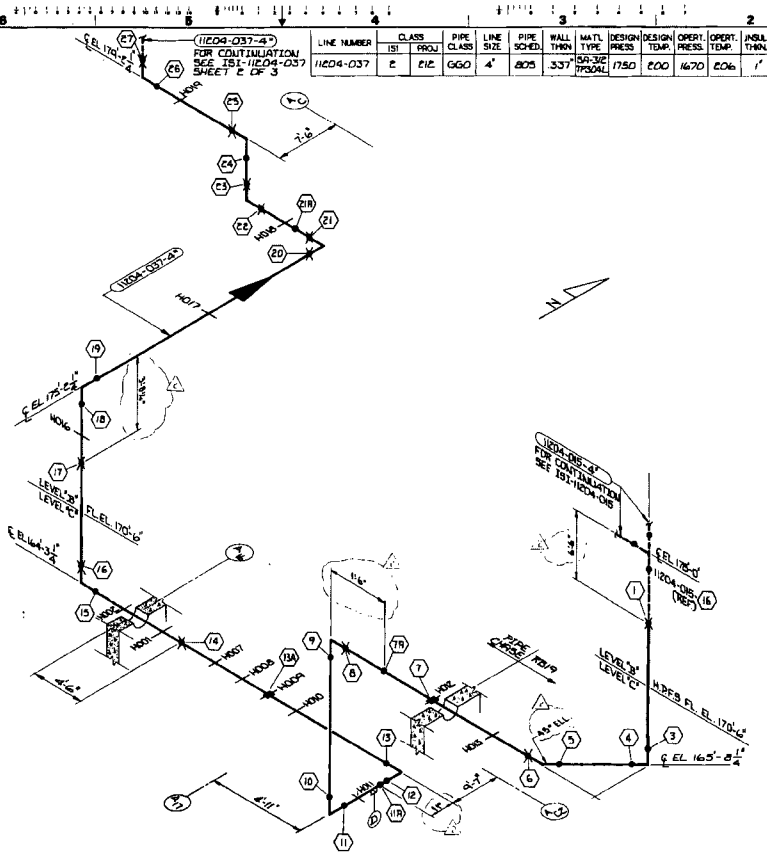
BY	CHK'D	APPR.1	APPR.2	APPR.3	APPR.4	APPR.5
BST	WS	CLB				
CLB	WS	CLB				
RLG	WS	CLB				
BST	WS	H				
C.S.B.	R.L.S.	H				

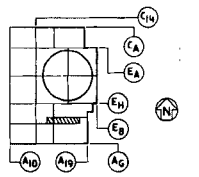
Southern Company Services, Inc.
AND
GEORGIA POWER COMPANY
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 036
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

DESIGNED F.T. DRAWN C.S.B. CHECKED W.S.
SCALE NONE
DRAWING NUMBER ISI-11204-036 REV. 4

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT F(G)	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204-037-H004	2-PIPE RESTRAINT	1-LINEAR SUPPORT	INF-1300-1	—	—	—	—	F2.50 F8.30	—
H002	ONE PIPE RESTRAINT			—	—	—	—	F2.50 F2.30	—
H007	2-PIPE RESTRAINT			—	—	—	—	F2.30	—
H008				—	—	—	—	F2.30	—
H009	2-PIPE RESTRAINT			—	—	—	—	F2.30	—
H010	2-PIPE RESTRAINT			—	—	—	—	F2.30	—
H011	ONE PIPE RESTRAINT			—	—	—	—	F2.50 F2.30	—
H012	3-PIPE RESTRAINT			—	—	—	—	F2.50 F2.30	—
H013	3-PIPE RESTRAINT			—	—	—	—	F2.50 F2.30	—
H016	2-PIPE RESTRAINT	1-LINEAR SUPPORT	INF-1300-1	—	—	—	—	F2.50 F8.30	—
H017				—	—	—	—		—
H018				—	—	—	—		—
H019				—	—	—	—		—
11204-037-B010	B.W.	CIRC. WELD	INF-2500-7	C5.21	C5.21	—	C5.20 C5.21	—	—
W011							—	—	—
W012							—	—	—
W013							—	—	—
W014							—	—	—
W015							—	—	—
W020							—	—	—
W021							—	—	—
W030							—	—	—
W031							—	—	—
W040							—	—	—
W041							—	—	—
W050							—	—	—
W051							—	—	—
W140							—	—	—
W141							—	—	—
W142							—	—	—
W143							—	—	—
W144							—	—	—
W145							—	—	—
W146							—	—	—
W147							—	—	—
W150							—	—	—
W151							—	—	—

LINE NUMBER	CLASS 1ST	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-037	E	E12	GG0	4"	80S	.337"	SA-312 TP304L	1750	200	1670	206	1"





KEY PLAN
LEVELS "A" & "C"

LEGEND:

1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ♦ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & I.D. ——— IX4DB161
FAB. ISO. ——— IK3-1204-037-01/14, IK3-1204-037-02/10.1
PIPING LAYOUT DWG. ——— IX4DL3H05-1, E05-1, E04
CIVIL/STRUCTURAL ——— AX2D08AD28, 071, 073
HANGER DETAIL DWG. ——— VI-1204-037-H001, H002, H007 THRU H013, H016 THRU H019
F-SHEETS ——— F-2345, 23047, 9773, 9732, 10879, 11469

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 5-27-87	REVISION 1	DATE 6-10-86	REVISION 0	DATE 11-13-81
						GENERAL REVISION TO UPDATE DRAWING FOR ISI		ADDED WELDS 7A, 11A, & 21A		ISSUED FOR INSPECTION	
BY	CHK'D	APPR.1	APPR.2	APPR.3	APPR.4	RCB	GLD	SGC	BKG	BST	CLW	BST	BKG	C-W

Southern Company Services, Inc.

GEORGIA POWER COMPANY

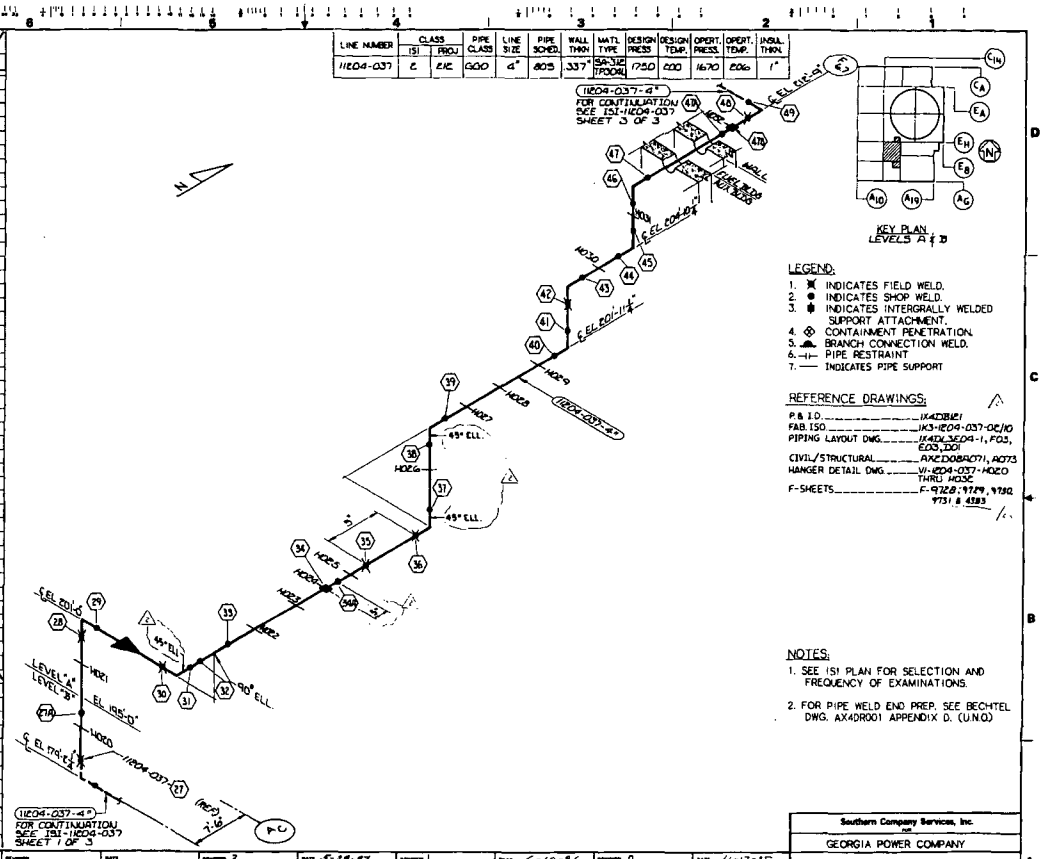
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 037
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

DESIGNED CWD DRAWN BST CHECKED WS

SCALE NONE | SHEET 1 OF 3 | PROJECT NO. | DRAWING NUMBER ISI-11204-037 | REV. 2

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
VI-1204-037-H020	F-25TH RESTRAINT	CLEVIS & SUPPORT	LINE-1300-1					FE.20 FE.30	
H021									
H022	DOW 25TH RESTRAINT								
H023	F-25TH RESTRAINT								
H024	DOW 25TH RESTRAINT								
H025	DOW 25TH RESTRAINT								
H026	DOW 25TH RESTRAINT								
H027	F-25TH RESTRAINT							FE.20 FE.30	
H028	DOW 25TH RESTRAINT								
H029	F-25TH RESTRAINT								
H030									
H031	DOW 25TH RESTRAINT							FE.20 FE.30	
H032	F-25TH RESTRAINT							FE.20 FE.30	
11204-037-H050	B.W.	CLBC WELD	INCE250	C5.21	C5.21		C7.20 C7.21		
H051									
H052									
H053									
H054									
H055									
H056									
H100									
H101									
H102									
H103									
H104									
H105									
H110									
H111									
H112									
H113									
H114									
H115									
H116									
H120									

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-037	C	EIC	GGO	4"	80S	.337"	SA-312 TP304L	1750	200	1670	506	1"



REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 5-28-87	REVISION 1	DATE 6-10-86	REVISION 0	DATE 11-13-85
						GENERAL REVISION TO UPDATE DRAWING FOR ISI		ADDED WELDS 27A & 34A		ISSUED FOR INSPECTION	
BY	CHK'D	APPR.1	APPR.2	APPR.3	APPR.4	RLB	GLB	99C	BKG	BST	BST	BKG

Southern Company Services, Inc.

GEORGIA POWER COMPANY

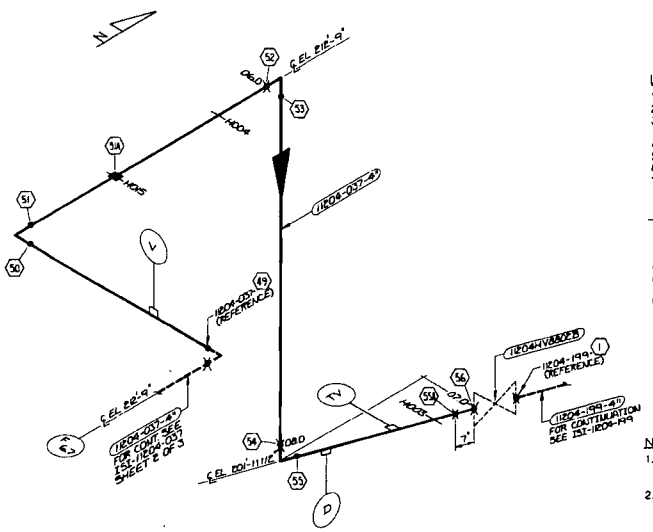
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1—LINE NO. 037
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION—SYSTEM 1204

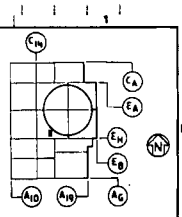
DRAWN CWD | DATE 85T | CHECKED WS

SCALE NONE | SHEET 2 OF 3 | DRAWING NUMBER ISI-11204-037 | REV 2

ISI-1120H-037

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL THKN
1120H-037	2	212	6G0	4"	80S	.337"	SA-312 TP304L	1750	200	1670	206	1"





KEY PLAN
LEVEL "A"

LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ● INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. ⊣⊢ PIPE RESTRAINT
7. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P. & I.D. 1X4DB821
FAB ISO 1K7-1204-037-01
PIPING LAYOUT DWG. 1X4DL3D01, D02
CIVIL/STRUCTURAL AX2D09A009
HANGER DETAIL DWG. V-1204-037-H003, H004, H015
F-SHEETS F-774, 4383, 4389
ISI CLASS DWG. ISI-D-046

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE
0	11-13-87

ISSUED FOR INSPECTION

Southern Company Services Inc.

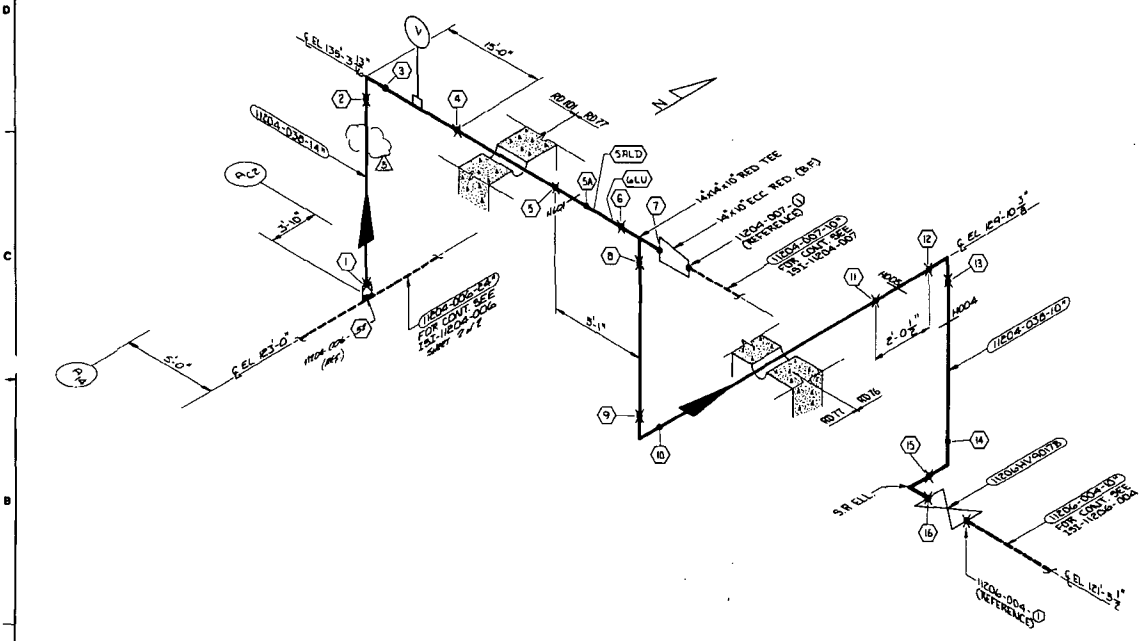
Georgia Power Company

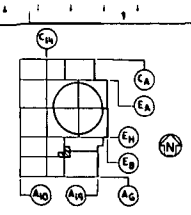
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 037
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

DRAWN CWD CHECKED BST DESIGNED WS

SCALE NONE SHEET 3 OF 3 DRAWING NUMBER ISI-1204-037 REV. 0

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-038	2	212	LL1	14"	STD.	.375"	SA-312 TP304	150	150	65	120	N/A
11204-038	2	212	LL1	10"	40S	.365"	SA-312 TP304	150	150	65	120	N/A





LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|I— PIPE RESTRAINT
7. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & I.D. ---------- 1X4DB121, 131
FAB. ISO. ---------- 1K3-1204-038-01/17
1K3-1204-004-01/30
PIPING LAYOUT DWG. ---- 1X4DL36006, H006, 009
CIVIL/STRUCTURAL _AX2D08R008, F014
HANGER DET. DWG --- VI-1204-038-H004, H005, H015, H601
F-SHEETS ---------- F-199, 204, 205, 206

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	DESCRIPTION
3	5/22/91	DELETED HANGER H015 PER PCR 91-004.
2	5-27-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI.
1	6-10-86	ADDED LONG SEAM WELD NO
0	11-13-85	ISSUED FOR INSPECTION

Southern Company Services, Inc.

Georgia Power Company

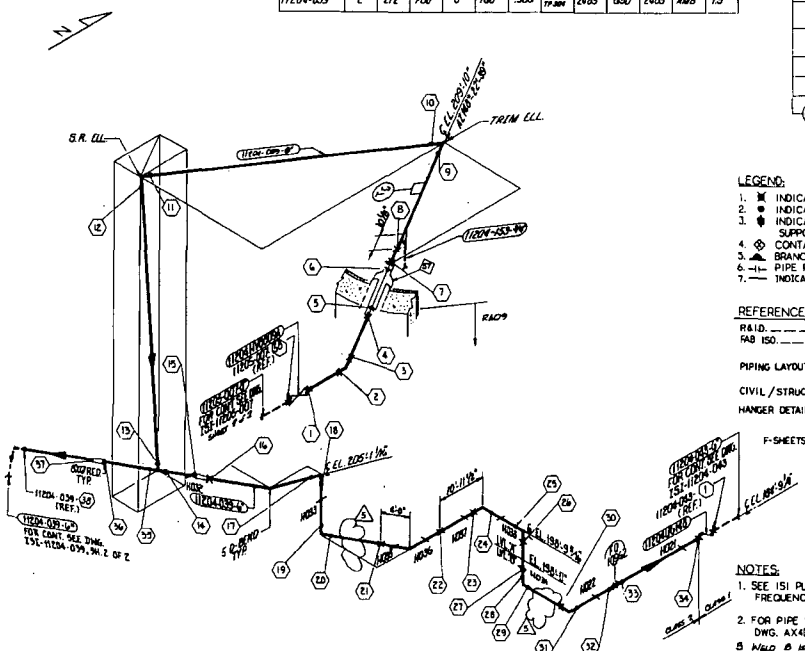
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 038
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

DESIGNED CWD DRAWN BST CHECKED WS

SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-11204-038 | REV. 3

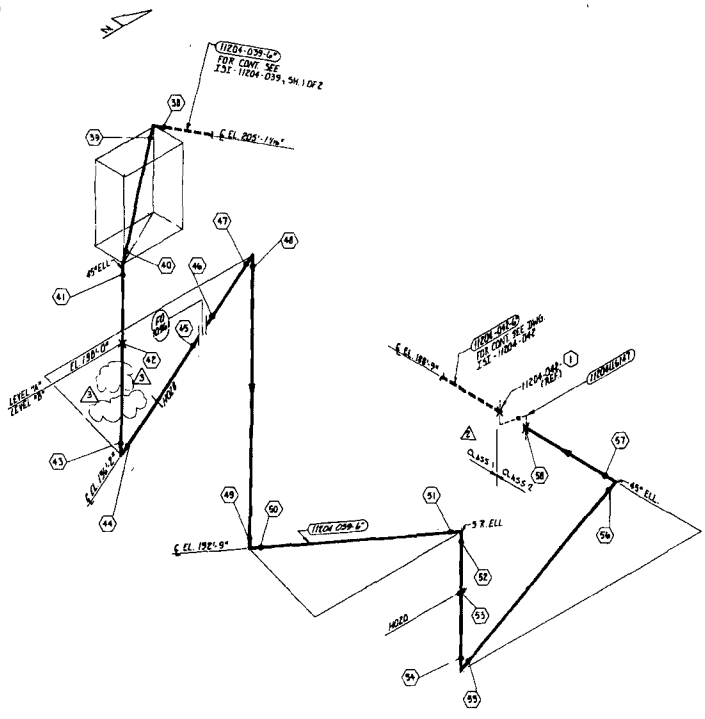
COMPONENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESIGNR.	PART EXAMINED (SEE NOTE 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204-HV-0609A	[illegible]	[illegible]		—	—	—	C1.20 C1.21	—	—
V1-1204-039-H021	[illegible]	[illegible]	IWF-1300-1	—	—	—	—	C5.51 C5.11	—
H022	[illegible]	[illegible]		—	—	—	—	C5.51 C5.11	—
H023	[illegible]	[illegible]		—	—	—	—	C5.51 C5.11	F8.60
H031	[illegible]	[illegible]	IWF-1300-1	—	—	—	—	C5.51 C5.11	—
H032	[illegible]	[illegible]		—	—	—	—	C5.51 C5.11	F8.60
H033	[illegible]			—	—	—	—		
H034				—	—	—	—		
H035	[illegible]	[illegible]		—	—	—	—	C5.51 C5.11	—
H036	[illegible]			—	—	—	—		
H037	[illegible]			—	—	—	—		
H038	[illegible]			—	—	—	—		
11204-039-H02.0	B.W.	[illegible]	IWC-1580-1	C5.21	C5.21	—	C1.20 C1.21	—	—
H02.1						—		—	—
H02.2						—		—	—
H03.0						—		—	—
H03.1						—		—	—
H03.2						—		—	—
H05.0						—		—	—
H05.1						—		—	—
H05.2						—		—	—
H05.3						—		—	—
H09.0						—		—	—
H09.1						—		—	—
H09.2						—		—	—
H09.3	[illegible]	[illegible]	IWC-2500-5	—	C5.40	—	—	—	—
H10.0	B.W.	[illegible]	IWC-2500-1	C5.21	C5.21	—	C1.20 C1.21	—	—
H10.1						—		—	—
H10.2						—		—	—
H10.3						—		—	—
H13.1						—		—	—
H13.2	B.W.	[illegible]	IWC-2500-1	C5.21	C5.21	—	C1.20 C1.21	—	—
H13.3						—		—	—
H13.4						—		—	—
H13.5						—		—	—
H13.6						—		—	—
H14.0						—		—	—
H14.1						—		—	—
H14.2						—		—	—
H14.3						—		—	—
H14.4						—		—	—
H15.0						—		—	—
H16.0						—		—	—
H17.0						—		—	—
H18.0						—		—	—
H18.1						—		—	—
H18.2						—		—	—
H18.3						—		—	—
H18.4						—		—	—

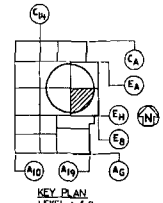
LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-039	2	2/2	FG0	6"	160	.719"	SA-312 TP304	2485	650	2485	AMB	1.5"
11204-039	2	2/2	FG0	8"	160	.906"	SA-312 TP304	2485	650	2485	AMB	1.5"


N
S.R. CLL.
TRTM CLL.
11204-039-8"
11204-053-14"
RAC9
REQ'D TYP
11204-039-14"
FOR CONT. SEE DWG. 2SI-11204-039, SH. 2 OF 2
5 BEND TYP
HOSE
HOSE
HOSE

EQUIPMENT OR WELD IDENTIFICATION NUMBER		WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE 1)		EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO.					
						VOL.	SURF.	VT1	VT2	VT3	VT4
11204-039	W11.0	B.W.	CIRC. WELD		IWC-2500-1	C5.21	C5.21	—	C5.30 C5.31	—	—
	W11.1							—		—	—
	W11.2							—		—	—
	W11.3							—		—	—
	W11.4							—		—	—
	W11.5	FILLET WELD	SMF WELD WITH ATTACH.		IWC-2500-5	—	C5.40	—	—	—	—
	W11.6	B.W.	CIRC. WELD		IWC-2500-1	C5.21	C5.21	—	C5.30 C5.31	—	—
	W11.7							—		—	—
	W11.8							—		—	—
	W11.9							—		—	—
	W11.10							—		—	—
	W11.11							—		—	—
	W11.12							—		—	—
	W11.13							—		—	—
	W11.14							—		—	—
	W11.15							—		—	—
	W12.0							—		—	—
	W12.1							—		—	—
	W12.2							—		—	—
	W12.3							—		—	—
	W12.4							—		—	—
11-1204-039	H020	5" DIA RESTRAINT	LINEAR SUPPORT COMPONENT SUPPORT		IWF-1300-1	—	—	—	—	F3.30 F3.30	—
	H026	MECH. SNUBBER				—	—	—	—	F3.30 F3.30	C3.50
	H027					—	—	—	—		
	H029	VARIABLE SPRING				—	—	—	—		

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-039	2	2/2	FG0	6"	160	.719"	SA-312 TP-304	2485	650	2485	AMB	1.5"





LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ⊥ BRANCH CONNECTION WELD.
6. —|⊢ PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID	IX4DB121
FAB ISO	IX4-1204-039-03/16
PIPING LAYOUT DWG.	IX4DL1A04, A05, A06
CIVIL/STRUCTURAL	IX2D48A004, 008 AX2D08A080
HANGER DETAIL DWG.	VI-1204-039-H020, 26, 27, 28
F-SHEETS	F-10578, 79, F-19487

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (LIN.0.)

REVISION	DATE	REVISION	DATE	REVISION 3	DATE 11-17-92	REVISION 2	DATE 5-28-87	REVISION 1	DATE 11-18-85	REVISION 0	DATE 4-1-85
				REMOVED HANGERS H026 AND H027 PER PCR 92-005		GENERAL REVISION TO UPDATE DRAWING FOR ISI.		ADDED REF WELD NO. 1		REDRAWN PART OF ISI-11204-039 SH. 1 OF 2 ADDED NEW WELD NO'S CHANGED FROM CLASS 1 TO CLASS 2	

Southern Company Services, Inc.

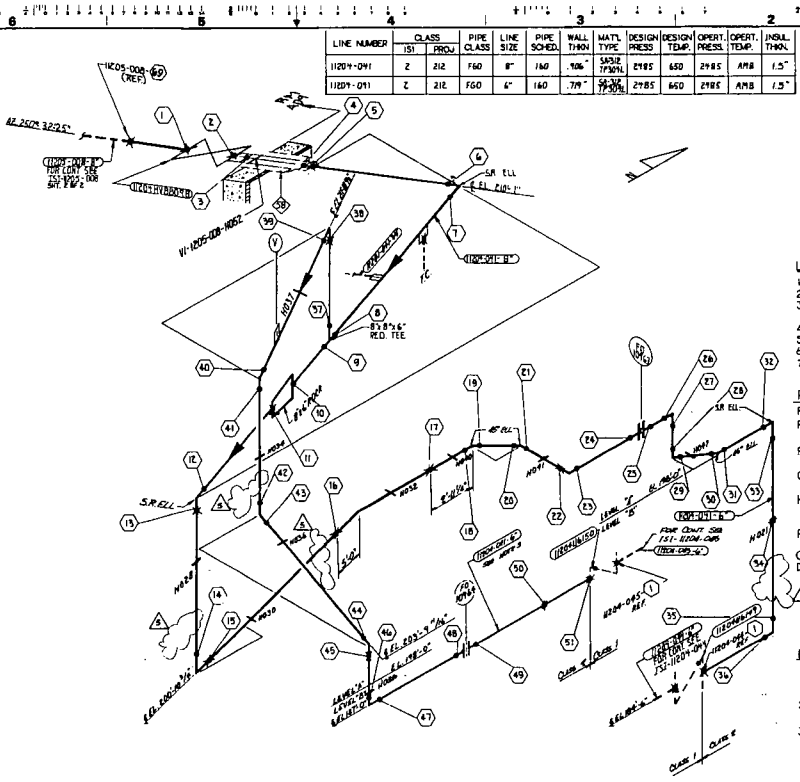
GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 039
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION - SYSTEM 1204

DRAWN FT	DESIGN RGN	CHECKED NS	
SCALE NONE	SH. 2 OF 2	PROJECT NO.	DRAWING NUMBER ISI-11204-039	REV 3

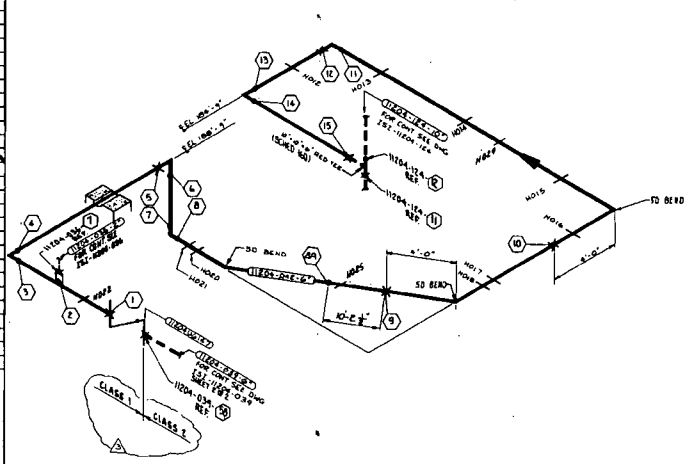
EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204-VV8079B	GATE VALVE	PRESS. RET. CONT.	—	—	—	—	C1.40 C3.41	—	—
VI-1204-041-H020	MECH. SNUBBER	COMPONENT SUPPORT	IVF-1300-1	—	—	—	—	F3.50	F3.50
H021	X-DIR. RESTRAINT	LINEAR SUPPORT		—	—	—	—	F2.20 F2.30	—
H027	Y-DIR. RESTRAINT	LINEAR SUPPORT		—	—	—	—	F2.20 F2.30	—
H028	RIGID STRUT	COMPONENT SUPPORT		—	—	—	—	F3.50 F3.50	—
H029	MECH. SNUBBER			—	—	—	—		F3.50
H030	VARIABLE SPRING			—	—	—	—		
H031	MECH. SNUBBER			—	—	—	—		
H032	X-DIR. RESTRAINT	LINEAR SUPPORT		—	—	—	—	F2.20 F2.30	—
H034	RIGID STRUT	COMPONENT SUPPORT		—	—	—	—	F3.50 F3.50	—
H035	MECH. SNUBBER			—	—	—	—		F3.50
H036	MECH. SNUBBER			—	—	—	—		
H037	VARIABLE SPRING			—	—	—	—		
H038	X-DIR. RESTRAINT	LINEAR SUPPORT		—	—	—	—	F2.20 F2.30	—
H040	X-DIR. RESTRAINT	LINEAR SUPPORT	IVF-1500-1	—	—	—	—	F2.20 F2.30	—
H041				—	—	—	—		—
H042				—	—	—	—		—
VI-1205-008-H052	RIGID STRUT	COMPONENT SUPPORT	IVF-1300-1	—	—	—	—	F3.50 F3.50 F3.50 F3.50	—
11204-041-W01.0	B.W.	CIRC. WELD	IVC-2500-7	C5.21	C5.21	—	C1.20 C1.21	—	—
W02.0						—		—	—
W02.1						—		—	—
W02.2						—		—	—
W04.0						—		—	—
W04.1						—		—	—
W04.2						—		—	—
W04.3						—		—	—
W04.4						—		—	—
W04.5						—		—	—
W04.6						—		—	—
W05.0						—		—	—
W05.1						—		—	—
W05.2						—		—	—
W05.3						—		—	—
W05.4						—		—	—
W05.5						—		—	—
W05.6						—		—	—
W06.0						—		—	—
W06.1						—		—	—
W06.2						—		—	—
W06.3						—		—	—
W07.0						—		—	—
W08.0						—		—	—
W08.1						—		—	—
W08.2						—		—	—
W08.3						—		—	—
W08.4						—		—	—
W08.5						—		—	—
W08.6						—		—	—
W08.7						—		—	—
W08.8						—		—	—
W08.9						—		—	—
W08.10						—		—	—
W08.11						—		—	—

LINE NUMBER	CLASS 1S1	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-041	2	212	F60	8"	160	.906"	SA312 TP304L	2485	650	2485	AMB	1.5"
11209-041	2	212	F60	6"	160	.719"	SA-312 TP-304L	2485	650	2485	AMB	1.5"



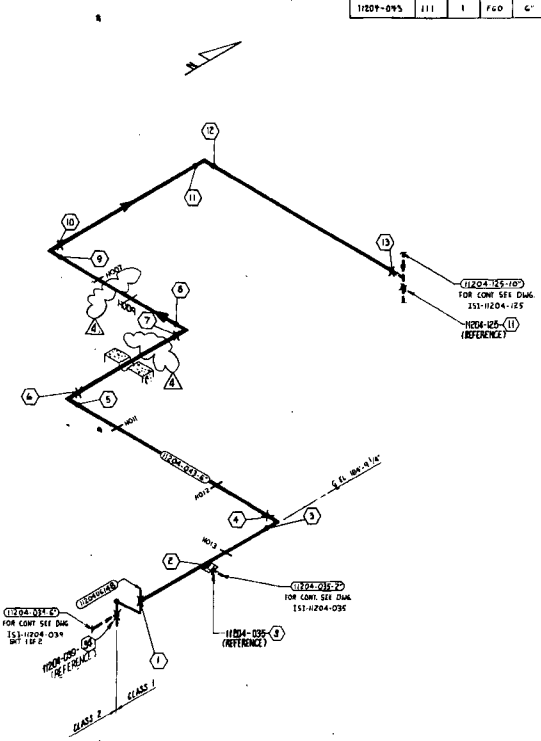
EQUIPMENT OR WELD IDENTIFICATION NO	WELD OR EQUIP DESCRIP	PART EXAMINED (SEE NOTE) NO. ID	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL	SURF	VT1	VT2	VT3	VT4
N2041U6147	CHECK VLV	PRESSURE BOUNDARY	—	—	—	—		—	—
11-1204-042 H012	PRESSURE BOUNDARY	CONTINUOUS SUPPORT	IVF-1200-1	—	—	—	—		F3.50
H013	SUPPORT			—	—	—	—		—
H017	PRESSURE BOUNDARY			—	—	—	—		F3.50
H015	SUPPORT	LINEAR SUPPORT		—	—	—	—		—
H016	PRESSURE BOUNDARY	CONTINUOUS SUPPORT		—	—	—	—		F3.50
H007	SUPPORT			—	—	—	—		—
H018	PRESSURE BOUNDARY			—	—	—	—		F3.50
H023	SUPPORT			—	—	—	—		—
H021	SUPPORT			—	—	—	—		—
H022	1-DIR. RESTRAINT	LINEAR SUPPORT		—	—	—	—		—
H024	SUPPORT	CONTINUOUS SUPPORT		—	—	—	—		—
H025	2-DIR. RESTRAINT	LINEAR SUPPORT		—	—	—	—		—
11204-042-W010	BW	CIRC. WELD	IVB-2500-10	89.11	89.11	—			—
W011						—		—	—
W012						—		—	—
W020						—		—	—
W017						—		—	—
W019						—		—	—
W018						—		—	—
W011						—		—	—
W013						—		—	—
W015						—		—	—
W016						—		—	—
W012						—		—	—
W021	FULL PEN WELD	BRANCH CONNECTION	IVB-2500-10	—	88.82	—		—	—
W022	BW	CIRC. WELD	IVB-2500-8	89.11	89.11	—		—	—
W024						—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN.	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP	OPERT PRESS	OPERT TEMP	INSUL. THKN.
11204-042	I	III	FGO	6"	160	.719	SA-312 TYP-304L	2485	650	2485	AMB	1.5"


H012
H013
H017
H015
H016
H007
H018
H023
H021
H022
H024
H025
H020
H019
H011
H012
H021
H024
H025
11204-124-R30
11204-124-R29
11204-124-R28
11204-124-R27
11204-124-R26
11204-124-R25
11204-124-R24
11204-124-R23
11204-124-R22
11204-124-R21
11204-124-R20
11204-124-R19
11204-124-R18
11204-124-R17
11204-124-R16
11204-124-R15
11204-124-R14
11204-124-R13
11204-124-R12
11204-124-R11
11204-124-R10
11204-124-R9
11204-124-R8
11204-124-R7
11204-124-R6
11204-124-R5
11204-124-R4
11204-124-R3
11204-124-R2
11204-124-R1
11204-034-R1
11204-034-R2
11204-034-R3
11204-034-R4
11204-034-R5
11204-034-R6
11204-034-R7
11204-034-R8
11204-034-R9
11204-034-R10
11204-034-R11
11204-034-R12
11204-034-R13
11204-034-R14
11204-034-R15
11204-034-R16
11204-034-R17
11204-034-R18
11204-034-R19
11204-034-R20
11204-034-R21
11204-034-R22
11204-034-R23
11204-034-R24
11204-034-R25
11204-034-R26
11204-034-R27
11204-034-R28
11204-034-R29
11204-034-R30
FOR CONT. SEE DWG. ISI-11204-124
FOR CONT. SEE DWG. ISI-11204-034
SEE DWG. ISI-11204-124

LINE NUMBER	CLASS PROJ	CLASS ISI	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP	OPERT PRESS	OPERT TEMP	INSUL THKN.
1/2209-093	III	1	F60	6"	160	.719"	SA-312 TP304L	2485	650	2485	AMB	1.5"

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
1/2209-093-H46	CHECK VALVE	PRESSURE RET. CAPS	–	–	–	–	RIV 10 B16.11	B16.10	
1/2204-043-H007	RIGID STRUT	COMPONENT SUPPORT	1WB-2500-1	–		–	–	1/2 B7.20 1/2 B7.40	–
H008	MECHANICAL SNUBBER					–	–	1/2 B7.20 1/2 B7.40	F3.50
H009	RIGID RESTRAINT	LINEAR SUPPORT				–	–	1/2 B7.20 1/2 B7.40	–
H010	MECHANICAL SNUBBER	COMPONENT SUPPORT				–	–	1/2 B7.20 1/2 B7.40	F3.50
H011	RIGID STRUT	LINEAR SUPPORT				–	–	1/2 B7.20 1/2 B7.40	–
H012	RIGID STRUT	COMPONENT SUPPORT				–	–	1/2 B7.20 1/2 B7.40	–
H013	MECHANICAL SNUBBER	COMPONENT SUPPORT				–	–	1/2 B7.20 1/2 B7.40	F3.50
1/2204-043-W010	BW	CIRC. WELD	1WB-2500-8	B9.11	B9.11	–	RIV 10 B16.11	–	
W011						–		–	–
W012						–		–	–
W020						–		–	–
W021						–		–	–
W022						–		–	–
W030						–		–	–
W040						–		–	–
W041						–		–	–
W042						–		–	–
W043						–		–	–
W044	FULL PEN WELD	BRANCH CONNECTION	1WB-2500-10	–	B9.32	–		–	–
W050	BW	CIRC. WELD	1WB-2500-8	B9.11	B9.11	–		–	–



LEGEND:
1. ▨ INDICATES FIELD WELD.
2. ● INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
3. ■ INDICATES SHOP WELD.
4. ◠ INDICATES BRANCH CONNECTION WELD.
5. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & ID ___ ___ ___ ___ ___ ___ IX4DB120 & 121

FAB ISO ___ ___ ___ ___ ___ IX4-1204-039-02/10

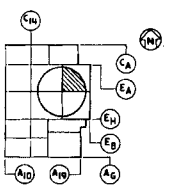
PIPING LAYOUT DWG. ___ ___ IX4DL4806

CIVIL/STRUCTURAL ___ ___ ___ IX2048801Q, A004 & A008

HANGER DETAIL DWG. ___ ___ VI-1204-043-H007, 08, 09 10, 11, 12, & 13

F-SHEETS ___ ___ ___ ___ F-12593, 12594, 12595, 12596

NOTES:
1. SEE 1S1 PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS
2. FOR PIPE WELD END PREP SEE BECHTEL DWG AX4DR001 APPENDIX D. < U.N.O.



KEY PLAN
LEVEL B

REVISION	DATE	ST	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	APPR 6
4 REMOVED HANGERS H008 AND H010 PER PCE 92-005	11-24-92	DS	CWB						
3 GENERAL REVISION TO UPDATE DRAWING FOR 1S1	5-19-87	RLB	GLO	99C					
2 ADDED REF WELD NOS 8, 11 & 34	11-16-85	CAB	WS	CWB					
1 CONT. MADE HOW & DIR. RESTRAINT	3-19-85	BST	WS	CWB					
0 ISSUED FOR INSPECTION	9-6-82	BLG	WJS	JF					

Southern Company Services, Inc.
AND
Georgia Power Company

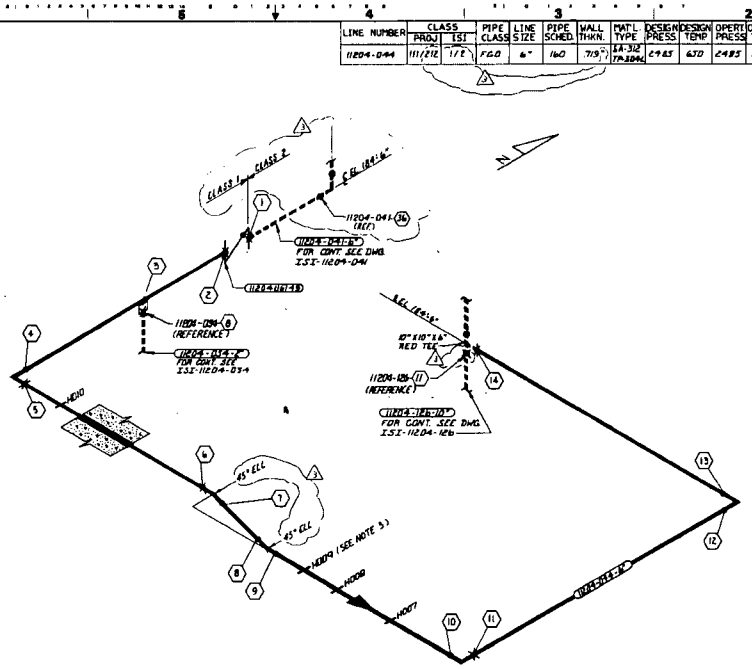
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 043
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION - SYSTEM 1204

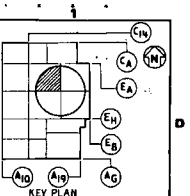
DESIGNED FT | DRAWN DRC | CHECKED WS

SCALE: NONE | PROJECT I.D. | DRAWING NUMBER: 1S1-1204-043 | REV: 4

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP.	PART EXAMINED (SEE NOTE 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204-044-9	CHECK VALVE	PRESS. RET. CARTRIDGE	—	—	—	—	B12.40 VT-1	B12.40	—
VI-1204-044-H007	1-PIN RIGID SUPPORT	LINEAR SUPPORT	11UF-1300-1	—	—	—	—	F12.20 F12.40 F13.20 F13.40	—
H008	STRUCTURAL STABILIZER	COMPONENT SUPPORT		—	—	—	—		F3.50
H009	2-PIN RIGID SUPPORT	LINEAR SUPPORT		—	—	—	—	F2.20 F2.40	—
H010	↓	↓	↓	—	—	—	—	↓	—
11204-044-W01.0	B.W.	CIRC WELD	11UB-2500-8	B9.11	B9.11	—	B15.50 B15.51	—	—
W02.0	↓	↓	↓	↓	↓	—	↓	—	—
W02.1	FULL PENN. WELD	BRANCH CONN.	11UB-2500-10		B9.32	—		—	—
W02.2	B.W.	CIRC WELD	11UB-2500-8	B9.11	B9.11	—		—	—
W03.0						—		—	—
W04.0						—		—	—
W05.1						—		—	—
W05.2						—		—	—
W06.0						—		—	—
W07.1						—		—	—
W07.2						—		—	—
W08.0						—		—	—
W09.0						—		—	—
W10.0						—		—	—
W11.0						—		—	—
W12.0						—		—	—
W13.0						—		—	—
W14.0						—		—	—
W15.1						—		—	—
W15.2						—		—	—
W16.0						—		—	—

LINE NUMBER	CLASS PROJ	CLASS ISI	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP	OPERT PRESS	OPERT TEMP	INSUL THKN.
11204-044	111/212	1/2	F6.0	6"	160	.719"	SA-312 TP304L	2485	650	2485	AMB.	1.5"





KEY PLAN
LEVEL B

LEGEND:
1. ⊠ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ◆ INDICATES INTEGRALLY WELDED SUPPORT ATTACHEMENT.
4. ⌓ INDICATES BRANCH WELD CONNECTION
5. — PIPE SUPPORT

REFERENCE DRAWINGS:
P & ID _____ X4DB120 & 121
FAB ISO _____ BKY-1204-044-01/12

PIPING LAYOUT DWG. ____ X4DL4C06
CIVIL/STRUTURAL _____ X2D48B010
HANGERS _____ VI-1204-044-H007
H008, H009, H010
F-SHEETS _____ F-13191 THRU F-13194

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4D001 APPENDIX D(U.N.O.)
3. HANGER MUST BE REMOVED FOR WELD INSPECTION.

REVISION	DATE	
3	5-27-87	GENERAL REVISION TO UPDATE DRAWINGS FOR ISI
2	11-14-85	ADDED REF. WELD NO'S 8 & 11
1	3-14-85	ADDED NEW WELD NO'S, NOTE 3 REVISED REFERENCES REVISED INSUL. THKN.
0	10-4-83	ISSUED FOR INSPECTION

Southern Company Services, Inc.
FOR
Georgia Power Company

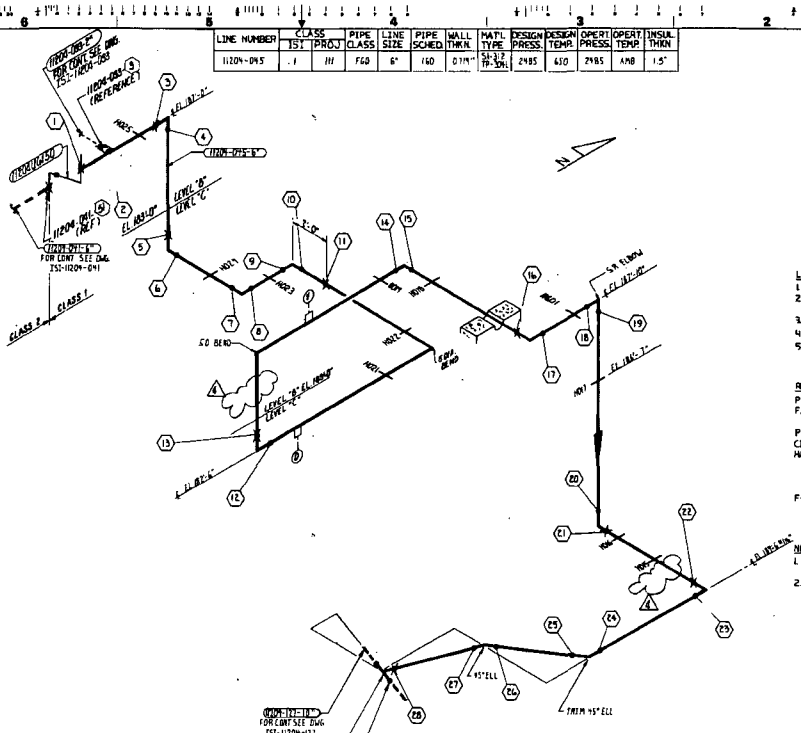
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 044
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION SYSTEM 1204

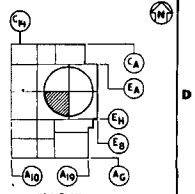
DESIGNED F.T. DRAWN E.A.L. CHECKED W.S.

SCALE: NONE
DRAWING NUMBER: ISI-11204-044
REV: 3

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP.	PART EXAMINED (SEE NOTE 5) NO.	EXAM EQUIPMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
1204-U6150	CHECK VLV	PIPE-CARB ALL COMP	—	—	—	—	B12.70 B12.71	B12.40	
1204-045-H015	SUPPORT	LINEAR SUPPORT	CMB-2300-1	—	—	—	—	F1.40 F1.40 F1.50 F1.50	—
H016	SUPPORT	LINEAR SUPPORT		—	—	—	—	F1.40 F1.40 F1.50 F1.50	—
H017	SUPPORT	LINEAR SUPPORT		—	—	—	—	F1.40 F1.40 F1.50 F1.50	F3.50
H018	RIGID STRUT	CONCENTRIC SUPPORT		—	—	—	—	F1.40 F1.40 F1.50 F1.50	—
H019	SUPPORT	LINEAR SUPPORT		—	—	—	—	F1.40 F1.40 F1.50 F1.50	—
H020	SUPPORT	CONCENTRIC SUPPORT		—	—	—	—	F1.40 F1.40 F1.50 F1.50	F3.50
H021	SUPPORT	CONCENTRIC SUPPORT		—	—	—	—	F1.40 F1.40 F1.50 F1.50	—
H022	SUPPORT	CONCENTRIC SUPPORT		—	—	—	—	F1.40 F1.40 F1.50 F1.50	—
H023	SUPPORT	CONCENTRIC SUPPORT		—	—	—	—	F1.40 F1.40 F1.50 F1.50	—
H024	SUPPORT	CONCENTRIC SUPPORT		—	—	—	—	F1.40 F1.40 F1.50 F1.50	—
H025	SUPPORT	CONCENTRIC SUPPORT		—	—	—	—	F1.40 F1.40 F1.50 F1.50	—
H026	MECHANICAL SNUBBER	CONCENTRIC SUPPORT		—	—	—	—	F1.40 F1.40 F1.50 F1.50	F1.50
1204-045-W001	BW	CIRC WELD	CMB-2300-8	B9.11	B9.11	—	B12.30 B12.31	—	—
W011						—		—	—
W012						—		—	—
W013						—		—	—
W014						—		—	—
W015						—		—	—
W026						—		—	—
W027						—		—	—
W027						—		—	—
W028						—		—	—
W029						—		—	—
W030						—		—	—
W031						—		—	—
W032						—		—	—
W033						—		—	—
W034						—		—	—
W035						—		—	—
W036						—		—	—
W037						—		—	—
W038						—		—	—
W039						—		—	—
W040						—		—	—
W041	FUEL TRN. WELD	BRANCH CONN	CMB-2300-10	—	B9.32	—		—	—
W042	BW	CIRC WELD	CMB-2300-8	B9.11	B9.11	—		—	—
W043						—		—	—
W044						—		—	—
W045						—		—	—
W046						—		—	—
W047						—		—	—
W048						—		—	—
W049						—		—	—
W050						—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT PRESS.	OPERT TEMP.	INSUL THKN
1204-045	1	III	FG0	6"	160	0.719"	SA-312 TP-304L	2485	650	2485	1410	1.5"





LEGEND:
1. N INDICATES FIELD WELD.
2. ⊕ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
3. ● INDICATES SHOP WELD.
4. ⌓ BRANCH CONNECTION WELD
5. — PIPE SUPPORT

REFERENCE DRAWINGS:
P & ID — — — — — — 1X4DB120 & 121
FAB. ISO — — — — — — 1X4-1204-045-01/18

PIPING LAYOUT DWG. — — 1XNDL4005
CIVIL/STRUCTURAL — — 1X2DH8011
HANGER DETAIL DWG — — V-1204-045-H015 THRU H026, H601

F-SHEETS — — — — — — F-12560 THRU 64

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS
2. FOR PIPE WELD END PREP SEE BECHTEL DWG AX4-DR001 APPENDIX D.(U.N.O.)

REVISION	DATE	
4	11-26-92	REMOVED HANGER H020 AND H026 PER PCR 92-005
3	5-19-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI
2	11-14-85	ADDED REF WELD NO'S. 5 & 18 REMOVED HANGER H017 & H028
1	3-17-85	ADDED NEW WELD NO'S
0	11-14-83	ISSUED FOR INSPECTION

Southern Company Services, Inc.

Georgia Power Company

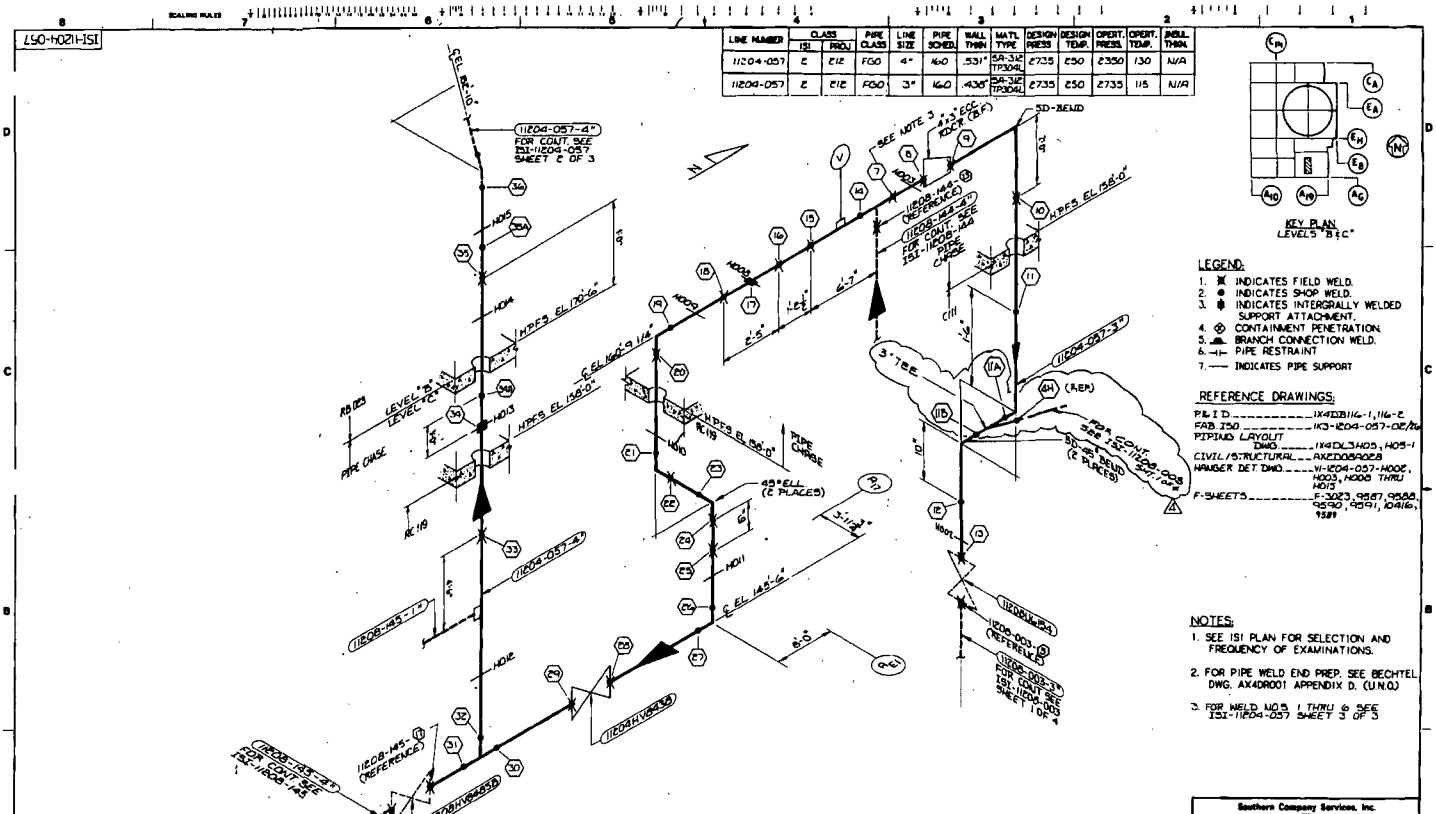
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 045
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION - SYSTEM 1204

DRAWN FT | CHECKED TMW | APPD. RCS

SCALE: NONE | DRAWING NUMBER: ISI-1204-045 | REV. 4

ISI-1204-057

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-057	E	E12	FG0	4"	160	.531"	SA-312 TP304L	2735	650	2350	130	N/A
11204-057	E	E12	FG0	3"	160	.438"	SA-312 TP304L	2735	650	2735	115	N/A



KEY PLAN
LEVELS "B" & "C"

LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ♦ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID 1X4DB116-1, 116-2
FAB. TSO 1K3-1204-057-02/06
PIPING LAYOUT DWG 1X4DL3H05, H05-1
CIVIL/STRUCTURAL AX4D06R002B
HANGER DET. DWG ..... W-1204-057-H005, H003, H006 THRU H015
F-SHEETS F-3023, 9567, 9568, 9590, 9591, 10416, 9589

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)
3. FOR WELD NOS. 1 THRU 6 SEE ISI-11204-057 SHEET 3 OF 3

REVISION	DATE	DESCRIPTION
4	04-10-2001	REVISED PER DCP 97-NN0055
3	5-28-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI
2	8-19-86	ADDED WELD 34A AND 35A.
1	12-3-85	CHANGED CAL. BLK. NO.
0	10-1-85	ISSUED FOR INSPECTION

Southern Company Services, Inc.
for
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 057
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

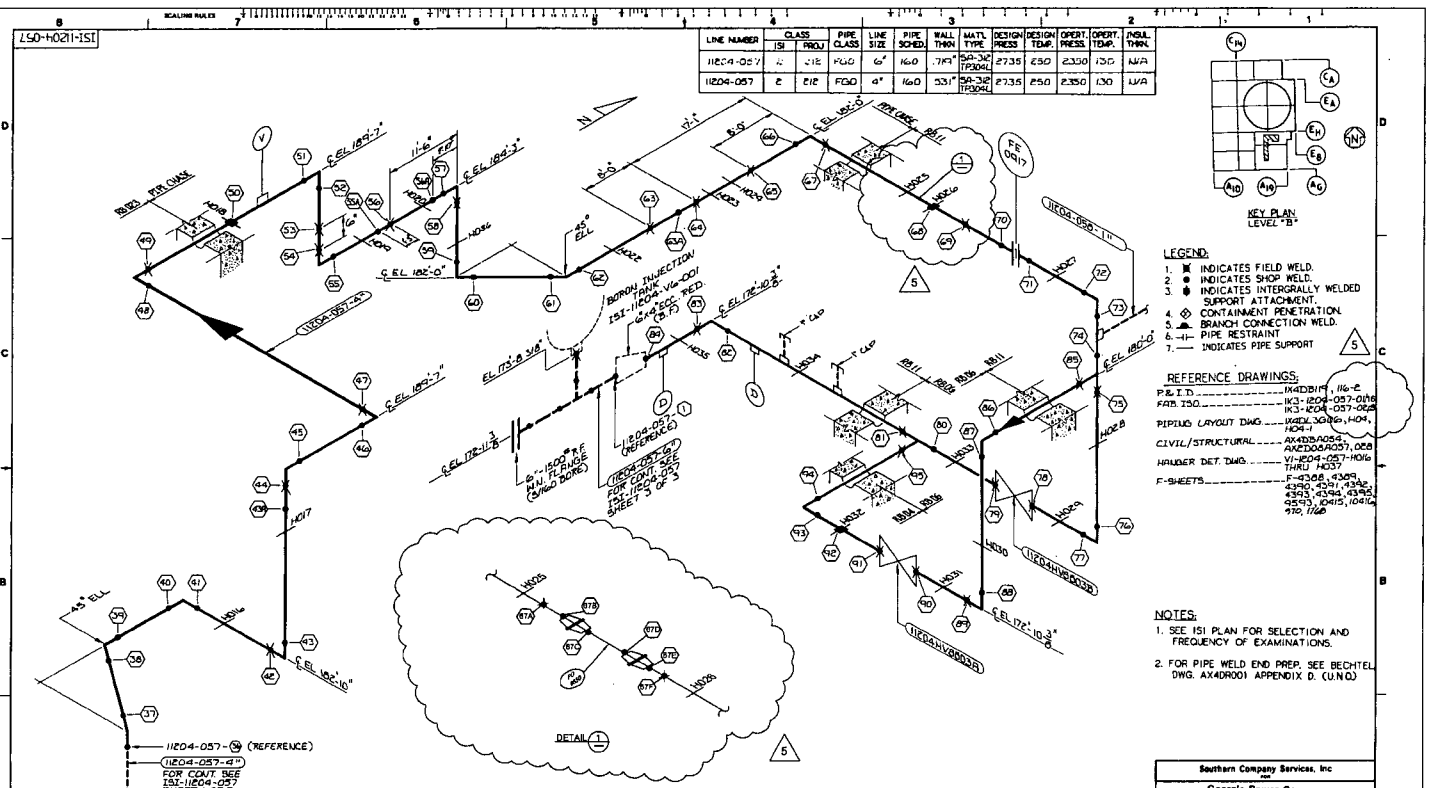
REVIEWED CWD DRAWN BST

BY	DATE	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	APPR. 6
WS	12/C	RP					
RLB	GLB	GLB					
BKG	WS	CWD					
RLH	WS	CWD					
BST	BKG	CWD					

SCALE: NONE SHEET 1 OF 3 PROJECT # DRAWING NUMBER ISI-1204-057 REV. 4

ISI-11204-057

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-057	2	2I2	FG0	6"	160	.719"	SA-312 TP304L	2735	250	2350	130	N/A
11204-057	2	2I2	FG0	4"	160	.531"	SA-312 TP304L	2735	250	2350	130	N/A



EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP	PART EXAMINED (SEE NOTE NO 1)	EXAM. REQUIREMENT FIG	EXAMINATION METHOD AND ITEM NO					
				VOL.	SURF.	VT1	VT2	VT3	VT4
11204-057-W014	BW	CTRC WELD	TMC 2500-7	C521	C521	–	C520 C521	–	–
W015						–		–	–
W016						–		–	–
W017						–		–	–
W018						–		–	–
W020						–		–	–

LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT'G PRESS.	OPERT'G TEMP.	INSUL. THKN.
11204-057	2	2/2	F60	6"	160	.719	SA-312 TP-304L	2735	250	2350	130	N/A

3

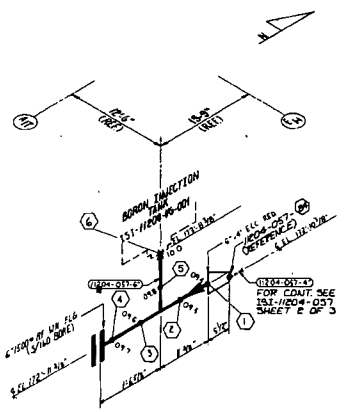
LEGEND:
1 ⊠ INDICATES FIELD WELD.
2 ● INDICATES SHOP WELD.

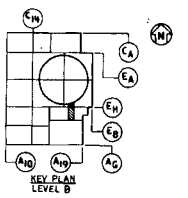
REFERENCE DRAWINGS:

P & ID. _____ X4DB119
FAB. ISO. _____ IK9-1204-057-01

PIPING LAYOUT DWG. _____ IX4DL3G06
CIVIL/STRUCTURAL _____ AX2D08A057 & AX4D8A054
F-SHEETS _____ F-4393
BORON INJ. TANK _____ WESTINGHOUSE DWG 12R177
ISI CLASSIFICATION DWG. ISI-D-044
6" CAL BLOCK _____ ISI-D-704A

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS
2. FOR PIPE WELD END PREP SEE BECHTEL DWG. AX4D8D01 APPENDIX D (UNO)





REVISION	DATE	REVISION	DATE	REVISION 3	DATE 11-18-85	REVISION 2	DATE 9-26-85	REVISION 1	DATE 4-1-85	REVISION 0	DATE 10-5-83
				CHANGED DESIGN TEMP & OPERT PRESS.		DRAWING IS NOW SHEET 3 OF 3 ADDED CONTINUATION NOTE AND REFERENCE WELD		ADDED NEW WELD NO'S REVISED REFERENCES & KEY PLAN REVISED DWG CONTINUATION		ISSUED FOR INSPECTION	
BY	CHK'D	APPR 1	APPR 2	CLH	WS	CWB	BJT	JRG	WS	CWB	ORC	WS

Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 057
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION SYSTEM-1204

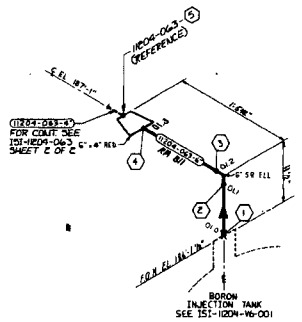
DESIGNED FT | DRAWN ORC | CHECKED WS
SCALE NONE | SHEET 3 OF 3 | PROJECT LO | DRAWING NUMBER ISI-11204-057 | REV 3

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP	PART EXAMINED (SEE NOTE NO. 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF	VT1	VT2	VT3	VT4
11204-063-W010	BW	CIRC. WELD	IWC-2500-7	C5.21	C5.21	–	C5.21 C3.21	–	–
W011	↓	↓	↓	↓	↓	–	↓	–	–
W012						–		–	–
W013						–		–	–

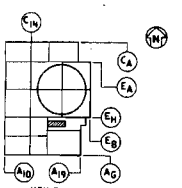
LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MATL TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT PRESS.	OPERT TEMP	INSUL. THKN.
11204-063	2	2/2	F60	6"	160	.719	SA-312 TP-304L	2735	300	2735	115 (3)	N/A

LEGEND:
1. ⊠ INDICATES FIELD WELD.
2. ⊕ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
3. ● INDICATES SHOP WELD

REFERENCE DRAWINGS:
P & ID _____ IX4DB119
FAB ISO. _____ IK3-1204-063-02
6" CAL. BLOCK DWG. _____ 1S1-D-304A
PIPING LAYOUT DWG. ___ IX4DL3605
CIVIL/STRUCTURAL ___ AX2D08A057
F-SHEET _____ F-10686
ISI CLASSIFICATION DWG. 1S1-D-044



NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP SEE BECHTEL DWG AX4DR001 APPENDIX D.(U.N.O.)



KEY PLAN
LEVEL B

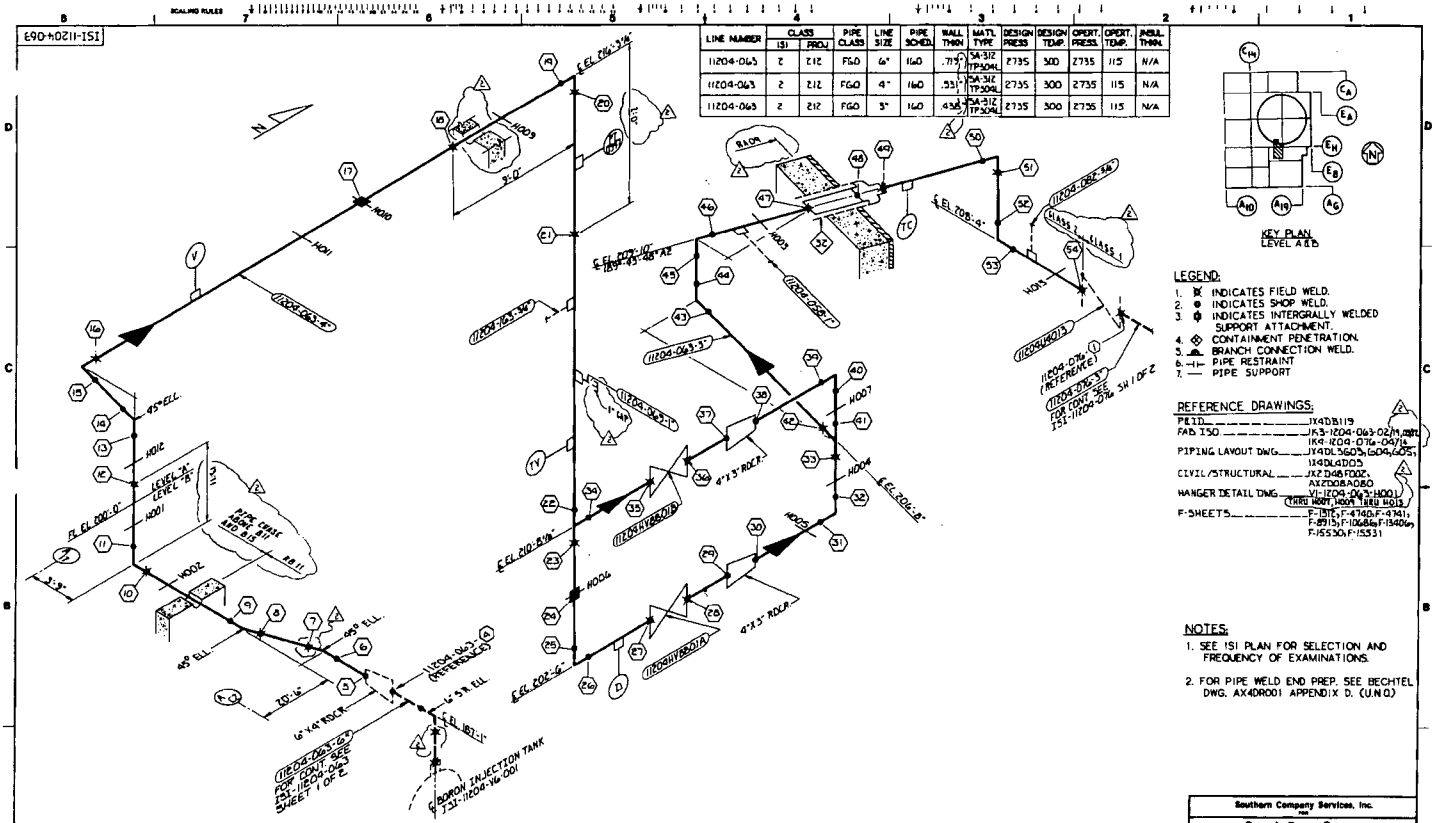
REVISION	DATE	REMARKS
3	11-18-85	CHANGED OPERT TEMP
2	9-26-85	DRAWING IS NOW SHEET 1 OF 2 ADDED CONTINUATION NOTE AND REFERENCE WELD
1	3-30-85	ADDED NEW WELD NO'S REVISED REFERENCES & NOTES REVISED INSULATION TAKN. ADDED ROOM NUMBER
0	10-19-84	ISSUED FOR INSPECTION

Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 063
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION - SYSTEM 1204

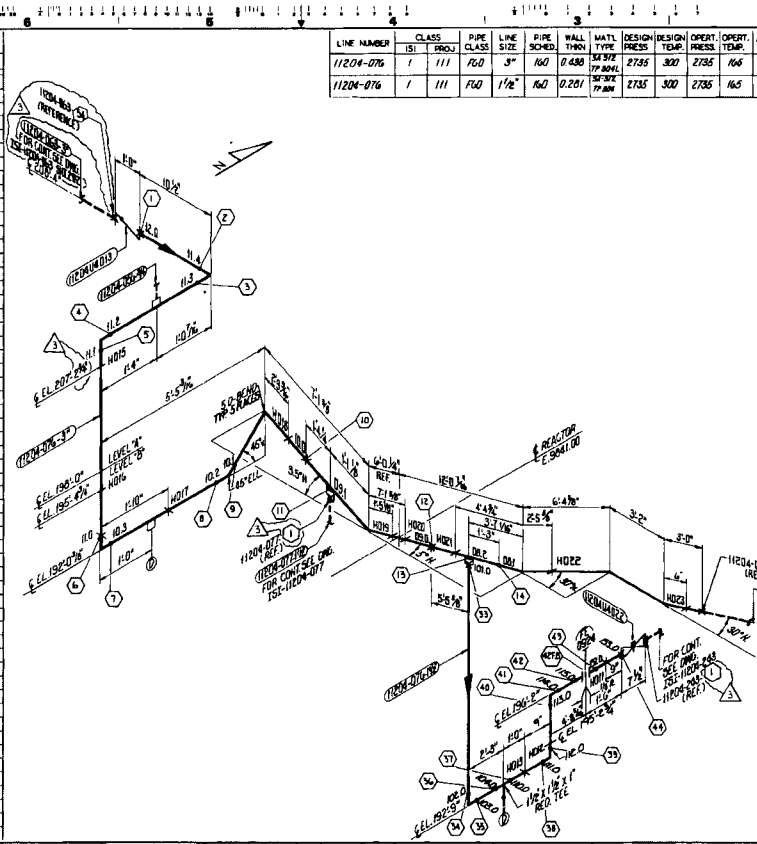
DESIGNED FT | DRAWN DRC | CHECKED US
SCALE NONE | SHEET 1 OF 2 | PROJECT I.D. | DRAWING NUMBER 1S1-11204-063 | REV 3

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-065	2	212	FG0	6"	160	.719	SA-312 TP304L	2735	300	2735	115	N/A
11204-063	2	212	FG0	4"	160	.531	SA-312 TP304L	2735	300	2735	115	N/A
11204-063	2	212	FG0	3"	160	.438	SA-312 TP304L	2735	300	2735	115	N/A


ISI-11204-063
N
H001
H002
H003
H004
H005
H006
H007
H008
H009
H010
H011
H012
45° ELL.
90° ELL.
45° ELL.
6" X 4" ROCK
6" S.R. ELL
4" X 3" ROCK
4" X 3" ROCK
3'-3"
20'-6"
3'-0"
2'-0"
1'-0"
LEVEL "A"
LEVEL "B"
EL. 200'-0"
EL. 202'-6"
EL. 206'-3 1/4"
EL. 206'-6"
EL. 208'-6"
EL. 210'-8 1/4"
EL. 161'-1"
BORON INJECTION TANK
11204-065-6
11204-065-6 (REFERENCE)
11204-065-6 FOR CONT. SEE ISI-11204-063 SHEET 1 OF 2
11204-063-3
11204-063-3 (REFERENCE)
11204-063-3 FOR CONT. SEE ISI-11204-063 SHEET 1 OF 2
11204-065-5
11204-065-5 (REFERENCE)
11204-065-5 FOR CONT. SEE ISI-11204-063 SHEET 1 OF 2
11204-063-2
11204-063-1
11204-063-3
11204-063-3
11204-063-3

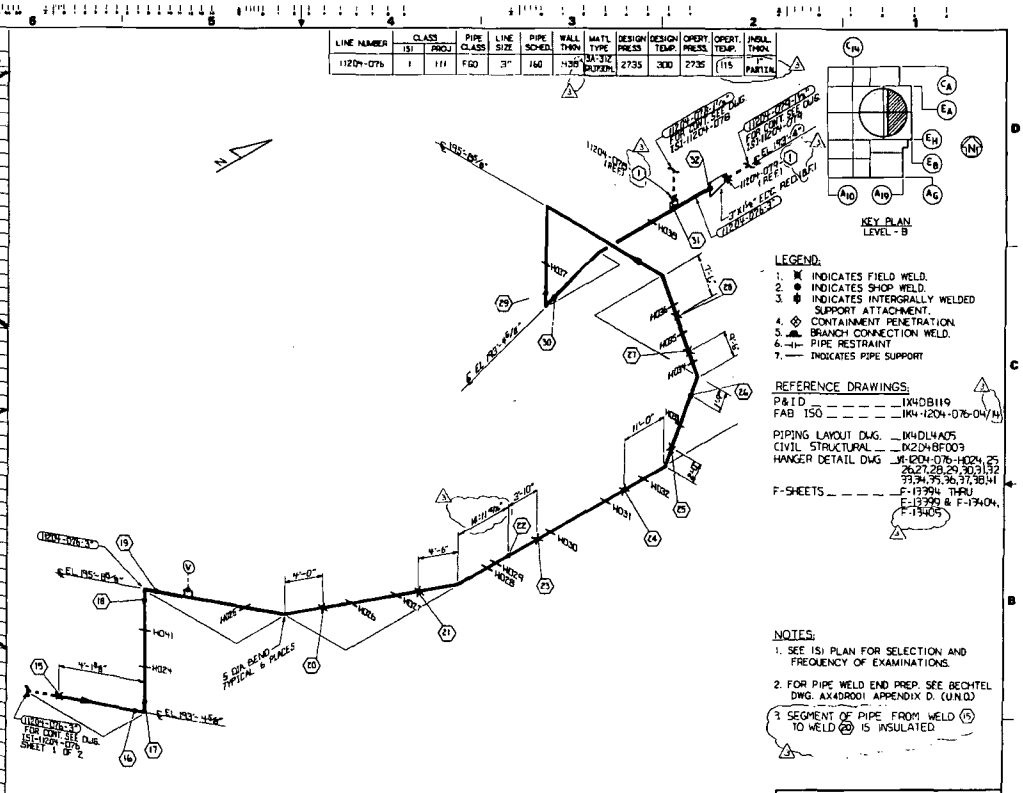
EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)		EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204U4013	CHECK VALVE	PIPE-TO-VALVE		—	—	—	—	[illegible]	—	—
11204U4022	REFERENCE VALVE			—	—	—	—		—	—
										—
										—
VT-1204-076-H011	ONE WAY RESTRAINT	LINEAR SUPPORT	DWG-1000-1		—	—	—	—	F2.10 F2.30	—
H012					—	—	—	—		—
H013					—	—	—	—		—
H015					—	—	—	—		—
H016					—	—	—	—		—
H017					—	—	—	—		—
H018					—	—	—	—	F2.20	—
H019					—	—	—	—	F2.10 F2.30	—
H020					—	—	—	—		—
H021					—	—	—	—	F2.10	—
H022					—	—	—	—		—
H033	ONE WAY RESTRAINT				—	—	—	—	F2.10 F2.30	—
11204-076-W028.1	S.W.	SOCKET WELD	DWG-2500-6		—	89.21	—	[illegible]	—	—
W028.2	FULL PEN WELD	SOCKET WELD	DWG-2500-6		—	89.82	—		—	—
W029.0	S.W.	SOCKET WELD	DWG-2500-6		—	89.21	—		—	—
W029.1	FULL PEN WELD	SOCKET WELD	DWG-2500-6		—	89.82	—		—	—
W10.0	S.W.	WELD	DWG-2000-6		—	89.21	—		—	—
W10.1					—		—		—	—
W10.2					—		—		—	—
W10.3					—		—		—	—
W11.0					—		—		—	—
W11.1					—		—		—	—
W11.2					—		—		—	—
W11.3					—		—		—	—
W11.4					—		—		—	—
W12.0					—		—		—	—
W12.0D					—		—		—	—
W12.0					—		—		—	—
W13.0					—		—		—	—
W14.0					—		—		—	—
W14.0D					—		—		—	—
W11.0					—		—		—	—
W12.0					—		—		—	—
W13.0					—		—		—	—
W14.0					—		—		—	—
W15.0					—		—		—	—
W32.0					—		—		—	—
W33.0	S.W.				—	89.40	—		—	—
11204-076-42.FB	FE-0924	FLG. BOLT PREHEAT		—	—	—	87.50	—	—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-076	1	111	F60	3"	160	0.438	SA 312 TP 304L	2735	300	2735	165	N/A
11204-076	1	111	F60	1½"	160	0.281	SA 312 TP 304	2735	300	2735	165	N/A



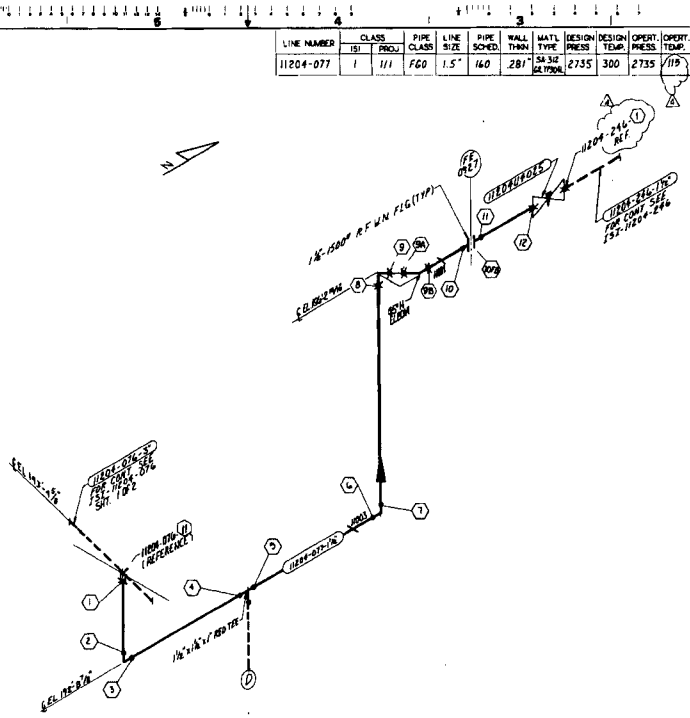
EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
H1204-076-H024	SHOCK SUPPRESSOR FOR DIR. RESTRAINT	TEMPORARY SUPPORT (TYCAR SUPPORT)	1UF-1300-1	—	—	—	—	F200, F600, F610, F620	—
H025				—	—	—	—		—
H026				—	—	—	—	F220	—
H027				—	—	—	—	F6.50, F5.50	—
H028	DIR. RESTRAINT (SEE NOTE 4)			—	—	—	—	F2.20	—
H029	DIR. RESTRAINT (SEE NOTE 4)			—	—	—	—	F8.80, F2.80	—
H030				—	—	—	—	F2.20	—
H031				—	—	—	—		—
H032				—	—	—	—		—
H033				—	—	—	—		—
H034				—	—	—	—		—
H035				—	—	—	—		—
H036				—	—	—	—		—
H037				—	—	—	—	F1.80	—
H038				—	—	—	—		—
H041	POST & SHOCK SUPPRESSOR	TEMPORARY SUPPORT		—	—	—	—	F200, F220, F600, F610	
H1204-076-W22.1	BW	CIRC. WELD	DWB-2500-6	—	BA21	—	B13.80, B13.81	—	—
W22.2	FILL. PEN. WELD	BRANCH CONN. WELD	DWB-2500-10	—	BA32	—	—		—
W23.2	BW	CIRC. WELD	DWB-2500-6	—	BA21				—
W24.0				—		—		—	—
W30.0				—		—		—	—
W40.0				—		—		—	—
W41.0				—		—		—	—
W50.0				—		—		—	—
W60.0				—		—		—	—
W61.0				—		—		—	—
W70.0				—		—		—	—
W80.0				—		—		—	—
W130				—		—		—	—
W131				—		—		—	—
W132				—		—		—	—
W133				—		—		—	—
W134				—		—		—	—
W140				—		—		—	—

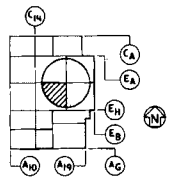
LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1204-076	1	III	F60	3"	160	.438"	SA-312 SUPERM.	2735	300	2735	115	1" PARTIAL



EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204U4025	HEADLE VALVE	PRESSURE COMPONENT	—	—	—	—	B13.70 B13.71	—	—
VI-1204-077-1001	1-DEA RESTRAINT	LINEAR SUPPORT	INF-1300-1	—	—	—		P2.29 F2.30	—
1002	WELD SIZE	CANTILEVER SUPPORT		—	—	—	—	F2.29 F2.30	—
1003	1-DEA RESTRAINT	LINEAR SUPPORT		—	—	—	—	F2.29 F2.30	—
11204-077-W01.0	B.W.	CIRC WELD	IVB25004	—	B9.21	—	B13.50 B13.51	—	—
W01.1	B.W.			—		—	—	—	—
W01.2				—		—	—	—	—
W01.3				—		—	—	—	—
W01.4				—		—	—	—	—
W01.5				—		—	—	—	—
W03.0				—		—	—	—	—
W03.1				—		—	—	—	—
W03.2				—		—	—	—	—
W04.0				—		—	—	—	—
W15.0				—		—	—	—	—
W16.0	S.W.			—	B9.40	—	—	—	—
11204-077-10FB	FE-0927	FLG BOLT PRESSURE	—	—	—	B7.50	—	—	—

LINE NUMBER	CLASS 1SI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-077	1	111	FG0	1.5"	160	.281"	SA 312 GR TP304L	2735	300	2735	119	N/A





KEY PLAN
LEVEL B

LEGEND:
1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ⌓ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:
P & I D — — — — 1X4DB111,119
FAB. ISO. — — — — 1X4-1204-077-02/14
PIPING LAYOUT DWG — 1X4DL4005
CIVIL/STRUCTURAL — 1X2048A007,011
HANGER DETAIL DWG — VI-1204-077-4001 & 9

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	
4	5-19-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI.
3	11-16-85	REROUTE PIPE AND ADDED NEW WELDS ADDED REF. WELD NO. 11
2	3-15-85	ADDED: NEW WELD NO'S
1	11-29-84	REVISED LEGEND AND REFERENCES. HEADLE VALVE WAS GLOBE VALVE CHANGED ALL WELD NUMBERS. B.W. WAS S.W. CHANGED REF WELD NUMBER ON LINE 246.
0	9-6-83	ISSUED FOR INSPECTION

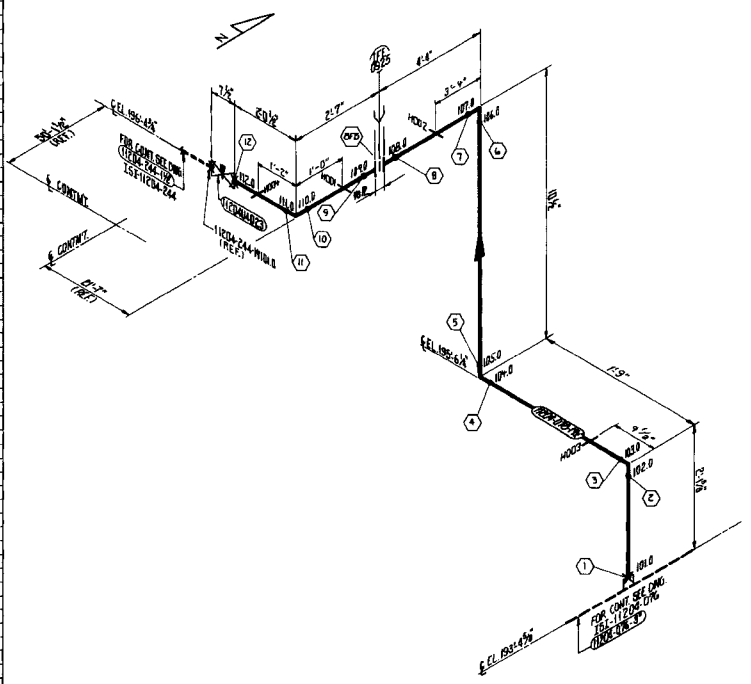
Southern Company Services, Inc.
FOR
GEORGIA POWER COMPANY

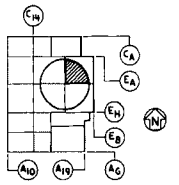
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 077
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

DESIGNED FT DRAWN BKG CHECKED WS
SCALE NONE
DRAWING NUMBER ISI-11204077 REV. 4

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204U4023	*WELDOLET VALVE	PRESS. BOUND. COMPONENT	—	—	—	—	U.R.-1.11 Rev. 11	—	—
VI-1204-078-H001	2 DIA. RESTRAINT	LINEAR SUPPORT	1UF-1200-1	—	—	—	—	F2.10 F2.30	—
H002				—	—	—	—		—
H003	*WELD ABOVE PART REQ.	COMPONENT SUPPORT		—	—	—	—	F3.10 F3.30	—
H004	2 DIA. RESTRAINT	LINEAR SUPPORT		—	—	—	—	F2.10 F2.30	—
11204-078-W100	6.IN.	CLAD PIPE	1X4B 2580-8	—	88.21	—	U.R.-1.11 Rev. 21	—	—
11204-078-W102.0				—		—		—	—
11204-078-W103.0				—		—		—	—
11204-078-W104.0				—		—		—	—
11204-078-W105.0				—		—		—	—
11204-078-W106.0				—		—		—	—
11204-078-W107.0				—		—		—	—
11204-078-W108.0				—		—		—	—
11204-078-W109.0				—		—		—	—
11204-078-W110.0				—		—		—	—
11204-078-W111.0				—		—		—	—
11204-078-W112.0	6.IN.			—	89.48	—		—	—
11204-078-BFB	FC-0928	*WELD ABOVE PRESSURE CONTROL	—	—	—	B1.50	—	—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-078	1	111	FG0	1.50"	160	0.281"	304-S/S TP-304L	2735	300	2735	165	N/A





KEY PLAN
LEVEL B

LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:

B&LD. ——— 1X4DB119

FAB ISO. ——— 1X4-1204-078-02

PIPING LAYOUT DWG. ——— 1X4DL&B05

CIVIL/STRUCTURAL ——— 1X204BF002

HANGER DETAIL DWG. ——— VI-1204-078-H001 THRU VI-1204-078-H004

ISI CLASSIFICATION DWG. ——— 1SI-0-044

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	
2	3-15-85	ADDED NEW WELD NO'S
1	12-7-84	REVISED WELD NUMBERS & ADDED CLASSIFICATION DWG.
0	2-6-84	ISSUED FOR INSPECTION

Southern Company Services, Inc.
FOR
GEORGIA POWER COMPANY

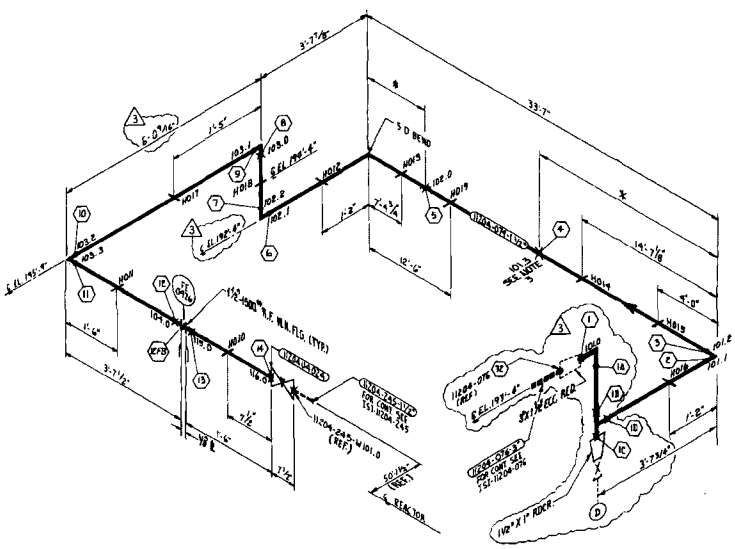
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 078
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

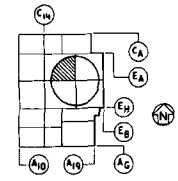
DRAWN FF CHECKED G.B.B. CHECKED W.S.

SCALE NONE | PROJECT LIB | DRAWING NUMBER ISI-11204-078 | REV. 2

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204-04.624	METER & VALVE	PROV. BOT CONNECT	—	—	—	—	B15.10 B15.11	—	—
VI-1204-079-H010	F-DIR. RESTRAINT	STRUT SUPPORT	IWF-5000-1	—	—	—	—	F2.20 F2.50	—
H011				—	—	—	—		—
H012				—	—	—	—		—
H013				—	—	—	—	F2.20	—
H014				—	—	—	—		—
H015				—	—	—	—	F2.20 F2.50	—
H016				—	—	—	—		—
H017				—	—	—	—		—
H018	F-DIR. RESTRAINT			—	—	—	—		—
H019	F-DIR. RESTRAINT			—	—	—	—	F2.20	—
11204-079-W101.0	BW	CIRC. WELD	IWB-2500-8	—	B9.21	—	B15.50 B15.51	—	—
W101.1				—		—		—	—
W101.2				—		—		—	—
W101.3				—		—		—	—
W102.0				—		—		—	—
W102.1				—		—		—	—
W102.2				—		—		—	—
W103.0				—		—		—	—
W103.1				—		—		—	—
W103.2				—		—		—	—
W103.3				—		—		—	—
W104.0				—		—		—	—
W115.0				—		—		—	—
W116.0	SW			—	B9.40	—		—	—
11204-079-EFB	FE-DIR.	PROV. BOT CONNECT	—	—	—	B7.50	—	—	—

LINE NUMBER	CLASS 1ST	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-079	1	111	160	1½"	160	.281	SA-312 TP304L	2735	300	2735	145	N/A





KEY PLAN
LEVEL "B"

LEGEND:
1. ✱ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ⌒ BRANCH CONNECTION WELD.
6. ⊣⊢ PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:
P & ID _____ IX4DB111,119
FAB ISO _____ IK4-1204-079-02

PIPING LAYOUT DWG _IX4DL4C04,C05,C06
CIVIL/STRUCTURAL _IX2D4BF002,F004
HANGER DETAIL DWG _VI-1204-079-H010 THRU H019

ISI PIPING CLASS
DWG. ____ ISI-D-044

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.D.)
3. W101.3 IS NUMBERED W101A ON FAB. ISO.

* FIELD DETERMINE

REVISION	DATE	ITEM
9	11-13-85	ADDED: NEW WELD NO'S. TEE & REDUCER CHANGED ELEVATION AND DIMENSIONS
2	3-19-85	ADDED: NEW WELD NO'S
1	11-29-84	REVISED LEGEND AND REFERENCES ADDED NOTE 3 ADDED WELD 101.3
0	10-25-83	ISSUED FOR INSPECTION

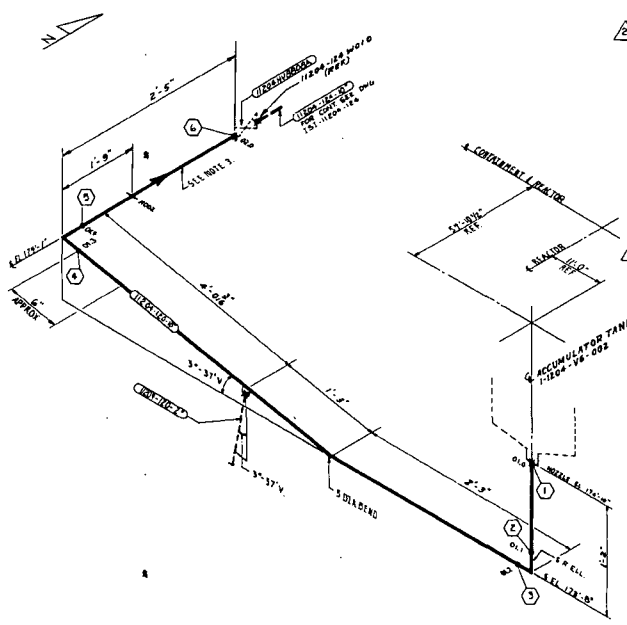
Southern Company Services, Inc.
FOR
GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT I - LINE NO. 079
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION - SYSTEM 1204

DESIGNED FT DRAWN DRC CHECKED US
SCALE NONE
DRAWING NUMBER ISI-11204-079 REV 3

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO.1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
VI-0 (CON) 1120-4002	1 OF BUSTINLET	LINKER SUPPORT	IWF-1300-1	–	–	–	–	F13.0 F13.0	–
11204-120-W010	B.W	CIRC. WELD	IWC-2500-7	–	C5.11	–	C7.20 C7.21	–	–
W011				–		–		–	–
W012				–		–		–	–
W013				–		–		–	–
W014				–		–		–	–
W020				–		–		–	–

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-120	2	212	HG0	10"	40S 40.0	.365	SA-312 TP-304L	700	300	700	120	N/A



LEGEND:
1. W INDICATES FIELD WELD
2. ● INDICATES SHOP WELD
3. ⊕ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT
4. PIPE SUPPORT

REFERENCE DRAWINGS:

P & ID _____ 1X4DB120

FAB ISO _____ 1X4-1204-120-02

PIPING LAYOUT DWG _ 1X4DL4A07

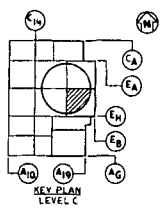
CIVIL/STRUCTURAL _ _ 1X2D4BF002

HANGER DETAIL DWG _ VI-1204-120-W002

F-SHEET _____ F-4396

ISI CLASSIFICATION DWG _ 151-D-045

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP SEE BECHTEL DWG A1X4DR001 APPENDIX D (UNO)
3. THIS SECTION OF PIPE IS MADE OF SCHED 40 SA-312 TP-316L STAINLESS STEEL. WALL THICKNESS 1". ONE END C'BORED TO MATCH 10" S/40S BORE OTHER END BEVELED TO MATCH VALVE 11204-HV8800A.



KEY PLAN
LEVEL C

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 4-1-85	REVISION 1	DATE 5-31-84	REVISION 0	DATE 10-10-83
						ADDED NEW WELD NO'S REVISED NOTE'S REFERENCES & LEGEND REVISED EQUIPMENT IDENTIFICATION NO.		CHANGED SURF EXAMINATION FROM C5.21 TO C5.11 ON WELDS W014, W020		ISSUED FOR INSPECTION	
BY	CHK'D	APPR.1	APPR.2	APPR.3	APPR.4	BY	CHK'D	APPR.1	APPR.2	BY	CHK'D
						RKG	WS	CWB		CWB	WS

Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 120
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION - SYSTEM 1204

DESIGNED FT | DRAWN RSG | CHECKED WS

SCALE	PROJECT NO.	DRAWING NUMBER	REV
NONE		151-11204-120	2

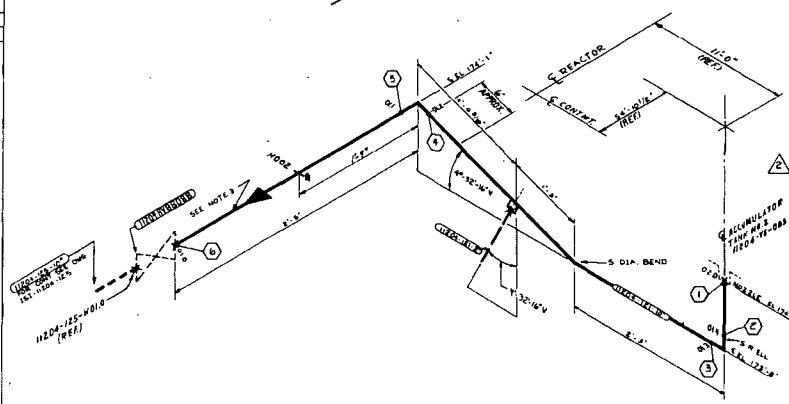
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM. REQUIREMENT FIG	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT 1	VT 2	VT 3	VT 4
VI-1204-121-H002	1 PIPE RESTRAINT	1 PIPE SUPPORT	IWF-1300-1	—	—	—	—	PT-85 PT-10	—
1204/121 WO1 0	BW	CIRC. WELD	IWC-1500-1	—	CS 11	—	VT-2B VT-3	—	—
WO1 1				—		—		—	—
WO1 2				—		—		—	—
WO1 3				—		—		—	—
WO1 4				—		—		—	—
WO2 0				—		—		—	—

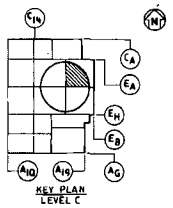
LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1204-121	2	2/2	1460	10"	40S (0.718)	.365	SA-312 TP-304L	700	800	700	150	N/A

LEGEND:
1. N INDICATES FIELD WELD.
2. ⊕ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
3. ● INDICATES SHOP WELD.
4. — PIPE SUPPORT

REFERENCE DRAWINGS:
P & ID ____ 1X4DB120
FAB ISO. ____ 1X4-1204-125-01
PIPING LAYOUT DWG. 1X4DL4807
CIVIL/STRUCTURAL ____ 1X2D48F002
HANGER DETAIL DWG. ____ V1-1204-121-H002
F-SHEETS ____ F-5970
ISI CLASSIFICATION DWG. ISI-D-046

NOTES:
1. SEE ISI PLAN FOR SELECTIONS AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP SEE BECHTEL DWG A2N0R001 APPENDIX D/(U.N.O.)
3. THIS SECTION OF PIPE IS MADE OF SCHED 40 SA-312 TP-316L STAINLESS STEEL. WALL THICKNESS 1", ONE END C'BORED TO MATCH 10" S/40S BORE. OTHER END BEVELED TO MATCH VALVE 1204V8808B.





KEY PLAN
LEVEL C

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 4-1-85	REVISION 1	DATE 5-31-84	REVISION 0	DATE 10-10-83
						ADDED NEW WELD NO'S REVISED LEGEND NOTES & REFERENCES. REVISED EQUIPMENT IDENTIFICATION NO.		CHANGED SURF. EXAMINATION FROM CS.21 TO CS.11 ON WELD WO1.0, WO1.1		ISSUED FOR INSPECTION	
						BKG WS CWH		CWH WS		BKG WS	

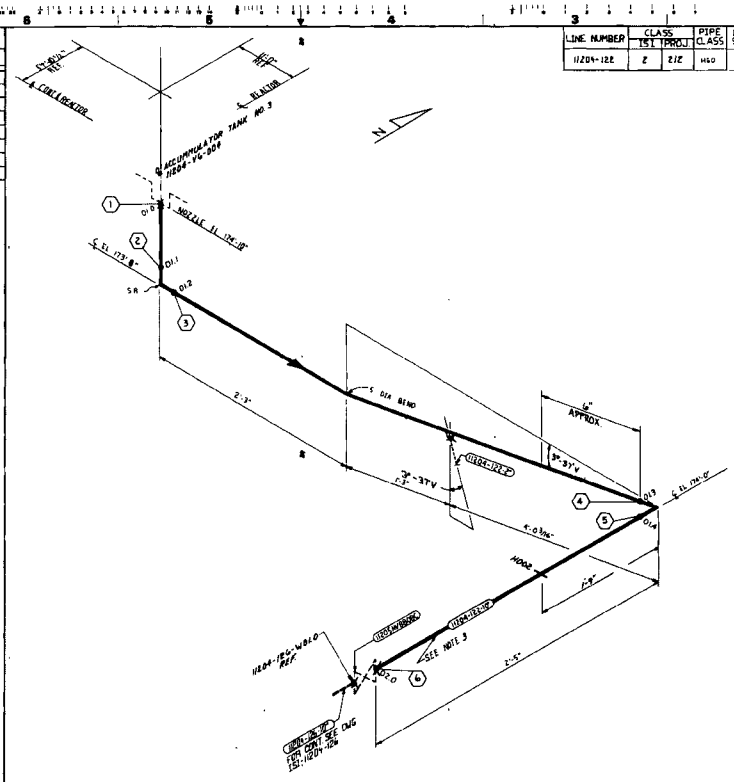
Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 121
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION - SYSTEM 1204

DESIGNED FT | DRAWN RSG | CHECKED WS
SCALE NONE | PROJECT I.D. | ENGINEER NUMBER ISI-1204-121 | REV 2

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.		PART EXAMINED (SEE NOTE NO. 1)		EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF	VT1	VT2	VT3	VT4
VI-1204-122-H002	TYP. ATTACHM.		TYPICAL SUPPORT		TAF-1000-1	–	–	–	–	PT KB PT.90	–
11204-122-W010	BW		CIRC WELD		IWC-2500-7	–	C5.11	–	C1.10 C1.11	–	–
W011						–		–		–	–
W012						–		–		–	–
W013						–		–		–	–
W014						–		–		–	–
W020	↓		↓		↓	–	↓	–	↓	–	–

LINE NUMBER	CLASS TSI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT'G PRESS.	OPERT'G TEMP.	INSUL. THKN.
11204-122	2	2/2	H40	10"	160 (W/ABS)	0.365	SA312 TP304L	700	300	700	120	N/A

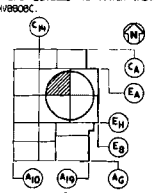


LEGEND:
1. X INDICATES FIELD WELD
2. ● INDICATES SHOP WELD.
3. — PIPE SUPPORT

REFERENCE DRAWINGS:
P & ID — — — — — IX4DB120
FAB ISO — — — — — IX4-1204-122-01

PIPING LAYOUT DWG — IX4DL4C07
CIVIL — — — — — IX2D4BA005, A006, B005
HANGER DETAIL DWG — VI-1204-122-H002
F-SHEETS — — — — — F-4397
ISI CLASSIFICATION DWG. 1S1-D-0449

NOTES:
1. SEE 1S1 PLAN FOR SELECTION AND FREQUENCY OF EXAMINATION
2. FOR PIPE WELD END PREP SEE BECHTEL DWG A4NDR001 APPENDIX D (U.N.O.)
3. THIS SECTION OF PIPE IS MADE OF SCHED. 160 SA-312 TP-316L STAINLESS STEEL. WALL THICKNESS .1" ONE END C'BORED TO MATCH 10" S/40S BORE, OTHER END BEVELED TO MATCH VALVE 1120HV8808C.



KEY PLAN
LEVEL C

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 4-1-85	REVISION 1	DATE 5-31-84	REVISION 0	DATE 10-10-83
						ADDED NEW WELD NO'S REVISED NOTES REFERENCES & LEGEND		CHANGED SURF. EXAMINATION FROM C5.21 TO C5.11 ON WELDS W014, W020		ISSUED FOR INSPECTION	

Southern Company Services, Inc.
FOR
Georgia Power Company

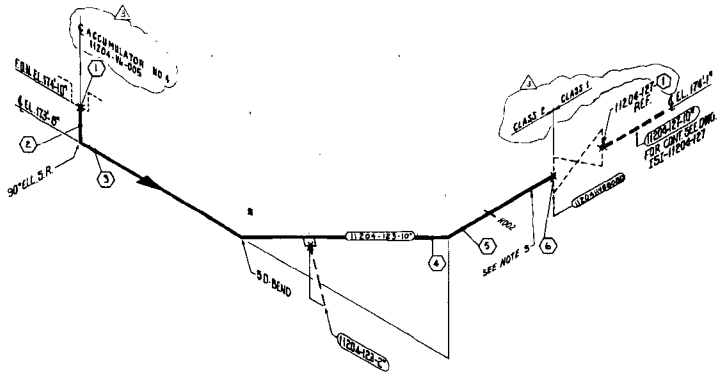
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 122
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION - SYSTEM 1204

DESIGNED FT | DRAWN DRC | CHECKED US

SCALE	PROJECT I.D.	DRAWING NUMBER	REV.
NONE		1S1-11204-122	2

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204-123-H002	LUG ATTACHMENT	VENDOR SUPPORT	IWF-1300-1	—	—	—	—	3.1.B	
11204-123-W010	BW	PIPE WELD	IWC-2500-7	—	C.S.U.	—	C.7.20 C.7.21	—	—
D1.1						—		—	—
D1.2						—		—	—
D1.3				—		—		—	—
D1.4				—		—		—	—
D2.0				—		—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-123	2	2/2	H60	10"	40S	.365	SA-312 TP-304L	700	300	700	120	N/A

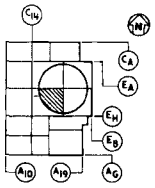


LEGEND:
1. N INDICATES FIELD WELD.
2. ⊕ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
3. • INDICATES SHOP WELD.
4 — PIPE SUPPORT

REFERENCE DRAWINGS:
P & ID — 1X4DB120
FAB ISO. — 1X4-1204-123-02/17

PIPING LAYOUT DWG — 1X4DL4007
CIVIL/STRUCTURAL — 1X2DMF002
HANGER DETAIL DWGS — VI-1204-123-H002
F-SHEETS — F-5361

NOTES:
1. SEE ISI PLAN FOR SELECTIONS AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP SEE BECHTEL DWG A4N0R001 APPENDIX D.(U.N.O.)
3. THIS SECTION OF PIPE IS MADE OF SCHED. 140 SA-312 TP-316L STAINLESS STEEL. WALL THICKNESS 1", ONE END C'BORED TO MATCH 10" S/40S BORE. OTHER END BEVELED TO MATCH VALVE 1120HV8808D.



KEY PLAN
LEVEL C

REVISION	DATE	REVISION	DATE	REVISION 3	DATE 5-27-87	REVISION 2	DATE 4-1-85	REVISION 1	DATE 3-31-84	REVISION 0	DATE 10-10-83
				GENERAL REVISION TO UPDATE DRAWING FOR ISI		ADDED NEW WELD NO'S REVISED REFERENCES, NOTES & LEGEND		CHANGED SURF. EXAMINATION FROM C6.21 TO C6.11 ON WELDS W014, W018		ISSUED FOR INSPECTION	
BY	RLB	CHK'D	GLB	APPR. 1	SGC	BKG	WS	CWB	CAA	WS	H

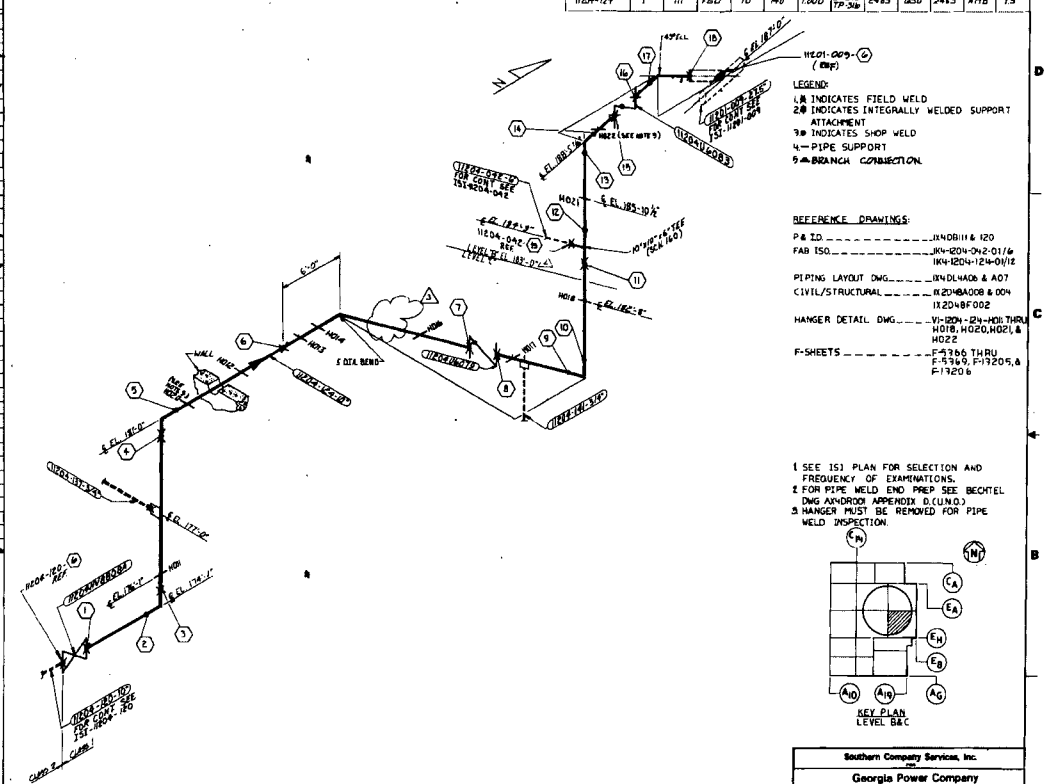
Southern Company Services, Inc.
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO 123
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION - SYSTEM 1204

DESIGNED FT | DRAWN RSG | CHECKED WS
SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-11204-123 | REV. 3

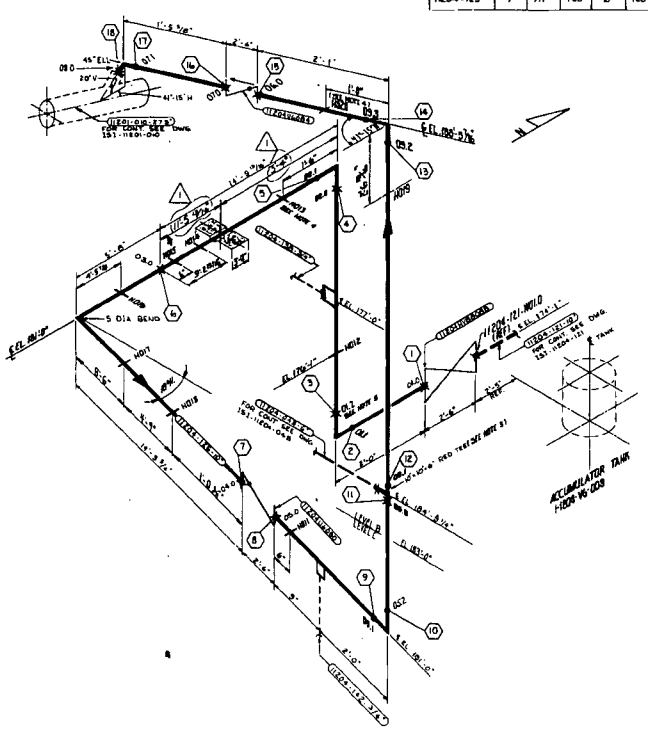
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIB.	PART EXAMINED (SEE NOTE 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204U6085	CHECK VALVE	WELD KEY ATTACHMENT		—	—	—	BOS 70 BOS 71	—	—
11204U6079				—	—	—	—	—	—
11204W9604	CONTROL VALVE			—	—	—	—	—	—
11204-124-H011	2 CURVE BENDOUT	LINEAR CHANGE DIRECT	CWT-300-1	—	—	—	—	72B/72D 73A/73C	—
H012	WELD ATTACH			—	—	—	—	73A/73C	—
H013	WELD ATTACH			—	—	—	—	73A/73C	—
H014	WELD ATTACH			—	—	—	—	73A/73C	73.50
H015				—	—	—	—	73A/73C	—
H016	1 CURVE BENDOUT	LINEAR CHANGE DIRECT		—	—	—	—	72B/72D 73A/73C	—
H017	WELD ATTACH			—	—	—	—	73A/73C	73.50
H018	WELD ATTACH			—	—	—	—	73A/73C	—
H020	WELD ATTACH			—	—	—	—	73A/73C	—
H021	WELD ATTACH STRUT			—	—	—	—	73A/73C	—
H022	HORIZONTAL HANGER			—	—	—	—	73A/73C	73.40
H014-124-W010	3W	CONC. WELD	IWB-2500-8	B9.11	B9.11	—	BOS 80 BOS 81	—	—
W011						—		—	—
W012						—		—	—
W020						—		—	—
W021						—		—	—
W026						—		—	—
W027						—		—	—
W028						—		—	—
W029						—		—	—
W030						—		—	—
W031						—		—	—
W032						—		—	—
W033						—		—	—
W034						—		—	—
W035						—		—	—
W036						—		—	—
W037						—		—	—
W038						—		—	—
W039						—		—	—
W040						—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT PRESS	OPERT TEMP.	INSUL THKN.
11204-124	1	III	FG1	10"	140	1.000"	SA-376 TP-316	2485	650	2485	4MB	1.5"


N
45° ELL
11E01-009-G (BWF)
11E04-042-REF
11E04-042-REF
11E04-042-REF

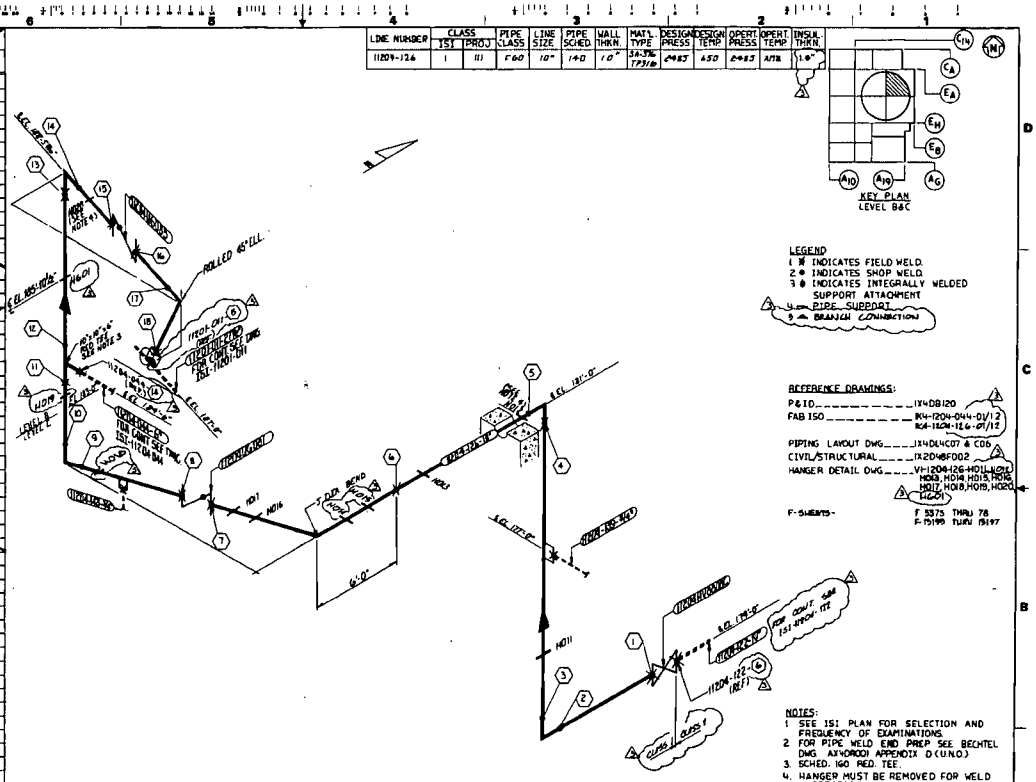
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)		EXAM REQUIREMENT FIG	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204W0084	CHECK VALVE	PIPE-VALVE INST. CONN.		—	—	—	—	W2.19 W2.19	W2.40	—
11204W0080	↓			—	—	—	—			—
11204HW8088	CONT VALVE			—	—	—	—			—
VI-1204-125-H011	HANGER DETAIL SUPPORT	CONTROL SUPPORT	TRP-1000-1	—	—	—	—			F8.00
H012	HANGER DETAIL SUPPORT	BLOCK SUPPORT		—	—	—	—			—
H013	HANGER DETAIL SUPPORT	CONSTANT SUPPORT		—	—	—	—			—
H014	↓	↓		—	—	—	—			—
H015	HANGER DETAIL SUPPORT			—	—	—	—			F3.00
H016	HANGER DETAIL SUPPORT	BLOCK SUPPORT		—	—	—	—			—
H017	HANGER DETAIL SUPPORT	CONSTANT SUPPORT		—	—	—	—			F3.00
H018	HANGER DETAIL SUPPORT	BLOCK SUPPORT		—	—	—	—			—
H019	HANGER DETAIL SUPPORT	CONSTANT SUPPORT		—	—	—	—			—
H020	HANGER DETAIL SUPPORT	↓		—	—	—	—			F3.00
11204-125-W010	BW	CIRC. WELD	IW8-7500-8	B9.11	B9.11	—	—	B5.30 B9.31	—	—
W011							—		—	—
W012							—		—	—
W020							—		—	—
W021							—		—	—
W030							—		—	—
W040							—		—	—
W050							—		—	—
W051							—		—	—
W052							—		—	—
							—		—	—
							—		—	—
W060							—		—	—
W070							—		—	—
W071							—		—	—
W080							—		—	—
W090							—		—	—
W091							—		—	—
W092							—		—	—
W093							—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT TEMP.	INSUL. THKN.
11204-125	1	111	960	10"	140	1.000	SA-376 TP-316	2485	650	2485	AMB	1.5


45° ELL
20° V
41'-15" H
11E01-D08-E7B3
ZONE CONTP SEE DWG. ISI-11E01-D08
11E01-D08-E7B3
ZONE CONTP SEE DWG. ISI-11E01-D08
11E01-D08-E7B3
ZONE CONTP SEE DWG. ISI-11E01-D08
5 DIA BEND
11E01-D08-E7B3
ZONE CONTP SEE DWG. ISI-11E01-D08

LINE NUMBER	CLASS IST	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN.	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP	OPERT. PRESS	OPERT. TEMP	INSUL. THKN.
11204-126	I	III	F60	10"	140	1.0"	316 TP316	2485	650	2485	AMB	1.0"

COMPONENT OR DEL'D IDENTIFICATION NO.	WELD OR EQUIP DESCRIP.	PART EXAMINED (SEE NOTE NO.1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204-H68B.S	CHECK VALVE	PIPING BET COMPONENT	—	—	—	—	—	—	—
11204-HV8B.S.N.C.	CONTROL VALVE		—	—	—	—	—	—	—
11204-LW.01	CHECK VALVE		—	—	—	—	—	—	—
VH-1204-126-H011	2" PIPE	HANGER COMPONENT	REF. 1000-1	—	—	—	—	—	—
H008	SPR. S	HANGER COMPONENT		—	—	—	—	—	—
H014	SPR. S	HANGER COMPONENT		—	—	—	—	—	FB.50
H015	SPR. S	HANGER COMPONENT		—	—	—	—	—	—
H016	RIGID S	HANGER COMPONENT		—	—	—	—	—	FB.50
H017	RIGID S	HANGER COMPONENT		—	—	—	—	—	—
H018	RIGID S	HANGER COMPONENT		—	—	—	—	—	FB.50
H019	RIGID S	HANGER COMPONENT		—	—	—	—	—	—
H020	RIGID S	HANGER COMPONENT		—	—	—	—	—	FB.50
H012	RIGID SNBT			—	—	—	—	—	—
11204-126-W01.0	B.W.	CTRC WELD	IWB-2500-1	BM.11	BM.11	—	BM.50 BM.51	—	—
W01.1							—	—	—
W04.0							—	—	—
W02.0							—	—	—
W02.1							—	—	—
W03.0							—	—	—
W04.0							—	—	—
W05.0							—	—	—
W05.1							—	—	—
W05.2							—	—	—
W06.0							—	—	—
W07.0							—	—	—
W07.1							—	—	—
W08.0							—	—	—
W09.0							—	—	—
W09.1							—	—	—
W10.0							—	—	—
W10.1							—	—	—



REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
				3	5-21-87	2	3-14-85	1	12-7-84
				GENERAL EXAMINATION TO UPDATE DRAWING FOR ISI.		ADDED NEW WELD NO'S, HANGER H012, NOTE 4		REVISED SYSTEM NUMBER.	

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
0	12-10-81						
ISSUED FOR INSPECTION							

BY	CHK'D	APPR.1	APPR.2	APPR.3	APPR.4	BY	CHK'D	APPR.1	APPR.2	APPR.3	APPR.4	BY	CHK'D	APPR.1	APPR.2	APPR.3	APPR.4	BY	CHK'D	APPR.1	APPR.2	APPR.3	APPR.4	BY	CHK'D	APPR.1	APPR.2	APPR.3	APPR.4
MLB	GLB	DDC										JRG	WS	CWB				BAB	WS	CWB				BKG	WS				

Southern Company Services, Inc.

Georgia Power Company

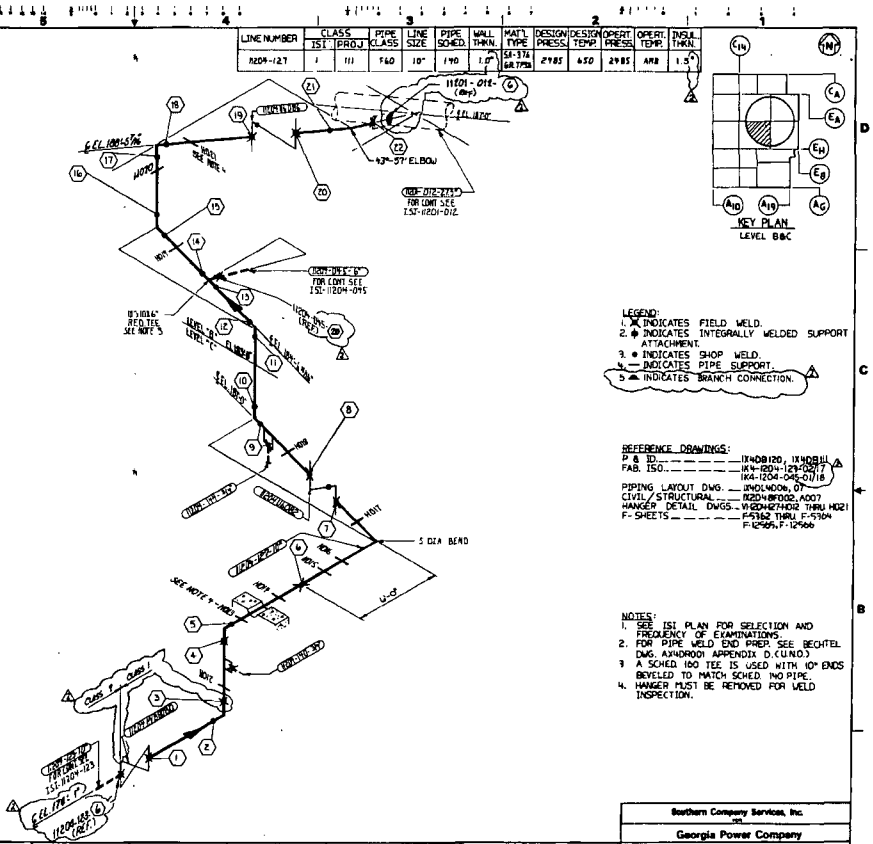
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 126
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION - SYSTEM 1204

DESIGNED PT | DRAWN EAL | CHECKED US

SCALE NONE | DRAWING NUMBER ISI-11204-126 | REV. 5

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR BOLTED DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
H201 HYDROBD	HYDRO BOARD	PRESS. TEST COMPONENT	—	—	—	—	B-P-1	—	—
H201 BA 002	CKED STRAT		—	—	—	—		—	—
H201 GA 006			—	—	—	—		—	—
VH-1204-127-H002	2" OR 1½" STRAIGHT	CHECK SUPPORT COMPONENT	CM-200-1		—	—	—	F2.0 F2.20 F2.30 F3.10 F3.20	—
H013	FIELD STRAT	COMPONENT SUPPORT		—	—	—	—	F2.0 F2.20 F2.30 F3.10 F3.20	—
H014	RECTANGULAR SUPPORTS			—	—	—	—	F2.0 F2.20 F2.30 F3.10 F3.20	F3.50
H015				—	—	—	—		
H016	1" OR 1½" RECTANGULAR SUPPORTS	CHECK SUPPORT COMPONENT		—	—	—	—	F2.0 F2.20 F2.30 F3.10 F3.20	—
H017	RECTANGULAR SUPPORTS	CHECK SUPPORT COMPONENT		—	—	—	—	F2.0 F2.20 F2.30 F3.10 F3.20	F3.50
H018	1" OR 1½" RECTANGULAR SUPPORTS	CHECK SUPPORT COMPONENT		—	—	—	—	F2.0 F2.20 F2.30 F3.10 F3.20	—
H019	RECTANGULAR SUPPORTS	CHECK SUPPORT COMPONENT		—	—	—	—	F2.0 F2.20 F2.30 F3.10 F3.20	F3.50
H020	ROUND TEE TRUNT			—	—	—	—	F2.0 F2.20 F2.30 F3.10 F3.20	—
H021	RECTANGULAR SUPPORTS			—	—	—	—	F2.0 F2.20 F2.30 F3.10 F3.20	F3.50
1204-127-W018	BW	CIRC. WELD	DWG-2500-B	B9.11	B9.11		B9.50 (NO.5)	—	—
W011								—	—
W012								—	—
W013								—	—
W021								—	—
W030								—	—
W040								—	—
W050								—	—
W051								—	—
W052								—	—
W053								—	—
W054								—	—
W055								—	—
W056								—	—
W057								—	—
W058								—	—
W059								—	—
W060								—	—
W061								—	—
W070								—	—
W080								—	—
W081								—	—
W090								—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT PRESS.	OPERT. TEMP.	INSUL THKN.
1204-127	1	111	560	10"	140	1.0"	SA-376 GR.TP316	2985	650	2985	AMB	1.5"



LEGEND:
1. ⊠ INDICATES FIELD WELD.
2. ♦ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
3. ● INDICATES SHOP WELD.
4. — INDICATES PIPE SUPPORT.
5. ▲ INDICATES BRANCH CONNECTION.

REFERENCE DRAWINGS:
P & ID ——— IX4DB120, IX4DB111
FAB. ISO. ——— IX4-1204-129-D007, IX4-1204-045-D118
PIPING LAYOUT DWG. — IX4DL4D06, 07
CIVIL/STRUCTURAL — IX2D4BF000, A007
HANGER DETAIL DWGS — VH2DH2H002 THRU H021
F-SHEETS ——— F-5362 THRU F-5364, F-12506, F-12506

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)
3. A SCHED. 160 TEE IS USED WITH 10" ENDS BEVELED TO MATCH SCHED. 140 PIPE.
4. HANGER MUST BE REMOVED FOR WELD INSPECTION.

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 5-21-87	REVISION 1	DATE 3-19-85	REVISION 0	DATE 5-30-84
						GENERAL REVISION TO UPDATE DRAWINGS FOR ISI.		ADDED: NEW WELD NO'S		ISSUED FOR INSPECTION	

Southern Company Services, Inc.

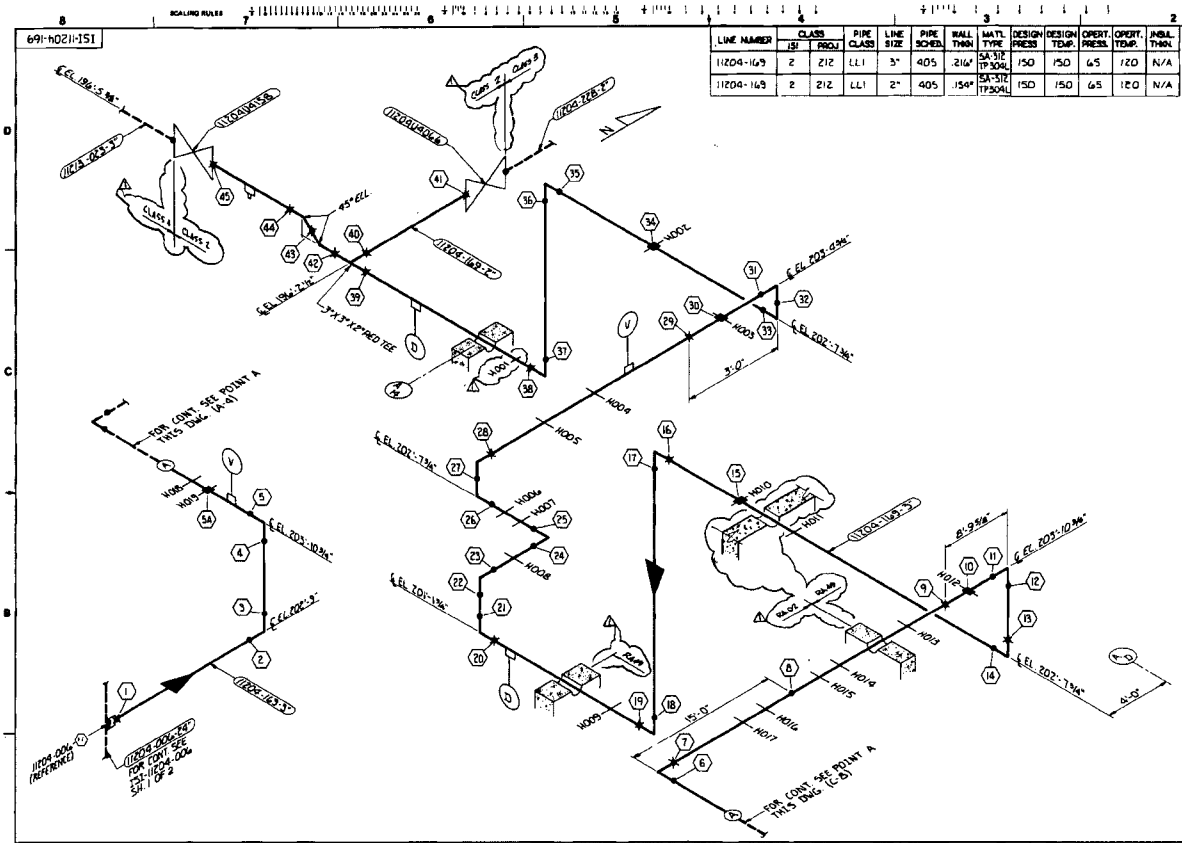
Georgia Power Company

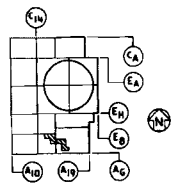
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 127
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-11204-127 | REV 2

691-H0211-151

LINE NUMBER	CLASS 151	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-169	2	212	LL1	3"	40S	.216"	SA-312 TP304L	150	150	65	120	N/A
11204-169	2	212	LL1	2"	40S	.154"	SA-312 TP304L	150	150	65	120	N/A





LEGEND:
1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ◢ BRANCH CONNECTION WELD.
6. —|—| PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:
P&ID ____ IX4D51121, 150
FAB 150 ____ IK5-1204-169-01/14
PIPING LAYOUT DWG ____ IX4DL3F05, H05
CIVIL/STRUCTURAL ____ AX7D08F054
HANGER DETAIL DWG ____ VI-1204-169-H001 THRU H019
F-SHEETS ____ F-4744, F-4748, F-4750, F-4751, F-4752, F-8225, F-4747

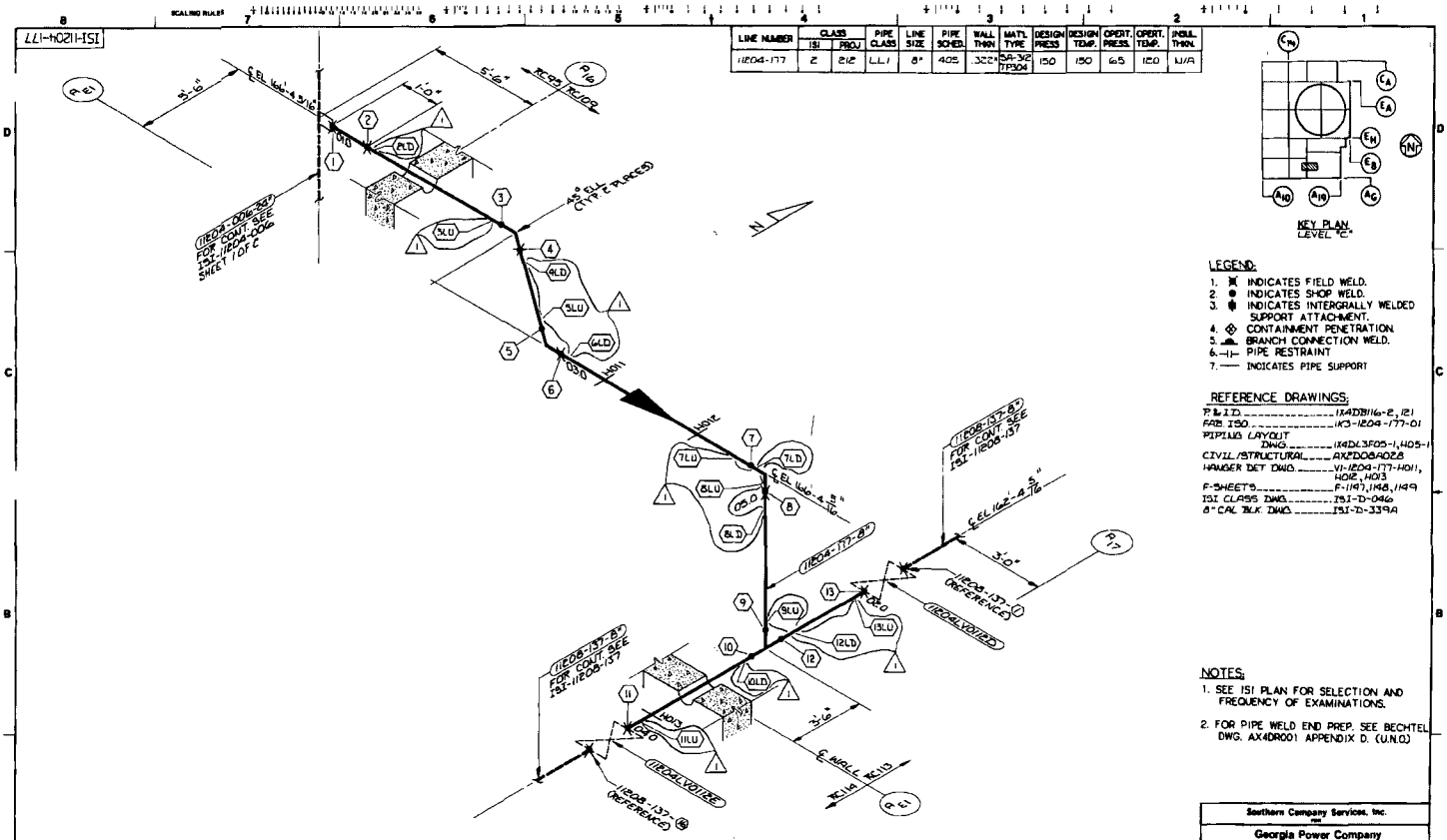
NOTES:
1. SEE 151 PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 1	DATE 8-28-87	REVISION 0	DATE 11-13-85
								GENERAL REVISION TO UPDATE DRAWING FOR 151		ISSUED FOR INSPECTION	

BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5

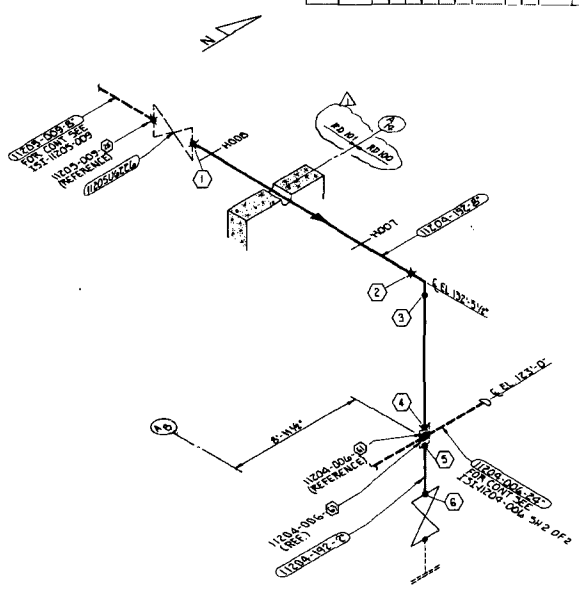
ISI-1204-177

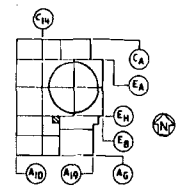
LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1204-177	2	212	LL1	8"	40S	.322"	SA-312 TP304	150	150	65	120	N/A


KEY PLAN
LEVEL "C"
LEGEND:
1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. INDICATES PIPE SUPPORT
REFERENCE DRAWINGS:
P&ID 1X4DB116-2, 121
FAB. ISO 1X3-1204-177-01
PIPING LAYOUT DWG. 1X4DL3F05-1, 405-1
CIVIL/STRUCTURAL AX2D08A028
HANGER DET DWG. V1-1204-177-H011, H012, H013
F-SHEETS F-1147, 1148, 1149
ISI CLASS DWG. ISI-D-046
8" CAL BLK. DWG. ISI-D-339A
NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)
SCALING RULES
N
1204-177-8"
1204-177-8"
1204-177-8"

ISI-11204-192

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-192	2	212	LL1	8"	40S	.322"	SA-312 TP304	150	150	100	115	N/A
↓	↓	↓	↓	2"	↓	.154"	↓	↓	↓	↓	↓	↓





KEY PLAN
LEVEL D

LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. PIPE SUPPORT

REFERENCE DRAWINGS:

PID ____ J14DB121, 122
FAB. ISO ____ JKS-1204-056-01/11
PIPING LAYOUT DWG ____ J14DL3001
CIVIL/STRUCTURAL ____ AX2D08F014
HANGER DETAIL DWG ____ VI-1209-192-H007
H007
F-SHEETS ____ F-1133, F-1134

NOTES:

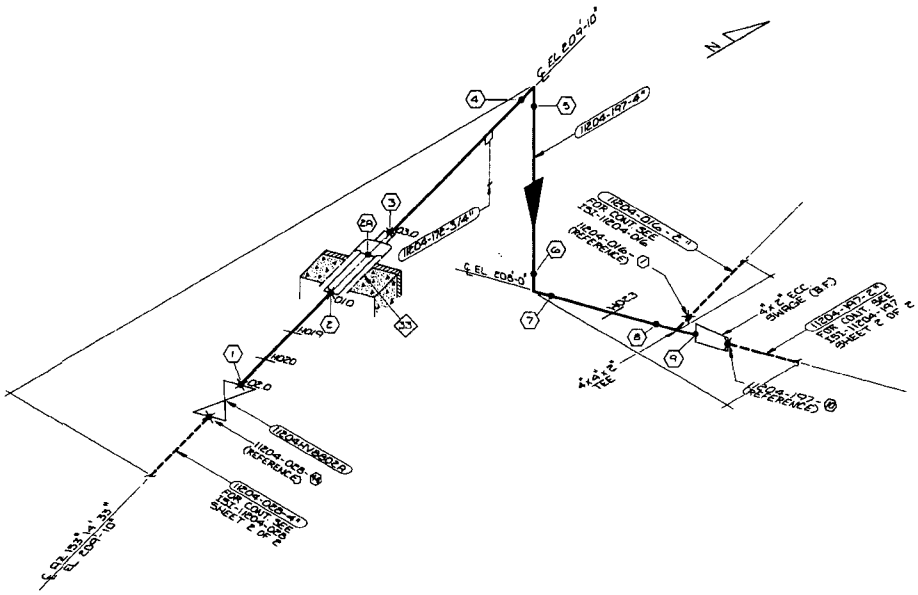
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

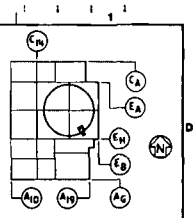
REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 1	DATE 5-27-87	REVISION 0	DATE 11-13-85
								GENERAL REVISION TO UPDATE DRAWING FOR ISI		ISSUED FOR INSPECTION	

BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5

ISI-11204-197

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-197	C	212	F60	4"	160	.531"	SA-312 TP304L	2485	650	2485	AMB	N/A





KEY PLAN
LEVEL "A"

LEGEND:

1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID I.D ____ 1X4DB121
FAB. ISO ____ 1K2-1204-028-03
1K4-1204-197-03
PIPING LAYOUT DWG ____ 1X4DL3303
1X4DC4A03
CIVIL / STRUCTURAL ____ AX2D089030
1X2D487006
HANGER DET. DWG ____ VI-1204-197-H019, H020, H023
F-SHEETS ____ F-4382, 14346
ISI CLASS DWG ____ ISI-D-046

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP, SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE
0	11-16-85

ISSUED FOR INSPECTION

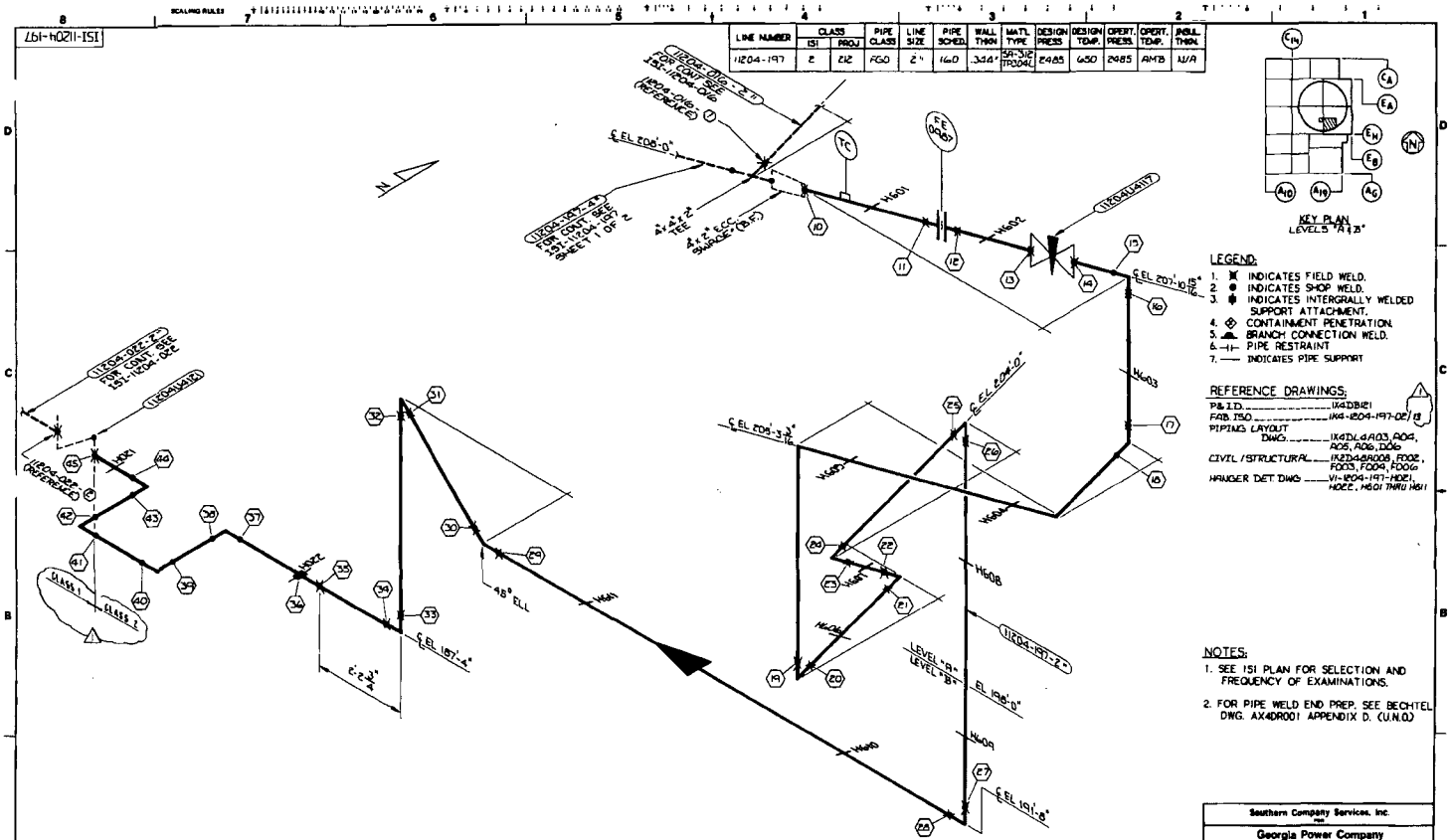
Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 197
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

DESIGNED CWD DRAWN BST CHECKED WS
SCALE NONE SHEET 1 OF 1
ISI-11204-197 0

ISI-1204-197

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1204-197	2	2/2	FG0	2"	160	.344"	SA-312 TP304L	2485	650	2485	AMB	N/A



LEGEND:

1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P&I.D. IX4DB121
FAB. ISO IX4-1204-197-02/13
PIPING LAYOUT DWG. IX4DL4A03, A04, A05, A06, D06
CIVIL / STRUCTURAL IX2344A008, F002, F003, F004, F006
HANGER DET DWG ..... V1-1204-197-H021, H022, H601 THRU H611

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 1	DATE 5-27-87	REVISION 0	DATE 11-18-85
								GENERAL REVISION TO UPDATE DRAWING FOR ISI		ISSUED FOR INSPECTION	

BY	CHK'D	APPR. 1	APPR. 2	BY	CHK'D	APPR. 1	APPR. 2	BY	CHK'D	APPR. 1	APPR. 2	BY	CHK'D	APPR. 1	APPR. 2	BY	CHK'D	APPR. 1	APPR. 2	BY	CHK'D	APPR. 1	APPR. 2
																				RLB	GLB	GLB	PSC

BY	CHK'D	APPR. 1	APPR. 2	BY	CHK'D	APPR. 1	APPR. 2
JST	WSC-A						

Southern Company Services, Inc.
FOR
Georgia Power Company

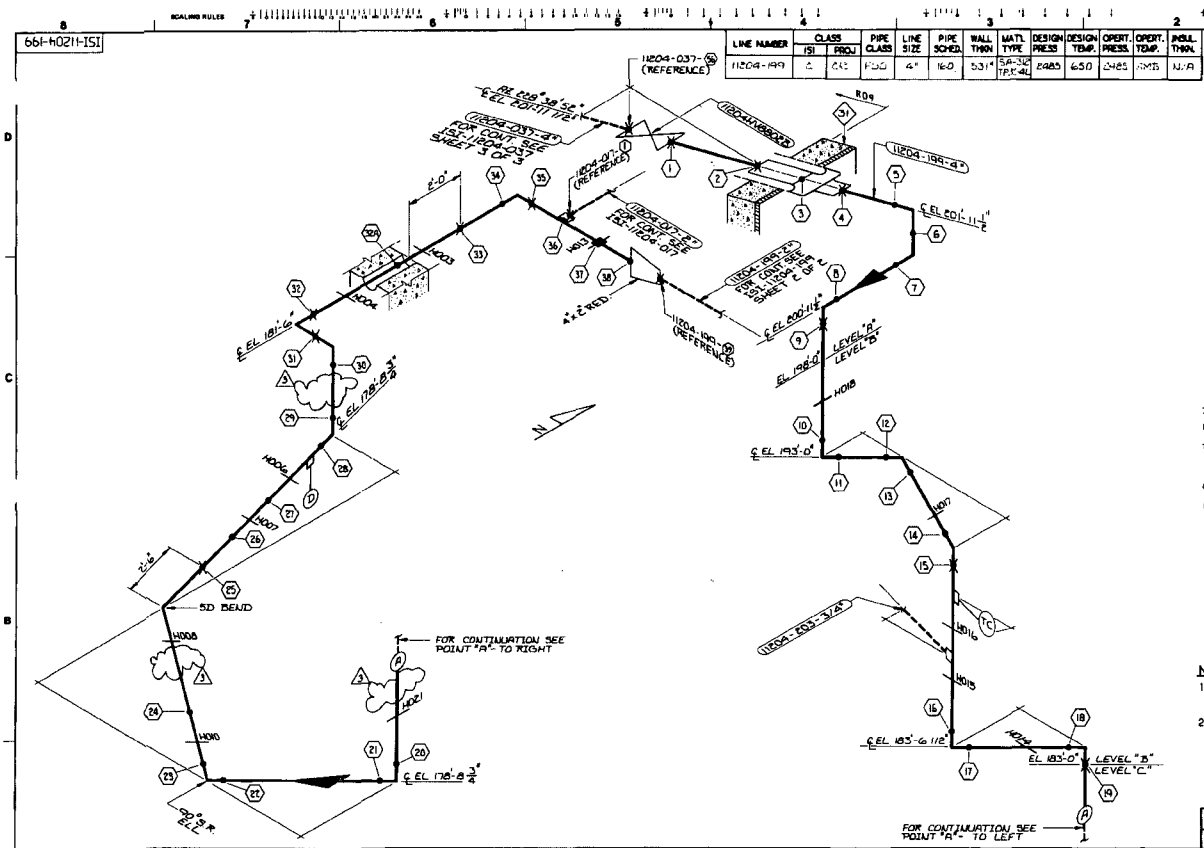
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 197
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION - SYSTEM 1204

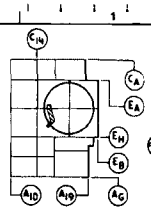
DESIGNED CWD DRAWN BST CHECKED WS

SCALE NONE SHEET 1 OF 1 PROJECT I.D. DRAWING NUMBER ISI-1204-197 REV. 1

661-H0211-ISI

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1204-199	A	AQ	F50	4"	160	.531"	SA-312 TP316L	2485	650	2485	650	N/A





KEY PLAN
LEVELS "A,B,&C"

LEGEND:

1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P&I.D. 1X4DB121
FAB ISO 1K7-1204-037-0118
1K4-1204-199-0118
199-03/11
PIPING LAYOUT DWG. 1X4DL3D02, 1X4DL4D04, D05, D06, D07, C07
CIVIL/STRUCTURAL 1XED48F002, F011, A007, AXZD09A009
HANGER DET. DWG. ..... V1-1204-199-H003 THRU H008, H010, H013 THRU H018, H020 THRU H022
F-SHEETS F-0365, 10718, 10719, 11986, 11987, 11988, 11989, 12934

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION 3	DATE 11-19-92	REVISION 2	DATE 5-27-87	REVISION 1	DATE 8-14-86	REVISION 0	DATE 11-13-85
				REMOVED HANGERS H005, H020 AND H022 PER PCR 92-005		GENERAL REVISION TO UPDATE DRAWING FOR ISI		ADDED WELD 32A		ISSUED FOR INSPECTION	
BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	APPR. 6				
				CWD	CWD	WB	GLB	BST	WS	BST	WS

Southern Company Services, Inc.
FOR
Georgia Power Company

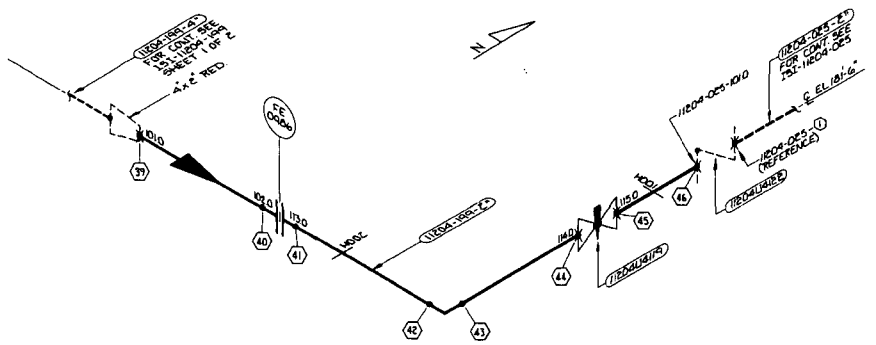
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 199
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

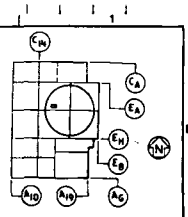
DRAWN CWD DESIGN BST ENGINEER WS

SCALE NONE | SHEET 1 OF 2 | PROJECT I.D. | DRAWING NUMBER ISI-1204-199 | REV. 3

ISI-H021-ISI

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-199	C	212	FG0	2"	160	.344"	SA-312 TP304L	2485	650	2485	AMB	N/A





KEY PLAN
LEVEL "C"

LEGEND:
1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|I|— PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:
P&I.D. 1X4DB021
FAB. ISO. 1K4-1204-199-QE
PIPING LAYOUT DWG. 1X4DL4C07
CIVIL/STRUCTURAL 1X2D46F002
HANGER DET. DWG. VI-1204-199-H001, H002
ISI CLASS. DWG. ISI-D-046

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE
D	11-28-85

ISSUED FOR INSPECTION

Southern Company Services, Inc.

Georgia Power Company

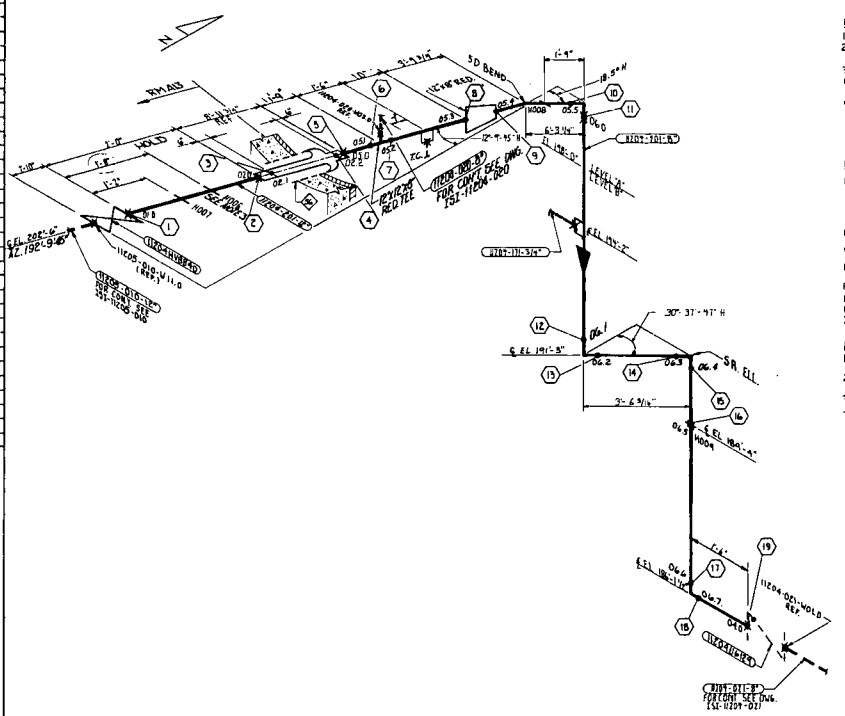
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 199
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION - SYSTEM 1204

DRAWN CWD | CHECKED BST | DESIGNED WS

SCALE NONE | SHEET 2 OF 2 | PROJECT I.D. | DRAWING NUMBER ISI-11204-199 | REV.

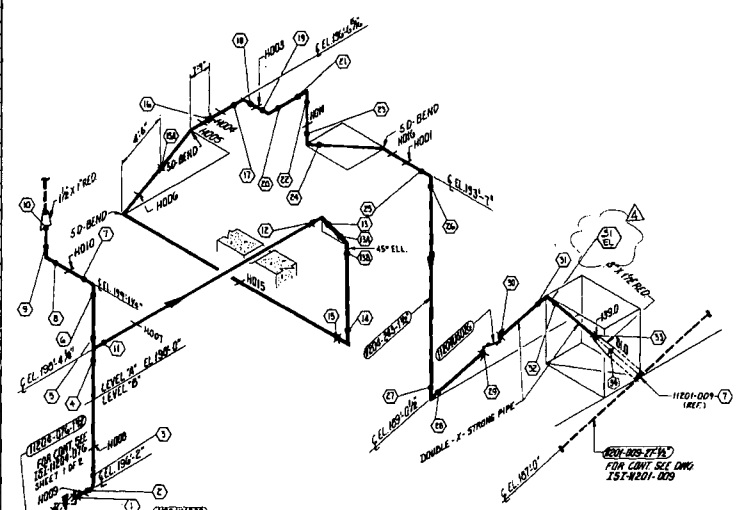
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP.	PART EXAMINED (SEE NOTE NO.1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204HV8640	CONTROL VALVE	PRESSURE REL CONP	—	—	—	—	C7.40 C7.41	—	—
VI-11204-201-H006	FIELD STRUT	COMPONENT SUPPORT	IWF-2001-1	—	—	—	—	F30 F31 F32 F33 F34	—
H007	↓	↓		—	—	—	—	↓	—
H008				—	—	—	—		—
H009	3-DIR RESTRAINT	LTBRAN SUPPORT	↓	—	—	—	—	F8.20 F8.30	—
H012	E.BOLT E.CLAMP	NO SUP REQUIRED	—	—	—	—	—	—	—
11204-201-W01.0	B.W.	CIRC WELD	IWC-2500-7	C5.21	C5.21	—	C7.20 C7.21	—	—
W02.0						—		—	—
W02.1						—		—	—
W02.2						—		—	—
W04.0						—		—	—
W05.0						—		—	—
W05.1						—		—	—
W05.2						—		—	—
W05.3						—		—	—
W05.4						—		—	—
W05.5						—		—	—
W06.0						—		—	—
W06.1						—		—	—
W06.2						—		—	—
W06.3						—		—	—
W06.4	↓	↓	↓	↓	↓	—	↓	—	—
W06.5	FILLET WELD	INP WELD SURF ATTACH	IWC-2500-5	—	C3.40	—	—	—	—
W06.6	B.W.	CIRC. WELD	IWC-2500-7	C5.21	C5.21	—	C7.20 C7.21	—	—
W06.7	↓	↓	↓	↓	↓	—	↓	—	—

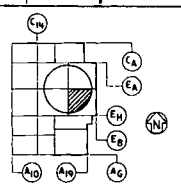
LINE NUMBER	CLASS PROJ	CLASS ISI	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MAT'L TYPE.	DESIGN PRESS.	DESIGN TEMP	OPERT. PRESS.	OPERT. TEMP	INSUL. THKN.
11204-201	212	2	F60	12"	140	1.125	SA-376 TP-316	2485	650	2485	AMB	N/A
11204-201	212	2	F60	8"	160	.906	SA-312 TP-304L	2485	650	2485	AMB	N/A


N
RM AXIS
HOLD
5D BEND
SR ELL
H008
H007
H009
H012
W04
W05.3
W05.4
W06.0
W06.1
W06.2
W06.3
W06.4
W06.5
W06.6
W06.7
11204-020-HOLD REF.
11204-020-HOLD REF.
11204-020-HOLD REF.

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	VOL.	SURF.	VT1	VT2	VT3	VT4
TH204H0026	CONC. WALLS	CONC. WALL SUPPORT	—	—	—	—	1/18/91	—	
VI-1204-243-H009	SUPP. DETAIL STANDARD	LOWER SUPPORT	TVA-2000-1	—	—	—		12-18-79	—
VI-1204-243-H002				—	—	—	—	—	—
VI-1204-243-H003				—	—	—	—	—	—
VI-1204-243-H004				—	—	—	—	—	—
VI-1204-243-H005				—	—	—	—	—	—
VI-1204-243-H006				—	—	—	—	—	—
VI-1204-243-H007				—	—	—	—	—	—
VI-1204-243-H008	SUPP. DETAIL STANDARD			—	—	—	—	—	—
VI-1204-243-H009	SUPP. DETAIL STANDARD			—	—	—	—	—	—
VI-1204-243-H010	SUPP. DETAIL STANDARD			—	—	—	—	—	—
VI-1204-243-H011				—	—	—	—	—	—
VI-1204-243-H015	THRU-DETAIL STANDARD			—	—	—	—	—	—
VI-1204-243-H016				—	—	—	—	—	—
TH204-243-W001.0	S.W.	CARB. WELD	TVA-2000-A	—	89.11	—	1/28/91	—	—
W101.0	S.W.			—	89.48	—	1/28/91	—	—
W102.0	S.W.			—	89.11	—		—	—
W103.0				—	—	—		—	—
W104.0				—	—	—		—	—
W105.0				—	—	—		—	—
W106.0				—	—	—		—	—
W107.0				—	—	—		—	—
W108.0				—	—	—		—	—
W109.0				—	—	—		—	—
W110.0				—	—	—		—	—
W116.0				—	—	—		—	—
W117.0				—	—	—		—	—
W118.0				—	—	—		—	—
W119.0				—	—	—		—	—
W120.0				—	—	—		—	—
W121.0				—	—	—		—	—
W123.0				—	—	—		—	—
W124.0				—	—	—		—	—
W125.0				—	—	—		—	—
W126.0				—	—	—		—	—
W127.0				—	—	—		—	—
W128.0				—	—	—		—	—
W129.0				—	—	—		—	—
W130.0				—	—	—		—	—
W131.0				—	—	—		—	—
W132.0				—	—	—		—	—
W133.0				—	—	—		—	—
W134.0				—	—	—		—	—
W135.0	S.W.			—	89.48	—		—	—
W136.0				—	—	—		—	—
W137.0	S.W.			—	89.11	—		—	—
W138.0				—	—	—		—	—
W139.0				—	—	—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL THKN.
11204-243	1	III	F60	1½"	160	.281"	SA-312 TP TP316L	2485	650	2235	115	N/A
11204-243	1	III	F60	10"&½"	160	2.2" & 1.09" / .281"	SA-403 WP316L / SA-312 TP316L	2485	650	2235	115	N/A





KEY PLAN
LEVEL A & B

LEGEND:
1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. PIPE SUPPORT

REFERENCE DRAWINGS:
P&I.D. — 1X4DB111
FAB ISO. — 1X6-1204-07G-02114
PIPING LAYOUT DWG. — 1X4DL4A04
CIVIL/STRUCTURAL — 1X2D40F003
HANGER DETAIL DWG. — VI-1204-243-H001, H003 THRU VI-1204-243-H010, H014 THRU H016

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	
4	1-12-89	ADDED: 31 EL
3	5-19-97	GENERAL REVISION TO UPDATE DRAWING FOR 1S1
2	11-13-85	ADDED: NEW WELD NO'S & CHANGED DIMENSIONS
1	3-11-85	ADDED: NEW WELD NO'S, HANGERS H014, H015 & H016
0	3-21-84	ISSUED FOR INSPECTION

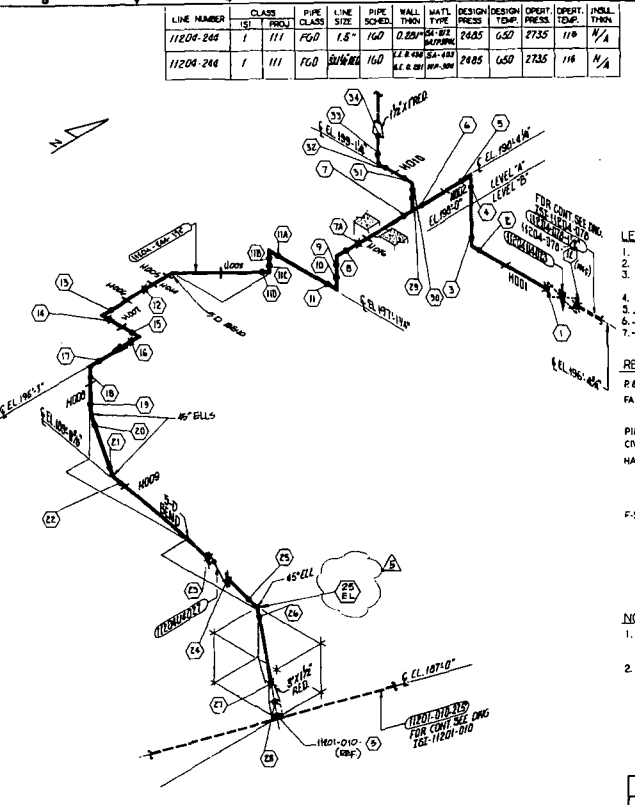
Southern Company Services, Inc.
FOR
GEORGIA POWER COMPANY

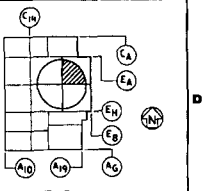
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 243
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION - SYSTEM 1204

DESIGNED F.T. DRAWN C.S.B. CHECKED W.S.
SCALE NONE
DRAWING NUMBER 1S1-11204-243 REV. 4

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR BOLTING DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO.					
				VISUAL	SURF.	VT1	VT2	VT3	VT4
11204-244-H001				—	—	—	—	—	—
11204-244-W001.0	BW	CIRC WELD	IWB 2500-8	—	B9.21	—	B9.22 RT-2	—	—
W001.0	SW			—	B9.40	—		—	—
W002.0	BW			—	B9.21	—		—	—
W003.0				—	—	—		—	—
W004.0				—	—	—		—	—
W005.0				—	—	—		—	—
W006.0				—	—	—		—	—
W007.0				—	—	—		—	—
W008.0				—	—	—		—	—
W009.0				—	—	—		—	—
W010.0				—	—	—		—	—
W011.0				—	—	—		—	—
W012.0				—	—	—		—	—
W013.0				—	—	—		—	—
W014.0				—	—	—		—	—
W015.0				—	—	—		—	—
W016.0				—	—	—		—	—
W017.0				—	—	—		—	—
W018.0				—	—	—		—	—
W019.0				—	—	—		—	—
W020.0				—	—	—		—	—
W021.0				—	—	—		—	—
W022.0				—	—	—		—	—
W023.0				—	—	—		—	—
W024.0				—	—	—		—	—
W025.0				—	—	—		—	—
W026.0				—	—	—		—	—
W027.0				—	—	—		—	—
W028.0				—	—	—		—	—
W029.0				—	—	—		—	—
W030.0				—	—	—		—	—
W031.0				—	—	—		—	—
W032.0	SW			—	B9.40	—		—	—
W033.0				—	—	—		—	—
W034.0	BW			—	B9.21	—		—	—
W035.0				—	—	—		—	—
W036.0				—	—	—		—	—
W037.0				—	—	—		—	—
W038.0				—	—	—		—	—
11-2204-244-H001				—	—	—		—	—
H002									
H003									
H004									
H005									
H006									
H007									
H008									
H009									
H010									
H011									
H012									
H013									

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN
11204-244	1	111	FG0	1.5"	160	0.281	SA-312 TP316L	2485	650	2735	116	N/A
11204-244	1	111	FG0	20/14"RED	160	1.218 RED 0.281	SA-403 WP-304	2485	650	2735	116	N/A





KEY PLAN
LEVEL A,B

LEGEND:
1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:
P & I D. ——— 1X4DB111, 1X4DB119
FAB ISO. ——— 1X4-1204-078-02/12
PIPING LAYOUT DWG. ——— 1X4DL4806
CIVIL / STRUCTURAL ——— 1X2D6R002, F004 A029
HANGER DETAIL DWG. ——— 11-1204-244-H001 THRU H009, H006 THRU H010, H014, H016
F-SHEETS ——— F-12938

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (UNO)

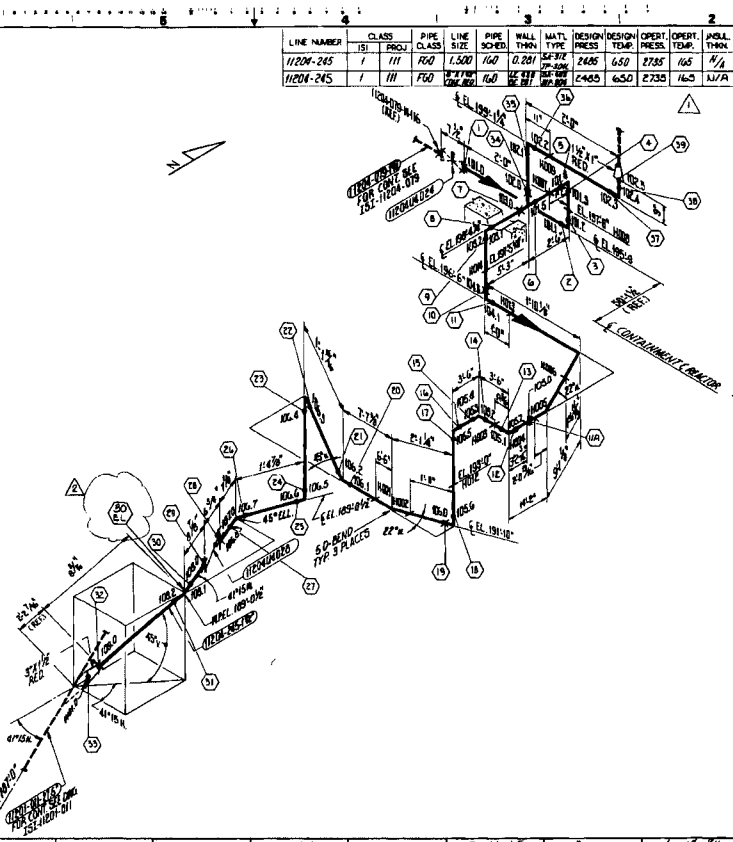
REVISION	DATE	DESCRIPTION
5	11-12-89	ADDED: 29 EL
4	5-27-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI.
3	11-13-85	ADDED NEW WELD NO'S, REROUTED PIPE AND CHANGED DIMENSIONS
2	3-19-85	ADDED NEW WELD NUMBERS 1-1 3/4" WAS 1'-0" 6-3/4" WAS 8 1/2" 4-8" WAS 6'-1 1/2" 1-6" WAS 1'0" REVISED LEGEND
1	12-7-84	REVISED WELD NUMBERS
0	11-8-84	ISSUED FOR INSPECTION

Southern Company Services, Inc.
GEORGIA POWER COMPANY
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO.244
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

DESIGNED FT | DRAWN C.S.B. | CHECKED N.S.
SCALE: NONE | PROJECT LN | DRAWING NUMBER: ISI-11204-244 | REV. 5

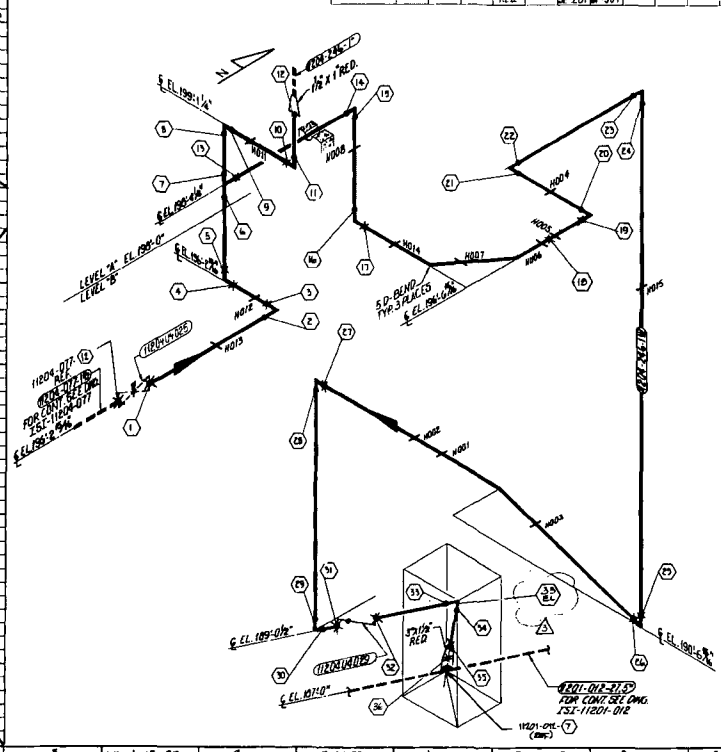
EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204U4028	CHECK VALVE	PIPE-SOCKET	—	—	—	—	B15.19	—	—
VH1204-245-H001	SUPPORT ATTACHMENT	SUPPORT ATTACHMENT	DWG H001	—	—	—	—	F8.30	—
H002				—	—	—	—		—
H003				—	—	—	—		—
H004				—	—	—	—		—
H005				—	—	—	—		—
H006				—	—	—	—		—
H007	SUPPORT ATTACHMENT			—	—	—	—		—
H008	SUPPORT ATTACHMENT			—	—	—	—		—
H009	SUPPORT ATTACHMENT			—	—	—	—		—
H012	SUPPORT ATTACHMENT	SUPPORT ATTACHMENT		—	—	—	—	F8.30	—
H013	SUPPORT ATTACHMENT	SUPPORT ATTACHMENT		—	—	—	—	F8.30	—
H014	SUPPORT ATTACHMENT			—	—	—	—		—
1									
11204-245-W001	B.W.	CARB. WELD	DWG-2500-8	—	B9.21	—	B15.19	—	—
11204-245WOLD	S.W.	CARB. WELD	DWG-8000-8	—	B9.40	—	B15.19	—	—
W001.1	B.W.			—	B9.21	—		—	—
W002.1				—		—		—	—
W006.8				—		—		—	—
W009.4				—		—		—	—
W009.5				—		—		—	—
W009.0				—		—		—	—
W012.1				—		—		—	—
W012.2				—		—		—	—
W012.3				—		—		—	—
W012.4				—		—		—	—
W012.5				—		—		—	—
W013.0				—		—		—	—
W013.1				—		—		—	—
W013.2				—		—		—	—
W014.0				—		—		—	—
W101.1				—		—		—	—
W105.0				—		—		—	—
W105.1				—		—		—	—
W105.2				—		—		—	—
W105.3				—		—		—	—
W105.4				—		—		—	—
W105.5				—		—		—	—
W105.6				—		—		—	—
W105.7				—		—		—	—
W105.8				—		—		—	—
W105.9				—		—		—	—
W106.0				—		—		—	—
W106.1				—		—		—	—
W106.2				—		—		—	—
W106.3				—		—		—	—
W106.4				—		—		—	—
W106.5				—		—		—	—
W106.6				—		—		—	—
W106.7				—		—		—	—
W106.8				—		—		—	—
W107.0	S.W.			—	B9.40	—		—	—
W108.0				—		—		—	—
W109.1	B.W.			—	B9.21	—		—	—
W109.2				—		—		—	—
W109.0				—		—		—	—
W110.0				—		—		—	—

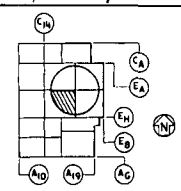
LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-245	1	111	F60	1.500	160	0.281	SA-312 TP-304L SMLS PIPE ASTM A376	2485	650	2735	165	N/A
11204-245	1	111	F60	1.500	160	0.281	SA-312 TP-304 SMLS PIPE ASTM A376	2485	650	2735	165	N/A



EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)		EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11204U4D29	CHECK VALVE	CHECK VALVE BODY		—	—	—	—	B2.40 B2.11	—	—
VI-1204-246-H001	PIPE HANGER	COMPONENT SUPPORT		DWP-1568-1	—	—	—	—	F3.10 F3.20	F3.20
H002	6" TYPE RESTRAINT				—	—	—	—		—
H003	6" TYPE RESTRAINT	LINEAR SUPPORT			—	—	—	—	F2.10 F2.20	—
H004					—	—	—	—		—
H005					—	—	—	—		—
H006					—	—	—	—		—
H007	6" TYPE RESTRAINT				—	—	—	—		—
H008	6" TYPE RESTRAINT				—	—	—	—		—
H011	3" TYPE RESTRAINT				—	—	—	—		—
H012	3" TYPE RESTRAINT	COMPONENT SUPPORT			—	—	—	—	F1.10 F1.20 F1.30	—
H013	6" TYPE RESTRAINT	LINEAR SUPPORT			—	—	—	—	F2.10 F2.20	—
H014	3" TYPE RESTRAINT				—	—	—	—		—
H015	6" TYPE RESTRAINT				—	—	—	—		—
1204-246-W01.0	BW	CIRC. WELD	DWP-1500-8	—	B9.21	—	B3.90 B9.31	—	—
W101.0	BW			—	B9.40	—	—	—	—
W101.1	BW			—	B9.21	—	—	—	—
W101.2				—	—	—	—	—	—
W101.3				—	—	—	—	—	—
W102.0				—	—	—	—	—	—
W102.1				—	—	—	—	—	—
W102.2				—	—	—	—	—	—
W102.3				—	—	—	—	—	—
W102.4				—	—	—	—	—	—
W102.5				—	—	—	—	—	—
W102.6				—	—	—	—	—	—
W102.7				—	—	—	—	—	—
W104.0				—	—	—	—	—	—
W104.1				—	—	—	—	—	—
W104.2				—	—	—	—	—	—
W104.3				—	—	—	—	—	—
W105.0				—	—	—	—	—	—
W106.0				—	—	—	—	—	—
W107.0				—	—	—	—	—	—
W107.1				—	—	—	—	—	—
W107.2				—	—	—	—	—	—
W107.3				—	—	—	—	—	—
W107.4				—	—	—	—	—	—
W107.5				—	—	—	—	—	—
W108.0				—	—	—	—	—	—
W108.1				—	—	—	—	—	—
W109.0				—	—	—	—	—	—
W109.1				—	—	—	—	—	—
W109.2				—	—	—	—	—	—
W109.3				—	—	—	—	—	—
W110.0	SW			—	B9.40	—	—	—	—
W111.0	SW			—	—	—	—	—	—
W111.1	BW			—	B9.21	—	—	—	—
W111.2				—	—	—	—	—	—
W112.0				—	—	—	—	—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-246	1	111	F60	1.500"	160	0.88	SA-312 TP304	2485	650	2735	119	N/A
1204-246	1	111	F60	3"x1½" RED.	160	LE .438 SE .281	SA-403 WP-304	2485	650	2735	119	N/A





KEY PLAN
LEVEL A, B

LEGEND:

1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. INDICATES PIPE SUPPORT.

REFERENCE DRAWINGS:

P&I.D. 1A4DB111, 119
FAB ISO. 1A4-1204-077-02/14

PIPING LAYOUT DWG. 1A4DL4D04, 005, 006
CIVIL / STRUCTURAL 1A2D48A011
HANGER DETAIL DWG. ..... VI-1204-246-H001 THRU H008, & H011 THRU H015
F-SHEETS F-12957

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	BY	CHK'D	APPR.1	APPR.2	APPR.3	APPR.4	APPR.5
3	1-12-87	WS	R	MB				
2	5-21-87	MKA	GLB	RPC				
1	7-11-85		DKG	WS	CWB			
0	5-[illegible]-84	DKG	WS	M				

ADDED: 33 EL.

GENERAL REVISION TO UPDATE DRAWING FOR ISI.

ADDED NEW WELD NO'S

ISSUED FOR INSPECTION

Southern Company Services, Inc.
FOR
GEORGIA POWER COMPANY

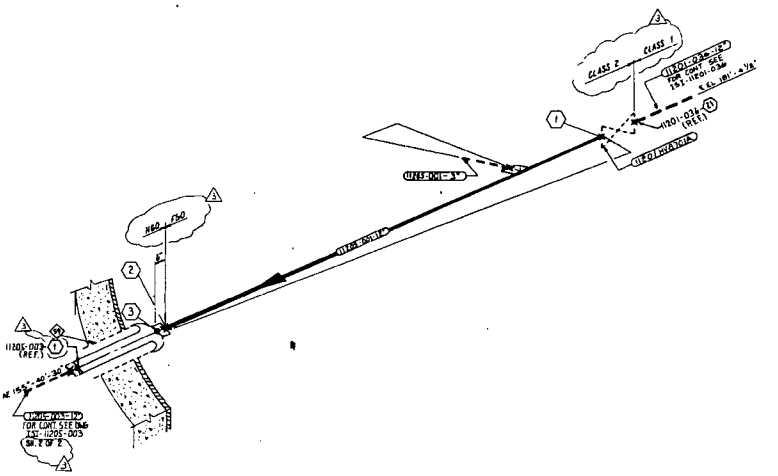
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 246
INSERVICE INSPECTION ISOMETRIC
SAFETY INJECTION-SYSTEM 1204

DRAWN FT | CHKD CSB | DESIGNED WS
SCALE NONE | PROJECT 1A | DRAWING NUMBER ISI-11204-246 | REV 3

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
~~11205-001-W6.0~~	~~PIPE~~	~~GIRTH WELD~~	~~DWG. 1208-7~~	~~CS.01~~	~~CS.01~~	—	~~CS.01~~	—	—
~~11205-001-W6.0~~					~~CS.11~~	—		—	—
~~W6.1~~				—		—		—	—

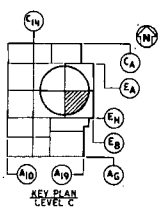
LINE NUMBER	CLASS PROJ	CLASS ISI	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS	OPERT. TEMP.	INSUL. THKN.
11205-001	212	2	F60	12"	140	.1125"	SA-358 TP-316	600	400	450	350	1.5"
11205-001	212	2	H60	12"	40	.406"	SA 182 F-304L	600	400	450	350	1.5"

LEGEND:
1. ⊠ INDICATES FIELD WELD.
2. ● INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
3. ● INDICATES SHOP WELD.
4. ⊗ INDICATES CONTAINMENT PENETRATION NO.
5. — INDICATES PIPE SUPPORT



REFERENCE DRAWINGS:
P & ID _ _ _ _ _ _ 1X4DB122
FAB ISO _ _ _ _ _ _ 1X4-1205-001-03 / 9
PIPING LAYOUT DWG _ 1X4DL4A07
CIVIL/STRUCTURAL _ _ 1X2DW8F002
F-SHEET _ _ _ _ _ F-11994
PENETRATION DESIGN LIST _ _ _ _ 1X4DL4A13 & 4AN

NOTES:
1. SEE ISI PLAN FOR SELECTIONS AND FREQUENCY OF EXAMINATIONS
2. FOR PIPE WELD END PREP. SEE BECHEL DWG. AX4DR001 APPENDIX D. (U.N.O.)



REVISION	DATE	REVISION	DATE	REVISION 3	DATE 5-28-87	REVISION 2	DATE 4-1-85	REVISION 1	DATE 9-6-84	REVISION 0	DATE 11-17-83
				GENERAL REVISION TO UPDATE DWG. FOR ISI		ADDED NEW WELD NUMBERS REVISED ITEM NUMBERS		DELETE REF WELD W18.0 ADDED REF. WELD W18.1, WELD W6.1 ITEM 5 TO LEGEND, ISI PIPING CLASS, DWG 12" CAL. BLOCK DWG. AND NOTE 3		ISSUED FOR INSPECTION	

Southern Company Services, Inc.
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 001
INSERVICE INSPECTION ISOMETRIC
RESIDUAL HEAT REMOVAL-SYSTEM 1205

DESIGNED FT | DRAWN RSG | CHECKED WS
SCALE NONE | DRAWING NUMBER ISI-11205-001 | REV. 3

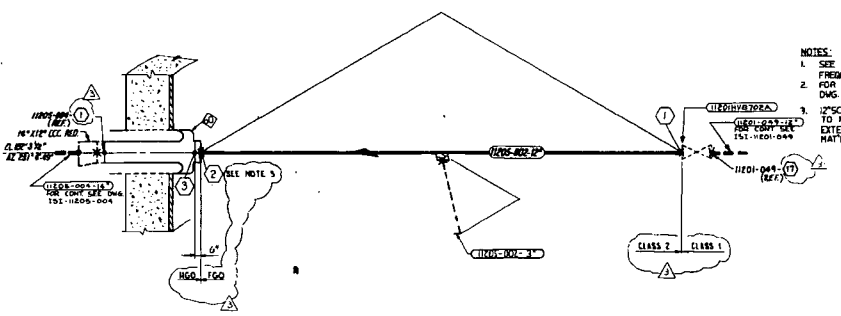
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG	EXAMINATION METHOD AND ITEM NO. VOL	SURF	VT1	VT2	VT3	VT4
~~11205-002-WELD~~	~~BW~~	~~CIRC WELD~~	~~INC 2500-7~~	~~—~~	~~C5.11~~	~~—~~	~~C7.40~~	~~—~~	~~—~~
~~WELD~~					~~—~~	~~—~~	~~—~~	~~—~~	~~—~~
~~WELD~~				~~C5.21~~	~~C5.21~~	~~—~~	~~—~~	~~—~~	~~—~~

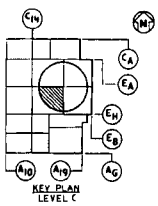
LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT PRESS.	OPERT. TEMP.	INSUL. THKN.
11205-002	E	E12	N60	12"	140	1.125"	SA-376 TP-316	600	400	450	350	1.5"
11205-002	E	E12	N60	12"	40	.406"	SA-182 F-304L	600	400	450	350	1.5"

LEGEND:
1. ⊠ INDICATES FIELD WELD
2. ⊕ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
3. • INDICATES SHOP WELD
4. ◇ INDICATES CONTAINMENT PENETRATION NO.
5. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:
P & ID _____ 1X4DB122
FAB. ISO. _____ 804-1205-002-01/13
PIPING LAYOUT DWG. __ 1X4DL4D07
CIVIL/STRUCTURAL __ __ 1X2048F002
F-SHEETS _____ F-5380
CONTAINMENT PENETRATION DESIGN LIST _____ 1X4DL4A13, 14

NOTES:
1. SEE ISI PLAN FOR SELECTIONS AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)
3. 12"SCHED. 140 PIPE COUNTERBORED TO MATCH 12" SCHEDULE 40 EXTENSION SLEEVE (EXTENSION SLEEVE MAT'L SA-182 F-304L)





KEY PLAN
LEVEL C

REVISION	DATE	
3	5-28-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI
2	4-1-85	ADDED NEW WELD NO'S REVISED EXAMINATION ITEM NUMBER
1	9-6-84	DELETED REF. WELD 14.0 ADDED: REF. WELD 14.1, WELD 0.01, 14 x 12 RED. ITEM 5. TO LEGEND. ISI PIPING CLASS. DWG., 2" CAL. BLOCK DWG. AND NOTE 3
0	12-12-83	ISSUED FOR INSPECTION

BY	CHK'D	APPL 1	APPL 2	APPL 3	APPL 4	APPL 5
RLB	GLB	GGC				
DKG	WS	C-M				
RLB	WS	H				
DKG	WS	H				

Southern Company Services, Inc.
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 002
INSERVICE INSPECTION ISOMETRIC
RESIDUAL HEAT REMOVAL-SYSTEM 1205

DIMENSIONS FT | DRAWN RSG | DIMENSIONS US
SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-11205-002 | REV 3

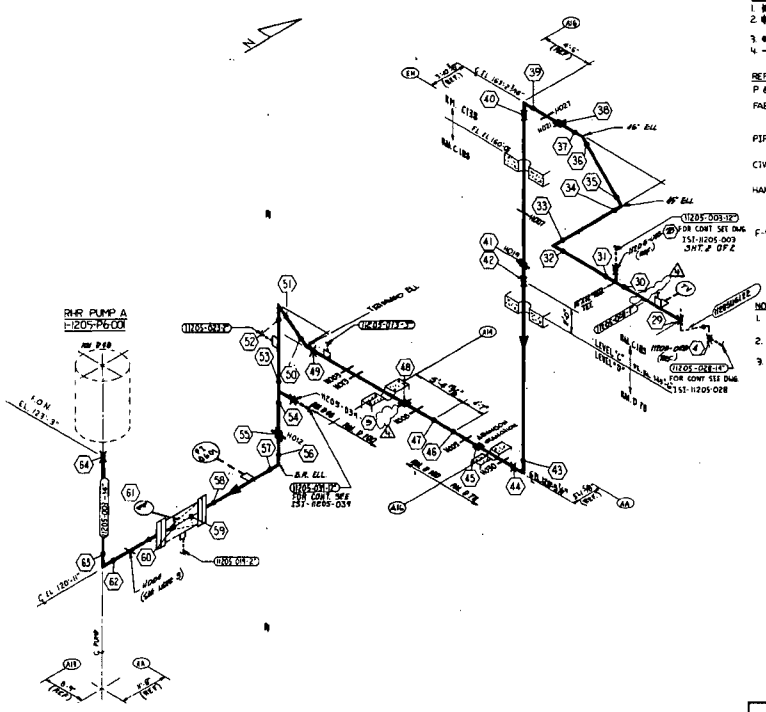
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE) NO. ID	EXAM. PROCEDURE FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
1H1205-003-H023	MECHANICAL SNUBBER	COMPONENT SUPPORT	IWF-1300-1	–	–	–	–	F3.90	F3.90
H024	↓			–	–	–	–	↓	↓
H025	↓	LINEAR SUPPORT		–	–	–	–	F3.10	–
H026	MECHANICAL SNUBBER	COMPONENT SUPPORT		–	–	–	–	F3.90	F3.90
H027	↓			–	–	–	–	F3.90	↓
H028	RIGID STRUT			–	–	–	–	↓	–
H029	MECHANICAL SNUBBER			–	–	–	–	↓	↓
H012	RIGID STRUT			–	–	–	–	↓	–
H013	↓			–	–	–	–	F3.10	–
H019	↓ DR RESTRAINT	LINEAR SUPPORT	↓	–	–	–	–	F3.10	–
H021	MECHANICAL SNUBBER	COMPONENT SUPPORT	IWF-1300-1	–	–	–	–	F3.90	F3.90
H023	MECHANICAL SNUBBER	↓	↓	–	–	–	–	F3.90	↓
1H2-05-009-H040	BW	CIRC. WELD	IWC-2500-7	–	C.M.11	–	C1.20 C1.21	–	–
H041				–				–	–
H042				–				–	–
H043				–		–		–	–
H044				–		–		–	–
H045				–		–		–	–
H046				–		–		–	–
H047				–		–		–	–
H048				–		–		–	–
H049	↓	↓	↓	–	↓	–	↓	–	–
H050	BW	CIRC. WELD	IWC-2500-7	–	C.M.11	–	C1.20 C1.21	–	–
H051	FILLET	INTEGRALLY WELD SUPP		–	C.M.40	–	–	–	–
H040	BW	CIRC. WELD	IWC-2500-7	–	C.M.11	–	C1.20 C1.21	–	–
H041								–	–
H05.0	↓	↓	↓	–	↓	–	↓	–	–
H05.1	BW	CIRC. WELD	IWC-2500-7	–	C.M.11	–	C1.20 C1.21	–	–
H05.2	↓	↓	↓	–	↓	–	↓	–	–
H07.0	BW	CIRC. WELD	IWC-2500-7	–	C.M.11	–	C1.20 C1.21	–	–
H07.1				–		–		–	–
H07.2				–		–		–	–
H07.3				–		–		–	–
H07.4				–		–		–	–
H07.5				–		–		–	–
H07.6	↓	↓	↓	–	↓	–	↓	–	–
H07.7	BW	CIRC. WELD	IWC-2500-7	–	C.M.11	–	C1.20 C1.21	–	–
H07.8				–		–		–	–
H07.9				–		–		–	–
H07.10				–		–		–	–
H07.11				–		–		–	–
H07.12				–		–		–	–
H07.13				–		–		–	–
H08.0	↓	↓	↓	–	↓	–	↓	–	–
1H-1205-003-H027	RIGID STRUT	COMPONENT SUPPORT	IWF-1300-1	–	–	–	–	F3.10	–
H030	DR RESTRAINT	↓	↓	–	–	–	–	F3.10	–

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP	OPERT. PRESS	OPERT. TEMP	INSUL. THKN
1H2B3-003	2	2/2	460	14"	40	.438"	SA-312 TP-304L	600	400	450	350	2.0"

LEGEND:
1. ⊠ INDICATES FIELD WELD.
2. ◐ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
3. ● INDICATES SHOP WELD.
4. — INDICATES PIPE SUPPORT

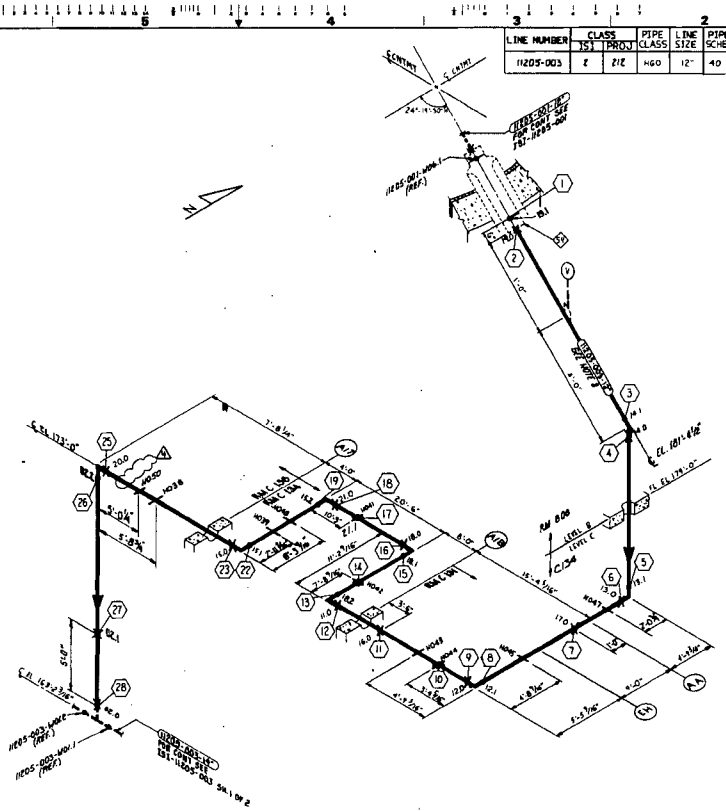
REFERENCE DRAWINGS:
P & ID M4DB122
FAB ISO. IK3-1205-003-01/02
PIPING LAYOUT DWG ..... 1X4DL3E06, G07, G08 & G09
CIVIL/STRUCTURAL ..... AX2D08002 & AX2D08A094
HANGER DETAIL DWG ..... V1-1205-003-H009 THRU H009, H012, H013, H019, H021, H023, H027, H030
F-SHEETS ..... F-743 THRU F-749 & F-754

NOTES:
1. SEE ISI PLAN SELECTION AND FREQUENCY OF EXAMINATIONS
2. FOR PIPE WELD END PREP SEE BECHTEL DWG. AX4D800 APPENDIX D.(UNS)
3. HANGER MUST BE REMOVED FOR WELD INSPECTION.



LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN.	MATL TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT PRESS.	OPERT TEMP	INSUL. THKN.
11205-003	2	21E	H60	12"	40 S	.375	SA-312 TP 304L	600	400	450	350	2.0

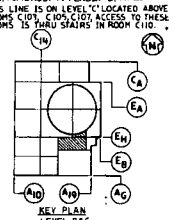
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO 13)	EXAM. REQUIREMENT FIG	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11205-003-H038	STRUT	COMPONENT SUPPORT	IWF-1300-1	—	—	—	—	[illegible]	—
H039	MECHANICAL SNUBBER	COMPONENT SUPPORT		—	—	—	—	[illegible]	F3.50
H040	STRUT	COMPONENT SUPPORT		—	—	—	—	[illegible]	—
H041	STRUT	COMPONENT SUPPORT		—	—	—	—	[illegible]	—
H042	STRUT	COMPONENT SUPPORT		—	—	—	—	[illegible]	—
H043	MECHANICAL SNUBBER	COMPONENT SUPPORT		—	—	—	—	[illegible]	F3.50
H044	STRUT	COMPONENT SUPPORT		—	—	—	—	[illegible]	—
H045	MECHANICAL SNUBBER	COMPONENT SUPPORT		—	—	—	—	[illegible]	F3.50
H047	MECHANICAL SNUBBER	COMPONENT SUPPORT		—	—	—	—	[illegible]	F3.50
H049				—	—	—	—	[illegible]	
H050	WELDED ATTACHMENT			—	—	—	—	[illegible]	
11205-003-V11.0	BW	CIRC WELD	IWC 2500-7	—	C5.11	—	[illegible]	—	—
V12.0				—		—		—	—
V12.1				—		—		—	—
V13.0				—		—		—	—
V13.1				—		—		—	—
V14.0				—		—		—	—
V14.1				—		—		—	—
V15.0				—		—		—	—
V15.1				—		—		—	—
V16.0				—		—		—	—
V16.1				—		—		—	—
V17.0				—		—		—	—
V18.0				—		—		—	—
V18.1				—		—		—	—
V19.0				—		—		—	—
V19.1				—		—		—	—
V20.0				—		—		—	—
V20.1				—		—		—	—
V21.0				—		—		—	—
V21.1	FILLET WELD	SEE WELDED ATTACHMENT	IWC-2500-5	—	C3.40	—	—	—	—



LEGEND:
1. ⋈ INDICATES FIELD WELD
2. ⊕ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
3. ● INDICATES SHOP WELD
4. ◇ INDICATES PENETRATION NUMBER.
5. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:
P & ID — — — — — — — — 1X4DB122
FAB. ISO — — — — — — — 1X9-1205-003-02
PIPING LAYOUT DWG. — — — 1X4DL3606 & 607
CIVIL / STRUCTURAL — — — AX2D08A094
HANGER DETAIL DWG — — — V1-1205-003-H038 THRU H045, H047, H049 H050
F-SHEETS — — — — — — — F-2348 THRU F-2358
PENETRATION DESIGN LIST — 1X4DL4A13 & A14
ISI PIPING CLASSIFICATION DWG. — — — ISI-D-047

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATION.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AXHD8001 APPENDIX D. (UNO)
3. THIS LINE IS ON LEVEL "C" LOCATED ABOVE ROOMS C109, C105, C107, ACCESS TO THESE ROOMS IS THRU STAIRS IN ROOM C110.



REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
		4	5/27/91	3	6-10-86	2	4-3-85	1	4-6-84
		DELETED HANGER H049 PER PCR 91-006. VOIDED WELD C/ST.		H038 IS NO LONGER INTEGRALLY WELDED; REMOVED WELD 24		ADDED NEW WELD NO'S REVISED EQUIPMENT IDENTIFICATION NO. REVISED HANGER H039 & H040 ADDED WELD NUMBER 21.1 REVISED DIMENSION		DELETED FROM WELD LIST 15.8 ADDED WELDS V18.1, V18.2 & V18.1 AND ROOM 1070.	
BY	WLS	BY	WS	BY	WS	BY	WS	BY	WS
CHK'D	WS	CHK'D	Cold	CHK'D	Cold	CHK'D	Cold	CHK'D	WS
APPR. 1	W.W	APPR. 1		APPR. 1		APPR. 1		APPR. 1	

REVISION	DATE
0	6-6-84

ISSUED FOR INSPECTION

Southern Company Services, Inc.

Georgia Power Company

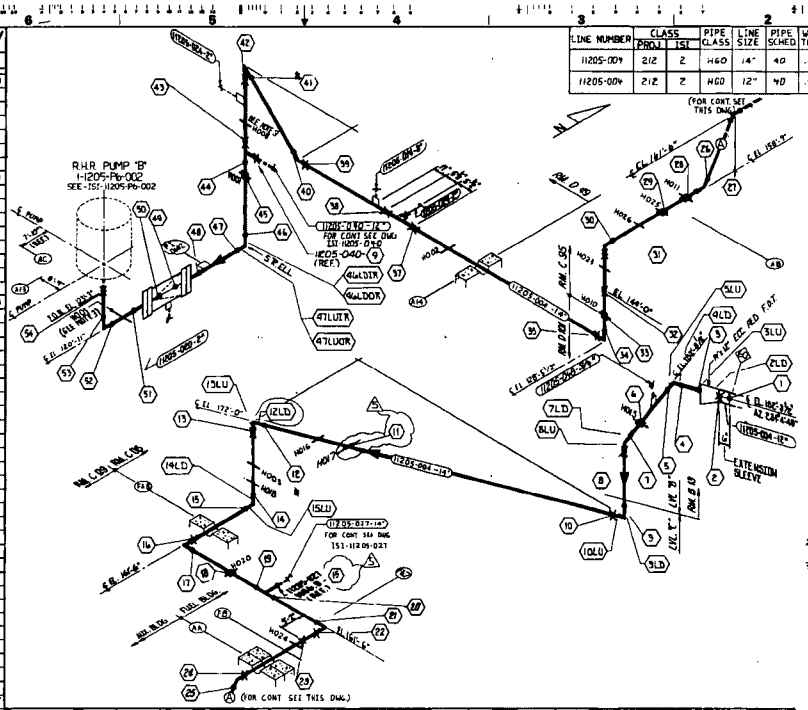
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 003
INSERVICE INSPECTION ISOMETRIC
RESIDUAL HEAT REMOVAL - SYSTEM 1205

DRAWN FT | CHECKED DRC | SCALE US

SCALE: NONE | SHEET 2 OF 2 | PROJECT I.D. | DRAWING NUMBER: ISI-11205-003 | REV: 4

EQUIPMENT OR WELD IDENTIFICATION NO.		WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
1N205-004	-H001	VARIABLE SPRING HYDRAULIC SNUBBER	COMPONENT SUPPORT	3NF-1300-1	–	–	–	–	F1.20 F2.50 F3.20 F3.40 F3.50	F3.50
	H002				–	–	–	–		
	H003				–	–	–	–		
	H007	ROUND TEE STRUT			–	–	–	–	F3.20 F3.40 F3.50	–
	H008	ROUND STRUT			–	–	–	–	F3.20 F3.40 F3.50	–
	H009	TEE RESTRAINT	TWIN SUPPORT		–	–	–	–	F2.50 F3.50	–
	H014	TEE RESTRAINT			–	–	–	–	F2.50 F3.50	–
	H015	TWINSLED SUPPORT	COMPONENT SUPPORT		–	–	–	–	F3.20 F3.40 F3.50	F3.50
	H016	ROUND TEE STRUT			–	–	–	–	F3.20 F3.40 F3.50	–
	H017	VARIABLE SPRING HYDRAULIC SNUBBER			–	–	–	–		F3.50
	H018				–	–	–	–		
	H020	TEE RESTRAINT	TWIN SUPPORT		–	–	–	–	F2.50 F3.50	–
	H023	TWINSLED SUPPORT	COMPONENT SUPPORT	TLF-1200-1	–	–	–	–	F3.20 F3.40 F3.50	F3.50
	H024	TEE RESTRAINT	TWIN SUPPORT		–	–	–	–	F2.50 F3.50	–
	H025				–	–	–	–		–
	H026	VARIABLE SPRING	COMPONENT SUPPORT		–	–	–	–	F3.20 F3.40 F3.50	F3.50
1N205-004	-W001	BW	CIRC WELD	3WC-2500-7	–	C5.11	–	C1.20 C1.21	–	–
	W011				–		–		–	–
	W012				–		–		–	–
	W013				–		–		–	–
	W014				–		–		–	–
	W015				–		–		–	–
	W016				–		–		–	–
	W017				–		–		–	–
	W018				–		–		–	–
	W019	BW	CIRC WELD	3WC-2500-7	–	C5.11	–	C1.20 C1.21	–	–
	W021	BW	CIRC WELD	3WC-2500-7	–	C5.11	–	C1.20 C1.21	–	–
	W022				–		–		–	–
	W023				–		–		–	–
	W024				–		–		–	–
	W030				–		–		–	–
	W031				–		–		–	–
	W032				–		–		–	–
	W040				–		–		–	–
	W041				–		–		–	–
	W042	BW	CIRC WELD	3WC-2500-7	–	C5.11	–	C1.20 C1.21	–	–
	W043				–		–		–	–
	W044				–		–		–	–
	W045	BW	CIRC WELD	3WC-2500-7	–	C5.11	–	C1.20 C1.21	–	–
	W046				–		–		–	–
	W047				–		–		–	–
	W048	BW	CIRC WELD	3WC-2500-7	–	C5.11	–	C1.20 C1.21	–	–
	W049				–		–		–	–
	W050				–		–		–	–
	W051				–		–		–	–
	W052				–		–		–	–
	W053				–		–		–	–

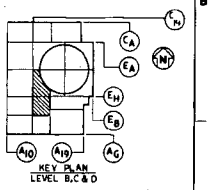
LINE NUMBER	CLASS PROJ	CLASS ISI	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN.	MATL TYPE	DESIGN PRESS	DESIGN TEMP	OPERT PRESS	OPERT TEMP	INSUL. THKN.
1N205-004	2I2	2	H60	14"	40	.438"	SA-312 TP-304L	600	400	450	350	2.0"
1N205-004	2I2	2	H60	12"	40	.406"	SA-182 F 304L	600	400	450	350	2.0"



LEGEND:
1. ✕ INDICATES FIELD WELD.
2. ◆ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
3. ● INDICATES SHOP WELD.
4. Ⓐ INDICATES MATCH POINT.
5. — INDICATES PIPE SUPPORT
6. ◈ INDICATES CONTAINMENT PENETRATION

REFERENCE DRAWINGS:
P & ID — — — — — 1X4DB122
FAB ISO — — — — — 1K7-1205-004-01, 1K7-1205-004-01
PIPING PENETRATION DESIGN LIST — 1X4DL9A13 AM
PIPING LAYOUT DWG. — 1X4DL3004, D05, E05, E05-01, E06 & E14-1
CIVIL STRUCTURAL — AX2D08A002 & AX2D09A004
HANGER DETAIL DWGS — V1-1205-004-H001, H002, H003, H007, H008, H010, H011, H015 THRU H018, H020, H023 THRU H026
F-SHEETS — — — — — F-758 THRU F-762, F-1389 THRU F-1397, F-1541, F-1699 & F-1700

NOTES:
1. SEE 1SI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP SEE BECHTEL DWG AX4D0R001 APPENDIX D, CLN03
3. HANGER MUST BE REMOVED FOR PIPE WELD INSPECTION.



REVISION	DATE	DESCRIPTION
8	5-28-87	GENERAL REVISION TO UPDATE DRAWINGS FOR 1S1
4	6-10-86	ADDED LONG SEAM WELD NO. H002. IS NOT INTEGRALLY WELDED; REMOVED WELD 3G. W017 IS NOT INTEGRALLY WELDED; REMOVED WELD 11 (OR 12). ADDED AS-BUILT DIMENSION.
3	11-17-85	CHANGED ELEVATIONS AND WELD NO'S CHANGED DIMENSION ADDED REF WELD 9, R&MOVED NOTE 7.
2	4-9-85	ADDED NEW WELD NUMBERS ADDED NOTE 6 REMOVED W020 ADDED NOTE 7 ADDED ITEM NO'S TO H008 & H023 REMOVED ITEM NO. FROM H001 PUT HOLD ON H018
1	1-23-84	ADDED ROOM NUMBERS AND WELDS W031 & W032 TO WELD LIST. REVISED NOTE 5 & LINE NO'S 1205-014-4 024-2".
0	6-15-84	ISSUED FOR INSPECTION

Southern Company Services, Inc.

Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 004
INSERVICE INSPECTION ISOMETRIC
RESIDUAL HEAT REMOVAL-SYSTEM 1205

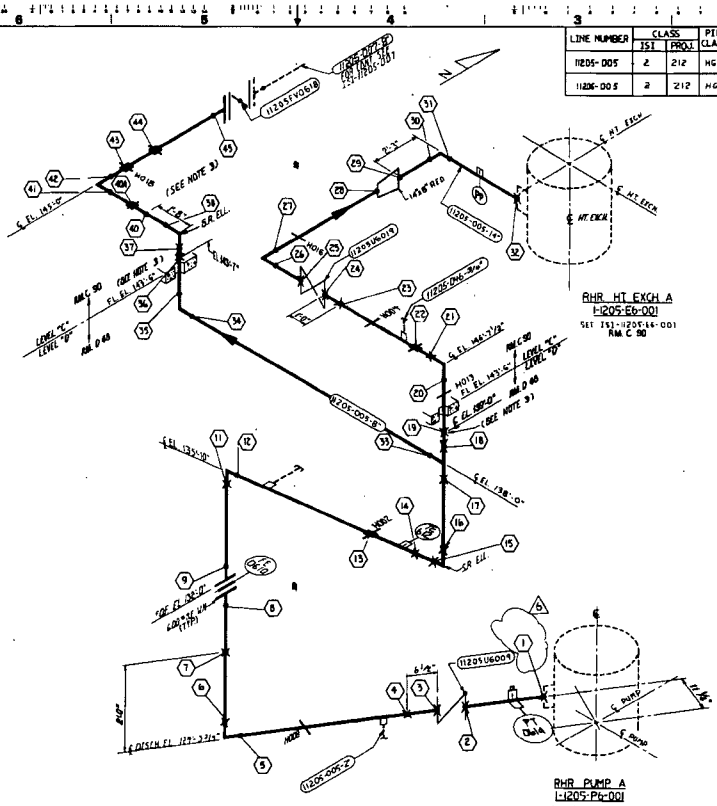
DRAWN: DRC CHECKED: WS

SCALE: NONE

1SI-1205-004 REV 5

EQUIPMENT OR WELD IDENTIFICATION NO	WELD OR EQUIP DESCRIP	PART EXAMINED (SEE NOTE 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO VOL.	SURF	VT1	VT2	VT3	VT4
11205U6001	GATE VALVE	PRESSURE BOUNDARY	—	—	—	—	C7.10 C7.41	—	—
11205U6009	GATE VALVE	↓	—	—	—	—	↓	—	—
11205FV0618	BUTTERFLY VALVE	PRESSURE BOUNDARY		—	—	—	↓	—	—
VP-11205-005-H001	VARIABLE SPRING MECHANICAL SNUBBER	COMPONENT SUPPORT	TVF-7100-1	—	—	—	—	F3.50	F3.50
H002				—	—	—	—	F3.50	
H003				—	—	—	—	F3.50	
H004	VARIABLE SPRING MECHANICAL SNUBBER			—	—	—	—	F3.50	
H007				—	—	—	—	F3.50	↓
H008	RIGID STRUT	↓		—	—	—	—	F3.50	—
H013	VARIABLE SPRING MECHANICAL SNUBBER	COMPONENT SUPPORT		—	—	—	—	F3.50	—
H016	VARIABLE SPRING MECHANICAL SNUBBER			—	—	—	—	F3.50	F3.50
H017				—	—	—	—	F3.50	F3.50
H018				—	—	—	—	F3.50	
H019	VARIABLE SPRING MECHANICAL SNUBBER			—	—	—	—	F3.50	
H020				—	—	—	—	F3.50	↓
11205-005-W01.0	BW	CIRC. WELD	NC2500-7	—	C5.11	—	C7.20 C7.21	—	—
W02.0	↓			—		—	↓	—	—
W03.0				—		—		—	—
W03.1				—		—		—	—
W03.2				—		—		—	—
W03.3				—		—		—	—
W03.4				—		—		—	—
W03.5				—		—		—	—
W03.6				—		—		—	—
W03.8				—		—		—	—
W03.9				—		—		—	—
W03.11				—		—		—	—
W04.0				—		—		—	—
W04.1	↓	↓	↓	—	↓	—	↓	—	—
W04.2	BW	CIRC. WELD	NC2500-7	—	C5.11	—	C7.20 C7.21	—	—
W05.0				—		—		—	—
W05.1				—		—		—	—
W05.2				—		—		—	—
W05.3				—		—		—	—
W05.4	BW	CIRC. WELD	NC2500-7	—	C5.11	—	C7.20 C7.21	—	—
W06.0				—		—		—	—
W07.0				—		—		—	—
W07.1				—		—		—	—
W07.2				—		—		—	—
W07.3				—		—		—	—
W07.4				—		—		—	—
W07.8				—		—		—	—
W07.6				—		—		—	—
W08.0				—		—		—	—
W08.1				—		—		—	—
W08.2				—		—		—	—
W08.3				—		—		—	—
W08.4				—		—		—	—
W09.0				—		—		—	—
W09.1				—		—		—	—
W09.3				—		—		—	—
W09.4				—		—		—	—
W09.5				—		—		—	—
W09.7				—		—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN.	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP	OPERT. PRESS	OPERT. TEMP.	INSUL. THKN
11205-005	2	212	HG0	8"	40S	.322"	SA 312 TYPE 304	600	400	600	350	2"
11206-005	2	212	HG0	14"	40	.438"	SA 312 TYPE 304	600	400	600	350	2"



LEGEND:
1. X INDICATES FIELD WELD
2. ⊕ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
3. ● INDICATES SHOP WELD
4. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & ID — — — — — — IX4DB122

FAB. ISO. — — — — — IK3-1205-005-01/34

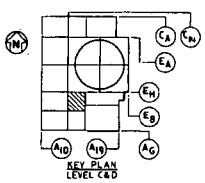
PIPING LAYOUT DRWG. — IX4DL3E05 & IX4DL3E06

CIVIL/STRUCTURAL — — AX2D08002

HANGER DETAIL DRWG — VI-1205-005-H001 THRU H004, H007, H008, H013, H016 THRU H020

F-SHEETS — — — — — F-763 THRU F-769

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATION.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (UNO.)
3. THESE WELDS WERE ADDED AS A RESULT OF A WALKDOWN.



KEY PLAN
LEVEL C&D

REVISION	DATE	DESCRIPTION
4	5-28-87	GENERAL REVISION TO UPDATE DRAWINGS FOR ISI
3	6-10-86	REVISED ORIENTATION OF FT0614
6	6-16-94	ADDED WELD NO. (1)
5	6/22/94	DELETED HANGERS NO. H001, H003, H007, H017, H019, AND H020 PER PCR 91-084
0	5-30-84	ISSUED FOR INSPECTION

Southern Company Services, Inc.

Georgia Power Company

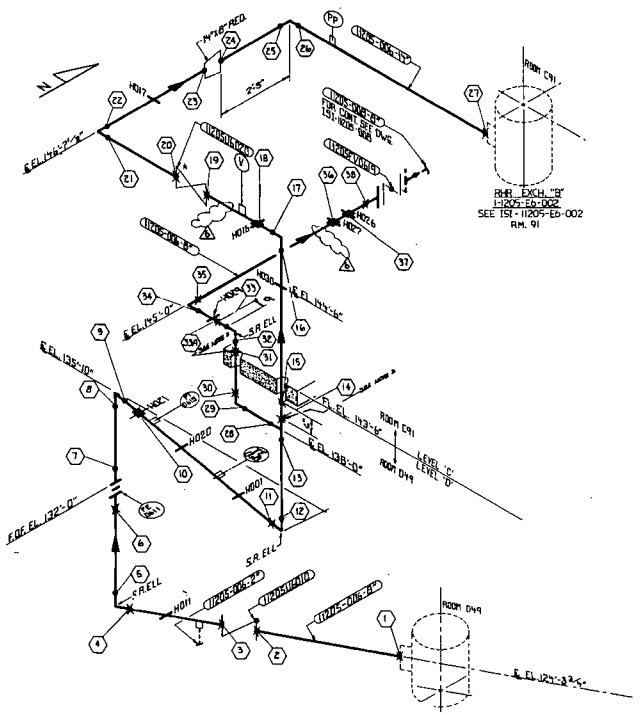
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 005
INSERVICE INSPECTION ISOMETRIC
RESIDUAL HEAT REMOVAL-SYSTEM 1205

DRAWN FT | CHECKED DHC | CHECKED US

SCALE: NONE | PROJECT ID | DRAWING NUMBER: ISI-11205-005 | REV: 6

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11205U6010	CHECK VALVE	PRESS. RES. COMPONENT		—	—	—	F7.20 C7.21	—	—
11205U6020	GATE VALVE			—	—	—		—	—
11205FV0619	GLOBE VALVE			—	—	—		—	—
11205-006-H001	VARIABLE SPRING	COMPONENT SUPPORT	ULF-1301-1	—	—	—	F10.10 F3.40	F3.50	
H011	RIGID STRUT			—	—	—	F30.70 F30.70	—	
H016	RESTRAINT SNUBBER			—	—	—	F30.70 F3.40	F3.50	
H017	VARIABLE SPRING			—	—	—	F30.70 F30.70		
H019	RESTRAINT SNUBBER			—	—	—			
H020				—	—	—			
H021				—	—	—	F30.70 F3.40		
H026				—	—	—			
H027				—	—	—			
H028	VARIABLE SPRING			—	—	—	F30.70 F3.40		
H029	RESTRAINT SNUBBER			—	—	—	F30.70 F3.40		
H030	LINEAR RESTRAINT	LINEAR SUPPORT		—	—	—	F3.50 F3.50		
11205-006-W00.0	BW	CIRC. WELD	IWC-2500-7	—	C5.11	—	F7.20 C7.21	—	—
W02.0				—	—	—		—	—
W03.0				—	—	—		—	—
W03.1				—	—	—		—	—
W03.2				—	—	—		—	—
W03.3				—	—	—		—	—
W03.4				—	—	—		—	—
W03.5				—	—	—		—	—
W03.6				—	—	—		—	—
W04.0	BW	CIRC. WELD	IWC-2500-7	—	C5.11	—	F7.20 C7.21	—	—
W04.1				—	—	—		—	—
W04.2				—	—	—		—	—
W04.3				—	—	—		—	—
W04.4				—	—	—		—	—
W05.0				—	—	—		—	—
W05.1				—	—	—		—	—
W05.2				—	—	—		—	—
W05.3				—	—	—	F7.20 C7.21	—	—
W06.0	BW	CIRC. WELD	IWC-2500-7	—	C5.11	—	F7.20 C7.21	—	—
W06.1				—	—	—		—	—
W06.2				—	—	—		—	—
W06.3				—	—	—		—	—
W06.4				—	—	—		—	—
W06.7				—	—	—		—	—
W06.8				—	—	—		—	—
W06.9				—	—	—		—	—
W07.0				—	—	—		—	—
W08.0				—	—	—		—	—
W08.1				—	—	—		—	—
W08.2				—	—	—		—	—
W08.3				—	—	—		—	—
W08.4				—	—	—		—	—
W08.5				—	—	—		—	—
W08.6				—	—	—		—	—
W09.0				—	—	—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11205-006	2	212	HGO	8"	40S	.322"	SA-312 TP304	600	400	600	950	2"
11205-006	2	212	HGO	14"	40	.438"	SA-312 TP304	600	400	600	950	2"



KEY PLAN
LEVEL C&D

LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & ID — IX4DB122
FAB. ISO — IK9-1205-006-01/21
PIPING LAYOUT DWG. — IX4DL3E05 & E06
CIVIL/STRUCTURAL — AX2D08A002 & 027
HANGER DETAIL DWG. — VI-1205-U00-H001, H011, H016, H017, H019, H020, H021, H026, H027, H028, H029, H030
F-SHEETS — F-770 THRU 776

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)
3. WELDS 14 & 31 ADDED IN THE FIELD.

REVISION	DATE	DESCRIPTION
5	1-9-91	DELETED WELD NO. 30A PER FIELD WALKDOWN INFORMATION.
4	5-28-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI.
3	6-10-86	ADDED WELD 30A ADDED VENT
2	4-3-85	ADDED NEW WELD NUMBERS ADDED WELD 06.9 REVISED NOTE 3 REVISED 3" DIM. ON VALVE RELOCATED H001 REVISED ITEM NUMBERS ON H001
6	6/22/91	DELETED WELDS NO. H019 AND H028 PER PCR 91-001.
0	10-28-83	ISSUED FOR INSPECTION

BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5
WS	[illegible]	WLW				
MKJ	GLB	DGC				
BKG	DST	CWB				
DST	WS	CWB				
WGS	WS	WLW				
BGS	WS	[illegible]				

Southern Company Services, Inc.

GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 006
INSERVICE INSPECTION ISOMETRIC
RESIDUAL HEAT REMOVAL-SYSTEM 1205

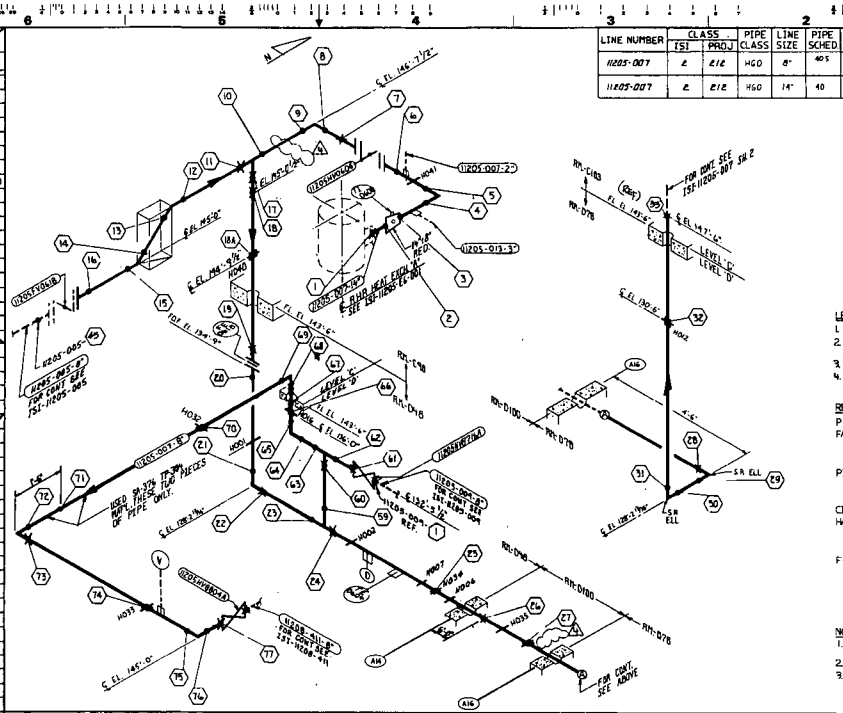
DESIGNED FT | DRAWN BGS | CHECKED WS

SCALE: NONE | PROJECT I.D. | DRAWING NUMBER: 1SI-11205-006 | REV. 6

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP	OPERT PRESS	OPERT. TEMP.	INSUL THKN.
11205-007	2	212	H60	8"	40S	.322"	SA-312 TP304L	600	400	600	350	2"
11205-007	2	212	H60	14"	40	.438"	SA-312 TP-304L	600	400	600	350	2"

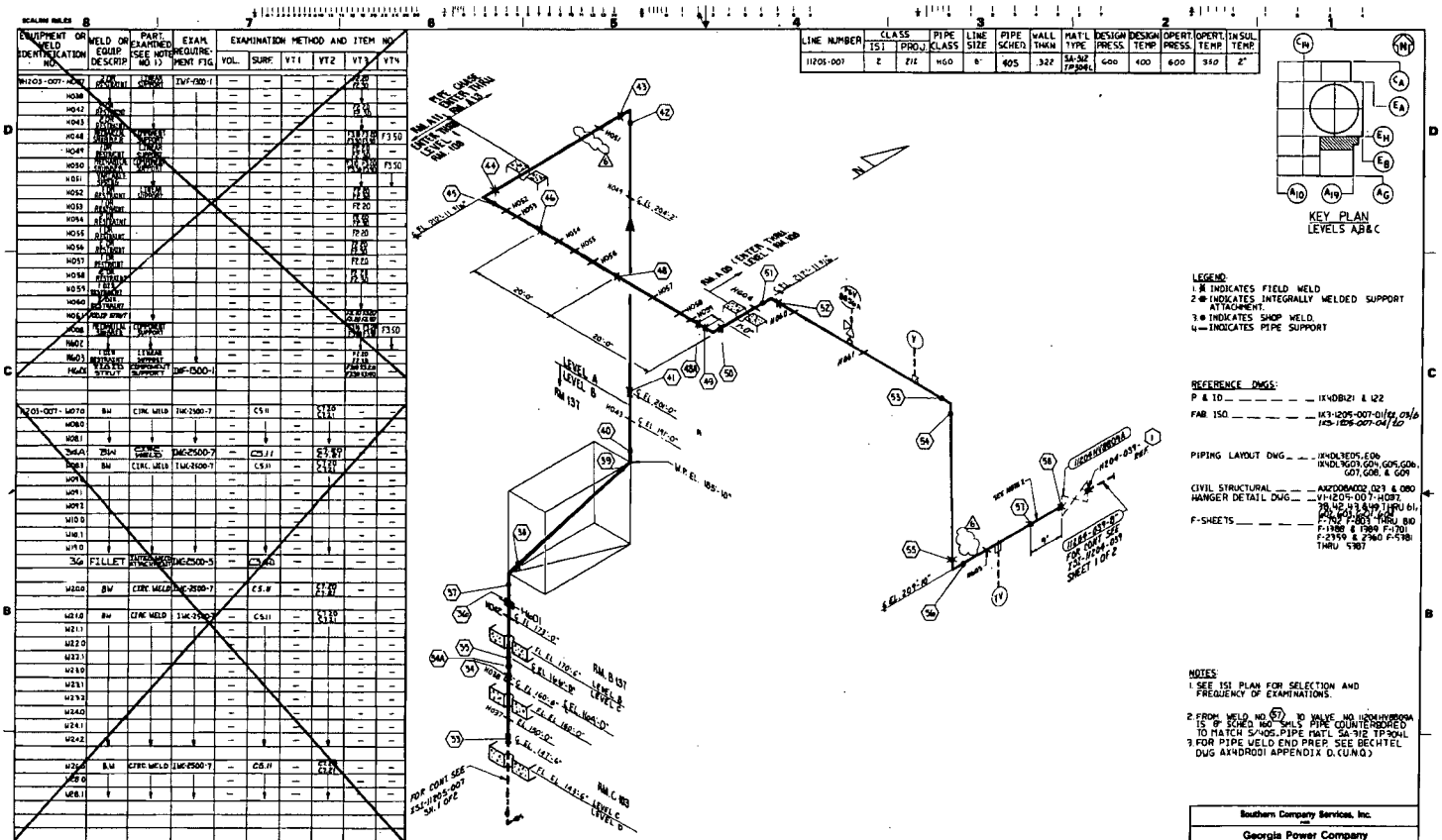
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11205HV0606	BUTTERFLY VALVE	PART'L RET CONP.	–	–	–	–	C7.20 C7.21	–	–
11205HV8804-A	GATE VALVE		–	–	–	–		–	–
11205HV8716-A	GATE VALVE		–	–	–	–		–	–
VH205-007-H001	I-BEAM RESTRAINT	LINEAR SUPPORT	TWF-1500-1	–	–	–	–	F5.10 F5.40	–
H002	I-BEAM RESTRAINT	LINEAR SUPPORT		–	–	–	–		–
H007	VARIABLE SPRING	COMPONENT SUPPORT		–	–	–	–	F3.50 F3.90	F5.50
H011	MECH SNUBBER			–	–	–	–	F3.80 F3.90 F5.40	F5.50
H012	RIGID TYP. SUPPT			–	–	–	–		–
H016	RIGID SUPPT			–	–	–	–		–
H032	3-DIR RESTRAINT	LINEAR SUPPORT		–	–	–	–	F5.10 F5.50	–
H033	2-DIR RESTRAINT			–	–	–	–		–
H034	2-DIR RESTRAINT			–	–	–	–		–
H035	VARIABLE SPRING	COMPONENT SUPPORT		–	–	–	–	F3.50 F3.90 F5.40	F3.50
H039	MECH SNUBBER	COMPONENT SUPPORT		–	–	–	–	F3.80 F3.90 F5.40	F5.50
H040	2-DIR RESTRAINT	LINEAR SUPPORT		–	–	–	–	F5.10 F5.50	–
H041	VARIABLE SPRING	COMPONENT SUPPORT		–	–	–	–	F3.50 F3.90	F3.50
H006	MECH SNUBBER	COMPONENT SUPPORT		–	–	–	–	F3.80 F3.90 F5.40	F3.50
1205-007-W010	BW	CIRC. WELD	IWC-2500-7	–	C5.11	–	C7.20 C7.21	–	–
W011				–				–	–
W012				–				–	–
W013				–				–	–
W014				–				–	–
W015				–				–	–
W016				–				–	–
W017				–				–	–
W020				–				–	–
W021				–				–	–
W022				–				–	–
W023				–				–	–
W024				–				–	–
W025				–				–	–
W026				–				–	–
W027				–				–	–
W028				–				–	–
W029				–				–	–
W030				–				–	–
W031				–				–	–
W032				–				–	–
W033				–				–	–
W034				–				–	–
W036	BW	CIRC. WELD	IWC-2500-7	–	C5.11	–	C7.20 C7.21	–	–
W040				–				–	–
W041	FILLET WELD	INTERMEDIATE WELD. SUPP.	IWC-2500-5	–	C3.40	–	–	–	–
W060	BW	CIRC. WELD	IWC-2500-7	–	C5.11	–	C7.20 C7.21	–	–
W060				–		–		–	–
W061				–		–		–	–
W062				–		–		–	–
W063				–		–		–	–

11205-007-WELD																					
W11.0	BW	CIRC. WELD	IWC-2500-7	–	C5.11	–	C7.20 C7.21	–	–	11205-007-W18.3	BW	CIRC. WELD	IWC 2500-7	–	C5.11	–	C7.20 C7.21	–	–
W11.1				–				–	–	W25.1				–		–		–	–
W11.2	FILLET	INTERMEDIATE WELD. SUPP.	IWC-2500-5	–	C3.40	–	–	–	–	W25.2				–		–		–	–
W11.3	BW	CIRC. WELD	IWC-2500-7	–	C5.11	–	C7.20 C7.21	–	–	W25.3				–		–		–	–
W11.4				–		–		–	–	W25.4				–		–		–	–
										W27.0				–		–		–	–
W12.0	BW	CIRC. WELD	IWC-2500-7	–	C5.11	–	C7.20 C7.21	–	–										
W18.0				–		–		–	–										
W18.1	FILLET	INTERMEDIATE WELD. SUPP.	IWC-2500-5	–	C3.40	–	–	–	–										
W18.2	BW	CIRC. WELD	IWC-2500-7	–	C5.11	–	C7.20 C7.21	–	–										



EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP	PART EXAMINED (SEE NOTE NO 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
W1205-007-H039	PIPE SUPPORT	LINEAR SUPPORT	IWF-1300-1	—	—	—	—	F2.20 F2.20	—
H038	↓	↓	↓	—	—	—	—	F2.20 F2.20	—
H042	ATTACHMENT			—	—	—	—	F2.20 F2.20	—
H043	PIPE SUPPORT			—	—	—	—	F2.20 F2.20	—
H048	MECHANICAL ATTACHMENT	CONTINUOUS SUPPORT		—	—	—	—	F1.10 F1.20 F2.20	F3.50
H049	PIPE SUPPORT	LINEAR SUPPORT		—	—	—	—	F2.20 F2.20	—
H050	MECHANICAL ATTACHMENT	CONTINUOUS SUPPORT		—	—	—	—	F1.10 F1.20 F2.20	F3.50
H051	VERTICAL STOP	↓	↓	—	—	—	—	↓	↓
H052	PIPE SUPPORT	LINEAR SUPPORT		—	—	—	—	F2.20 F2.20	—
H053	ATTACHMENT			—	—	—	—	F2.20	—
H054	ATTACHMENT			—	—	—	—	F2.20 F2.20	—
H055	PIPE SUPPORT			—	—	—	—	F2.20	—
H056	ATTACHMENT			—	—	—	—	F2.20 F2.20	—
H057	PIPE SUPPORT			—	—	—	—	F2.20	—
H058	ATTACHMENT			—	—	—	—	F2.20 F2.20	—
H059	VERTICAL STOP			—	—	—	—	↓	↓
H060	LINEAR SUPPORT			—	—	—	—	↓	↓
H061	GUIDE STOP	↓	↓	—	—	—	—	F2.20 F2.20 F2.20	—
H062	MECHANICAL ATTACHMENT	CONTINUOUS SUPPORT		—	—	—	—	F1.10 F1.20 F2.20	F3.50
H602	↓	↓	↓	—	—	—	—	↓	↓
H603	LINEAR SUPPORT	LINEAR SUPPORT		—	—	—	—	F1.10 F2.20	—
H604	RESTRAINT STRUT	CONTINUOUS SUPPORT	INF-1300-1	—	—	—	—	F1.10 F2.20 F2.20	—
W205-007-W070	BW	CIRC. WELD	IWC-2500-7	—	C5.11	—	C1.10 C1.20	—	—
W080	↓	↓	↓	—	↓	—	↓	—	—
W081				—		—		—	—
34A	FILLET	CONTINUOUS ATTACHMENT	IWC-2500-7	—	C5.11	—	C1.10 C1.20	—	—
W083	BW	CIRC. WELD	IWC-2500-7	—	C5.11	—	C1.10 C1.20	—	—
W090				—		—		—	—
W091				—		—		—	—
W092				—		—		—	—
W100				—		—		—	—
W101				—		—		—	—
W110	↓	↓	↓	—	↓	—	↓	—	—
36	FILLET	CONTINUOUS ATTACHMENT	IWC-2500-5	—	C5.40	—	—	—	—
W200	BW	CIRC. WELD	IWC-2500-7	—	C5.11	—	C1.10 C1.20	—	—
W210	BW	CIRC. WELD	IWC-2500-7	—	C5.11	—	C1.10 C1.20	—	—
W211				—		—		—	—
W220				—		—		—	—
W221				—		—		—	—
W230				—		—		—	—
W231				—		—		—	—
W232				—		—		—	—
W240				—		—		—	—
W241				—		—		—	—
W242	↓	↓	↓	—	↓	—	↓	—	—
W250	BW	CIRC. WELD	IWC-2500-7	—	C5.11	—	C1.10 C1.20	—	—
W260	↓	↓	↓	—	↓	—	↓	—	—
W261				—		—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP	OPERT. PRESS.	OPERT. TEMP	INSUL. TEMP.
1205-007	2	21E	H60	6"	40S	.322	SA-312 TP304L	600	400	600	350	2"



REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
5	5-28-87	4	6-10-86	3	11-17-86	2	4-3-85	1	5/22/91	0	6-7-84
ORIGINAL REVISION TO UNION REQUIRED FOR 1st.		ADDED WELDS 34A, 36. ADDED H601.		ADDED NEW WELD NO'S 48A & 1 CHANGED ELEVATION		ADDED NEW WELD NO'S DELETED WELDS 08.2 & 20.1 REVISED EQUIPMENT DESCRIPTIONS REVISED EQUIPMENT IDENTIFICATION NO REVISED REFERENCES ADDED HANGERS H602 & H603		DELETED HANGERS H050 AND H602 PER PER. 91-064.		ISSUED FOR INSPECTION	
BY: MAW CHK'D: RLB APPL'D: 99C		BY: BKG CHK'D: BST APPL'D: CWB		BY: EJO CHK'D: WS APPL'D: CWB		BY: TKW CHK'D: WS APPL'D: CWB		BY: RMS CHK'D: NB APPL'D: WEW		BY: BKG CHK'D: WS APPL'D:	

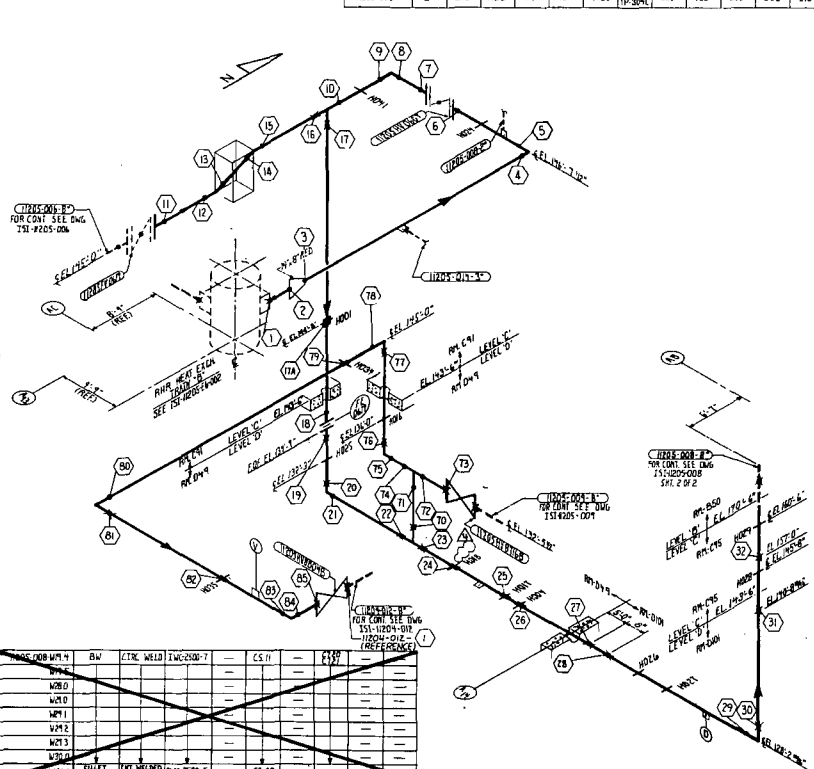
Southern Company Services, Inc.
for
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO 007
INSERVICE INSPECTION ISOMETRIC
RESIDUAL HEAT REMOVAL-SYSTEM 1205

DRAWN BY: FT CHK'D: DRC APPR'D: WS
SCALE: NONE SHT 2 OF 2
DRAWING NUMBER: 1SI-1205-007 REV: 6

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.		EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11205-H001A37	CONTROL VALVE	PRESSURE RET. COMP.	—		—	—	—	C3.20 C3.21	—	—
11205-H001B48			—		—	—	—		—	—
11205-H001T16 B			—		—	—	—		—	—
W-1205-008 H003	MECHANICAL SNUBBER VARIABLE SPRING	COMPONENT SUPPORT	IWF-2300-1		—	—	—	—	F1.20 F1.40	F3.50
H003					—	—	—	—	F1.20 F1.40	—
H004	RIGID BRACE	LINEAR SUPPORT			—	—	—	—	F3.20 F3.30	—
H017					—	—	—	—		—
H018					—	—	—	—		—
H024	VARIABLE SPRING	COMPONENT SUPPORT			—	—	—	—	F1.20 F1.40	F3.50
H025					—	—	—	—	F3.20 F3.30	—
H026	RESILIENT RIGID BRACE & PIPE BRACE	COMPONENT SUPPORT			—	—	—	—	F1.20 F1.40 F3.20 F3.30	—
H027	VARIABLE SPRING				—	—	—	—	F1.20 F1.40 F3.20 F3.30	F3.50
H028	RIGID BRACE	LINEAR SUPPORT			—	—	—	—	F3.20 F3.30	—
H029					—	—	—	—		—
H034					—	—	—	—		—
H035					—	—	—	—		—
H041	MECHANICAL SNUBBER	COMPONENT SUPPORT			—	—	—	—	F1.20 F1.40 F3.20 F3.30	F3.50
H001	RESTRAINT	LINEAR SUPPORT			—	—	—	—	F2.20 F2.30	—
W01.1	B.W.	CIRC. WELD	IWC-2500-7		—	C5.11	—	C5.20 C5.21	—	—
W01.2					—	—	—		—	—
W01.3					—	—	—		—	—
W01.4					—	—	—		—	—
W01.5					—	—	—		—	—
W02.0					—	—	—		—	—
W02.1					—	—	—		—	—
W02.2					—	—	—		—	—
W02.3					—	—	—		—	—
W02.4					—	—	—		—	—
W02.5					—	—	—		—	—
W02.6					—	—	—		—	—
W02.7					—	—	—		—	—
W02.8					—	—	—		—	—
W02.9					—	—	—		—	—
W03.0					—	—	—		—	—
W03.1					—	—	—		—	—
W04.0					—	—	—		—	—
W04.1	FILLET	INT. WELD ATTACH.	IWC-2500-8		—	C3.40	—	—	—	—
W01.0	B.W.	CIRC. WELD	IWC-2500-7		—	C5.11	—	C5.20 C5.21	—	—
W05.0	BW	CIRC. WELD	IWC-2500-7		—	C5.11	—	C5.20 C5.21	—	—
W05.1					—	—	—		—	—
W05.2	BW	CIRC. WELD	IWC-2500-7		—	C5.11	—	C5.20 C5.21	—	—
W06.0					—	—	—		—	—
W07.0					—	—	—		—	—
W08.0					—	—	—		—	—
W16.0					—	—	—		—	—
W16.1					—	—	—		—	—
W16.2	FILLET	INT. WELD SUPP. ATTACH.	IWC-2500-5		—	C3.40	—	—	—	—
W17.3	BW	CIRC. WELD	IWC-2500-7		—	C5.11	—	C5.20 C5.21	—	—
W17.0					—	—	—		—	—
W17.1					—	—	—		—	—
W17.2					—	—	—		—	—
W17.3	FILLET	INT. WELD SUPP. ATTACH.	IWC-2500-5		—	C3.40	—	—	—	—
W19.0	BW	CIRC. WELD	IWC-2500-7		—	C5.11	—	C5.20 C5.21	—	—
W19.1					—	—	—		—	—
W19.2					—	—	—		—	—
W19.3					—	—	—		—	—
W20.0					—	—	—		—	—
W01.6	FILLET WELD	INT. WELDED ATTACHMENT	IWC-2500-5		—	C3.40	—	—	—	—

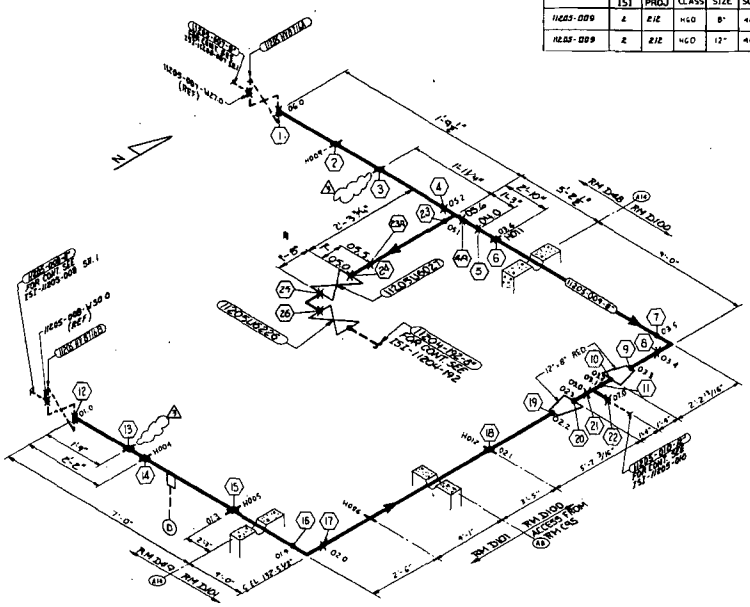
LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11205-008	2	212	H6D	8"	40S	.322	SA-312 TP-304L	600	400	600	350	2.0
11205-008	2	212	H6D	14"	40	.438	SA-312 TP-304L	600	400	600	350	2.0



EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
W-1205-008-H030	2 DIA RESTRAINT	LINEAR SUPPORT	INF-1300-1	—	—	—	—	F2.20 F2.30	—
H031	2 DIA RESTRAINT	↓	↓	—	—	—	—	↓	—
H032	↓	↓	↓	—	—	—	—	↓	—
H033	VARIABLE SPRING MECHANICAL GRADED TOOLBOLT SPRING	COMPONENT SUPPORT		—	—	—	—	F18 F33 F38 F39	F3.50
H040	↓	↓	↓	—	—	—	—	↓	↓
H042	↓	LINEAR SUPPORT		—	—	—	—	F2.20 F2.30	—
H043	2 DIA RESTRAINT	↓	↓	—	—	—	—	↓	—
H601	1 DIA RESTRAINT	LINEAR SUPPORT	INF-1600-1	—	—	—	—	F2.20 F2.30	—
H053	2 DIA RESTRAINT	↓	↓	—	—	—	—	↓	—
H055	2 DIA RESTRAINT	LINEAR SUPPORT	INF-1600-1	—	—	—	—	F2.20 F2.30	—
H056	↓	↓	↓	—	—	—	—	↓	—
H057	2 DIA RESTRAINT	↓	↓	—	—	—	—	↓	—
H058	ANCHOR BOLT	COMPONENT SUPPORT		—	—	—	—	F18 F39 F3.10 F3.40	—
H059	2 DIA RESTRAINT	LINEAR SUPPORT	↓	—	—	—	—	F2.20	—
1205-008-W04.0	BW	CIRC. WELD	IWC-2500-7	—	C5.11	—	C7.20 C7.21	—	—
W041	FILLET	INT. WELD SUPPORTS	IWC-2500-5	—	C3.40	—	—	—	—
W042	BW	CIRC. WELD	IWC-2500-7	—	C5.11	—	C7.20 C7.21	—	—
W09.0				—		—		—	—
W09.1				—		—		—	—
W10.0				—		—		—	—
W11.0				—		—		—	—
W11.1				—		—		—	—
W12.0				—		—		—	—
W12.1				—		—		—	—
W20.0				—		—		—	—
W21.0	↓	↓	↓	—	↓	—	↓	—	—
W21.1	FILLET	INT. WELD SUPPORTS	IWC-2500-5	—	C3.40	—	—	—	—
W22.0	BW	CIRC. WELD	IWC-2500-7	—	C5.11	—	C7.20 C7.21	—	—
W22.1				—		—		—	—
W22.2				—		—		—	—
W22.3				—		—		—	—
W22.4				—		—		—	—
W22.5				—		—		—	—
W22.6				—		—		—	—
W22.7				—		—		—	—
W22.8				—		—		—	—
W22.9				—		—		—	—
W22.10				—		—		—	—
W22.11				—		—		—	—
W22.12				—		—		—	—

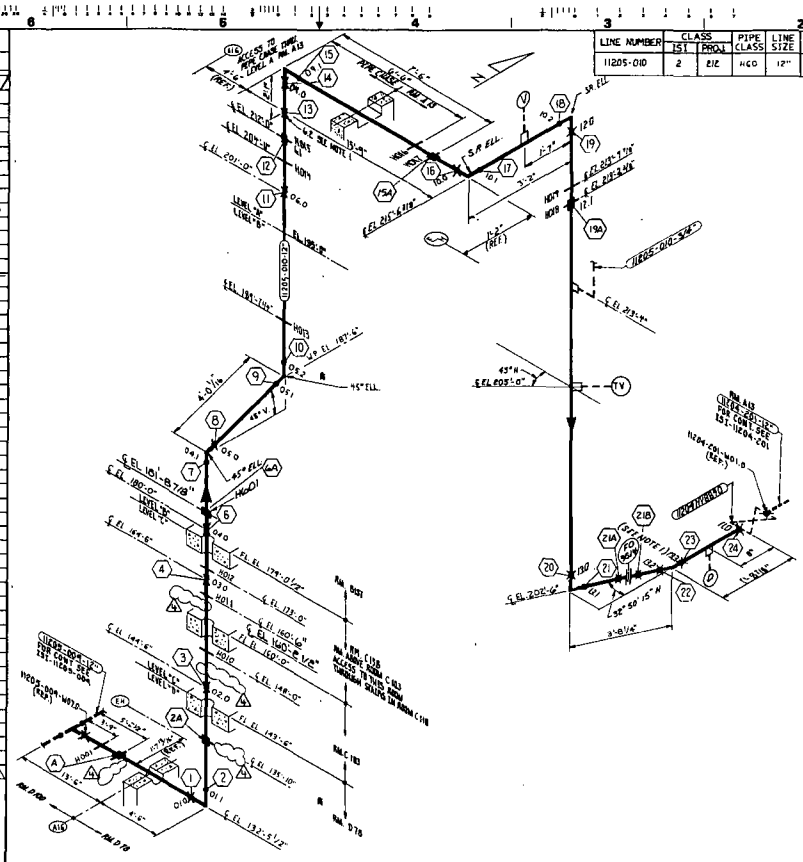
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG	EXAMINATION METHOD AND ITEM NO. VOL.	SURF	VT1	VT2	VT3	VT4
1205U6-027	GATE VALVE	PRESSURE RETAIN COMP	—	—	—	—	C4.40 C4.41	—	—
1N1205-009-H003	MECHANICAL SNUBBER ATTACHMENT	CONCRETE SUPPORT	IWF-1900-1	—	—	—	—	F3.50 F3.60	F3.80
H004	MECHANICAL SNUBBER ATTACHMENT			—	—	—	—	F3.50 F3.60	
H005		LINEAR SUPPORT		—	—	—	—	F3.50 F3.60	—
H006				—	—	—	—		
H008	MECHANICAL SNUBBER ATTACHMENT	CONCRETE SUPPORT		—	—	—	—	F3.50 F3.60 F3.70	F3.80
H009	MECHANICAL SNUBBER ATTACHMENT			—	—	—	—		
H011		LINEAR SUPPORT		—	—	—	—	F3.50 F3.60	—
H012				—	—	—	—		—
1205-009-W01 8	BW	CIRC WELD	IWC-2500-7	—	C5.11	—	C4.20 C4.21	—	—
1205-009-W01 3	FILLET WELD	INTEGRAL WELD SURF	IWC-2500-5	—	C3.40	—	—	—	—
W01 9	BW	CIRC. WELD	IWC-2500-7	—	C5.11	—	C4.20 C4.21	—	—
W020				—		—		—	—
W021	FILLET	INTEGRAL WELD SURF	IWC-2500-5	—	C3.40	—	—	—	—
W022	BW	CIRC. WELD	IWC-2500-7	—	C5.11	—	C4.20 C4.21	—	—
W023				—		—		—	—
W030				—		—		—	—
W031				—		—		—	—
W032				—		—		—	—
W033				—		—		—	—
W034				—		—		—	—
W035				—		—		—	—
W036	FILLET	INTEGRAL WELD SURF	IWC-2500-5	—	C3.40	—	—	—	—
W040	BW	CIRC. WELD	IWC-2500-7	—	C5.11	—	C4.20 C4.21	—	—
W050				—		—		—	—
W051				—		—		—	—
W061				—		—		—	—
W055				—		—		—	—
W056				—		—		—	—
W060	BW	CIRC WELD	IWC-2500-7	—	C5.11	—	C4.20 C4.21	—	—
W070				—		—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN
1205-009	2	212	H60	8"	40 S	.322	SA-312 TP-304	600	400	600	250	1.5
1205-009	2	212	H60	12"	40 S	.375	SA-312 TP-304	600	400	600	250	2.0



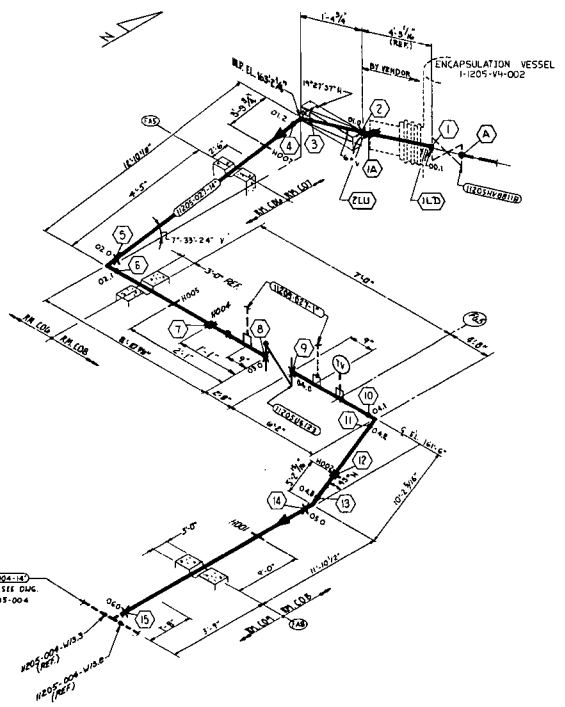
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP.	PART EXAMINED (SEE NOTE NO. D)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
VI-1205-010-H001	VARIOUS SPECIAL MECHANICAL ATTACHMENTS	COMPONENT SUPPORT	IWC-1300-1	—	—	—	—	F1.20 H1.20 F3.50 H3.50	F3.50
H003				—	—	—	—		
H005				—	—	—	—		
H008				—	—	—	—		
H009				—	—	—	—		
H010	VT1 PRESSURE & TEMPERATURE ATTACHMENT	LINEAR SUPPORT		—	—	—	—	F2.20	—
H012				—	—	—	—	F1.20 F3.50	—
H013				—	—	—	—		
H014				—	—	—	—		
H015	VARIOUS SPECIAL MECHANICAL ATTACHMENTS	COMPONENT SUPPORT		—	—	—	—	H1.20 H3.20 F3.50	F3.50
H016				—	—	—	—		
H017				—	—	—	—	H1.20 H3.20	
H018	VARIOUS SPECIAL MECHANICAL ATTACHMENTS			—	—	—	—	F1.20 H1.20 F3.50 H3.50	
H019				—	—	—	—		
H001	ZOOM RESTRAINT	LINEAR SUPPORT		—	—	—	—	F2.20 F3.50	—
H6001	ELCO LUG STRUT	COMPONENT SUPPORT	IWC-1300-1	—	—	—	—	F1.20 H1.20 F3.20 H3.20	
11205-010 - W01.0	BW	CIRC. WELD	IWC-2500-7	—	C5.11	—	C1.20 C1.21	—	—
W01.1				—	—	—	—	—	—
W02.0	BW	CIRC. WELD	IWC-2500-7	—	C5.11	—	C1.20 C1.21	—	—
W03.0	BW	CIRC. WELD	IWC-2500-7	—	C5.11	—	C1.20 C1.21	—	—
W04.0	BW	CIRC. WELD	IWC-2500-7	—	C5.11	—	C1.20 C1.21	—	—
W09.1				—	—	—	—	—	—
W05.0				—	—	—	—	—	—
W05.1				—	—	—	—	—	—
W05.2				—	—	—	—	—	—
W06.0				—	—	—	—	—	—
W06.1	FILLET	INTERNAL ATTACHMENT	IWC-2500-5	—	C5.40	—	—	—	—
W06.2	B.W.	CIRC. WELD	IWC-2500-7	—	C5.11	—	C1.20 C1.21	—	—
W09.0				—	—	—	—	—	—
W09.1				—	—	—	—	—	—
W10.0				—	—	—	—	—	—
W10.1				—	—	—	—	—	—
W10.2				—	—	—	—	—	—
W11.0				—	—	—	—	—	—
W12.0				—	—	—	—	—	—
W13.0				—	—	—	—	—	—
W13.1				—	—	—	—	—	—
W13.2				—	—	—	—	—	—
W13.3				—	—	—	—	—	—
W12.1	FILLET WELD	INT. WELDED ATTACHMENT	IWC-2500-5	—	C3.40	—	—	—	—
GA				—	—	—	—	—	—

LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT PRESS.	OPERT TEMP.	INSUL. THKN.
11205-010	2	B12	H60	12"	40S	.375	SA312 TP304L	600	400	600	250	2.0


N
SP. ELL.
45° ELL.
45° ELL.
45°

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11205-027	2	C1E	H60	14"	40	.438	SA-312 TP304L	600	400	450	350	2.0

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)		EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO					
					VOL.	SURF	VT1	VT2	VT3	VT4
11205HV8811B	CONT VALVE	PRESS RET COMPONENT		–	–	–	–	C1.40 C1.41	–	–
11205U6123	CHECK VALVE	↓		–	–	–	–	↓	–	–
V1-1205-027-H001	MECHANICAL SNUBBER	COMPONENT SUPPORT	INF-1000-1	–	–	–	–		F3.80 F3.81 F3.82 F3.83	F3.50
H002	FIXED RESTRAINT	LINEAR SUPPORT	↓	–	–	–	–		F3.80 F3.81 F3.82 F3.83	–
H004	MECHANICAL SNUBBER	COMPONENT SUPPORT	INF-1500-1	–	–	–	–		F3.80 F3.81 F3.82 F3.83	F3.50
H005	RIGID STRUT			–	–	–	–		F3.80 F3.81 F3.82 F3.83	–
H006	MECHANICAL SNUBBER			–	–	–	–		F3.80 F3.81 F3.82 F3.83	F3.50
H007	1-STRM. RESTRAINT	LINEAR SUPPORT		–	–	–	–		F3.80 F3.83	–
H008	MECHANICAL SNUBBER	COMPONENT SUPPORT	↓	–	–	–	–		F3.80 F3.81 F3.82 F3.83	F3.50
11205-027-W00.1	BW	CIRC WELD	INC-2500-7	–	C5.8	–	C1.20 C1.21		–	–
11205-027-W01.0	BW	CIRC WELD	INC-2500-7	–	C5.11	–	C1.20 C1.21		–	–
W01.1				–			–		–	–
W01.2				–			–		–	–
W02.0				–			–		–	–
W02.1				–			–		–	–
W03.0				–			–		–	–
W04.0				–			–		–	–
W04.1				–			–		–	–
W04.2				–			–		–	–
W04.3				–			–		–	–
W05.0				–			–		–	–
W06.0	↓	↓	↓	–			–	↓	–	–



LEGEND:
1. ⊠ INDICATES FIELD WELD
2. ⬆ INDICATES INTEGRALLY WELDED ATTACHMENT.
3. ● INDICATES SHOP WELD
4. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS

P & ID _____ 1X4DB122

FAB. ISO _____ 1K7-1205-027-01

PIPING LAYOUT DWG ___ 1X4DL3D05

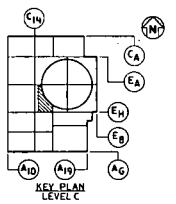
CIVIL/STRUCTURAL ___ AX2D09A004

HANGER DETAIL DWG ___ V1-1205-027-H001, H002, H004 THRU H008

F-SHEETS _____ F-1830, F-1831 & F-1833

ISI CLASSIFICATION DWG. ___ ISI-D-047

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS
2. FOR PIPE WELD END PREP SEE BECHTEL DWG AX4D8001 APPENDIX D. (U.N.O.)



KEY PLAN
LEVEL C

REVISION	DATE	REVISION	DATE	REVISION 3	DATE 6-10-86	REVISION 2	DATE 11-17-85	REVISION 1	DATE 4-9-85	REVISION 0	DATE 5-30-84
				ADDED LONG SEAM WELD NO.		ADDED WELDS A & 1A REVISED HANGER H007		ADDED NEW WELD NO'S ADDED ROOM NUMBERS REVISED NOTES REVISED DIMENSION REVISED EQUIPMENT DESCRIPTION REVISED ITEM NUMBER		ISSUED FOR INSPECTION	
BY	CHK'D	APPR 1	APPR 2	BKG	BST	CLD		BKG	WS	CLD	

Southern Company Services, Inc.
for
Georgia Power Company

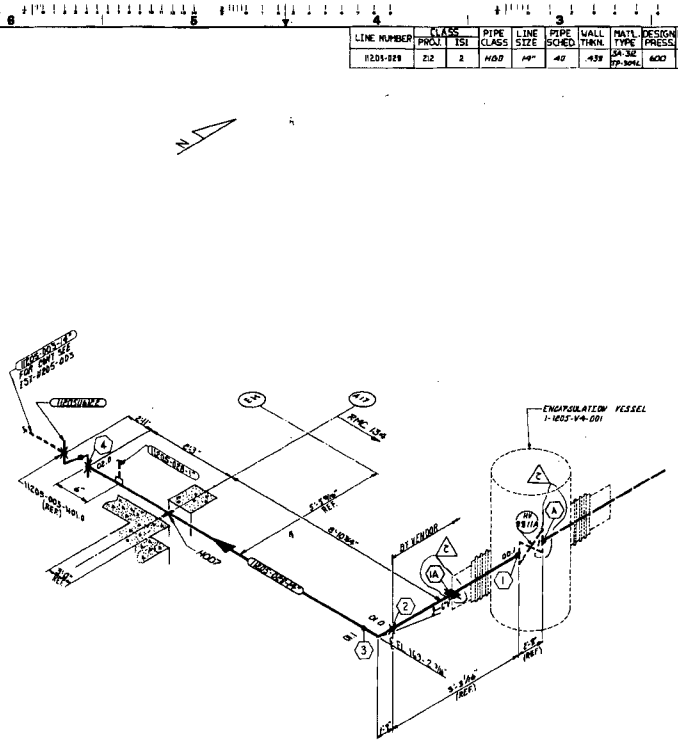
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 027
INSERVICE INSPECTION ISOMETRIC
RESIDUAL HEAT REMOVAL-SYSTEM 1205

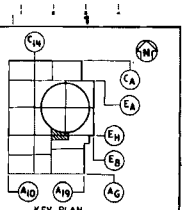
DESIGNED FY DRAWN DRC CHECKED WS

SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-11205-027 | REV

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP	PART EXAMINED (SEE NOTE NO.1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11205-0612	CHECK VALVE	PIPE & NOZ. COMPONENT	—	—	—	—	CHKD 1 PM	—	—
VI-1205-028-H007	WELD START	COMPONENT SUPPORT	IWF-1300-1	—	—	—	—	PXB P520 P521 P522-PB	—
11205-028-W001	BUTT WELD	CIRC. WELD	IWC-2500-7	—	C5.11	—	C5.51 C5.81	—	—
11205-028-W001	BUTT WELD	CIRC. WELD	IWC-2500-7	—	C5.11	—	C5.51 C5.81	—	—
W001	↓	↓	↓	—	↓	—	↓	—	—
W002	BUTT WELD	CIRC. WELD	IWC-2500-7	—	C5.11	—	C5.51 C5.81	—	—

LINE NUMBER	CLASS PROJ.	CLASS ISI	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN.	MATL. TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11205-028	212	2	H60	14"	40	.438	SA-312 TP-304L	600	400	430	350	2.0





LEGEND
1. ✱ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ⊕ INDICATES INTEGRALLY WELDED ATTACHMENT.
4. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:
P&ID ____ JX4DB122
FAB. ISO ____ IK3-1205-003-01

PIPING LAYOUT DWG ____ JX4DL360734
CIVIL/STRUCTURAL ____ AX20080
HANGER DETAIL DWG ____ VH205-028-H007
F-SHEET ____ F-755
ENCAPSULATION VESSEL ____ IX4AH04-23-8
ISI CLASS. DWG ____ ISI-D-047

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP SEE BECHTEL DWG. AX4DR001 APPENDIX D (UNO)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
						2	11-7-85	1	4-5-85	0	1-5-84
						ADDED WELDS A & 1A		ADDED ITEM NUMBER TO H007 ADDED NEW WELD NUMBERS ADDED ROOM NUMBER REVISED WALL CONFIGURATION REVISED LEG, REFS, AND NOTES 5'-3" WAS 5'-6" 3'-3 1/16" WAS 4'-3 1/16" 2'-11" WAS 2'-6"		ISSUED FOR INSPECTION	
						BKG	WS	BST	WS	BKG	WS

Southern Company Services, Inc.
Georgia Power Company

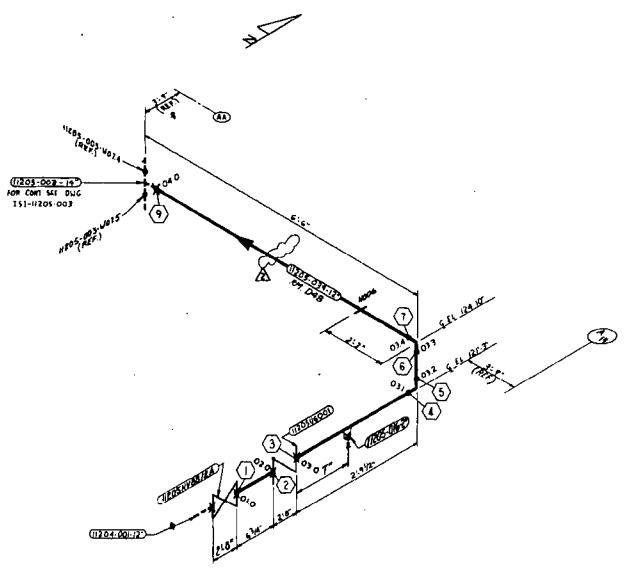
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 028
INSERVICE INSPECTION ISOMETRIC
RESIDUAL HEAT REMOVAL - SYSTEM 1205

DESIGNED F.T. DRAWN E.A.L. CHECKED W.S.
SCALE NONE
DRAWING NUMBER ISI-1205-028 REV 2

LINE NUMBER	CLASS IST	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP	OPERT PRESS	OPERT. TEMP.	INSUL. THKN.
11205-039	2	2/2	H60	12"	40S	.375	SA-312 TP-304	600	400	450	350	2.0

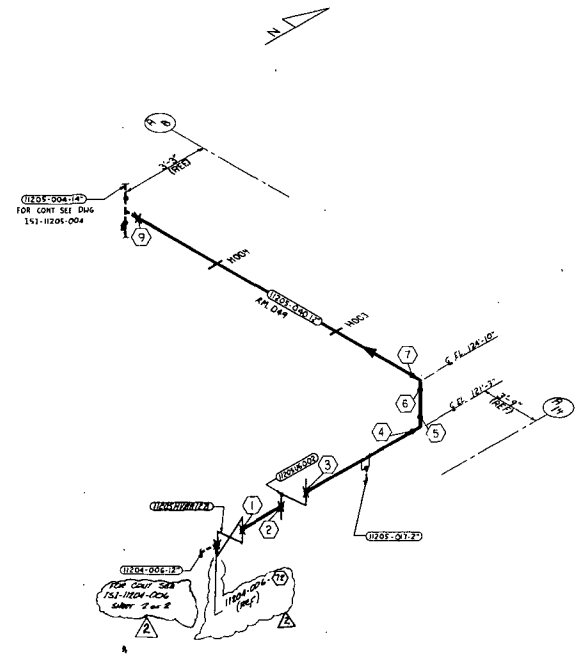
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
PROS-06-001	CHECK VALVE	PRESSURE SET LOOP	—	—	—	—	C1.40 (C2.41)	—	—
11205-V1-0012A	GATE VALVE	↓	—	—	—	—	↓	—	—
W-1205-039-H006	CLOSED MECHANICAL SNUBBER	CLOSED SUPPORT	IWF-003-1	—	—	—		FE 87 FE 90 FE 91 FE 92	—
H007	CLOSED MECHANICAL SNUBBER	CLOSED SUPPORT	↓	—	—	—	—	FE 93 FE 94 FE 95 FE 96	F3.30
N205-039-W01.0	BW	CIRC WELD	IWF-1420-7	—	C.F.H	—	C1.20 (C2.21)	—	—
W02.0				—		—		—	—
W03.0				—		—		—	—
W05.1				—	—	—		—	—
W05.2				—	—	—		—	—
W03.3				—	—	—		—	—
W03.4				—	—	—		—	—
W07.0	↓	↓	↓	—	↓	—	↓	—	—

VOID



EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP	PART EXAMINED (SEE NOTE NO 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11205U6002	CHECK VALVE	PIPE WELD COMPONENT	–	–	–	–	C7.20 C7.21	–	–
11205HVE8128	GATE VALVE	↓	↓	↓	↓	↓	↓	↓	↓
VI-1205-040-H002	CLEVIS STRUT	HANGER COMPONENT SUPPORT	1WF-1508-1	–	–	–	–	FIG 1F-10 FIG 1F-10	–
VI-1205-040-H003	RESILIENT SNUBBER	COMPONENT SUPPORT	1WF-000-1	–	–	–	–	D30.1F30 FIG 1F-10	F350
↓ H004	FLEX RESTRAINT	LINEAR SUPPORT	↓	–	–	–	–	FIG 1F-10	–
11205-040-W010	BW	CIRC WELD	1WC-2500-1	–	C5.11	–	C7.20 C7.21	–	–
W020				–		–		–	–
W030				–		–		–	–
W031				–		–		–	–
W032				–		–		–	–
W033				–		–		–	–
W034				–		–		–	–
W040	↓	↓	↓	–	↓	–	↓	–	–

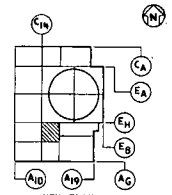
LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT PRESS.	OPERT TEMP.	INSUL. THKN.
11205-040	2	EIE	HGO	12"	40S	.375	SA-312 TP304	600	400	450	350	2"



LEGEND:
1. X INDICATES FIELD WELD
2. ● INDICATES SHOP WELD.
3. ⊕ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
4. — PIPE SUPPORT

REFERENCE DRAWINGS:
P & ID — — — — — — 1X4DB122
FAB. ISO — — — — — — (K3-1204-038-01/17
PIPING LAYOUT DWG — — 1X4DL3E06
CIVIL STRUCTURAL DWG — AX2D08F014
HANGER DETAIL DWG — — VI-1205-040-H009,4
F-SHEETS — — — — — F-1152 & F-1153

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4D001 APPENDIX D. (U.N.O.)



KEY PLAN
LEVEL D

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 5-28-87	REVISION 1	DATE 4-1-85	REVISION 0	DATE 9-1-83
						GENERAL REVISION TO UPDATE DRAWING FOR ISI.		ADDED NEW WELD NO'S REVISED LEGEND, NOTES, & REFERENCES REVISED HANGER H004 ADDED HANGER H002 REVISED EQUIPMENT IDENTIFICATION NO. ADDED ROOM NUMBER. DELETED CONTINUATION DRAWING		ISSUED FOR INSPECTION	
BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	MKJ	RLB	99C	MKH	WS	CWB
BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	BGB	WS	FF			

Southern Company Services, Inc.
FOR
Georgia Power Company

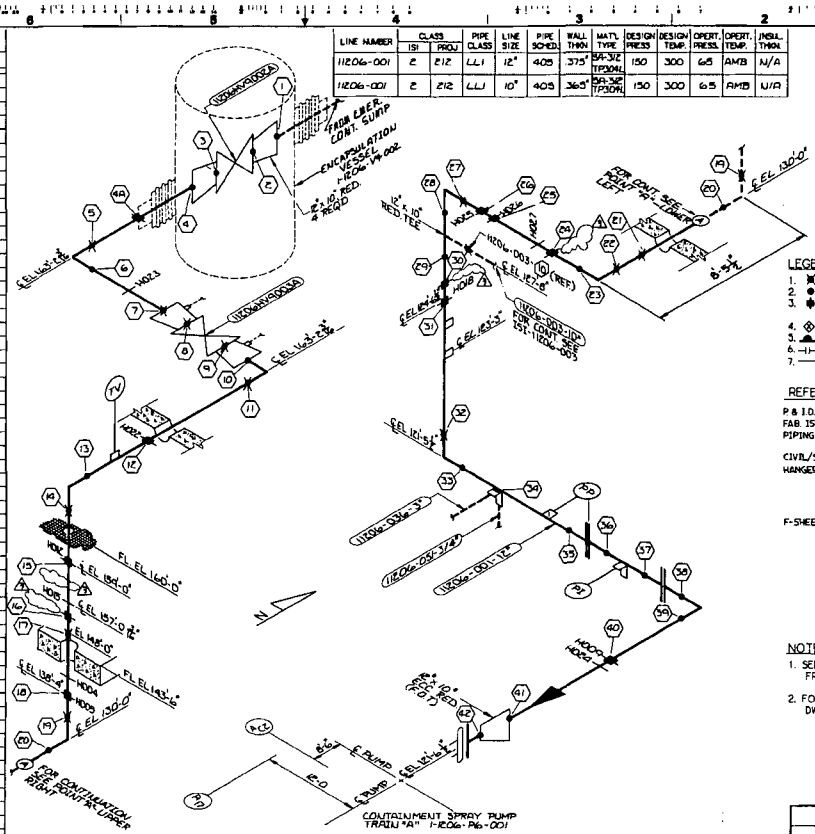
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 040
INSERVICE INSPECTION ISOMETRIC
RESIDUAL HEAT REMOVAL-SYSTEM 1205

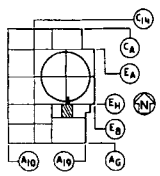
DESIGNED FT | DRAWN DRC | CHECKED WS

SCALE NONE | PROJECT I.D. - | DRAWING NUMBER ISI-11205-040 | REV 2

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO.					
				VOL.	SURF.	VT1	VT2	VT3	VT4

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1I2D6-001	2	212	LL1	12"	40S	.375"	SA-312 TP304L	150	300	65	AMB	N/A
1I2D6-001	2	212	LL1	10"	40S	.365"	SA-312 TP304L	150	300	65	AMB	N/A





LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & I.D. AX4DB131
FAB. 150. ..... 1K3-1206-001-01/37
PIPING LAYOUT DWG. AX4DL4D08, AX4DL3507, 008, 009
CIVIL/STRUCTURAL AX2D08A008
HANGER DETAIL DWG. VI-1206-001-H003, H004, H005, H006, H007, H012, H013, H018, H019, H020, H021, H022, H023, H024, H025, H026, H027
F-SHEETS F-145, 146, 149, 152, 153, 1520, 6961, 150, 181

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION 3	DATE 6/22/91	REVISION 2	DATE 5-28-87	REVISION 1	DATE 6-16-86	REVISION 0	DATE 11-11-85
				DELETED HANGERS H003, H019, H028, AND H027 PER PCN. 91-009		GENERAL REVISION TO UPDATE DRAWING PER ISI.		REVISED WELD 6A FROM SHOP WELD TO INTERGRALLY WELDED ATTACHMENT REVISED FLOOR AT EL. 160'-0" TO GRATING		ISSUED FOR INSPECTION	
BY	CHK'D	APPR.1	APPR.2	WJS	WS	WJV	MKI	GLB	RGC	BKG	BST	CWD

Southern Company Services, Inc.

GEORGIA POWER COMPANY

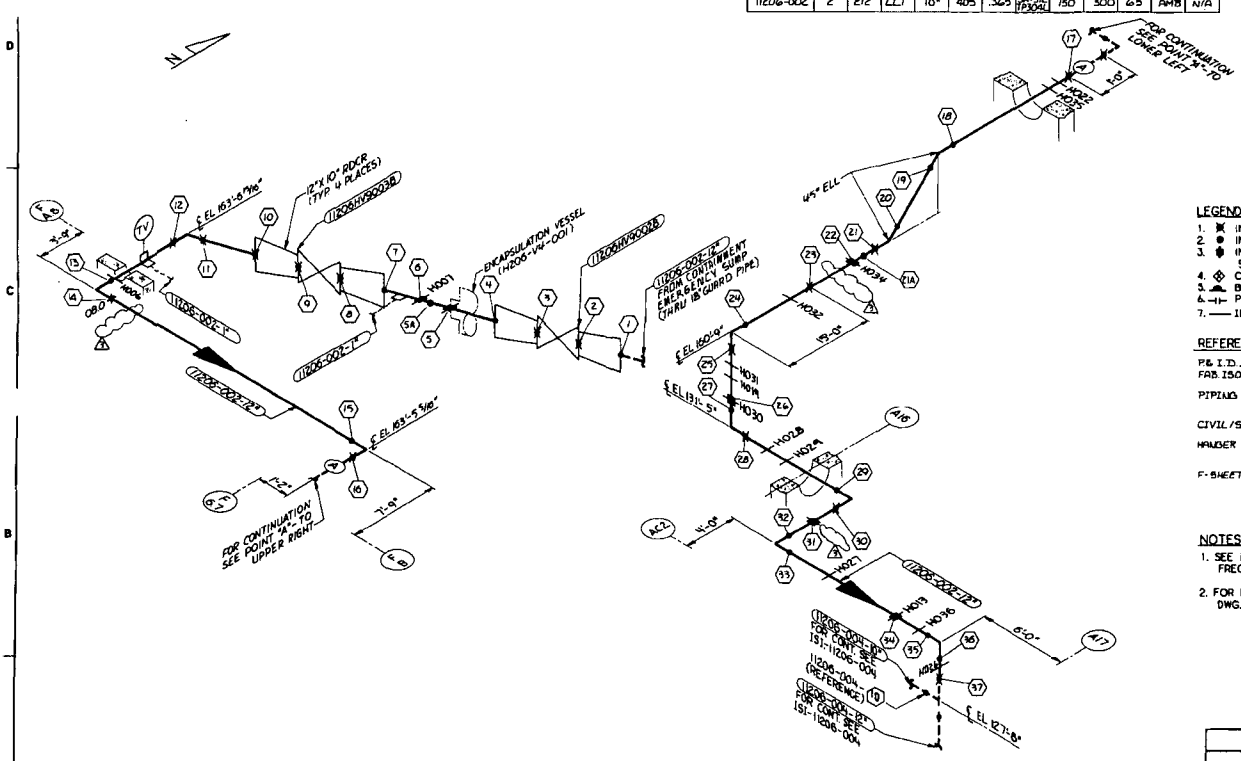
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO 001
INSERVICE INSPECTION ISOMETRIC
CONTAINMENT SPRAY-SYSTEM 1206

DESIGNED CWD DRAWN BST CHECKED WS

SCALE NONE | PROJECT I.D. | DRAWING NUMBER 1SI-1206-001 | REV 3

200-9021-ISI

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11206-002	2	2/2	LL1	12"	40S	.375"	SA-312 TP304L	150	300	65	AMB	N/A
11206-002	2	2/2	LL1	10"	40S	.365"	SA-312 TP304L	150	300	65	AMB	N/A



LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ⬢ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ⌓ BRANCH CONNECTION WELD.
6. ⊣⊢ PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & I.D. ——— IX4DB131
FAB. ISO ——— IK7-1206-002-011/14
IK3-1206-002-01/16
PIPING LAYOUT DWG ——— IX4DL3D05, E05-1, E05, E06, D09
CIVIL/STRUCTURAL ——— AX2D08R03
AX2D09R004
HANGER DET. DWG ——— VI-1206-002-H002, H013, H002, H019, H022, H023, H026 THRU H036, H007
F-SHEETS ——— F-412, C0826, C0827, C0828, C0829

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	DESCRIPTION
3	5/22/97	DELETED HANGERS H002, H023, AND H035 PER PCR 97-006
2	5-28-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI
	6-10-86	ADDED WELD 21A & 5A ADDED WALL
0	11-11-85	ISSUED FOR INSPECTION

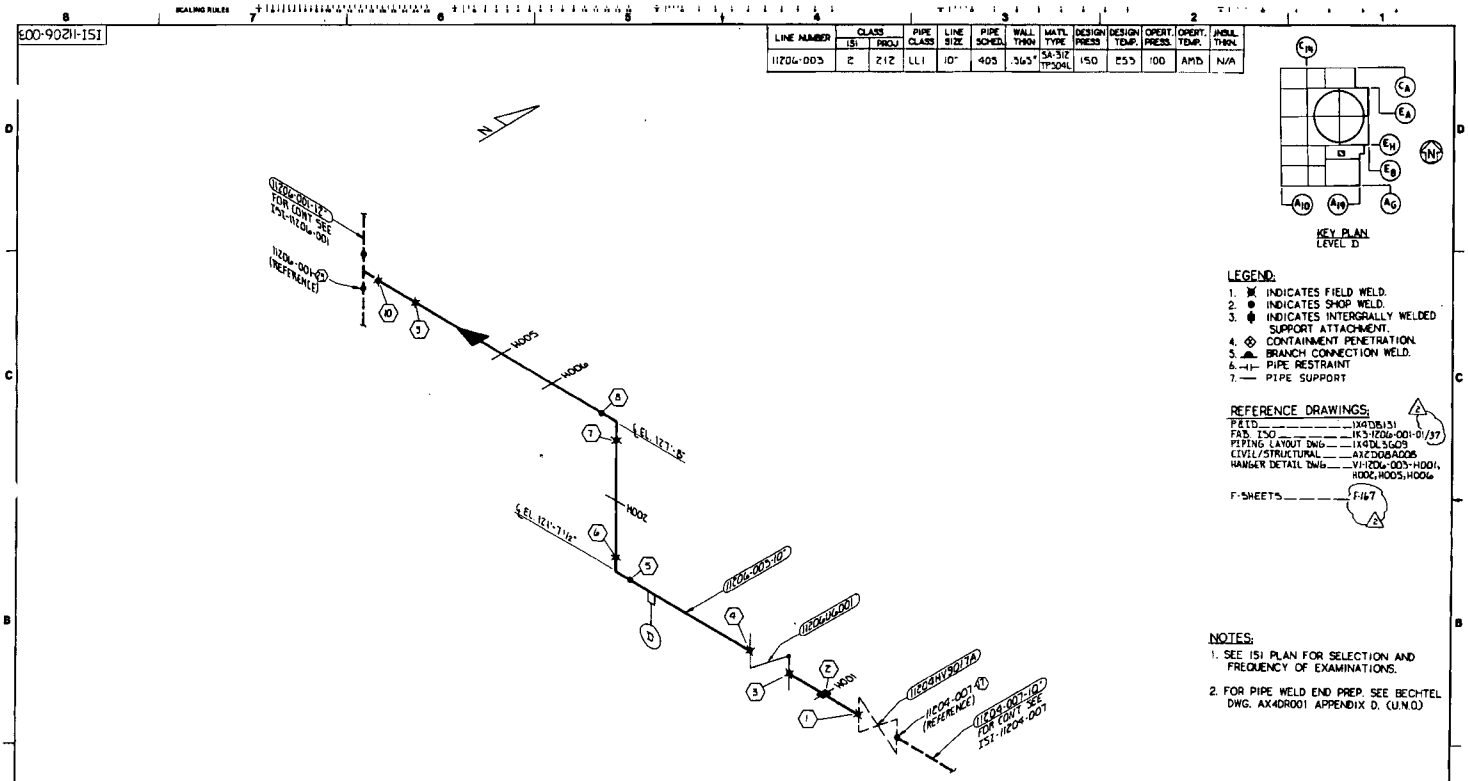
Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 002
INSERVICE INSPECTION ISOMETRIC
CONTAINMENT SPRAY - SYSTEM 1206

DRAWN CWD | DRAWN GPP | DESIGNED WS
SCALE NONE | DRAWING NUMBER ISI-11206-002 | REV. 3

ISI-11206-003

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL THKN.
11206-003	2	212	LL1	10"	40S	.365"	SA-312 TP304L	150	653	100	AMB	N/A



KEY PLAN
LEVEL D

LEGEND:
1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. PIPE SUPPORT

REFERENCE DRAWINGS:
FIELD ____ 1X4DB151
FAB. ISO ____ IKS-11206-001-01/37
PIPING LAYOUT DWG ____ 1X4DL5609
CIVIL/STRUCTURAL ____ AX2D08A006
HANGER DETAIL DWG ____ VI-11206-003-H001, H002, H005, H006
F-SHEETS ____ F-167

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	DESCRIPTION
2	3-28-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI
1	6-10-86	ADDED DRAIN ADDED REF. WELD
0	11-11-85	ISSUED FOR INSPECTION

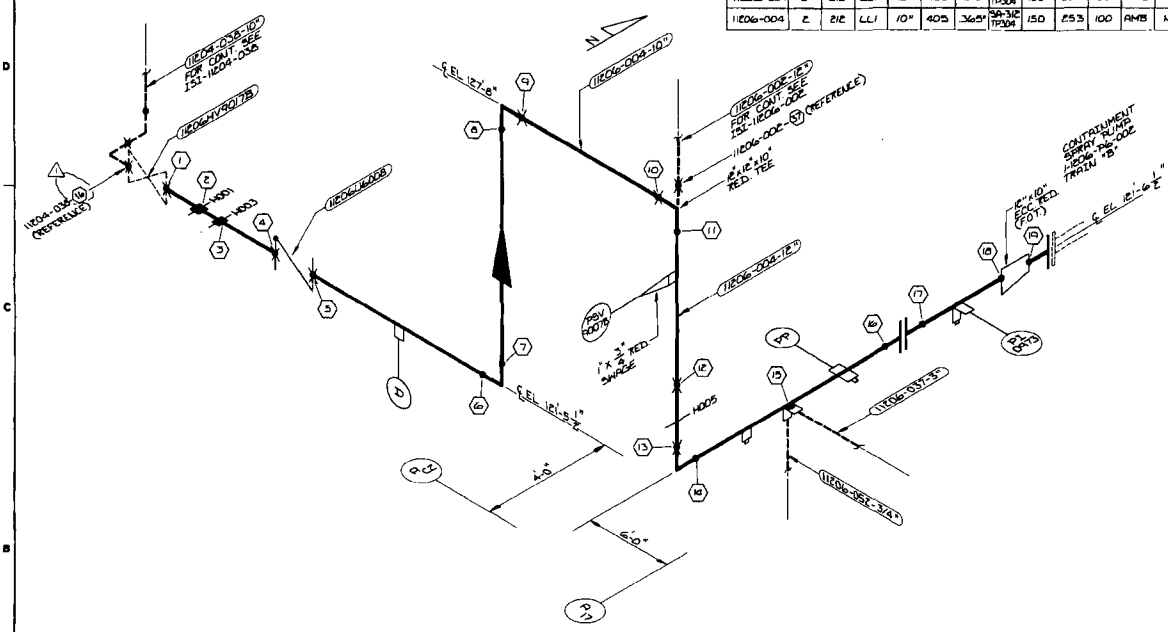
Southern Company Services, Inc.
FOR
Georgia Power Company

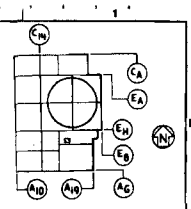
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 003
INSERVICE INSPECTION ISOMETRIC
CONTAINMENT SPRAY-SYSTEM 1206

DRAWN CWD | DRAWN BKG | CHECKED WS
SCALE NONE | ISI-11206-003 | REV. 2

ISI-1206-004

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL THKN
11206-004	2	212	LL1	12"	40S	.375"	SA-312 TP304	150	253	100	AMB	N/A
11206-004	2	212	LL1	10"	40S	.365"	SA-312 TP304	150	253	100	AMB	N/A





LEGEND:

1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ⌓ BRANCH CONNECTION WELD.
6. ⊣⊢ PIPE RESTRAINT
7. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P&I.D. ---------- 1X4DB131
FRB. IBD ---------- 1K3-1206-004-01/30
PIPING LAYOUT DWG. --- 1X4DL3009
CIVIL/STRUCTURAL --- AX2D08A006
HANGER DET. DWG. --- V1-1206-004-H001, H003, H005
F-SHEETS ---------- F-1206

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 1	DATE 5-28-87	REVISION 0	DATE 11-11-85
								GENERAL REVISION TO UPDATE DRAWING FOR ISI		ISSUED FOR INSPECTION	
BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5		RLB	GLB	89C	
								BY	CHK'D	APPR. 1	APPR. 2
								PFT	WS	CLA	

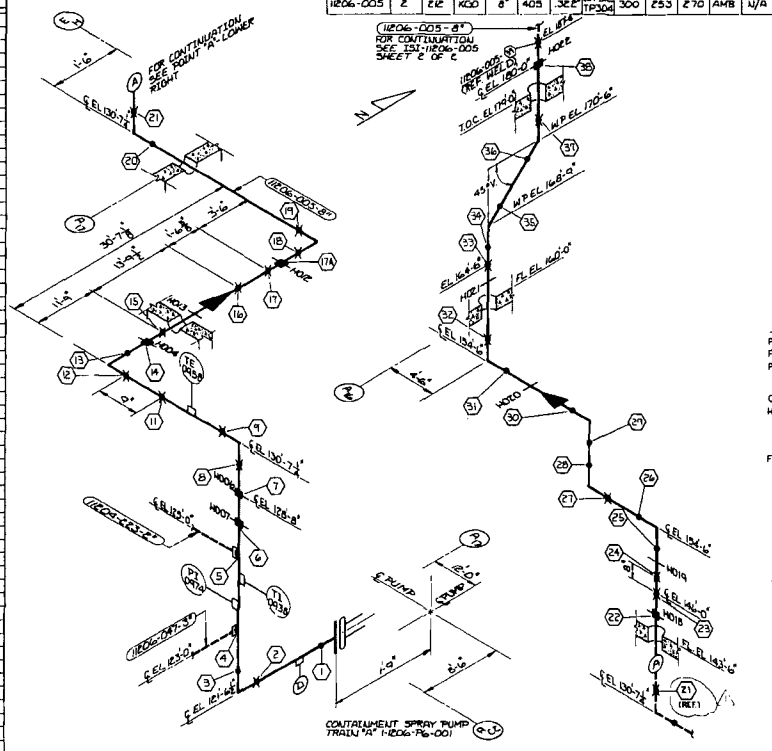
Southern Company Services, Inc.
FOR
Georgia Power Company

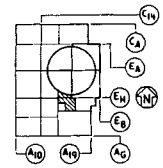
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 004
INSERVICE INSPECTION ISOMETRIC
CONTAINMENT SPRAY - SYSTEM 1206

DESIGNED CWD DRAWN BST CHECKED WS
SCALE NONE PROJECT I.D. DRAWING NUMBER ISI-1206-004 REV 1

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11206-005	2	2C	KC0	8"	40S	.322"	SA-312 TP304	300	253	270	AMB	N/A





KEY PLAN
LEVELS A,B,C,&D

LEGEND:

1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ◇ CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & I.D. IX4D15131
FAB. ISO. 1X3-1206-005-01/33
PIPING LAYOUT DWG. IX4DX-3003, 004, 005, 006, 007, 008, 009, 009-1
CIVIL/STRUCTURAL AX2D08A034
HANGER DETAIL DWG. VI-1206-005-H004, H006, H007, H012, H013, H018, H019, H020, H021, H022
F-SHEETS F-166, 167, 169, 170, 171, 173

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4D800 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 1	DATE 5-28-87	REVISION 0	DATE 11-11-85
								GENERAL REVISION TO UPDATE DRAWING FOR ISI		ISSUED FOR INSPECTION	

BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5
RLB	GLB	GGC																			TBT	WG	CWA																		

Southern Company Services, Inc.

GEORGIA POWER COMPANY

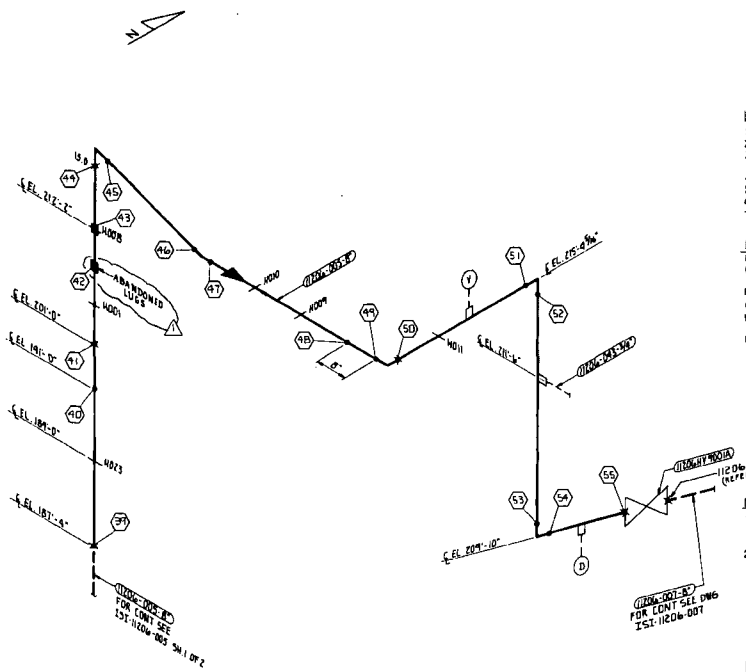
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1—LINE NO. 005
INSERVICE INSPECTION ISOMETRIC
CONTAINMENT SPRAY—SYSTEM 1206

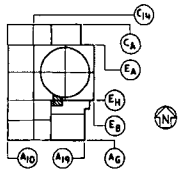
DESIGNED BECHTEL DRAWN BST CHECKED WS

SCALE NONE | SHEET 1 OF 2 | DRAWING NUMBER ISI-11206-005 | REV. 1

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO.					
				VOL.	SURF.	VT1	VT2	VT3	VT4

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11206-005	2	2I2	KG0	8"	40S	.322"	SA312 TP304	300	255	270	AMB	N/A





KEY PLAN
LEVEL A

LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ♦ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:

PETD 1X4DB131
FAB. ISO. IK5-1206-005-01/S3, IK5-1206-005-03/11
PIPING LAYOUT DWG 1X4DL3G03, G04, G05
CIVIL / STRUCTURAL AX1D08A08D
HANGER DETAIL DWG. W-1206-005-H001, H008, H009, H010, H011, H013
F-SHEETS F-2710, F-5399, F-6400, F-5401

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 1	DATE 5-28-87	REVISION 0	DATE 11-11-85
								GENERAL REVISION TO UPDATE DRAWING FOR ISI		ISSUED FOR INSPECTION	

BY	DWG'D	APPR.1	APPR.2	APPR.3	APPR.4	BY	DWG'D	APPR.1	APPR.2	APPR.3	APPR.4	BY	DWG'D	APPR.1	APPR.2	APPR.3	APPR.4	BY	DWG'D	APPR.1	APPR.2	APPR.3	APPR.4	BY	DWG'D	APPR.1	APPR.2	APPR.3	APPR.4	BY	DWG'D	APPR.1	APPR.2	APPR.3	APPR.4
																		RLB	GLB	GGC				BKG	GJS	CLB									

Southern Company Services, Inc.

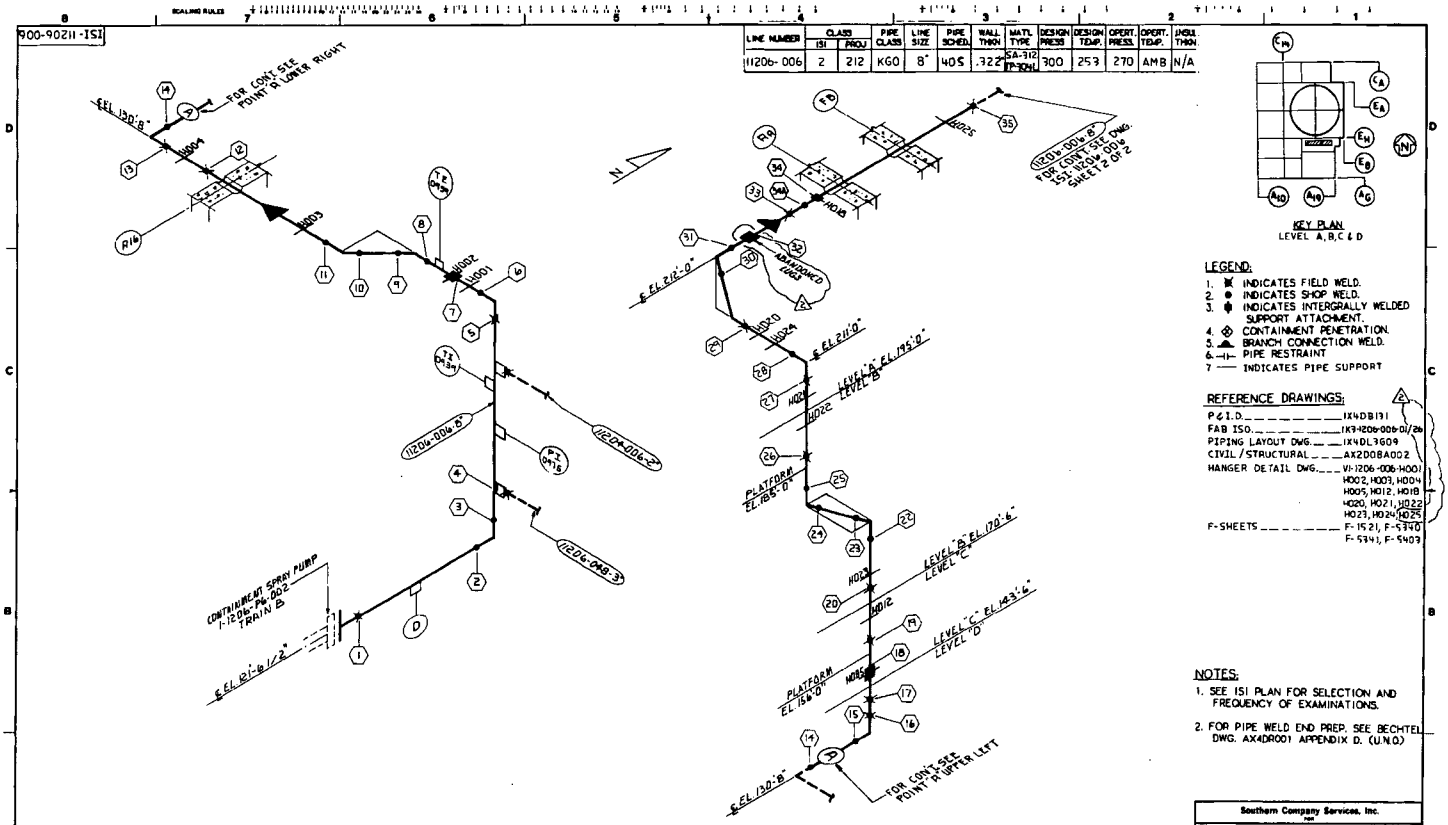
GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 005
INSERVICE INSPECTION ISOMETRIC
CONTAINMENT SPRAY-SYSTEM 1206

DESIGNED	DRAWN BKG	CHECKED	
SCALE	PROJECT I.D.	DRAWING NUMBER	REV.
NONE	SH 2 OF 2	ISI-11206-005	1

ISI-11206-006

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL THKN.
11206-006	2	212	KG0	8"	40S	.322	SA-312 TP-304L	300	253	270	AMB	N/A



LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P&I.D. _____ IX4DB131
FAB ISO. _____ IX3-1206-006-01/2a
PIPING LAYOUT DWG. _____ IX4DL3609
CIVIL/STRUCTURAL _____ AX2D08A002
HANGER DETAIL DWG. _____ VI-1206-006-H001, H002, H003, H004, H005, H012, H018, H020, H021, H022, H023, H024, H025
F-SHEETS _____ F-1521, F-5340, F-5341, F-5403

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	
2	5-28-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI
1	6-14-86	DELETED WELD 21 REVISED LOCATION OF WELDS 34 & 34A
0	11-11-85	ISSUED FOR INSPECTION

Southern Company Services, Inc.
FOR
Georgia Power Company

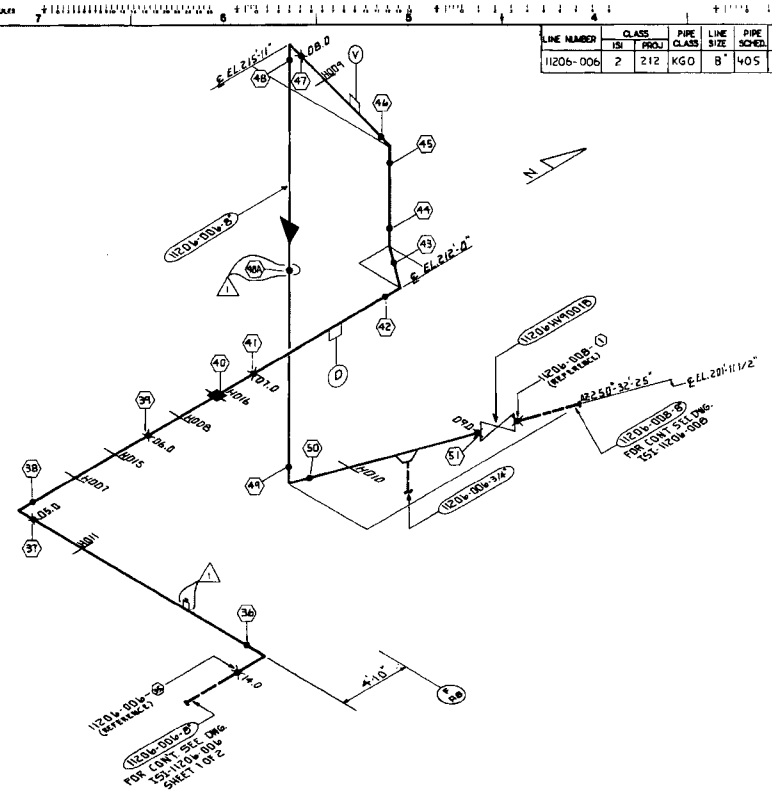
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 006
INSERVICE INSPECTION ISOMETRIC
CONTAINMENT SPRAY - SYSTEM 1206

DESIGNED C.W.D DRAWN R.M.S CHECKED W.S.

SCALE	PROJECT	DRAWING NUMBER	REV.
NONE	1 OF 2	ISI-11206-006	2

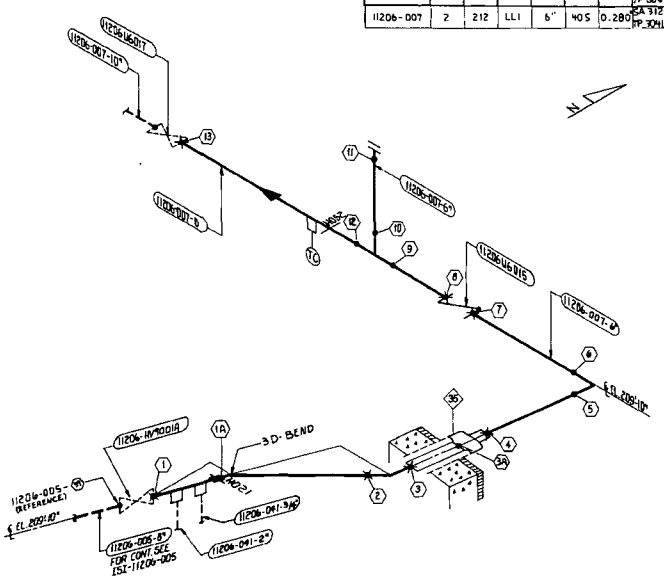
900-90211-ISI

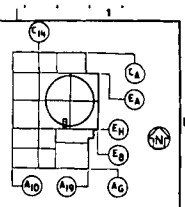
LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11206-006	2	212	KG0	8"	40S	.322	SA 312 TP304L	300	253	270	AMB	N/A


℄ EL.215'-11"
℄ EL.212'-0"
℄ EL.201'-11 1/2"
N
1120W-008-B
1120W-008-B (REFERENCE)
1120W-008-B FOR CONT. ISI L DWG. ISI-1120W-008
1120W-008-B FOR CONT. ISI L DWG. ISI-1120W-008 SHEET 1 OF 2
1120W-008-B (REFERENCE)
1120W-008-B
1120W-008-B
1120W-008-B

100-00211-ISI

LINE NUMBER	CLASS ISI	CLASS FRQU	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11206-007	2	212	LL1	8"	40S	0.322"	SA-312 TP-304	150	253	150	120	N/A
11206-007	2	212	LL1	6"	40S	0.280	SA 312 TP 304L	150	253	150	120	N A





KEY PLAN
LEVEL "A"

LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊕ CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT

REFERENCE DRAWINGS:

P.E.I.D. ——— 1X4DB131
FAB ISO. ——— 1X3-1206-005-03/11, 1X4-1206-007-07/8
PIPING LAYOUT DWG. ——— 1X4DL5503, 1X4DL5903
CIVIL/STRUCTURAL ——— AX2D06A080, 1X2D4SA071
HANGER DETAIL DWG. ——— 1X-1206-007-H021, H052

F'SHEETS ——— F-5402, F10459, F-10460, F-10704

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	
1	5-28-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI
0	11-11-85	ISSUED FOR INSPECTION

Southern Company Services, Inc.

Georgia Power Company

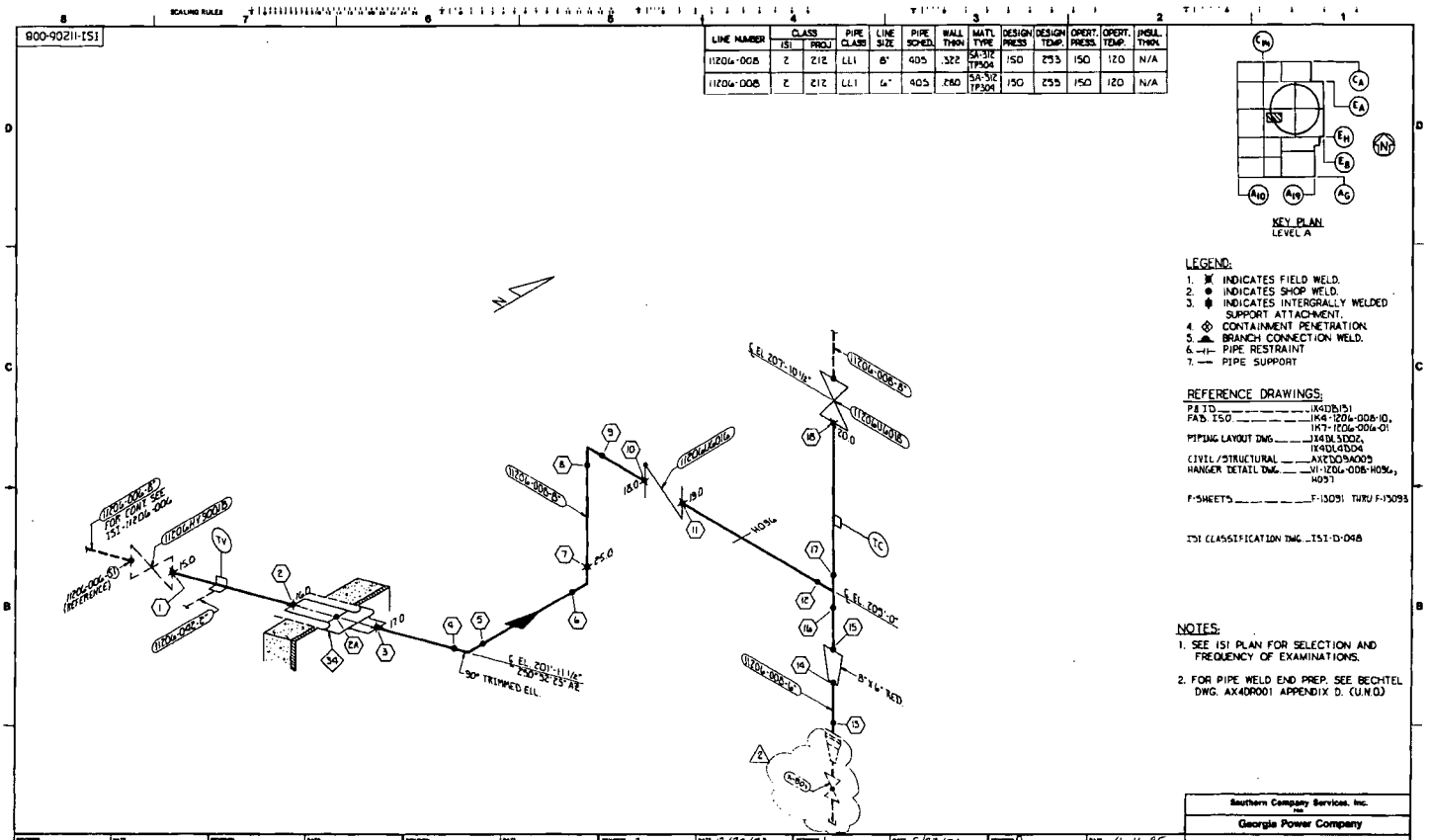
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 – LINE NO. 007
INSERVICE INSPECTION ISOMETRIC
CONTAINMENT SPRAY – SYSTEM 1206

DRAWN CAD | CHECKED CSB | DESIGNED WS

SCALE NONE | DRAWING NUMBER ISI-1206-007 | REV 1

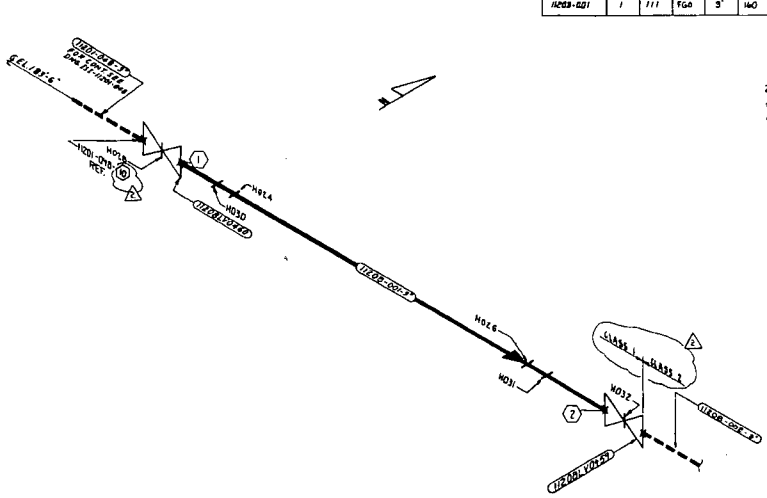
900-90211-ISI

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11206-008	2	212	LL1	8"	40S	.322	SA-312 TP304	150	253	150	120	N/A
11206-008	2	212	LL1	6"	40S	.280	SA-312 TP304	150	253	150	120	N/A


11206-008-B
FOR CONT. SEE ISI-11206-004
11206-008-B
11206-008-B
11206-008-B

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTES NO. 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
1208LV0459	CONTROL VALVE	PRESSURE RET. COMP.	—	—	—	—	[illegible]	—	—
1208LV0460	↓	↓	—	—	—	—	↓	—	—
VI-1208-001-H024	PIPE SUPPORT	[illegible]	INF-1300-1	—	—	—	—	[illegible]	F3.50
-H026	ATTACHMENT	↓	↓	—	—	—	—	[illegible]	F3.50
H028	↓			—	—	—	—	[illegible]	↓
H030	RIGID STRUT			—	—	—	—	[illegible]	—
H031	↓			—	—	—	—	↓	—
H032	MECHANICAL LUGGER	↓	↓	—	—	—	—	↓	F3.50
1208-001-W01.0	B.M.	CIRC. WELD	INP-1200-6	—	D9.21	—	[illegible]		—
1208-001-W02.0	↓	↓	↓	—	↓	—	↓	—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1208-001	1	III	FG0	3"	160	.438	SA-312 TP 304L	2485	650	2205	557	2.5

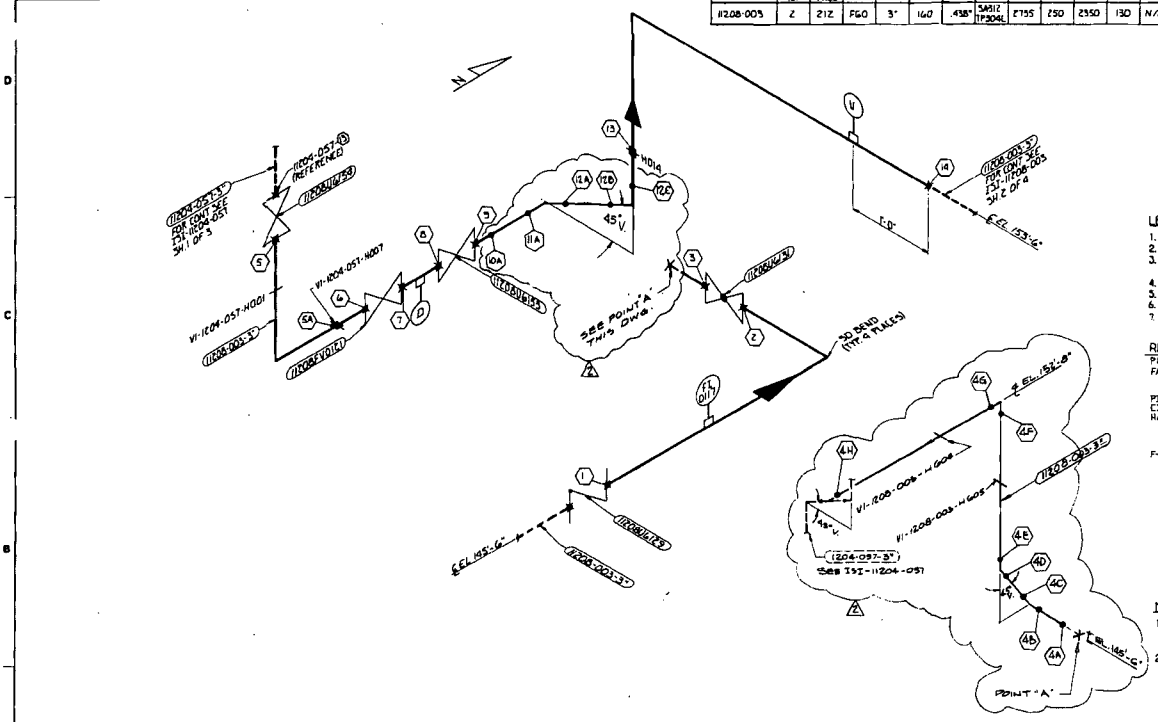


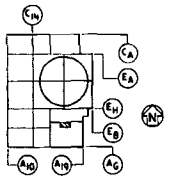
LEGEND:
1. ⅄ INDICATES FIELD WELD.
2. ⬮ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
3. ● INDICATES SHOP WELD.
4. — PIPE SUPPORT

REFERENCE DRAWINGS:
P & ID. — — —

ISI-11208-003

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-003	2	212	FG0	3"	160	.438"	SA312 TP304L	2155	250	2350	130	N/A





KEY PLAN
LEVEL C

LEGEND:
1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ● INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. -|- PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:
PEID ____ IX4DB116-1
FAB. ISO ____ IKS-1204-057-02/23
IKS-1208-003-01/23

PIPING LAYOUT DWG. ____ IX4DL3H05
CIVIL/STRUCTURAL ____ AX2D08AD2B
HANGER DETAIL DWG. ____ VI-1204-057-H001, H007
VI-1208-003-H014
VI-1208-006-H004
VI-1208-003-H005

F-SHEETS ____ F-2365 & 2367

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 04-10-2001	REVISION 1	DATE 5-28-87	REVISION 0	DATE 10-28-83
						REVISED PER DCP 97-V1N0055		GENERAL REVISION TO UPDATE DRAWING FOR ISI		ISSUED FOR INSPECTION	

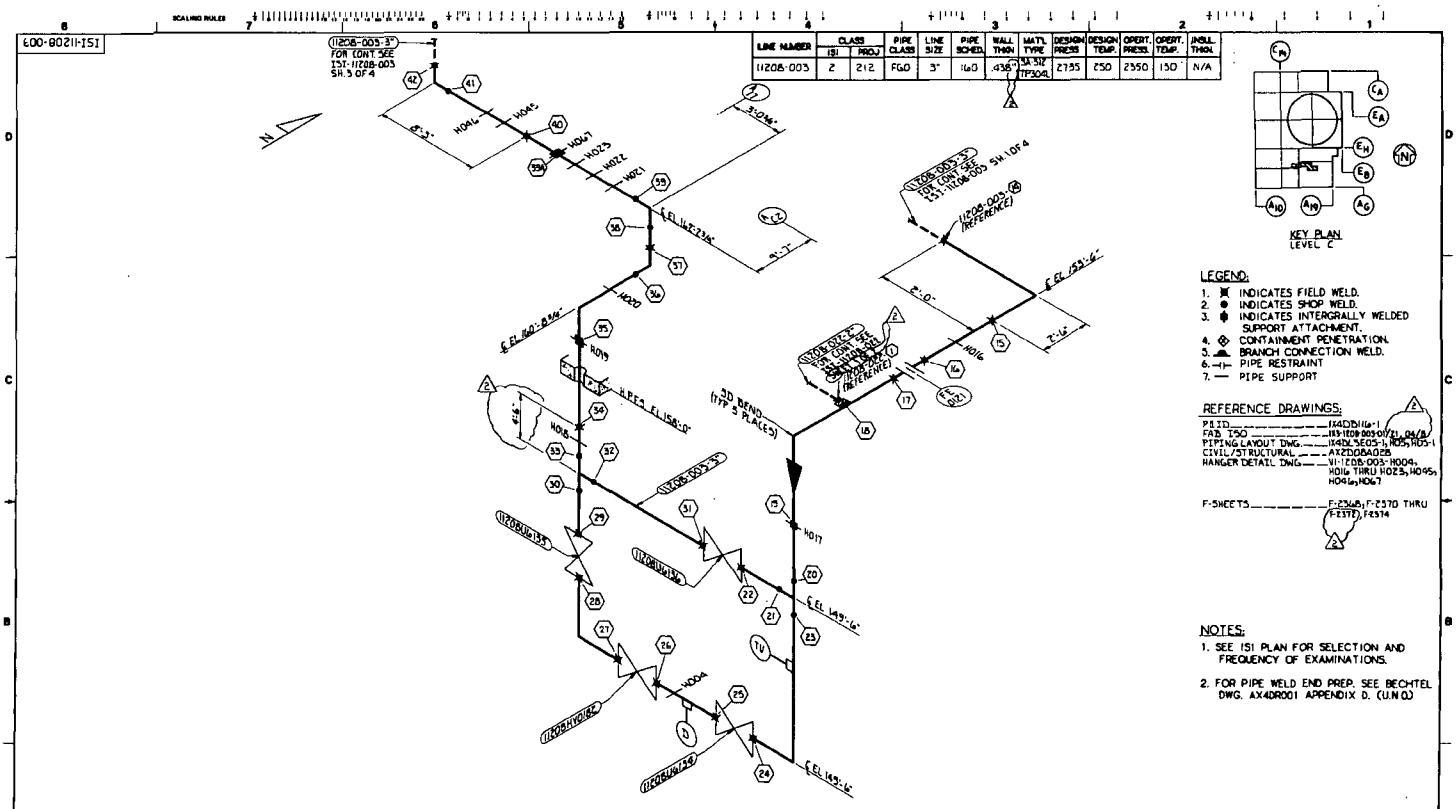
Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 003
INSERVICE INSPECTION ISOMETRIC
CVCS - SYSTEM 1208

DESIGNED CWD | DRAWN BKG | ENGINEER WS
SCALE NONE | SHEET 1 OF 4 | DRAWING NUMBER ISI-11208-003 | REV. 2

ISI-11208-003

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-003	2	212	FG0	3"	160	.438	SA-312 TP304L	2735	250	2350	150°	N/A



LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ♦ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ◇ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID ——— 1X4DB116-1
FAB ISO ——— 1X3-1208-003-002, 01, 04/A
PIPING LAYOUT DWG. ——— 1X4DL560S-1, H005-1, H005-1
CIVIL/STRUCTURAL ——— AX2D08A028
HANGER DETAIL DWG ——— VI-1208-003-H004, H016 THRU H023, H045, H046, H047
F-SHEETS ——— F-2368, F-2370 THRU F-2372, F-2374

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 5-28-87	REVISION	DATE 6-10-86	REVISION 0	DATE 10-28-83
						GENERAL REVISION TO UPDATE DRAWING FOR ISI		REVISED LOCATION OF HANGER H045		ISSUED FOR INSPECTION	
BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5					
						RLB	99C	BKG	BST	CWD	BKG	WS	CWD

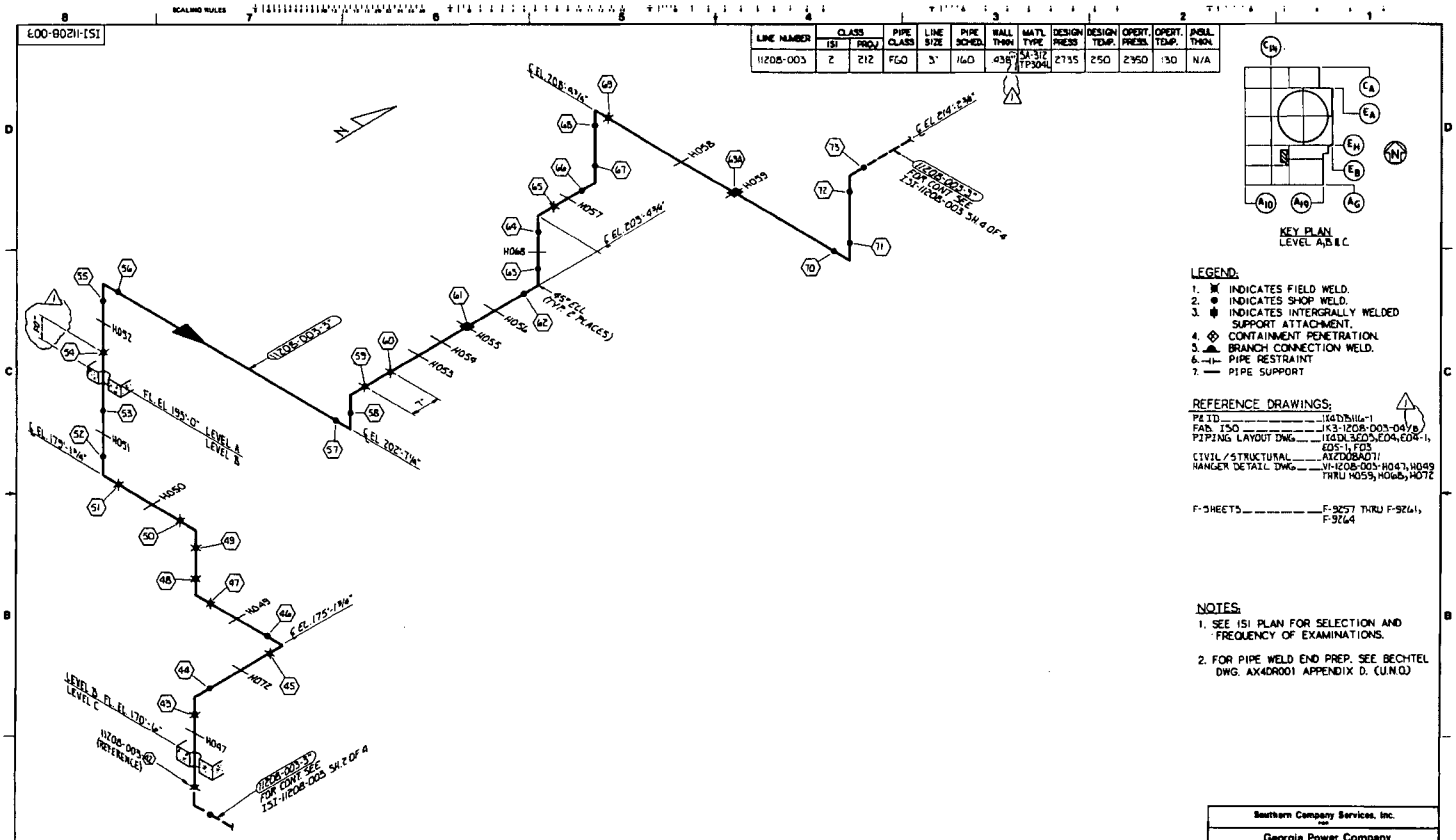
Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 003
INSERVICE INSPECTION ISOMETRIC
CVCS-SYSTEM 1208

DESIGNED CWD | DRAWN BKG | CHECKED WS
SCALE NONE | SHEET 2 OF 4 | PROJECT I.D. | DRAWING NUMBER ISI-11208-003 | REV 2

ISI-11208-003

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-003	2	212	FG0	3"	160	.438	SA-312 TP304L	2735	250	2350	130	N/A



LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID _____ 1X4DB116-1
FAB. ISO _____ 1X3-1208-003-04V8
PIPING LAYOUT DWG. ___ 1X4DL360S, E04, E04-1, E05-1, F05
CIVIL/STRUCTURAL ___ A1ZD08A071
HANGER DETAIL DWG. ___ VI-1208-003-H047, H049 THRU H055, H066, H072

F-SHEETS _____ F-9257 THRU F-9261, F-9264

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 1	DATE 5-28-87	REVISION 0	DATE 10-28-85
								GENERAL REVISION TO UPDATE DRAWING FOR ISI		ISSUED FOR INSPECTION	

Southern Company Services, Inc.

Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 003
INSERVICE INSPECTION ISOMETRIC
CVCS - SYSTEM 1208

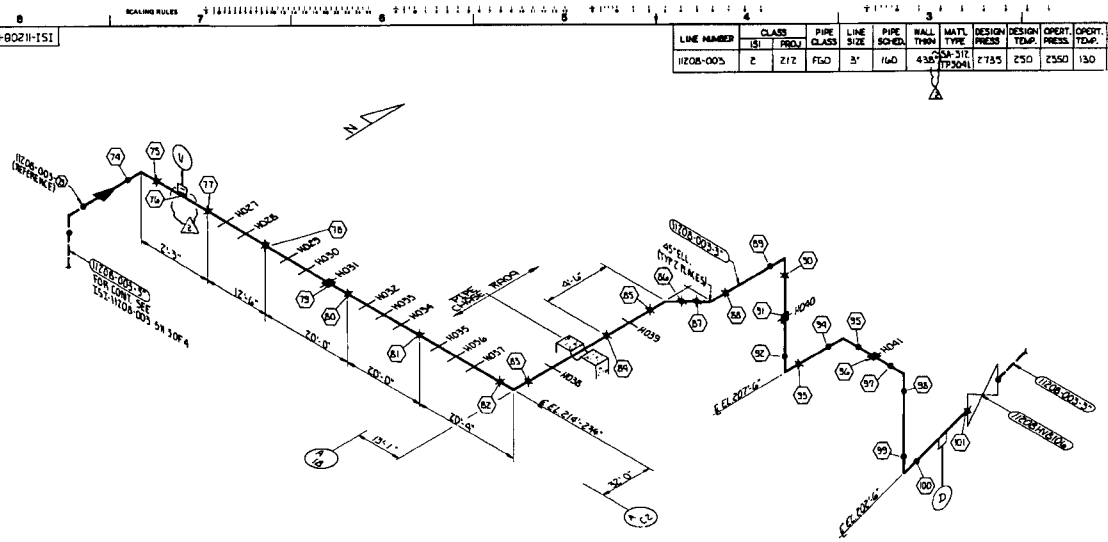
DESIGNED CWD DRAWN BKG CHECKED WS

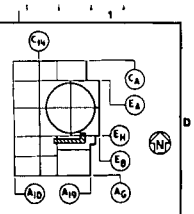
BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5

BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	SCALE	FACILITY I.D.	DRAWING NUMBER	REV
RLB	4-6	9-6																			BKG	6-3	CWD					NONE	SHEET 3 OF 4		ISI-11208-003	1

ISI-11208-003

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-003	2	212	FG0	3"	160	.438	SSA-312 TP304L	2735	250	2550	130	N/A





KEY PLAN
LEVEL A

LEGEND:
1. ✱ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ● INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. ⊣⊢ PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:
P&ID ——— 1X4DB118-1
FAB ISO ——— 1X5-1208-003-09/16 04/8
PIPING LAYOUT DWG ——— 1X4DL51G03-G04
CIVIL/STRUCTURAL ——— AX2D08A080
HANGER DETAIL DWG ——— VI-1208-003-H027 THRU H041
F-SHEETS ——— F-4883 THRU F-4887, F-4897

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG AX4DR001 APPENDIX D. (UNO)

REVISION	DATE	
2	5-28-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI
	6-10-86	REVISED LOCATION OF HANGER H029
0	10-28-85	ISSUED FOR INSPECTION

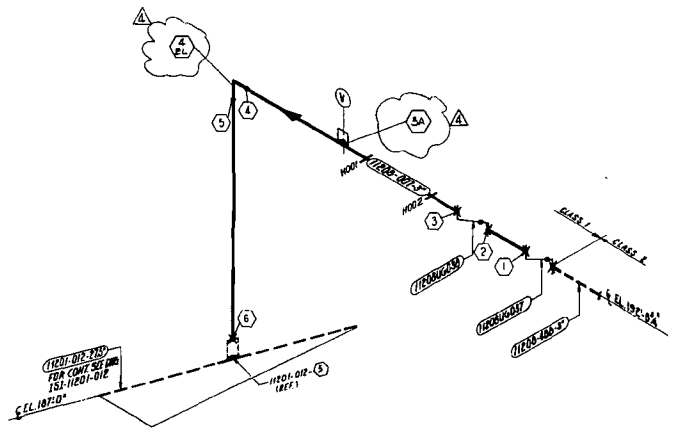
Southern Company Services, Inc.
FOR
Georgia Power Company

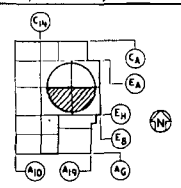
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 -LINE NO. 003
INSERVICE INSPECTION ISOMETRIC
CVCS -SYSTEM 1208

DESIGNED CWD DRAWN BKG CHECKED WS
SCALE NONE SHEET 4 OF 4 ISI-11208-003 REV 2

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO.					
				VOL.	SURF.	VT1	VT2	VT3	VT4
~~11208U0037~~	~~CONT. PENETRATION~~	~~PRESS. RET. COMP.~~	—	—	—	—	~~A/B-11~~	—	—
~~DWG~~			—	—	—	—		—	—
VI-1208-007-H001	PIPE RESTRAINT	MECHANICAL SNUBBER	IMF-1000-1	—	—	—	—	F2.10 F2.20	—
H002	MECHANICAL SNUBBER	COMPONENT SUPPORT		—	—	—	—	F3.10,F3.30 F3.80,F3.90	F3.50
~~11208-007-WOLD~~	~~B.W.~~	~~CLASS WELD~~	~~ILG-2500-B~~	—	~~MT-V~~	—	~~A/B-11~~ ~~A/B-11~~	—	—
~~WOLD~~				—		—		—	—
~~WOLD~~				—		—		—	—
~~WOLD~~				—		—		—	—
~~WOLD~~				—		—		—	—
~~WOLD~~				—		—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-007	1	111	FC0	3"	160	0.438"	SA-312 TP-304	2485	650	2299	656	2.5"





KEY PLAN
LEVEL "B"

LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ♦ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊘ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:

P&I.D. _____ 1X4DB111
FAB ISO. _____ 1KN-1208-488-04/11
PIPING LAYOUT DWG. _____ 0X4DL4005, D06
CIVIL / STRUCTURAL _____ 6C04BA027
HANGER DETAIL DWG. _____ VI-1208-007-H001, H002
F-SHEETS _____ F-13116, F-13117

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
		4	1-12-89	3	5-21-87	2	11-13-85	1	3-19-85
		ADDED: 5A AND 4 EL		GENERAL REVISION TO UPDATE DRAWING FOR ISI		REMOVED HANGER H003.		ADDED NEW WELD NO'S	

REVISION	DATE
0	2-7-84
ISSUED FOR INSPECTION	

Southern Company Services, Inc.

GEORGIA POWER COMPANY

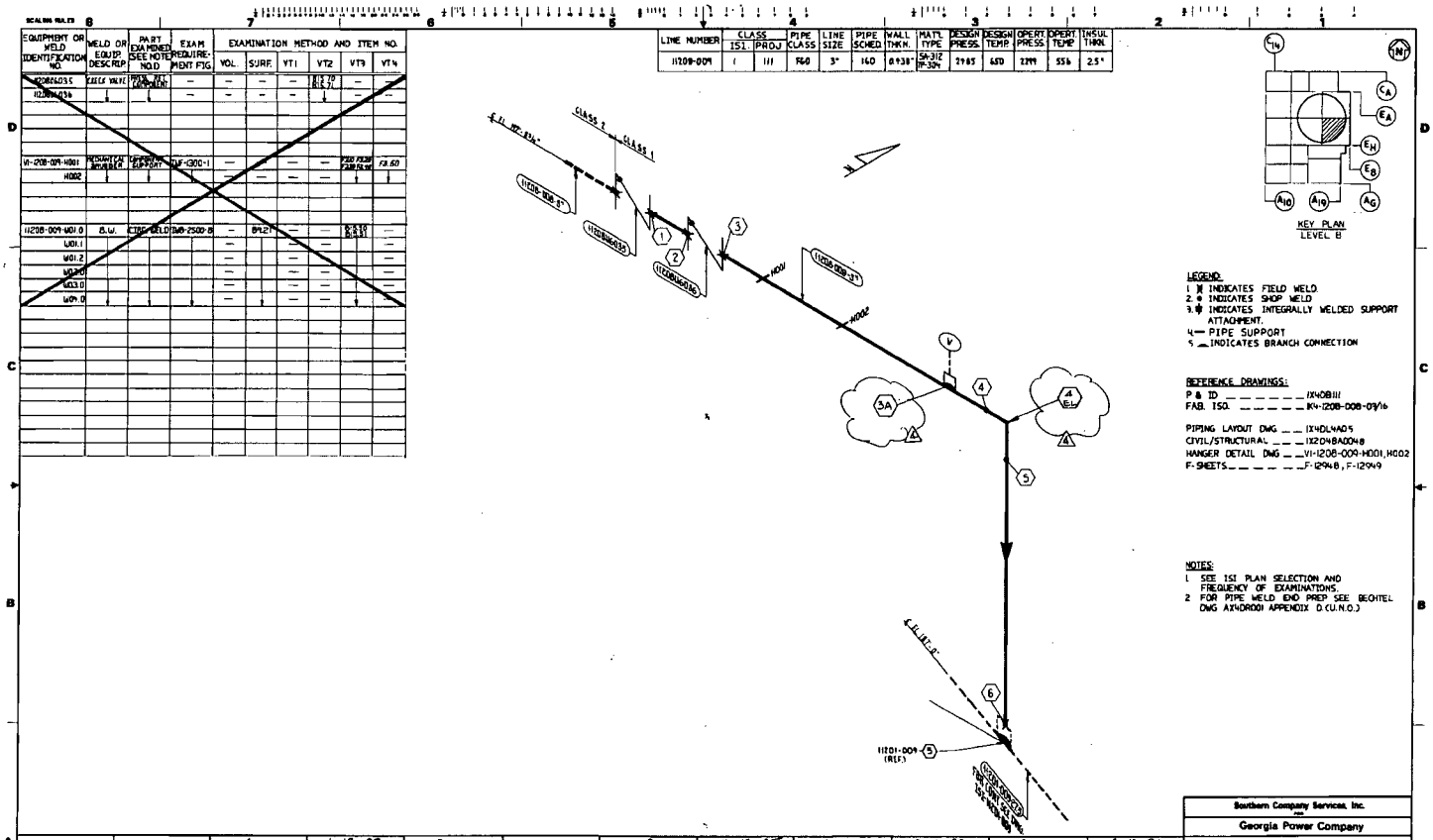
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 007
INSERVICE INSPECTION ISOMETRIC
CHEMICAL & VOLUME CONTROL
SYSTEM 1208

BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4
							WJS		MB				RLB	GLB	DGC				EJD	WJS	CWD				BKb	WJS	CWD			

DESIGNED FT | DRAWN CSB | CHECKED WS | SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-11208-007 | REV 4

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED SEE NOTE HOLD	EXAM REQUIREMENT FIG	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
1208-603-S	CHECK VALVE	PIPE, FITTING	—	—	—	—	B15.70 B15.71	—	—
1208-603-S	↓	↓	—	—	—	—	↓	—	—
W-1208-009-H001	MECHANICAL ANCHOR	LONGITUDINAL SUPPORT	NUF-1300-1	—		—	—	F20 F22 F28 F29 F40	F28.60
H002	↓	↓		—	—	—	—	↓	↓
11208-009-W01.0	B.W.	CTGS WELD	SW-2500-8	—	B4.21	—	—	C5.10 C5.51	—
W01.1				—		—	—		—
W01.2				—		—	—		—
W01.3				—		—	—		—
W01.0				—		—	—		—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN.	MATL TYPE	DESIGN PRESS.	DESIGN TEMP	OPERT. PRESS.	OPERT. TEMP	INSUL THKN.
11208-009	1	III	R60	3"	160	0.938"	SA-312 TP-304	2985	650	2299	556	2.5"



LEGEND:
1. ▶ INDICATES FIELD WELD
2. ● INDICATES SHOP WELD
3. ⊕ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
4. — PIPE SUPPORT
5. ⊥ INDICATES BRANCH CONNECTION

REFERENCE DRAWINGS:
P & ID _____ 1X4DB111
FAB. ISO. _____ K4-1208-008-09/16
PIPING LAYOUT DWG. ___ 1X4DL440S
CIVIL/STRUCTURAL. ___ 1X2N8A0048
HANGER DETAIL DWG ___ W-1208-009-H001, H002
F-SHEETS _____ F-12948, F-12949

NOTES:
1. SEE ISI PLAN SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP SEE BECHTEL DWG A1N0R001 APPENDIX D.(U.N.O.)

REVISION	DATE	
4	1-12-89	ADDED: 3A AND 4
3	5-21-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI
2	11-18-85	ADDED HANGER H002 AND DIMENSION
1	3-19-85	ADDED: NEW WELD NO'S REMOVED REF. WELD REMOVED CONTINUATION NOTE
0	2-13-84	ISSUED FOR INSPECTION

Southern Company Services, Inc.

Georgia Power Company

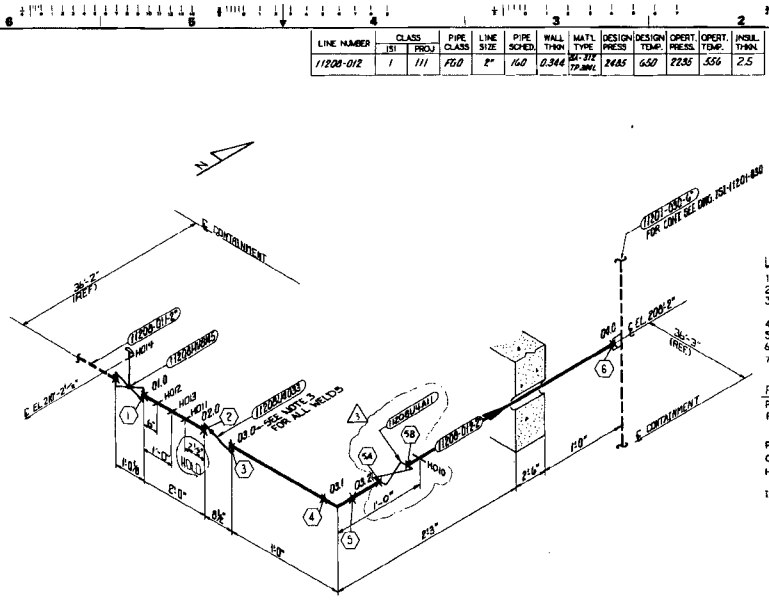
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO.009
INSERVICE INSPECTION ISOMETRIC
CHEMICAL AND VOLUME CONTROL - SYSTEM 1208

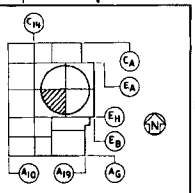
DESIGNED FT | DRAWN TPM | CHECKED VS

SCALE NONE | PROJECT LO | DRAWING NUMBER ISI-1208-009-4 | REV 4

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO.					
				VOL.	SURF.	VT1	VT2	VT3	VT4
11208UW8145	CONTROL VALVE	VALVE, BELLOWS	—	—	—	—	B16.20 Rev. 21	—	—
11208U4033	CONTROL VALVE	VALVE	—	—	—	—	↓	—	—
11208-012-H010	MECHANICAL SNUBBER	COMPONENT SUPPORT	SUP-1300-1	—	—	—	—	F358 F359 F360 F370	F358
H011	↓	↓	↓	—	—	—	—	↓	↓
H012	↓	↓	↓	—	—	—	—	↓	↓
H013	VARIABLE SPRING	↓	↓	—	—	—	—	↓	↓
H014	MECH. SNUBBER	↓	↓	—	—	—	—	↓	↓
11208-012-W012.0	S.W.	CTRL. WELD	IWB-2520-4	—	89.40	—	B16.20 Rev. 21	—	—
11208-012-W02.0	↓	↓	↓	—	↓	—	↓	—	—
11208-012-W03.0	↓	↓	↓	—	↓	—	↓	—	—
11208-012-W03.1	S.W.	CTRL. WELD	↓	—	89.21	—	↓	—	—
11208-012-W03.2	↓	↓	↓	—	↓	—	↓	—	—
11208-012-W04.0	↓	↓	↓	—	↓	—	↓	—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL. TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-012	1	111	F60	2"	160	0.344	SA-312 TP304L	2485	650	2235	556	2.5





KEY PLAN
LEVEL A

LEGEND:
1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —||— PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:
P&I.D. _____ 1X4DB112
FAB ISO. _____ 1X4-1201-029-02

PIPING LAYOUT DWG. _____ 1X4DL4D03
CIVIL/STRUCTURAL _____ 1X2D4BAD11, 1X2D4BF006
HANGER DETAIL DWG. _____ V1-1208-012-H010, H011, H012, H013, H014

ISI CLASS DWG. _____ ISI-D-027

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (UNO)
3. THESE WELDS ARE NUMBERED AS FOLLOWS ON FAB. ISO. :
   010 — 030-W-09F
   020 — 030-W-09E
   030 — 030-W-09D
   031 — 030-W-09C
   032 — 030-W-09B
   040 — 030-W-09A

REVISION	DATE	REMARKS	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4
3	01-29-86	ADDED VALVE NO. 11208U4041 AND WELD NUMBERS 5A & 5B.	GPP	WS	CWD			
2	11-18-85	REMOVED HANGER H015 & ELEVATION	EJO	WS	CWD			
1	3-19-85	ADDED NEW WELD NUMBERS MADE WELDS 03.1 & 03.2 FIELD WELDS. H013 IS VARIABLE SPRING. REVISED LEGEND AND REFERENCES. ADDED NOTE 3. REMOVED CONTINUATION NOTE	BST	WS	CWB			
0	9-19-83	ISSUED FOR INSPECTION	BGS	WS				

Southern Company Services, Inc.

GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 012
INSERVICE INSPECTION ISOMETRIC
CHEMICAL & VOLUME CONTROL
SYSTEM 1208

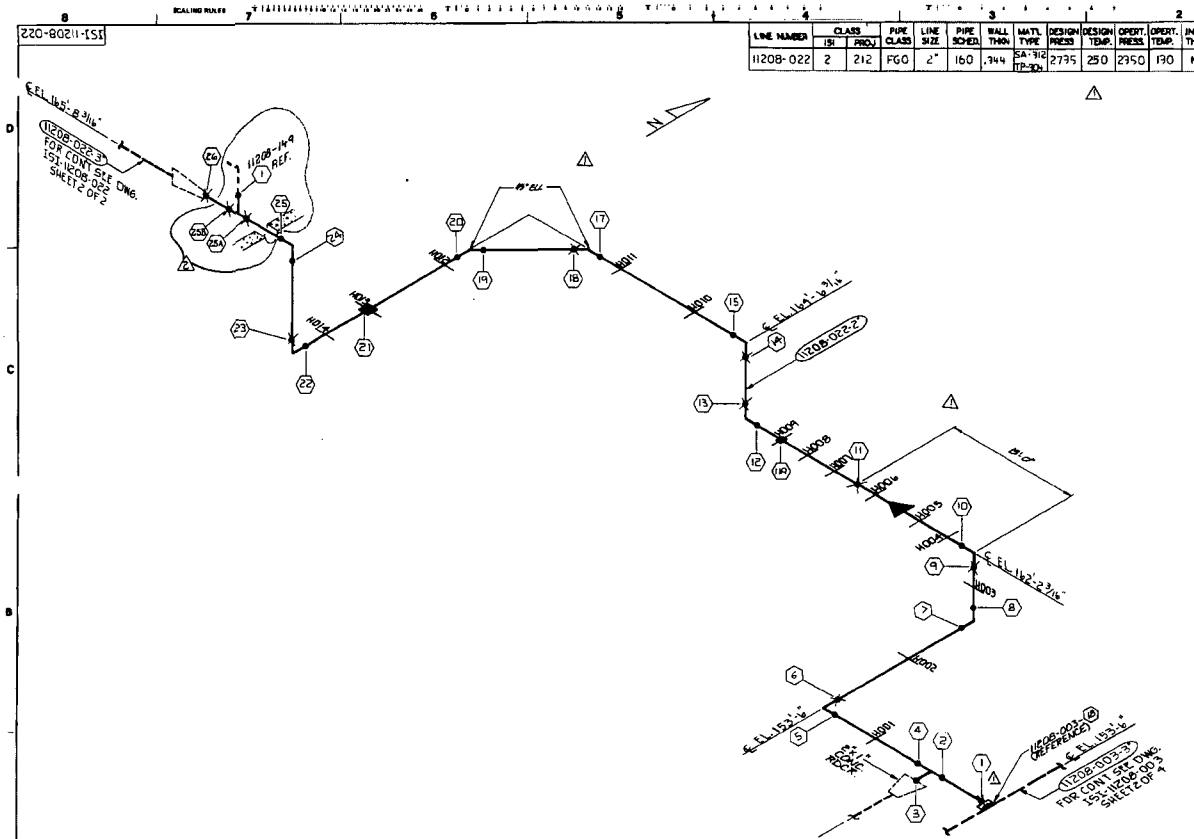
DRAWN C.S.B. CHECKED W.S.

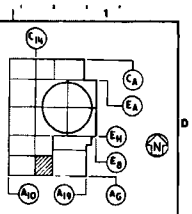
SCALE: NONE

DRAWING NUMBER: ISI-11208-012 REV 3

ISI-11208-022

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-022	2	212	FG0	2"	160	.344	SA-312 TP-304	2735	250	2350	130	N/A





LEGEND:

1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ◇ CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & I.D. — IX4DB116-1
FAB ISO. — IX3-1208-022-04
PIPING LAYOUT DWG. — IX4DL3F05-1, IX4DL3E05-1, IX4DL3H05-1
CIVIL/STRUCTURAL HANGER DET. DWG. — AX2008A025, V1-1208-022-H001, H002, H003, H004, H005, H006, H007, H008, H009, H010, H011, H012, H013, H014

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION C	DATE 4-26-89	REVISION	DATE 5-28-87	REVISION D	DATE 10-20-81
						ADDED WELDS 25A & 25B PER DCP B7VIN0386		Branch Revision To Update Drawing For ISI.		ISSUED FOR INSPECTION	

Southern Company Services, Inc.
Georgia Power Company

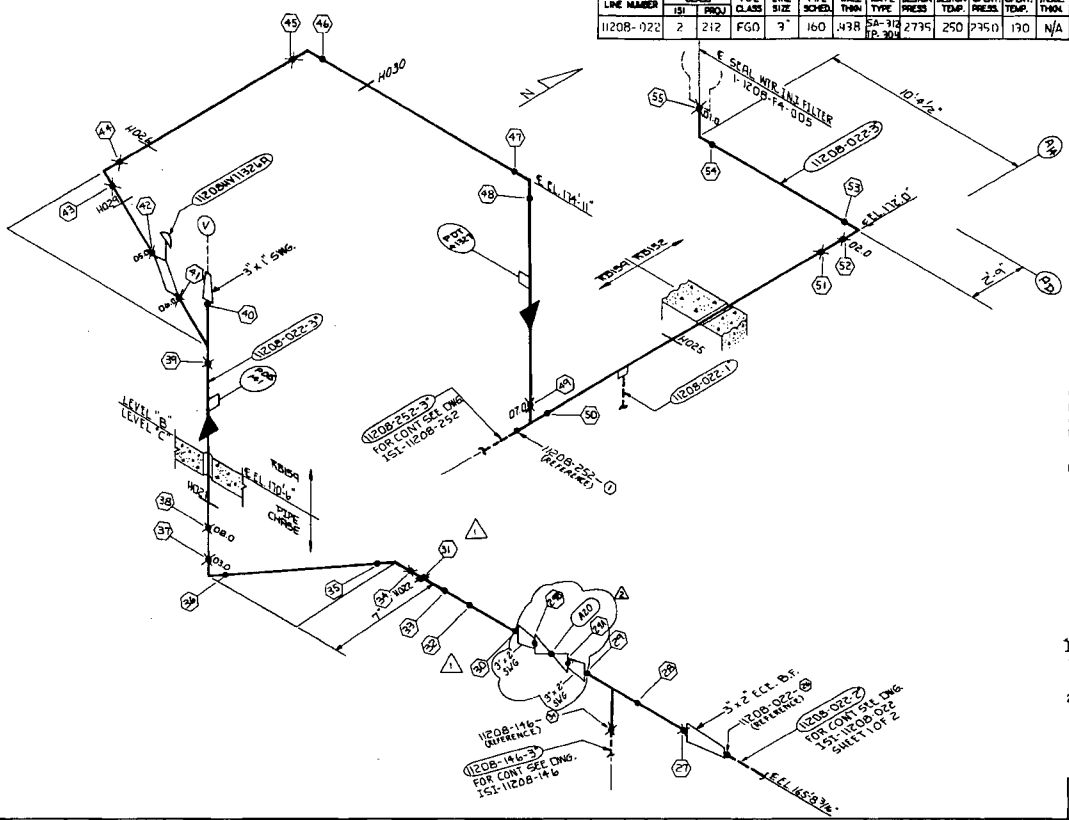
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 022
INSERVICE INSPECTION ISOMETRIC
CHEMICAL & VOLUME CONTROL
SYSTEM 1208

DRAWN C.W.D. CHECKED R.M.S. APPROVED W.S.

SCALE NONE | SHEET 1 OF 2 | DRAWING NUMBER ISI-11208-022 | REV. 2

ISI-11208-022

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-022	2	212	FG0	3"	160	.438	SA-312 TP. 304	2735	250	2350	190	N/A



LEGEND:

1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P&I.D. — IX4D8116-1
FAB ISO — IK3-1208-022-03
PIPING LAYOUT DWG. — IX4DL3F04
CIVIL/STRUCTURAL — AX2D08A047
HANGER DET. DWG. — VI-1208-022-H021, H022, H025, H026, H029, H030
F-SHEETS — F-8060, 9957, 8915, 15512, 15513, 15514

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 4-25-89	REVISION 1	DATE 6-10-86	REVISION 0	DATE
						ADDED WELDS 29A & 29B PER DCP 87VIN0386		REVISED PER WALKDOWN		ISSUED FOR INSPECTION	

Southern Company Services, Inc.
Georgia Power Company

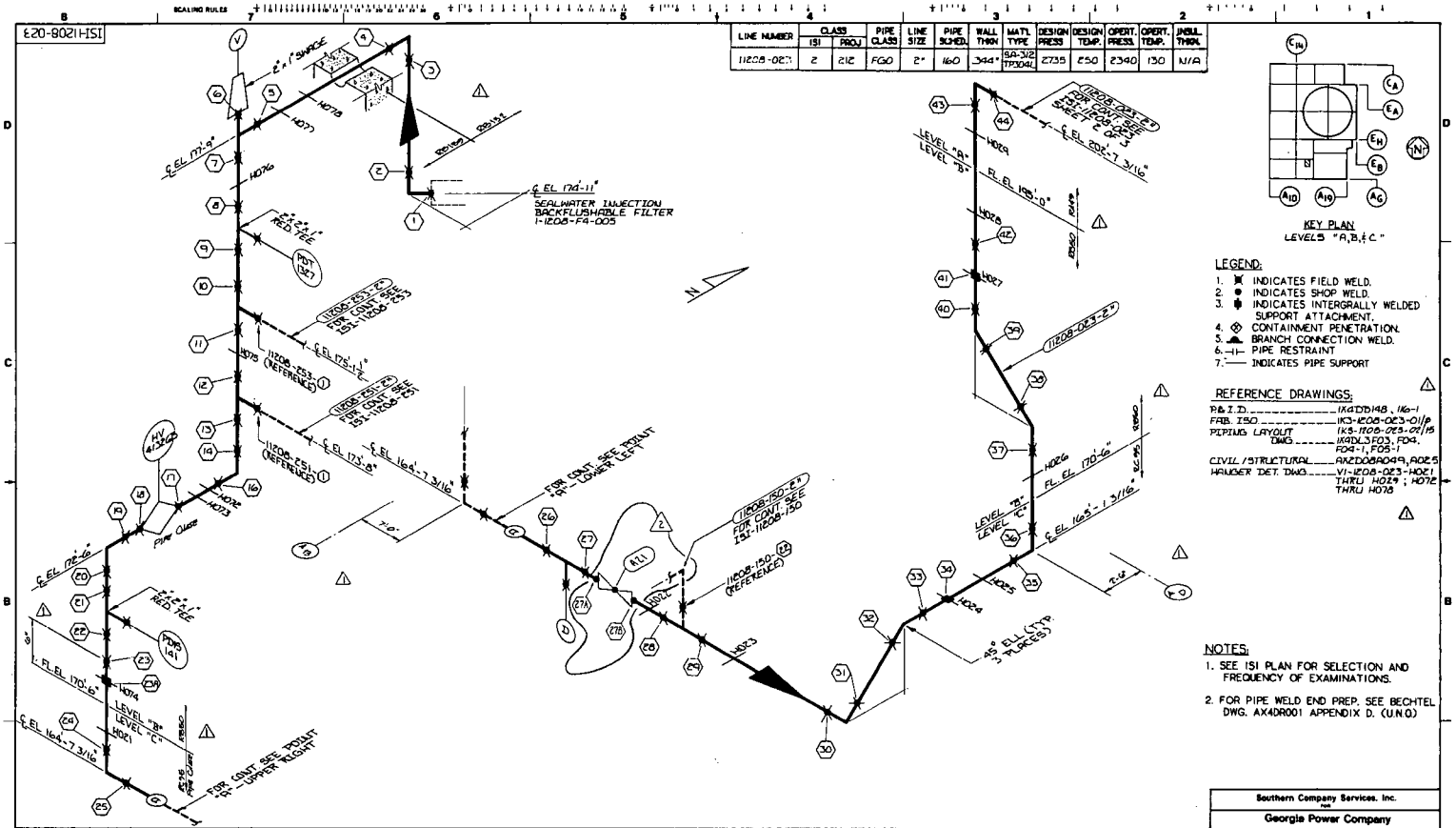
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 022
INSERVICE INSPECTION ISOMETRIC
CHEMICAL & VOLUME CONTROL
SYSTEM 1208

DESIGNED CKD DRAWN RJMS CHECKED WS

SCALE NONE | 2 OF 2 | PROJECT I.D. | DRAWING NUMBER ISI-11208-022 | REV. 2

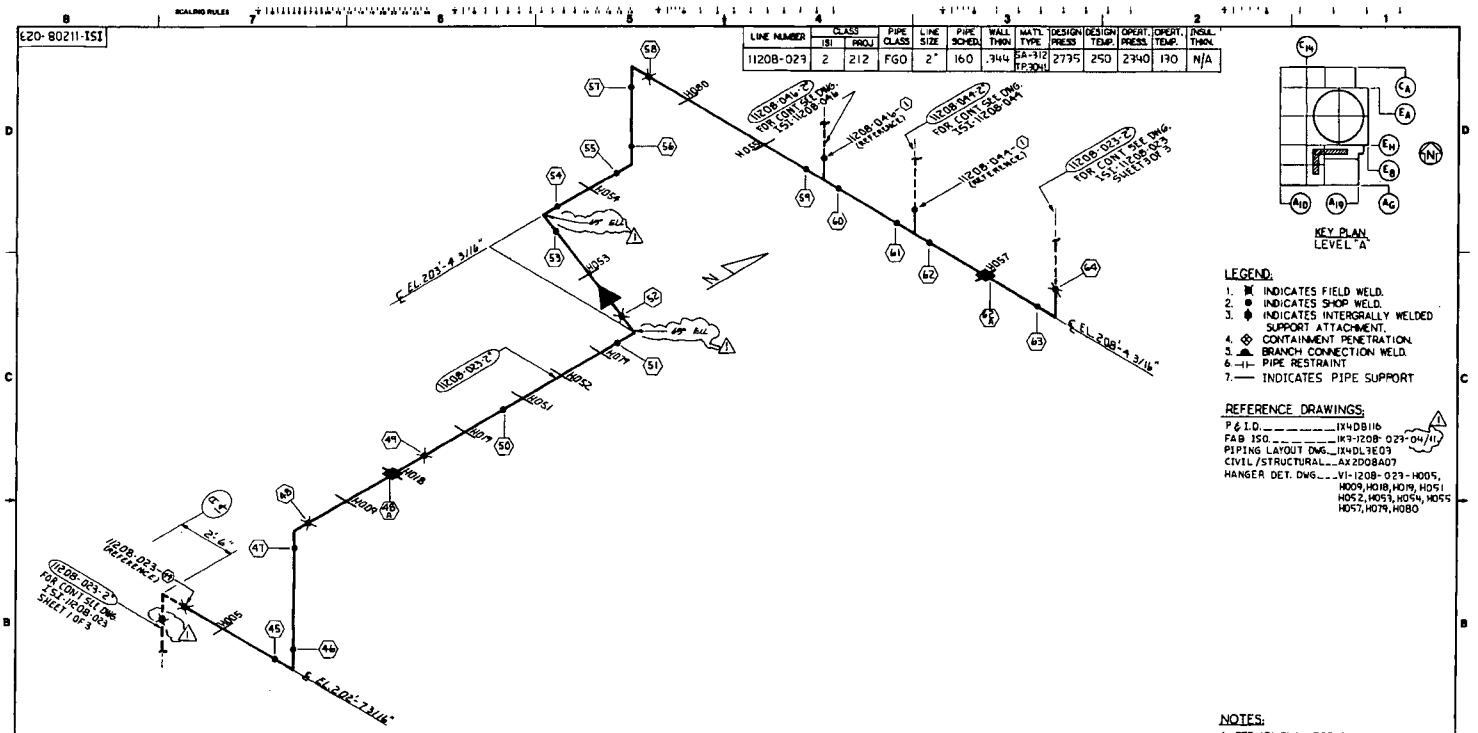
ISI-11208-023

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-023	2	212	FG0	2"	160	.344"	SA-312 TP304L	2735	650	2340	130	N/A



ISI-11208-023

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERAT. PRESS.	OPERAT. TEMP.	INSUL. THKN.
11208-023	2	212	FG0	2"	160	.344	SA-312 TP304	2735	250	2340	190	N/A



LEGEND:

1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & I.D. _____ IX4DB116
FAB ISO. _____ IX9-1208-023-04/11
PIPING LAYOUT DWG. _____ IXHDL3E03
CIVIL/STRUCTURAL ____ AX2D08A07
HANGER DET. DWG. ____ VI-1208-023-H005, H009, H018, H019, H051, H052, H053, H054, H056, H057, H079, H080

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 1	DATE 5-28-87	REVISION 0	DATE 10-28-86
								GENERAL REVISION TO UPDATE DRAWING FOR ISI.		ISSUED FOR INSPECTION	

Southern Company Services, Inc.

Georgia Power Company

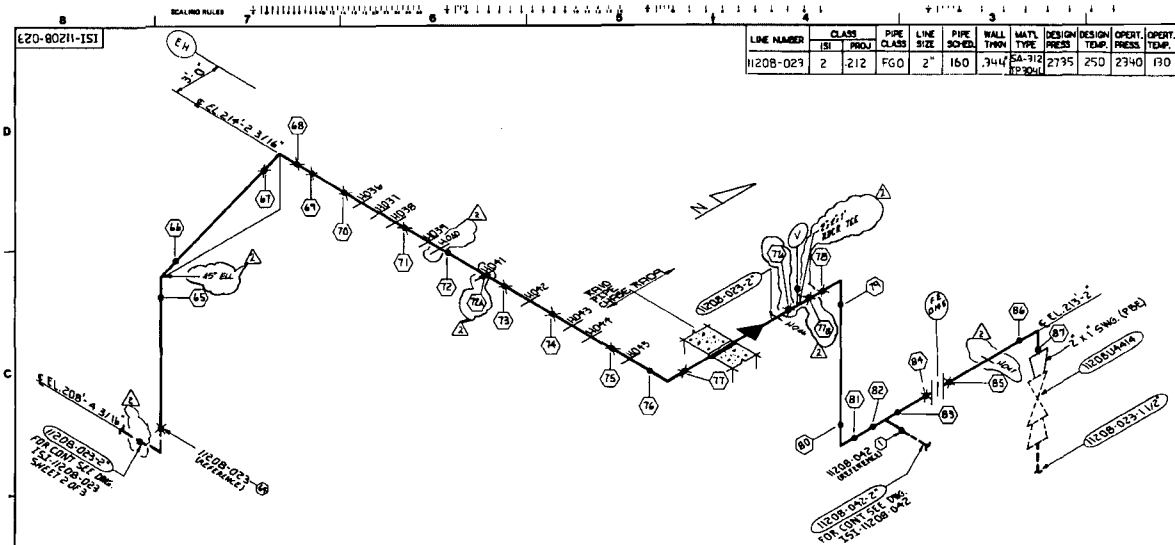
VOGTLE ELECTRIC GENERATING PLANT
UNIT I-LINE NO-023
INSERVICE INSPECTION ISOMETRIC
CHEMICAL & VOLUME CONTROL
SYSTEM 1208

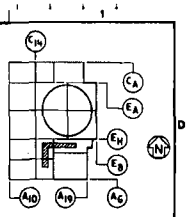
DESIGNED C.W.D. DRAWN R.M.S. CHECKED W.S.

DRAWN	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	DRAWN	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5	DRAWN	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5

ISI-11208-023

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL. TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-023	2	212	FG0	2"	160	.344	SA-312 TP304L	2735	250	2340	130	N/A





LEGEND:

1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ⬢ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. ⊣⊢ PIPE RESTRAINT
7. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & I.D. — IX4DB116-1
FAB ISO — IK3-1208-023-03/14 (04/11)
PIPING LAYOUT DWG. — IX4DL3E03, IX4DL3F03, IX4DL3G03
CIVIL/STRUCTURAL — AX2D08A080
HANGER DET. DWG. — VI-1208-023-H036, H037, H038, H039, H040, H041, H042, H043, H044, H045, H046, H047

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	DESCRIPTION
2	5-28-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI. ADDED WELDS 713, 714, & 715
1	6-14-86	ADDED VENT
0	10-28-85	ISSUED FOR INSPECTION

Southern Company Services, Inc.

Georgia Power Company

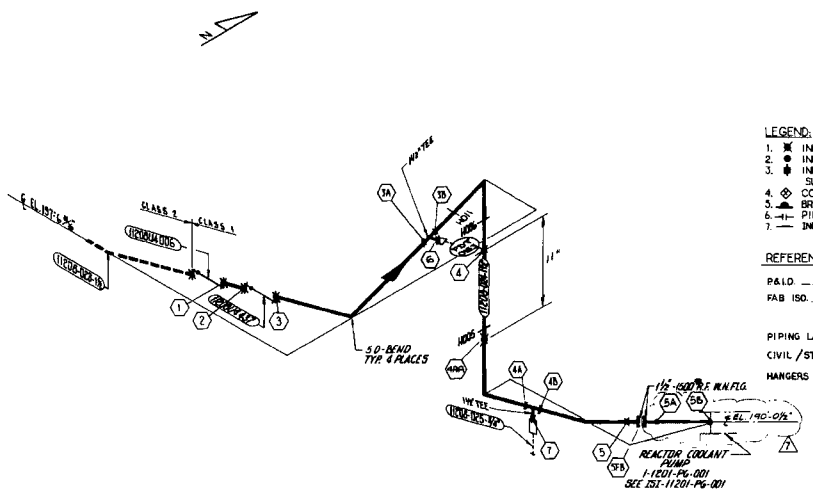
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO-023
INSERVICE INSPECTION ISOMETRIC
CHEMICAL & VOLUME CONTROL
SYSTEM 1208

DRAWN C.W.D. DESIGNED R.M.S. REVIEWED W.S.

SCALE NONE | SHEET 3 OF 3 | DRAWING NUMBER ISI-11208-023 | REV 2

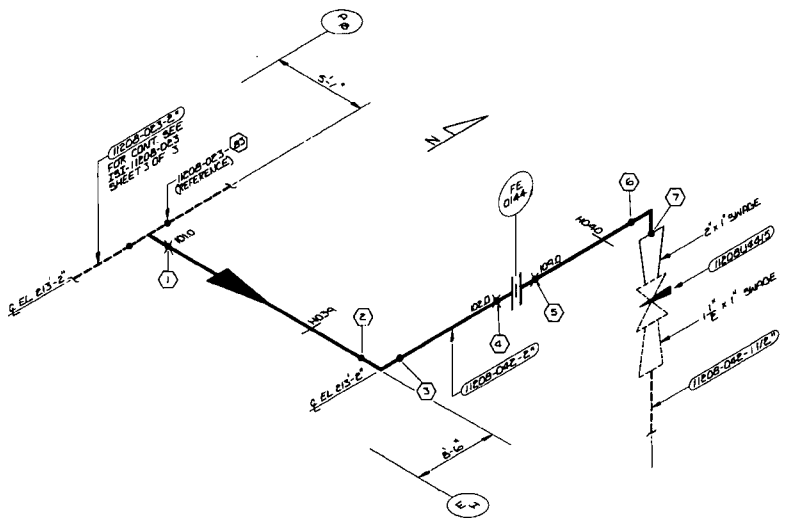
EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
1H208UM004G	[illegible]	[illegible]	—	—	—	—	[illegible]	—	—
1H208UM143J			—	—	—	—		—	—
VI-1208-024-H008	[illegible]	[illegible]	2INF-0001-1	—	—	—	—	[illegible]	13.50
VI-1208-024-H006				—	—	—			
VI-1208-024-H007				—	—	—	—		
VI-1208-024-H009	[illegible]	[illegible]	2INF-1300-1	—	—	—	—	[illegible]	13.150
VI-1208-024-H010				—	—	—	—		
VI-1208-024-H011	[illegible]	[illegible]			—	—	—		
1H208-024-W102.0	S.W.	[illegible]	2INF-0009-9	—	89.40	—	[illegible]	—	—
1H208-024-W103.0				—		—		—	—
1H208-024-W104.0				—		—		—	—
1H208-024-W105.0	S.W.			—	89.27	—		—	—
1H208-024-W106.1				—		—		—	—
1H208-024-5FB	R.C. PUMP 001	FIELD BOLT ASSEMBLY	—	—	—	B7.60	—	—	—

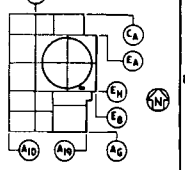
LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1H208-024	1	111	F00	1.5"	160	.281"	SA 376 TP 304L	2485	650	2340	130	N/A


℄ EL. 197'-6 3/4"
CLASS 2
CLASS 1
1H208-UM-004G
1H208-UM-143J
1H208-UM-143J
1H208-UM-143J

ISI-11208-042

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-042	2	212	F60	2"	160	.344"	SA-312 TP304L	2485	650	2340	130	N/A





KEY PLAN
LEVEL "A"

LEGEND:

1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & I.D. ——— 1X4DB114
FAB. ISO. ——— 1K3-1208-023-03
PIPING LAYOUT DWG ——— 1X4DV3303
CIVIL/STRUCTURAL ——— AX2D048080
HANGER DET. DWG ——— VI-1208-042-H039, H040
ISI CLASS. DWG ——— ISI-D-068

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE
0	10-28-85

ISSUED FOR INSPECTION

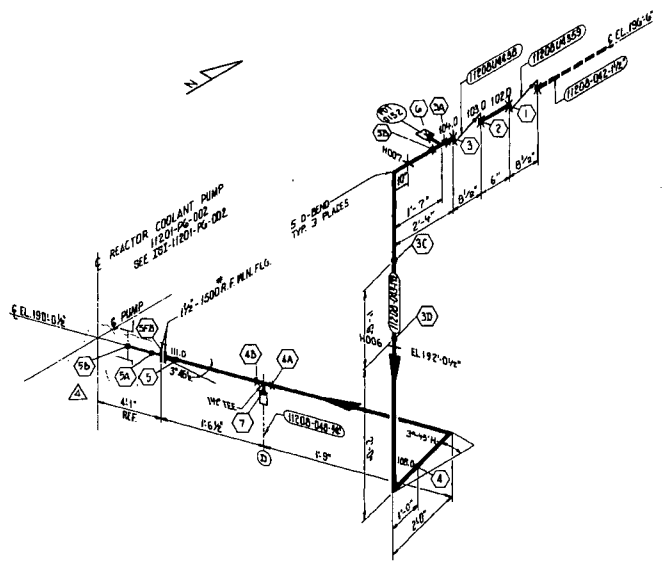
Southern Company Services, Inc.
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 042
INSERVICE INSPECTION ISOMETRIC
CVCS - SYSTEM 1208

DESIGNED CWD | DRAWN BST | CHECKED WS
SCALE NONE | PROJECT I.D. | CHANGE NUMBER | REV.
ISI-11208-042 | 0

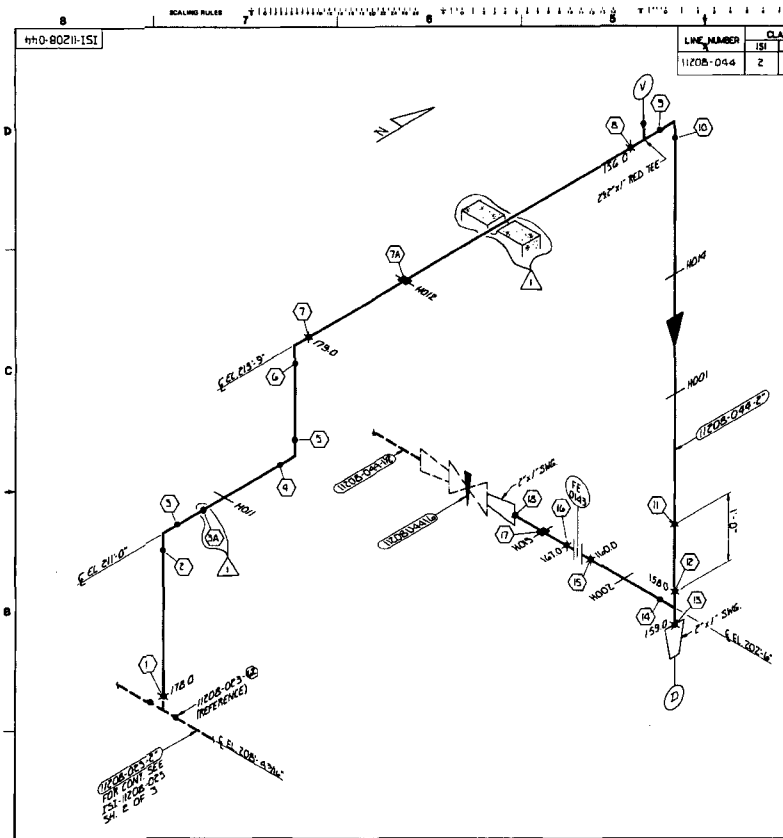
EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11208-043-B59	CHECK VALVE	PIPE SEC. NO. 1 COMPONENT	—	—	—	—	1/2, 7, 11	—	—
11208-043-B8	↓	↓	—	—	—	—	↓	—	—
VI-1208-043-H006	ANCH. SUPPORT	COMPONENT SUPPORT	DWG-H002-1	—	—	—	—	1/2, 3, 4, 5, 6, 7, 8, 9, 10, 11	FA.80
VI-1208-043-H007	↓	↓		—	—	—	—	↓	↓
VI-1208-043-H007	DWG. H-H007	LOCAL SUPPORT		—	—	—	—	1/2, 7, 10	—
VI-1208-043-H008	ANCH. SUPPORT	COMPONENT SUPPORT	↓	—	—	—	—	1/2, 7, 8, 9, 10, 11	F3.50
11208-043-W020	3 IN.	CLASS NO. 1	DWG-E002-8	—	100.10	—	1/2, 7, 8, 9, 10, 11	—	—
11208-043-W030	↓	↓		—	—	—	↓	—	—
11208-043-W040	↓	↓		—	—	—	↓	—	—
11208-043-W050	6 IN.			—	100.21	—	↓	—	—
11208-043-W110	↓	↓		—	↓	—	↓	—	—
11208-043-SF8	RC PUMP CASE	PUMP BODY PENETRATION	—	—	—	B3.60	—	—	—

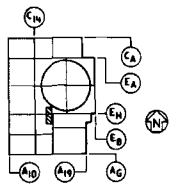
LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MATL. TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-043	1	111	1C0	1 1/2"	160	0.281	SA 312 TP 304L	2485	650	2340	130	N/A



ISI-11208-044

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-044	2	212	F60	2"	160	.344	SA-312 TP304L	2735	250	2340	130	N/A





KEY PLAN
LEVEL A

LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ◇ CONTAINMENT PENETRATION.
5. ⊥ BRANCH CONNECTION WELD.
6. -|- PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID ____ AX4DB114
FAB. ISO. ____ IK3-1208-023-04, IK7-1208-044-01
PIPING LAYOUT DWG. ____ AX4DL5D01, E03
CIVIL/STRUCTURAL ____ AX2D08A07
HANGER DETAIL DWG. ____ VI-1208-044-H001, H002, H011, H012, H014, H015

ISI CLASSIFICATION DWG. ____ ISI-D-028

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 0	DATE 10-25-85
								ADDED WELD 3A ADDED WALL	6-10-86	ISSUED FOR INSPECTION	

BY	CHK'D	APPR 1	APPR 2	APPR 3	BY	CHK'D	APPR 1	APPR 2	APPR 3	BY	CHK'D	APPR 1	APPR 2	APPR 3	BY	CHK'D	APPR 1	APPR 2	APPR 3	BY	CHK'D	APPR 1	APPR 2	APPR 3	BY	CHK'D	APPR 1	APPR 2	APPR 3
																				DKG	BST	CWD			DKG	WS	CWD		

Southern Company Services, Inc.
Georgia Power Company

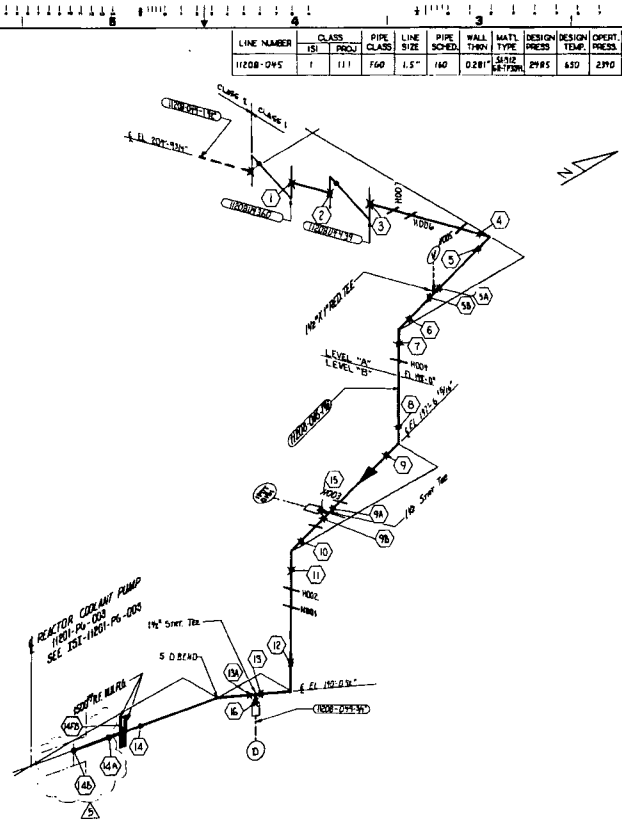
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 044
INSERVICE INSPECTION ISOMETRIC
CVCS - SYSTEM 1208

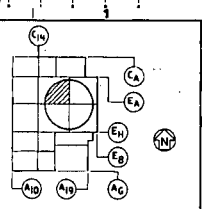
DESIGNED CWD DRAWN BKG CHECKED WS

SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-11208-044 | REV. 1

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
1120BU9360	CHECK VALVE	PIPING SUPPORT	—	—	—	—	B3.70 B3.71	—	—
1120BU9439			—	—	—	—		—	—
VI-1208-045-H001	MECHANICAL SNUBBER	CONTAINMENT PENETRATION	IWF-1300-1	—	—	—	—	F1.40 F1.50 F2.40 F2.50	F3.50
VI-1208-045-H002	MECHANICAL SNUBBER	CONTAINMENT PENETRATION	IWF-1300-1	—	—	—	—	F1.40 F1.50 F2.40 F2.50	F3.50
H001	RESTRAINT	PIPE SUPPORT		—	—	—	—		—
H005	RESTRAINT	PIPE SUPPORT		—	—	—	—		—
H003	VARIABLE SPRING	CONTAINMENT SUPPORT		—	—	—	—	F1.40 F1.50 F2.40 F2.50	F3.50
H006	VARIABLE SPRING			—	—	—	—		—
1208-045-W101.0	SW	LTR. WELD	IWB-1500-1	—	BM.40	—	B3.90 B3.91	—	—
W102.0								—	—
W103.0								—	—
W104.0	BW			—	BM.21	—		—	—
W105.0				—		—		—	—
W112.0				—		—		—	—
W113.0				—		—		—	—
W114.0				—		—		—	—
W115.0				—		—		—	—
W119.0				—		—		—	—
W120.0				—		—		—	—
W120.1				—		—		—	—
W202				—		—		—	—
W211.0				—		—		—	—
VI-1208-045-H001	MECH. SNUBBER	CONTAINMENT SUPPORT	IWF-1300-1	—	—	—	—	F1.40 F1.50 F2.40 F2.50	F3.50
H025				—	—	—	—		
H027	VARIABLE SPRING			—	—	—	—		
1208-045-W115	RC PUMP 003	FLA BOLT ASSEMBLY	—	—	—	B7.60	—	—	—

LINE NUMBER	CLASS 1SI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1120B-045	I	III	F6D	1.5"	160	0.281"	SA312 TP304L	2485	650	2390	130	N/A





KEY PLAN
LEVEL A&B

LEGEND:
1. ✱ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. ⊣⊢ PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:
P&ID _ _ _ _ _ _ _ 1X4DB114
FAB ISO _ _ _ _ _ _ 1X4-1208-045-02/14
PIPING LAYOUT DWG _ 1X4DL4C04 & 05
CIVIL/STRUCTURAL _ 1X2D4BA010
HANGER DETAIL DWG _ VI-1208-045-H001 THRU H007, H025

NOTES:
1. SEE 1SI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	DESCRIPTION
5	08/19/97	CHANGED PIPING CONFIGURATION AND ADDED WELDS 14A AND 14B.
4	1-4-93	REMOVED HANGER H025 PER PCR #2-009
3	3-27-87	GENERAL REVISION TO UPDATE DRAWING FOR 1SI.
2	11-18-85	ADDED NEW WELD NO'S, REDUCING TEES AND FLOW RESTRICTIONS
1	3-11-85	ADDED NEW WELD NO'S; HANGERS H003, H006, H007, H025 & H027
0	3-21-84	ISSUED FOR INSPECTION

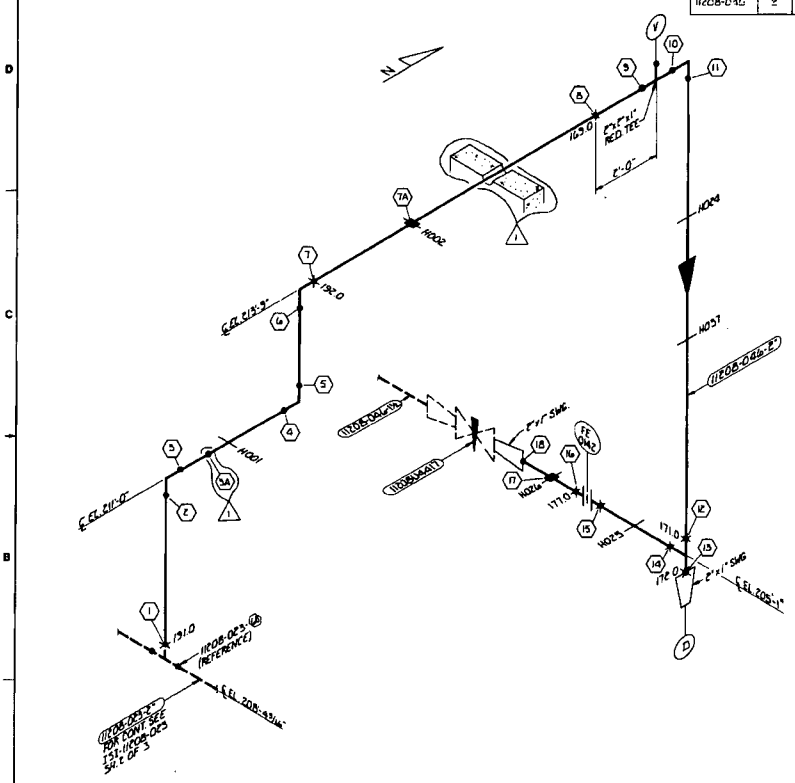
Southern Company Services, Inc.
GEORGIA POWER COMPANY

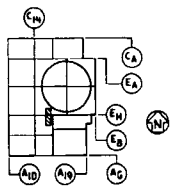
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 045
INSERVICE INSPECTION ISOMETRIC
CHEMICAL & VOLUME CONTROL
SYSTEM 1208

DRAWN WS | DESIGNED TRW | CHECKED WS
SCALE NONE | DRAWING NUMBER 1SI-1208-045 | REV 5

ISI-1208-046

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1208-046	2	212	F60	2"	160	.344	SA-312 TP304L	2755	250	2340	130	N/A





LEGEND:

1. ⋇ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. PIPE SUPPORT

REFERENCE DRAWINGS:

PE ID _____ X4DB114
FAB. ISO _____ IK5-1208-023-04
IK7-1208-046-01
PIPING LAYOUT DWG _____ X4DL3D01 E03
CIVIL/STRUCTURAL _____ AX2D08A07
HANGER DETAIL DWG _____ V1-1208-046-H001, H002, H024 THRU H026, H037

ISI CLASSIFICATION DWG _ISI-D-028

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (UNO)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 1	DATE 6-10-86	REVISION 0	DATE 10-28-85
								ADDED WELD 3A ADDED WALL		ISSUED FOR INSPECTION	

Southern Company Services, Inc.
FOR
Georgia Power Company

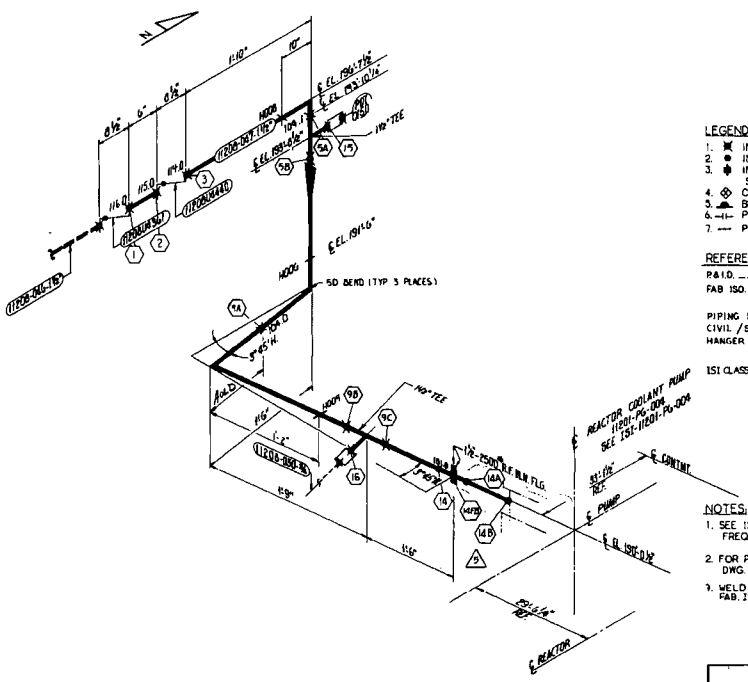
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 046
INSERVICE INSPECTION ISOMETRIC
CVCS - SYSTEM 1208

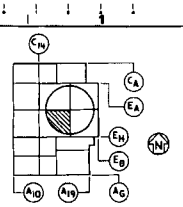
DRAWN CWD | CHECKED BKG | DESIGNED WS
SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-1208-046 | REV 1

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11208U4340	GATE VALVE	PRESS. BDY COMPONENT	—	—	—	—	8.2.1.1	—	—
11208U4440			—	—	—	—		—	—
VI-1208-047-H025	WELD ATTACH	PRESSURE BDY PART	TMF-1080-1	—	—	—	—	8.2.1.1	F3.60
VI-1208-047-H026				—	—	—	—		
VI-1208-047-H027				—	—	—	—		
VI-1208-047-H028	NPS	CONTAINMENT		—	—	—	—	F3.10	—
VI-1208-047-H004	VARIABLE SPRING	COMPONENT SUPPORT		—	—	—	—	8.2.1.1	F3.50
11208-047-W116.0	8.W.	PIPE BOLT	1080-1080-4	—	8.2.1.1	—	8.2.1.1	—	—
11208-047-W115.0				—		—		—	—
11208-047-W119.0				—		—		—	—
11208-047-W103.0	6.W.			—	B9.21	—		—	—
11208-047-W104.0				—		—		—	—
11208-047-W104.1				—		—		—	—
11208-047-14FD	RC PUMP CASE	PIPE BOLT ASSEMBLY	—	—	—	B7.60	—	—	—

VOID

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-047	1	III	R00	1½	160	0.281	SA-312 TP-304L	2485	650	2340	130	N/A





KEY PLAN
LEVEL B

LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ⌓ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. --- PIPE SUPPORT

REFERENCE DRAWINGS:

P&I.D. ———— 1X4DB114
FAB ISO. ———— 1X4-1208-047-02

PIPING LAYOUT DWG. ———— 1X4DL4007
CIVIL / STRUCTURAL ———— 1X2048F002
HANGER DETAIL DWG. ———— VI-1208-047-H025, H026, H027, H006, H004
ISI CLASSIFICATION DWG. ———— ISI-D-028

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)
3. WELD 104.1 IS 047-W-108A ON REFERENCE FAB. ISO.

REVISION	DATE	CHANGES
5	09/19/97	CHANGED PIPING CONFIGURATION AND ADDED WELDS 16A AND 14B
4	[illegible]	VOIDED WELD & EQUIPMENT TABLE. REMOVED HANGERS H003 AND H007 PER. PER-92-005
3	11-11-85	ADDED NEW WELD NUMBERS AND FLOW RESTRICTIONS.
2	3-19-85	GENERAL REVISION ADDED NEW WELD NO'S
1	12-7-84	REVISED WELD NUMBERS & ADDED CLASSIFICATION DWG.
0	9-15-83	ISSUED FOR INSPECTION

Southern Company Services, Inc.
FOR
GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 047
INSERVICE INSPECTION ISOMETRIC
CHEMICAL & VOLUME CONTROL - SYSTEM 1208

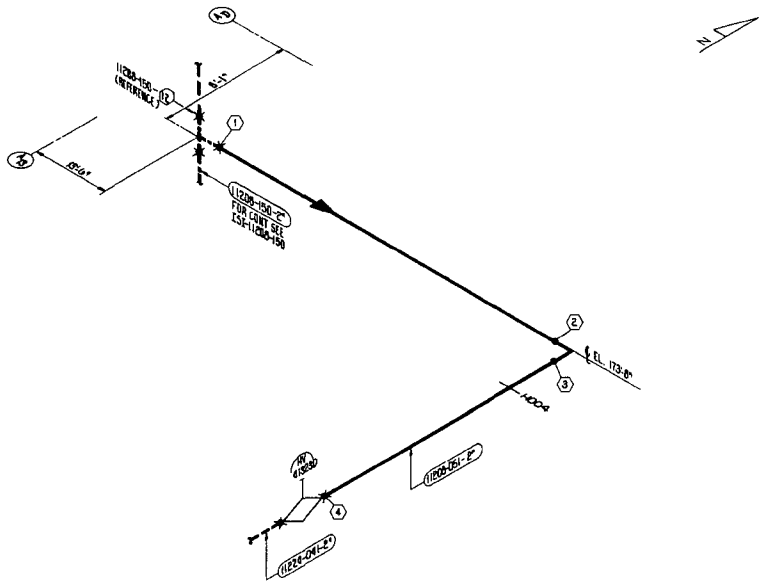
DESIGNED FF | DRAWN CBB | CHECKED NB

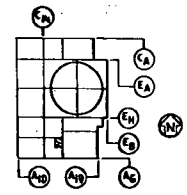
BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5
WS	DRG	GAC				
WS	WS	LH				
PP	WS	CW				
RG	WS	CW				
BGS	WS	CW				
BGS	WS	LH				

SCALE: NONE | PRODUCT I.D. | DRAWING NUMBER: ISI-11208-047 | REV: 5

ISI-11208-051

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-051-	2	212	F00	2"	K0	.344"	SA-312 TP 304	2735	250	2940	130	N/A





KEY PLAN

LEGEND:

1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ⬢ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊕ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT

REFERENCE DRAWINGS:

P&I.D ——— 1X4DB148
FAB ISO. ——— 1K3-1208-150-02
PIPING LAYOUT DWG ——— 1X4DL3F04
CIVIL / STRUCTURAL ——— AX2D088049
HANGER DET. DWG ——— VI-1208-150-H004
ISI CLASS DWG ——— ISI-D-033

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE
0	14-28-85

ISSUED FOR INSPECTION

Southern Company Services, Inc.

Georgia Power Company

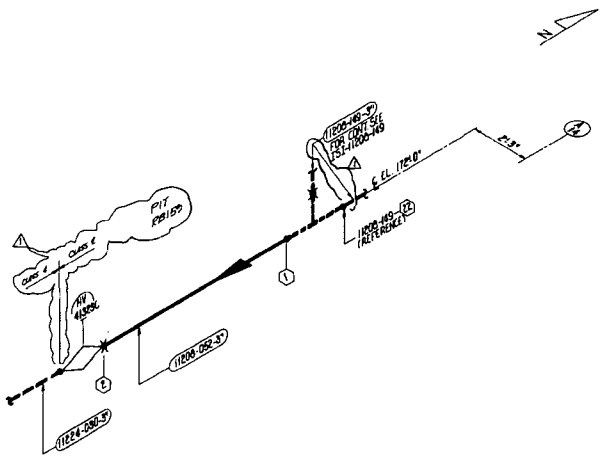
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 051
INSERVICE INSPECTION ISOMETRIC
CVCS - SYSTEM 1208

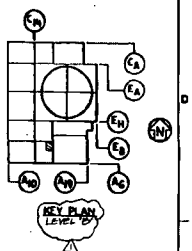
DRAWN CAD | CHKD CAD | APPR. 1 WS | APPR. 2 CAD

SCALE NONE | DRAWING NUMBER ISI-11208-051 | REV. 0

2504021-ISI

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-052	2	212	FC0	3"	160	0.438"	SA-312 TP 304	2735	250	2340	130	N/A





LEGEND:

1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT

REFERENCE DRAWINGS:

P.&I.D. ——— 1X4DB145
FAB ISO. ——— 1X3-1208-149-001M
PIPING LAYOUT DWG. ——— 1X4DL370M
CIVIL/STRUCTURAL ——— A1220B4049
F' SHEETS ——— F08004

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 1	DATE 5-28-87	REVISION 0	DATE 10-28-85
								GENERAL REVISION TO UPDATE DRAWING FOR ISI.		ISSUED FOR INSPECTION	

BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5
																					MRT	GLB	99C					CLA	WJS	CLB											

Southern Company Services, Inc.
FOR
Georgia Power Company

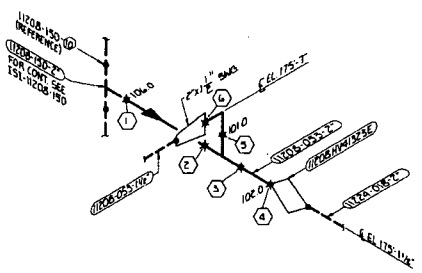
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 052
INSERVICE INSPECTION ISOMETRIC
CVCS - SYSTEM 1208

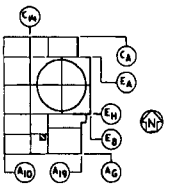
DESIGNED CND | DRAWN CSB | CHECKED #3

SCALE		PROJECT I.D.	DRAWING NUMBER	REV.
NONE			ISI-11208-052	1

ISI-1208-053

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-053	2	212	FGO	2"	160	.344	SA-312 TP304L	2735	250	2340	130	N/A





KEY PLAN
LEVEL 'B'

LEGEND:

1. ⋇ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ⬢ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ◠ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID ——— JX4DB148
FAB. ISO ——— JK5-1208-150-02
PIPING LAYOUT DWG. ——— JX4DL5F06
CIVIL/STRUCTURAL ——— AXEDOBA049
ISI CLASSIFICATION DWG. ——— ISI-D-053

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 0	DATE 10-28-85
										ISSUED FOR INSPECTION	

BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5
BKG	WS	CWD				

Southern Company Services, Inc.

Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 -LINE NO. 053
INSERVICE INSPECTION ISOMETRIC
CVCS -SYSTEM 1208

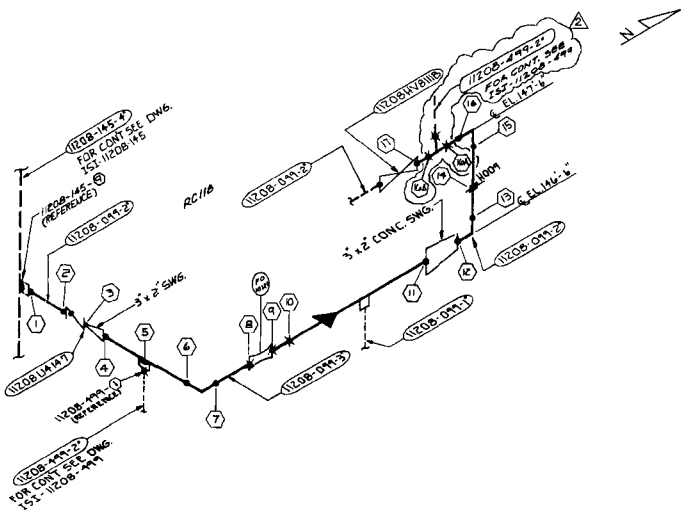
DESIGNED CWD DRAWN BKG REVIEWED WS

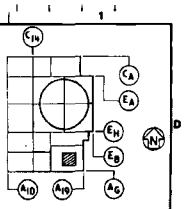
SCALE NONE

DRAWING NUMBER ISI-11208-053 REV 0

660-80211-ISI

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-099	2	212	FG0	2"	160	.344"	SA-312 TP-304L	2795	250	2350	190	N/A
11208-099	2	212	FG0	3"	160	.438"	SA-312 TP-304L	2795	250	2350	190	N/A





KEY PLAN
LEVEL "C"

LEGEND:
1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ⬢ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. ⊣⊢ PIPE RESTRAINT
7. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:
P&I.D._____IX4DB116-2
FAB ISO_____IK3-1208-099-01/13
IK3-1208-099-02/13

PIPING LAYOUT DWG._IX4DL3H05
CIVIL/STRUCTURAL_AX2008A028
HANGER DETAIL DWG._VI-1208-099-H009,

F-SHEETS_____F-849, 850, 14163

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	
2	11-20-96	TIED-IN LINE NO. 099-2" TO LINE NO. 099-3" AND ADDED WELDS NO. 16A AND 16B PER PER. 94-007.
1	5-28-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI
0	10-28-85	ISSUED FOR INSPECTION

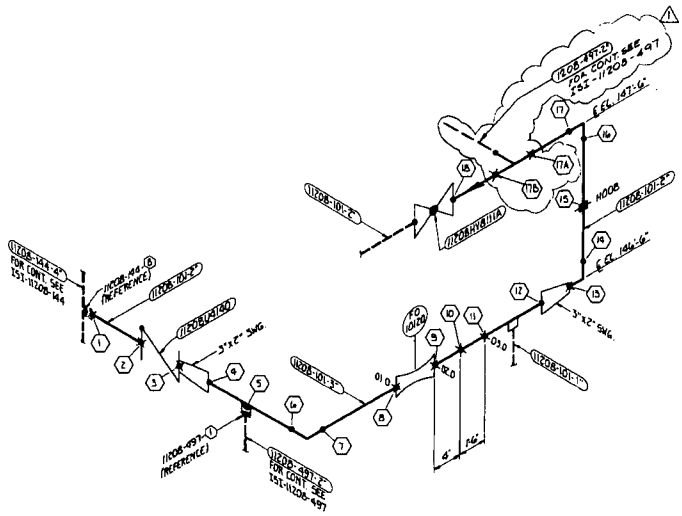
Southern Company Services, Inc.
FOR
Georgia Power Company

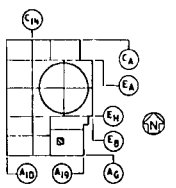
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 099
INSERVICE INSPECTION ISOMETRIC
NSCW-SYSTEM 1208

DESIGNED C.W.D. DRAWN R.M.S. REVIEWED W.S.
SCALE NONE
DRAWING NUMBER ISI-11208-099 REV 2

101-80211-ISI

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-101	2	2 2	FG0	3"	160	.438	SA-312 TP304L	2735	250	2350	130	N/A
11208-101	2	212	FG0	2"	160	.344	SA-312 TP304L	2735	250	2350	130	N/A





KEY PLAN
LEVEL E

LEGEND:
1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. PIPE SUPPORT

REFERENCE DRAWINGS:
P&ID 1145B116-2
FAB. ISO 1K5-11208-099-01, 1K5-11208-101-01
PIPING LAYOUT DWG. 1X9DL5H05
CIVIL/STRUCTURAL A1ZD08A028
HANGER DETAIL DWG. V1-1208-101-H008

F-SHEETS F-1347, F-1348, F-14164

ISI CLASSIFICATION DWG. ISI-D-051

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.D.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 1	DATE 11-20-96	REVISION 0	DATE 10-28-85
								TIE-IN LINE NO. 497-2" TO LINE NO. 101-2". ADDED WELDS NO. 17A AND 17B PER PCA 94-001		ISSUED FOR INSPECTION	

BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5
																												WJS	DRL	DRG						BKG	WJS	CWD					

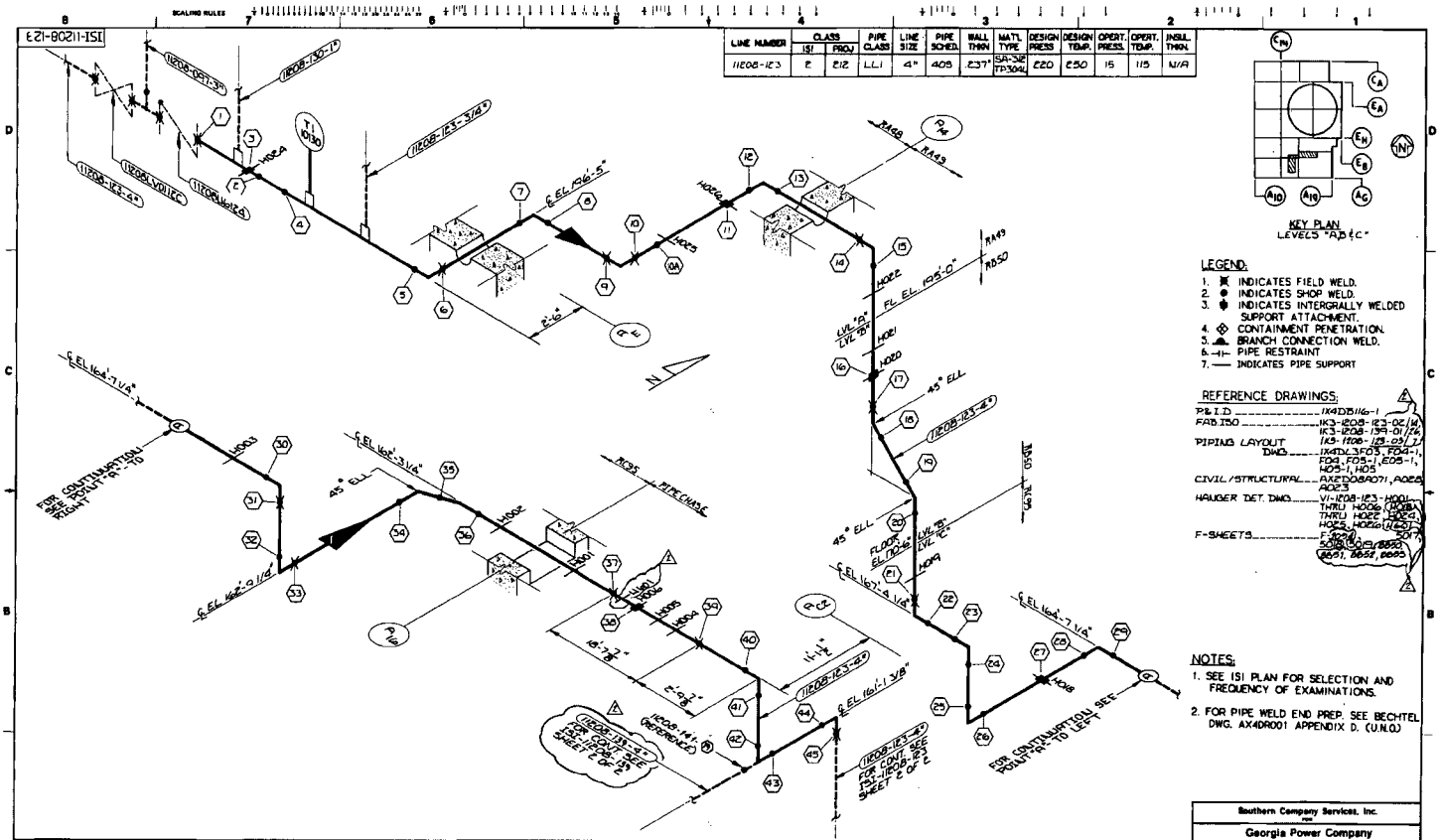
Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 101
INSERVICE INSPECTION ISOMETRIC
CVCS - SYSTEM 1208

DESIGNED CWD DRAWN BKG REVIEWED WJS

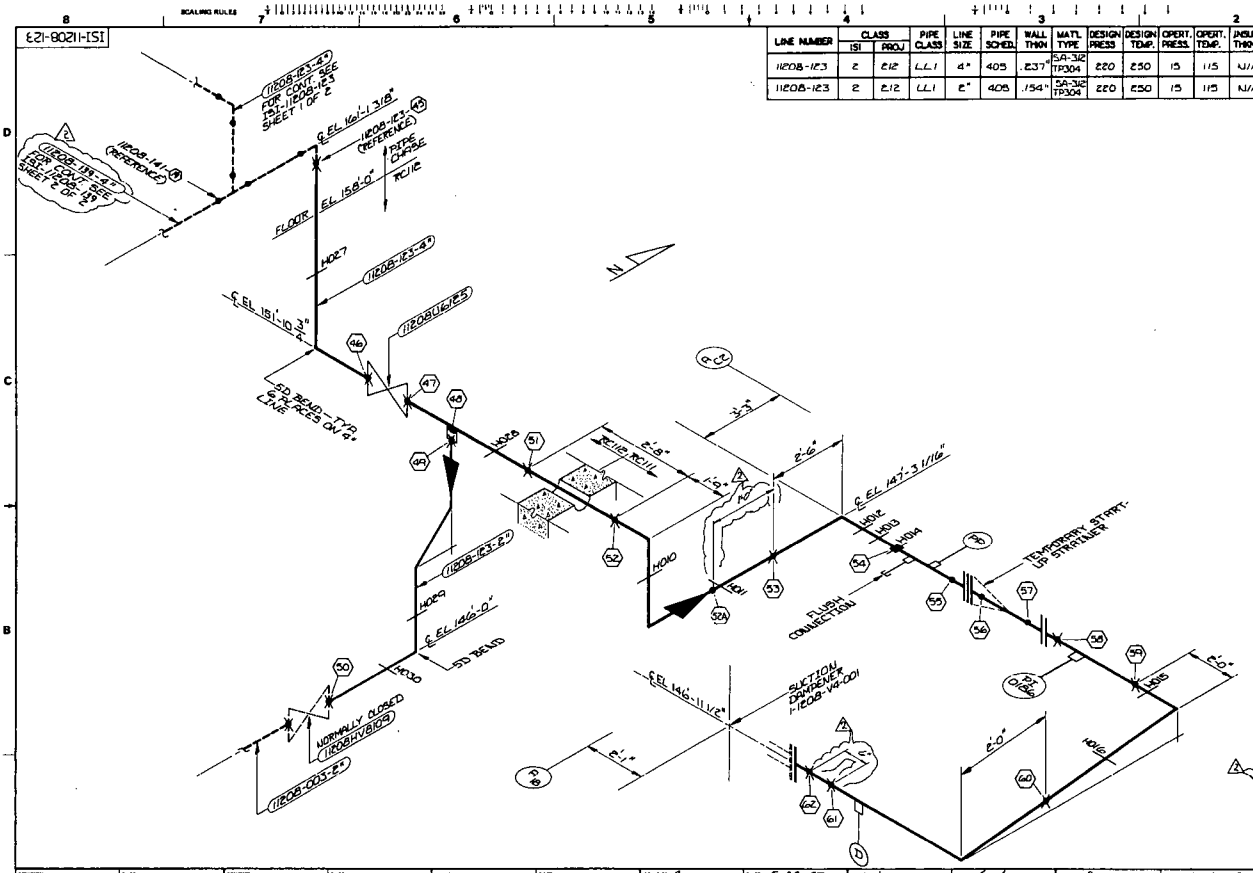
SCALE	PROJECT ID	DRAWING NUMBER	REV
NONE		ISI-11208-101	1

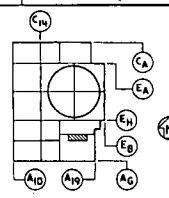
LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1120B-123	2	2/2	LL1	4"	40S	.237"	SA-312 TP304L	620	650	15	115	N/A



ISI-11208-123

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-123	2	E12	LL1	4"	40S	.237"	SA-312 TP304	220	250	15	115	N/A
11208-123	2	E12	LL1	2"	40S	.154"	SA-312 TP304	220	250	15	115	N/A





KEY PLAN
LEVEL "C"

LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ⬮ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ◇ CONTAINMENT PENETRATION.
5. ⬬ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P&I D. IX4DB116-1
FAB ISO IK3-1208-123-01/03
PIPING LAYOUT DWG IX4DL3H05
CIVIL/STRUCTURAL AX2D05A002B
HANGER DET. DWG ..... VI-1208-123-H010 THRU H016, H027 THRU H030
F-SHEETS F-2094, 2096, 2709

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)
3. WELD 52A WAS LOCATED DURING FIELD WALKDOWN

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 5-28-87	REVISION 1	DATE 6/1/-2	REVISION 0	DATE 10-28-7
						GENERAL REVISION TO UPDATE DRAWINGS FOR ISI.		ADDED WELD 52A		ISSUED FOR INSPECTION	
BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5					
						MM	GLB	99C	BKG	BST	CLQ	BST	WJS	C.-0

Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 123
INSERVICE INSPECTION ISOMETRIC
CVCS - SYSTEM 1208

DESIGNED CWD DRAWN BST CHECKED WS
SCALE NONE SHEET 2 OF 2 PROJECT: B DRAWING NUMBER ISI-11208-123 REV. 2

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP	PART EXAMINED (SEE NOTE NO 1)		EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	MT4
11208LV0159	CHECK VALVE	INTERNAL COMP.		—	—	—	—	C7.40 C7.41	—	—
11208LV0162	CONTROL VALVE			—	—	—	—		—	—
11208LV0116				—	—	—	—	↓	—	—
VI-1208-137-H602	FOR CONT. SEE DWG	LINEAR SUPPORT		INF-1300-1	—	—	—	—	C5.20	—
1208-137-H006		LINEAR SUPPORT		INF-1300-1	—	—	—	—	C5.20	—
H008	STRUCT. ATTACHMT.				—	—	—	—		—
H012					—	—	—	—		—
H016					—	—	—	—	↓	—
1208-137-W02.0	BW	CIRC. WELD		INC-2580-7	—	C5.11	—	C7.20 A.7.21	—	—
W03.0					—		—		—	—
W04.0					—		—		—	—
W04.1					—		—		—	—
W04.2					—		—		—	—
W03.6					—		—		—	—
W03.1					—		—		—	—
W03.2					—		—		—	—
W03.3					—		—		—	—
W03.5	BW	CIRC. WELD		INC-2500-7	—	C5.11	—	C7.20 A.7.21	—	—
W03.4	FILLET	DIST. WELD ATTACHMT.		INC-2520-6	—	C5.40	—	—	—	—
W04.0	BW	CIRC. WELD		INC-2500-7	—	C5.11	—	C7.20 A.7.21	—	—
W06.1					—		—		—	—
W06.2					—		—		—	—
W07.0					—		—		—	—
W07.1					—		—		—	—
W07.2					—		—		—	—
W07.3	FILLET	DIST. WELD ATTACHMT.		INC-2520-6	—	C5.40	—	—	—	—
W08.0	BW	CIRC. WELD		INC-2500-7	—	C5.11	—	C7.20 A.7.21	—	—
W08.1					—		—		—	—
W08.2					—		—		—	—
W08.3					—		—		—	—
W08.4					—		—		—	—
W08.5					—		—		—	—
W09.3					—		—		—	—

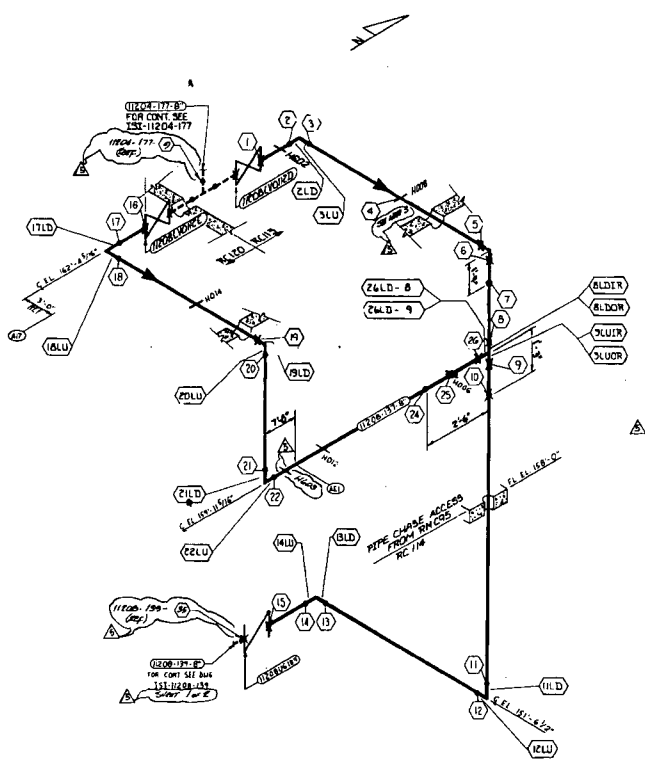
LINE NUMBER	CLASS PROJ.	CLASS ISI	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP	OPERT PRESS	OPERT TEMP	INSUL. THKN.
11208-137	212	2	LL1	8"	40S	.322"	SS-317 TP-304	220	250	15	115	N/A

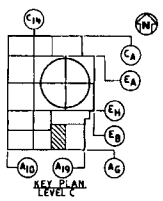
LEGEND:
1. ⊠ INDICATES FIELD WELD.
2. ● INDICATES INTEGRALLY WELDED SUPPOPT ATTACHMENT.
3. ● INDICATES SHOP WELD
4. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P & ID ____ 1X4DB116-2
FAB ISO. ____ 1K3-1208-137-01/19
PIPING LAYOUT DWG ____ 1X4DL3H05 & H05-01
CIVIL /STRUCTURAL ____ AX2D08A028
HANGER DETAIL DWG ____ VI-1208-137-H006, H602 H008, H012, H014, H016
F-SHEETS ____ F-842 THRU F-845 & F-4051

NOTES:
1. FOR PIPE WELD END PREP SEE ROOTER DWG. A14DR001 APPENDIX "D" (UNO)
2. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
3. WELD NO 4 IS AN LOWER AN INTEGRALLY WELDED ATTACHMENT.





REVISION	DATE	DESCRIPTION
5	5-28-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI.
4	10-6-86	ADDED LONG SEAM WELD NO. REVISED ROOM NO REVISED P&ID REVISED VALVE NO.
3	11-15-85	ADDED NEW HANGER H602
2	4-3-85	ADDED NEW WELD NUMBERS CORRECTED VALVE NUMBER H012 IS NO LONGER INTEG. WELDED REVISED LEGEND AND NOTES REMOVED WELD 05.4 ADDED ROOM NUMBERS REMOVED INSULATION
1		ADDED WELD NO. 04.9 & CLASSIFICATION DWG.
0	3-5-84	ISSUED FOR INSPECTION

Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 137
INSERVICE INSPECTION ISOMETRIC
CHEMICAL & VOLUME CONTROL-
SYSTEM 1208

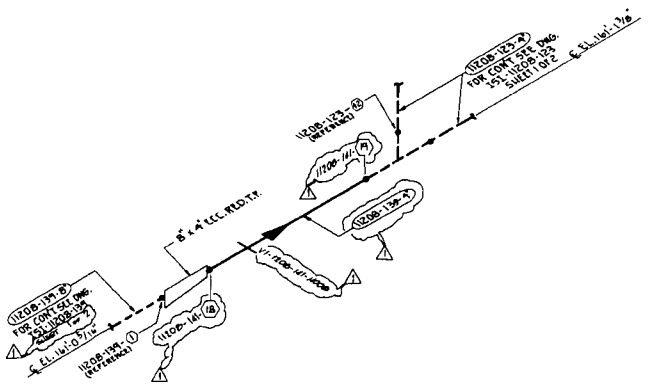
DESIGNED FT DRAWN DRC CHECKED WS

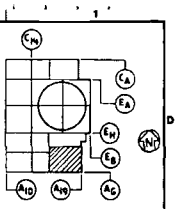
SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-1208-137 | REV 5

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11208HB4718	CONC. PAINT	PRESSURE BEL. CONTR.	—	—	—	—	C7.20 C7.21	—	—

6EI-80211-ISI

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	PREHEAT THKN.
11208-139	2	212	LL1	4"	40S	.237	SA-312 TP 304L	220	250	15	115	N/A





KEY PLAN
LEVEL "C"

LEGEND:
1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:
P&I.D. — IX4DB116-1 & 2
FAB ISO. — IK3-1208-139-01
PIPING LAYOUT DWG. — IX4DL3H05-1
CIVIL/STRUCTURAL — AX2D08A028
HANGER DET. DWG. — VT-1208-141-H008
F-SHEETS — F-693

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
								1	5-28-87	0	10-28-85
								GENERAL REVISION TO UPDATE DRAWING FROM ISO CHANGED LINE NUMBER FROM 141 TO 139		ISSUED FOR INSPECTION	

Southern Company Services, Inc.
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO (139)
INSERVICE INSPECTION ISOMETRIC
CHEMICAL & VOLUME CONTROL
SYSTEM 1208

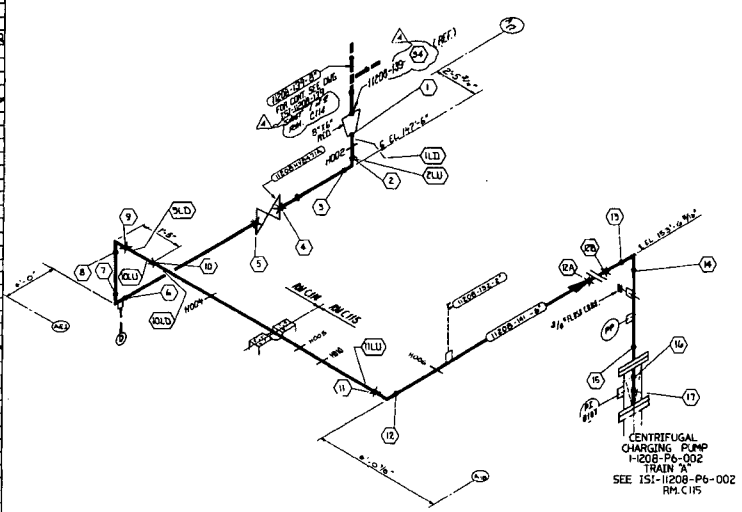
DESIGNED C.W.D. DRAWN R.M.S. CHECKED W.S.

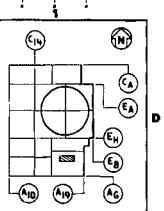
BY	DATE	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	APPR 6	APPR 7	APPR 8	APPR 9	APPR 10	APPR 11	APPR 12	APPR 13	APPR 14	APPR 15	APPR 16	APPR 17	APPR 18	APPR 19	APPR 20	APPR 21	APPR 22	APPR 23	APPR 24	APPR 25	APPR 26	APPR 27	APPR 28	APPR 29	APPR 30	APPR 31	APPR 32	APPR 33	APPR 34	APPR 35	APPR 36	APPR 37	APPR 38	APPR 39	APPR 40
ABW	RLB	99C																																							
BY	DATE	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	APPR 6	APPR 7	APPR 8	APPR 9	APPR 10	APPR 11	APPR 12	APPR 13	APPR 14	APPR 15	APPR 16	APPR 17	APPR 18	APPR 19	APPR 20	APPR 21	APPR 22	APPR 23	APPR 24	APPR 25	APPR 26	APPR 27	APPR 28	APPR 29	APPR 30	APPR 31	APPR 32	APPR 33	APPR 34	APPR 35	APPR 36	APPR 37	APPR 38	APPR 39	APPR 40
RMS		WJS	CWD																																						

SCALE NONE | 2 OF 2 | PROJECT I.D. | DRAWING NUMBER ISI-11208-139 | REV. 1

COMPONENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO.1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11208HV8471A	CONTROL V	PRESSURE RET. CONTR	—	—	—	—	C2.40 C2.41	—	—
VI-1208-141-H002	3-DIA RESTRAINT	WINGAR SUPPORT	IMF-1300-1	—	—	—	—	F2.20 F2.30	—
H004				—	—	—	—	—	—
H005				—	—	—	—	—	—
H006	RIGID STRUT	COMPONENT SUPPORT		—	—	—	—	F1.10 F1.20	—
H010	MECHANICAL SNUBBER	COMPONENT SUPPORT	IMF-1300-1	—	—	—	—	F1.20 F1.30 F1.40	F3.50
11208-141-W002	18 IN.	CIRC WELD	IMC-2500-1	—	C3.11	—	C3.40 C3.41	—	—
W003.4				—		—		—	—
W004.4				—		—		—	—
W01.0				—		—		—	—
W02.0				—		—		—	—
W02.1				—		—		—	—
W02.2				—		—		—	—
W02.3				—		—		—	—
W03.0				—		—		—	—
W03.1				—		—		—	—
W04.0				—		—		—	—
W04.1				—		—		—	—
W04.2				—		—		—	—
W04.3				—		—		—	—
W04.4				—		—		—	—
W04.5				—		—		—	—
W04.6				—		—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-141	2	CIE	LL1	6"	40S	.280	SA-312 TP.304	220	650	15	115	N/A



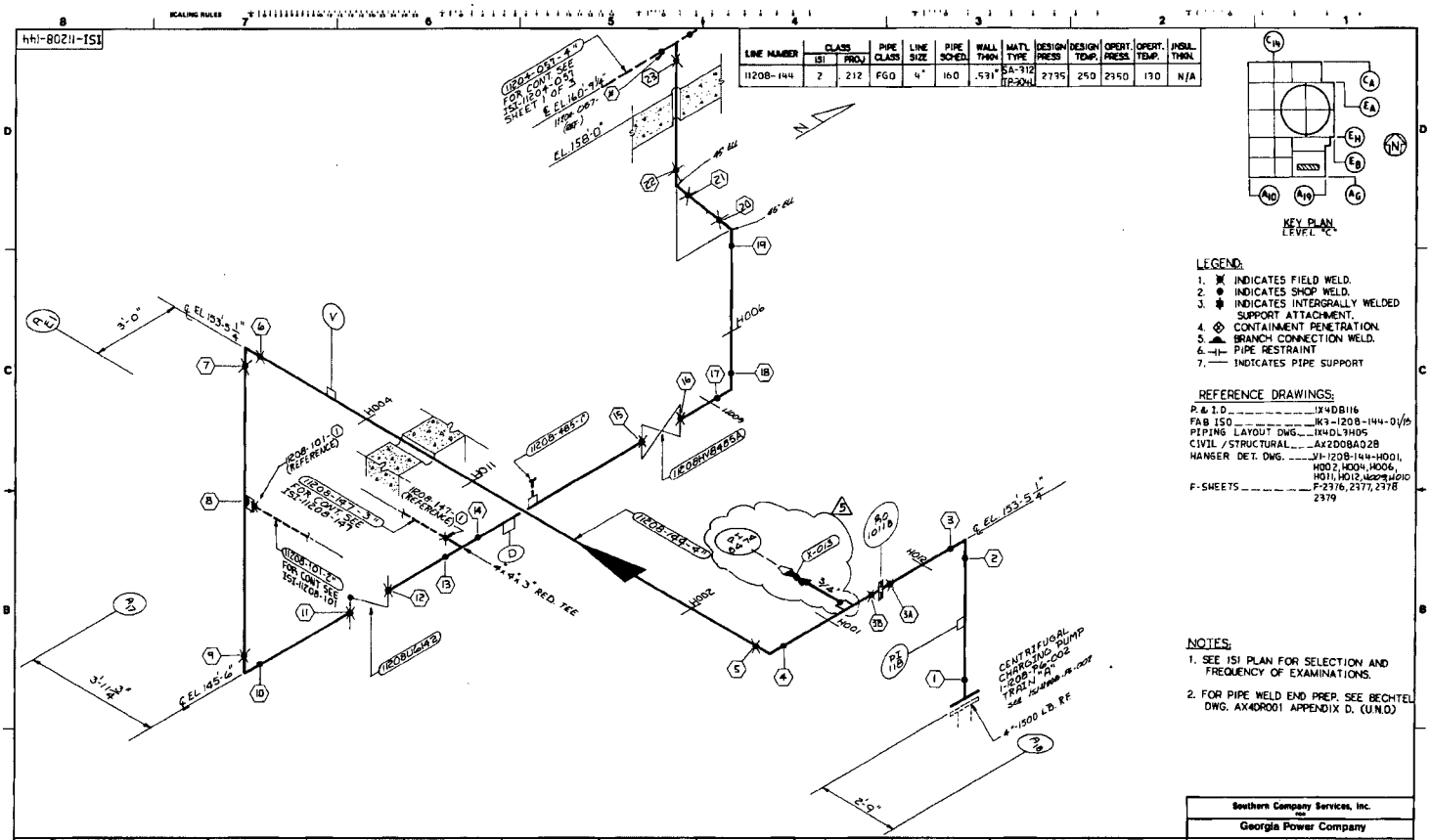


LEGEND:
1. ⊠ INDICATES FIELD WELD.
2. ⊕ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
3. ● INDICATES SHOP WELD.
4. — INDICATES PIPE HANGER

REFERENCE DRAWINGS:
P & ID. — — —

ISI-11208-144

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-144	2	212	FG0	4"	160	.531"	SA-312 TP-304L	2735	250	2350	130	N/A



REVISION 5	REVISION 4	REVISION 3	REVISION 2	REVISION 1	REVISION 0
DATE 6-7-1999	DATE 12-2-92	DATE 5/22/91	DATE 5-28-87	DATE 6-16-86	DATE 10-29-85
ADDED PI-6474 PER DCP 98-VIN0019.	ADDED RESTRICTING ORIFICE 10118 PER DCP 91-VIN0215-0-1	DELETED HANGER H010 PER PCR. 91-006	GENERAL REVISION TO UPDATE DRAWING FOR ISI.	ADDED WELD 3A & 3B	ISSUED FOR INSPECTION
BY WS	BY WS	BY WS	BY RMS	BY BRB	BY RMS
CHK'D WS	CHK'D CWD	CHK'D WLW	CHK'D GLB	CHK'D BST	CHK'D WS
APPR. 1 WS	APPR. 1 DJE	APPR. 1	APPR. 1 GRC	APPR. 1 CWD	APPR. 1

Southern Company Services, Inc.
FOR
Georgia Power Company

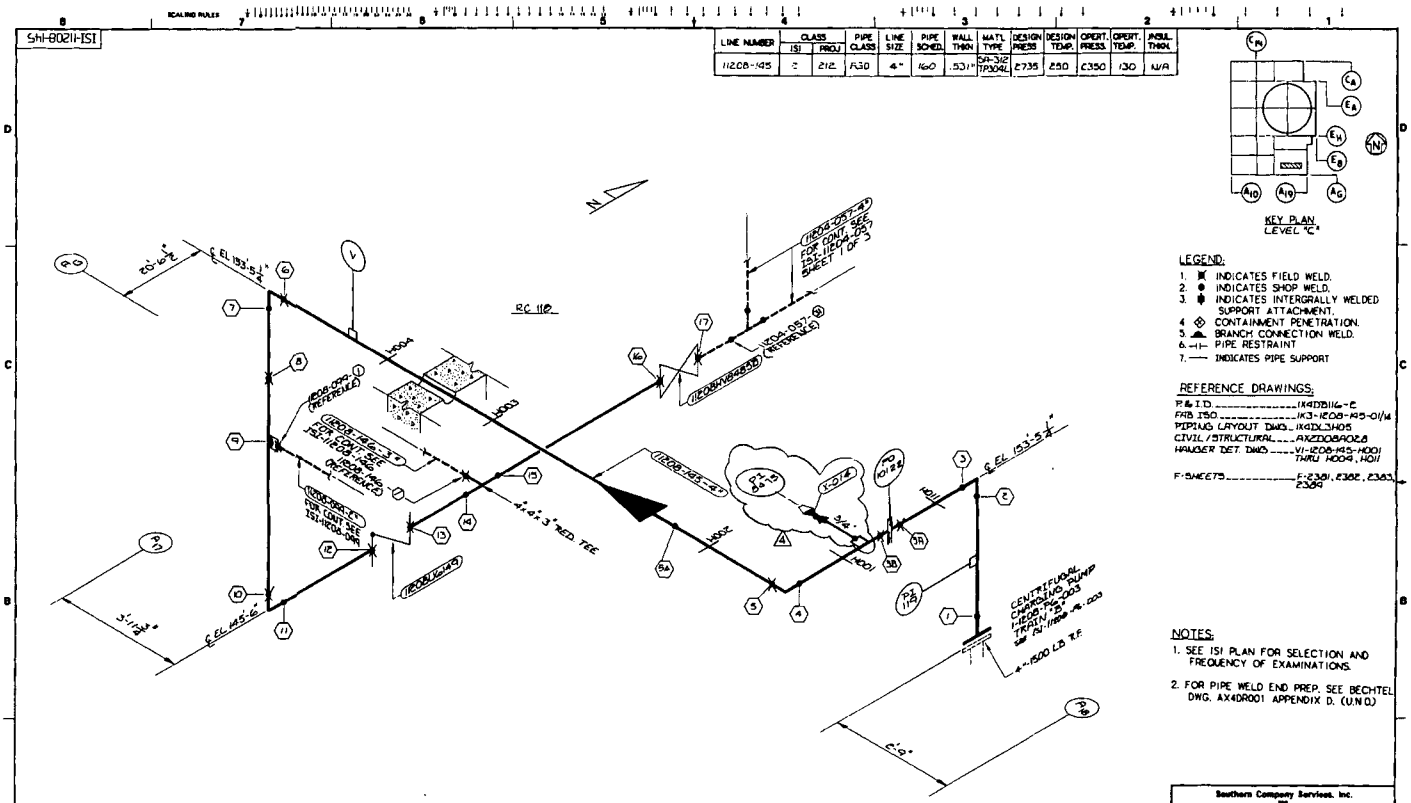
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO 144
INSERVICE INSPECTION ISOMETRIC
CHEMICAL & VOLUME CONTROL
SYSTEM 1208

DESIGNED CWD DRAWN RMS CHECKED WS

SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-11208-144 | REV 5

SHI-8021H-ISI

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1208-145	2	212	R30	4"	160	.531"	SA-312 TP304L	2735	550	2350	130	N/A



KEY PLAN
LEVEL "C"

LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. ⊣⊢ PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P.&I.D. ——— 1X4DB116-E
FAB. ISO ——— 1X3-1208-H5-01/14
PIPING LAYOUT DWG. ——— 1X4DL3405
CIVIL/STRUCTURAL ——— AX2DQ8A02.8
HANGER DET. DWG ——— VI-1208-H5-H001 THRU H009, H011
F-SHEETS ——— F-2381, 2382, 2383, 2389

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
		4	6-7-1999	3	12-21-1993	2	5-28-87	1	6-10-86
		ADDED PI-8675 PER DCP 98-VIN0019		ADDED FO 10122 PER DCP 93-VIN0066		Changed Material To Inconel Cladding FOR ISI; 100 WELD LB 5A		ADDED WELDS 3A & 3B	
BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE
		WJS	6/7	WJS	12/21	MRJ	5/28	BWG	6/10
APPR. 1	APPR. 2	APPR. 1	APPR. 2	APPR. 1	APPR. 2	RLB	5/28	BST	6/10
		AMM				JJC		C-W	

REVISION	DATE
0	10-24-85
ISSUED FOR INSPECTION	
BY	DATE
BST	10/24
APPR. 1	APPR. 2
AWS	C-W

Southern Company Services, Inc.
for
Georgia Power Company

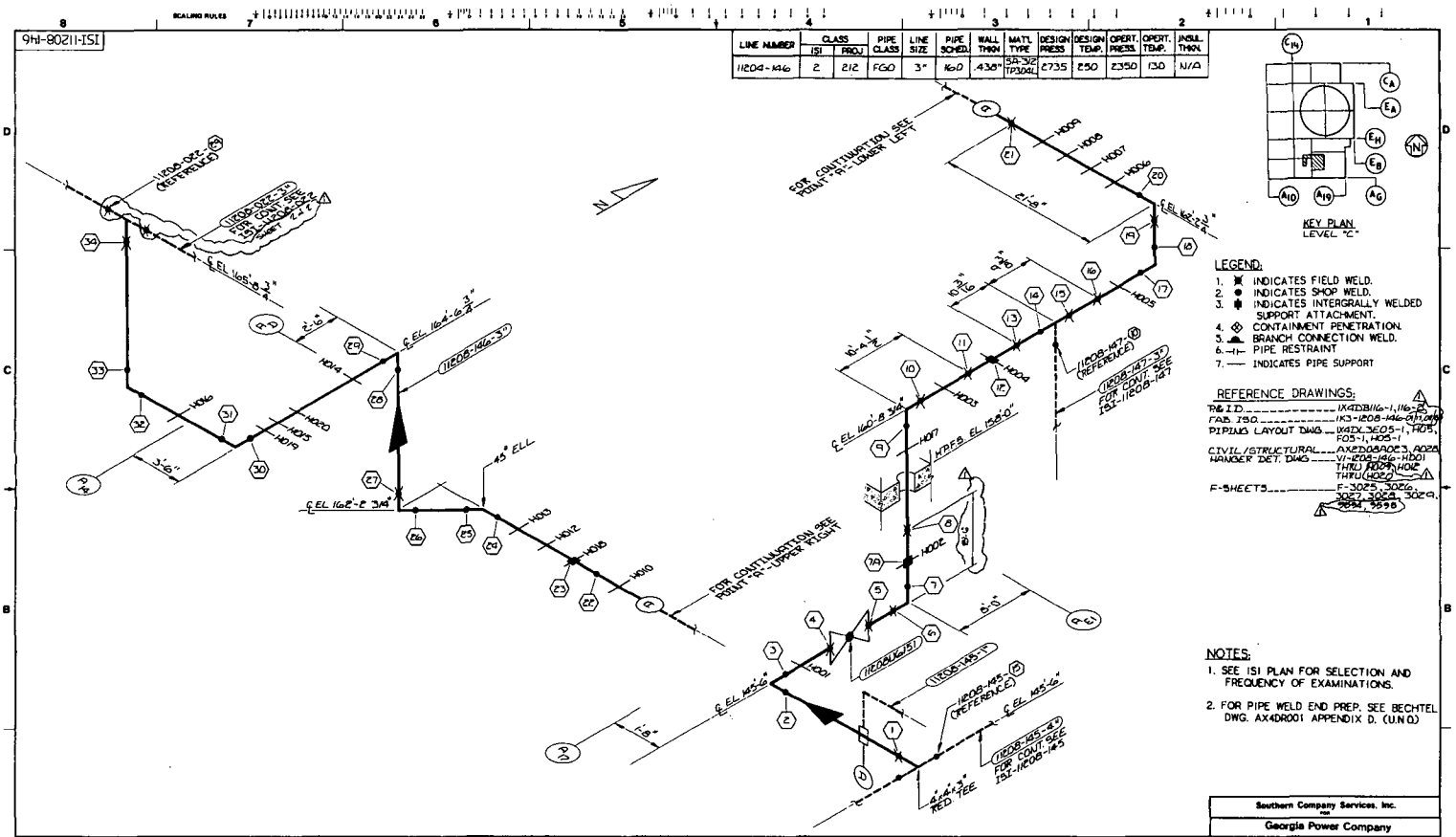
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. H5
INSERVICE INSPECTION ISOMETRIC
CHEMICAL & VOLUME CONTROL
SYSTEM 1208

DRAWN CWD | CHECKED BST | DESIGNED WS

SCALE: NONE | PROJECT: 0 | DRAWING NUMBER: ISI-1208-H5 | REV: 4

ISI-11208-146

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11204-146	2	212	FG0	3"	160	.438"	SA-312 TP304L	2735	650	2350	130	N/A



LEGEND:

1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID ID ——— IX4DB116-1, 116-2
FAB. ISO ——— IK3-1208-146-01, 146
PIPING LAYOUT DWG ——— IX4DL3E05-1, H05, F05-1, H05-1
CIVIL/STRUCTURAL HANGER DET. DWG ——— AX2D0A0E3, A02A, V1-1208-146-H001 THRU H024, H026 THRU H029
F-SHEETS ——— F-3025, 3026, 3027, 3028, 3029, 9034, 9598

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	ISSUED BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5
1	5-28-87	MKI	GLB	99C				
0	10-28-85	DST	WJS	CHB				

GENERAL REVISION TO UPDATE DRAWING FOR ISI

ISSUED FOR INSPECTION

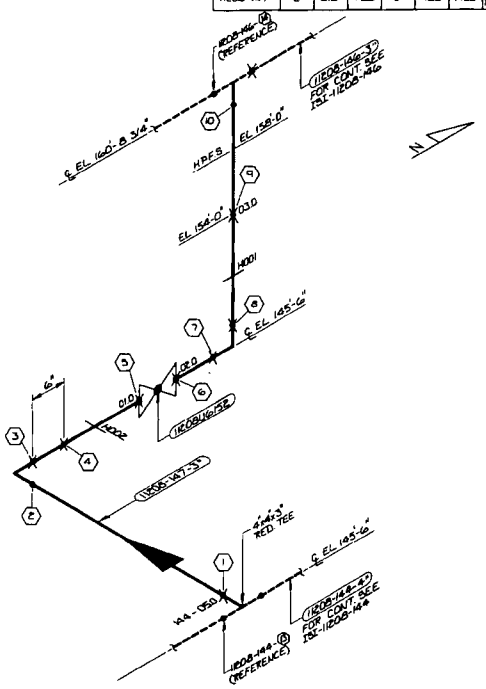
Southern Company Services, Inc.
FOR
Georgia Power Company

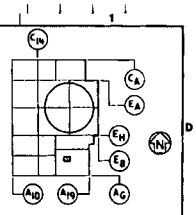
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 146
INSERVICE INSPECTION ISOMETRIC
CVCS - SYSTEM 1208

DESIGNED CWD | DRAWN BST | CHECKED WS
SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-11208-146 | REV. 1

ISI-11208-147

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-147	E	E12	FG0	3"	160	.438"	SA-312 TP304L	2735	250	2350	130	N/A





KEY PLAN
LEVEL "C"

LEGEND:
1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:
P&I D. 1X4DB116-E
FAB ISO 1K3-1208-147-01
1K3-1208-146-01
PIPING LAYOUT DWG. 1X4DL3H05, H05-1
CIVIL/STRUCTURAL AX2D08R005
HANGER DET. DWG. V1-1208-K7-H001, H002
F-SHEETS F-3379, 3028, 3030, 3031
ISI CLASS DWG. ISI-D-031

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE
0	12-28-85

ISSUED FOR INSPECTION

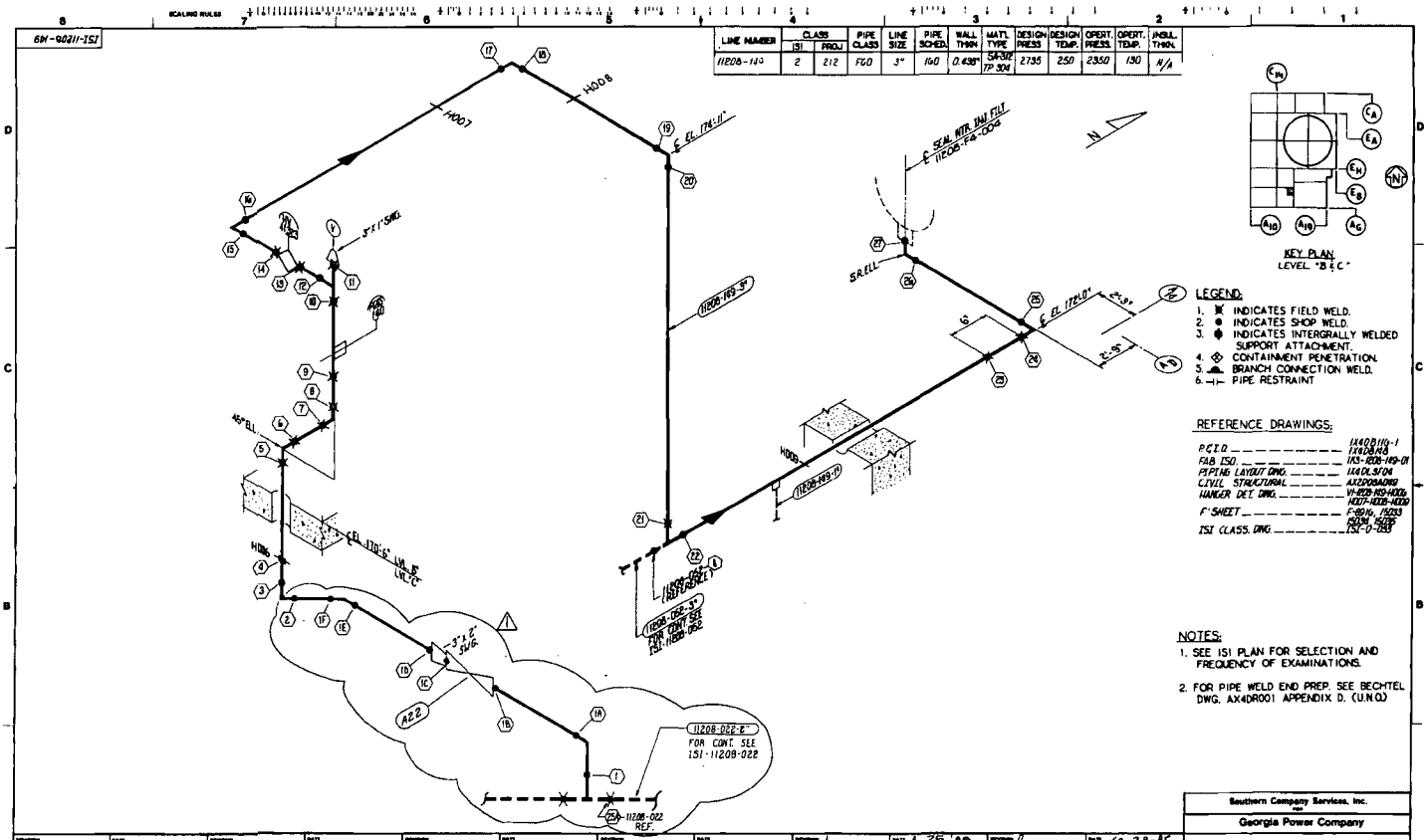
Southern Company Services, Inc.
FOR
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 147
INSERVICE INSPECTION ISOMETRIC
CVCS - SYSTEM 1208

DRAWN CWD BST CHECKED WS
BST WJS CWB
SCALE NONE
DRAWING NUMBER ISI-11208-147 REV. 0

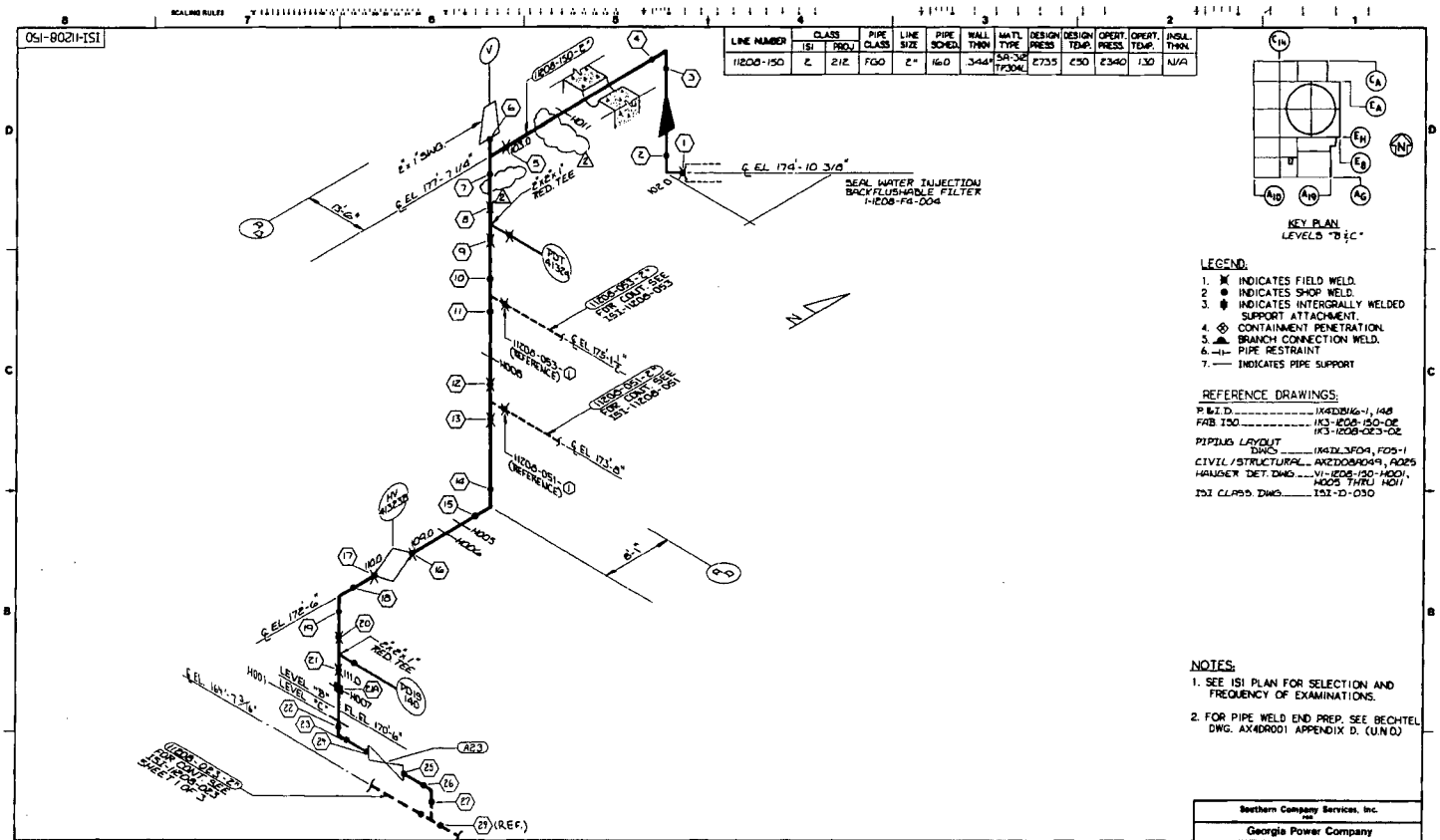
6W-92211-ISI

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-149	2	212	FG0	3"	160	0.438"	SA-312 TP 304	2735	250	2350	150	N/A



ISI-1208-150

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1208-150	2	212	FQ0	2"	160	.344"	SA-312 TP304L	2735	650	2340	130	N/A



LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P&I.D. 1X4DB116-1, 148
FAB ISO 1X3-1208-150-OE, 1X3-1208-023-02
PIPING LAYOUT DWG 1X4DL-3F04, F05-1
CIVIL/STRUCTURAL AX2D08A049, A025
HANGER DET. DWG ..... V1-1208-130-H001, H005 THRU H011
ISI CLASS. DWG ISI-D-030

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 11-20-96	REVISION 1	DATE 6-29-89	REVISION 0	DATE 10-28-85
						DELETED SUPPORTS H008 AND H010 PER PCN 84-004		ADDED WELDS 23 24 25 26 & 27 PER DCP 87V1N0386		ISSUED FOR INSPECTION	

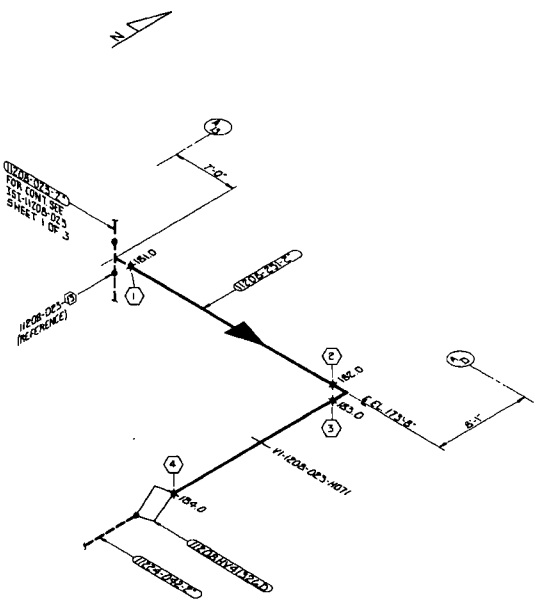
Southern Company Services, Inc.
FOR
Georgia Power Company

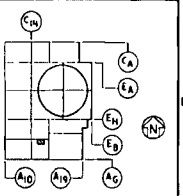
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 150
INSERVICE INSPECTION ISOMETRIC
CVCS - SYSTEM 1208

DESIGNED CWD | DRAWN BST | CHECKED WS
SCALE NONE | PROJECT 1 2 | DRAWING NUMBER ISI-1208-150 | REV 2

ISI-1208-251

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1208-251	2	212	FGD	2"	160	.344	SA-312 TP304L	2735	250	2340	150	N/A





KEY PLAN
LEVEL B

LEGEND:

1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID _____ JX4DB148
FAB. ISO _____ JK3-1208-025-01
PIPING LAYOUT DWG. ___ JX4DL3F04
CIVIL / STRUCTURAL ___ AX2D08A049
HANGER DETAIL DWG. ___ VI-1208-025-H071

ISI CLASSIFICATION DWG. ___ ISI-D-033

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 0	DATE 10-28-85
										ISSUED FOR INSPECTION	

BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5
BKG	WS	CWD				

Southern Company Services, Inc.

Georgia Power Company

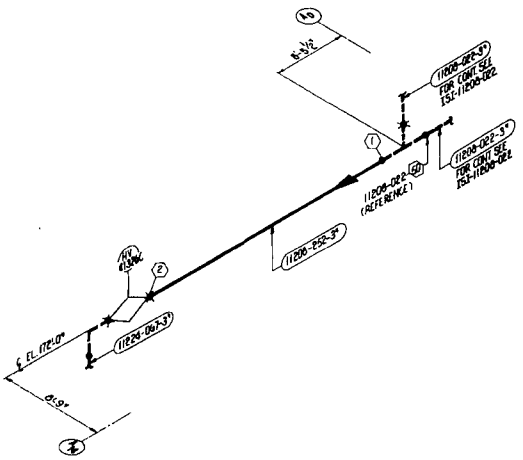
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 251
INSERVICE INSPECTION ISOMETRIC
CVCS - SYSTEM 1208

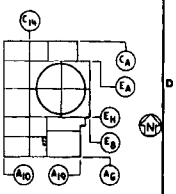
DRAWN CWD DESIGN BKG CHECKED WS

SCALE: NONE | PROJECT I.D. | DRAWING NUMBER: ISI-1208-251 | REV. 0

252-00211-1S1

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-252	2	212	F60	3"	160	0.438"	SA-312 TP-304	2735	250	2340	180	N/A





KEY PLAN
LEVEL "B"

LEGEND:
1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD.
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT

REFERENCE DRAWINGS:

P.C.I.D. _____ 1X4DB168
FAB ISO _____ 1X3-1208-DF2-03
PIPING LAYOUT DWG. _____ 1X4DL3F04
CIVIL/STRUCTURAL _____ AX2008A047
ISI CLASS. DWG _____ 1S1-0-033

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE
0	10-24-85

ISSUED FOR INSPECTION

Southern Company Services, Inc.
FOR
Georgia Power Company

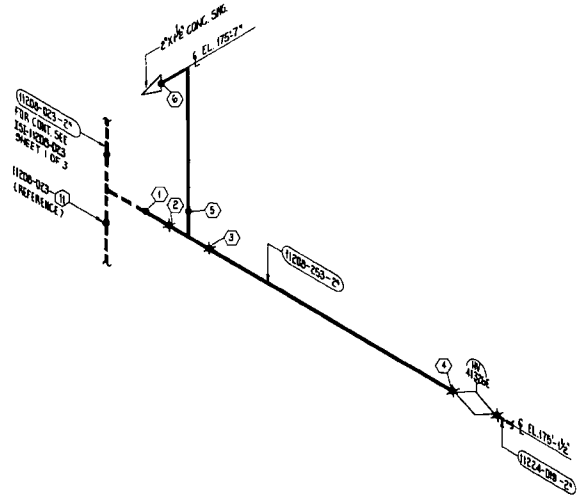
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 252
INSERVICE INSPECTION ISOMETRIC
CVCS - SYSTEM 1208

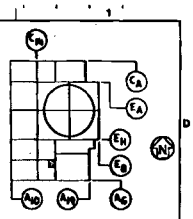
DRAWN CRB CHKD CKB DESIGNED RS

ISI-11208-252 0

GS2-02011-152

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-253	2	212	F60	2"	160	0.344"	304-312 TP304	2735	250	2340	130	N/A





KEY PLAN
LEVEL "B"

LEGEND:
1. ✕ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊕ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT

REFERENCE DRAWINGS:

P.E.I.D _____ 1X4DB148
FAB ISO. _____ 1K3-1208-023-01
PIPING LAYOUT DWG _____ 1X4PL3F06
CIVIL / STRUCTURAL _____ AXE008A049
ISI CLASS DWG _____ ISI-D-033

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE
0	10-28-85

ISSUED FOR INSPECTION

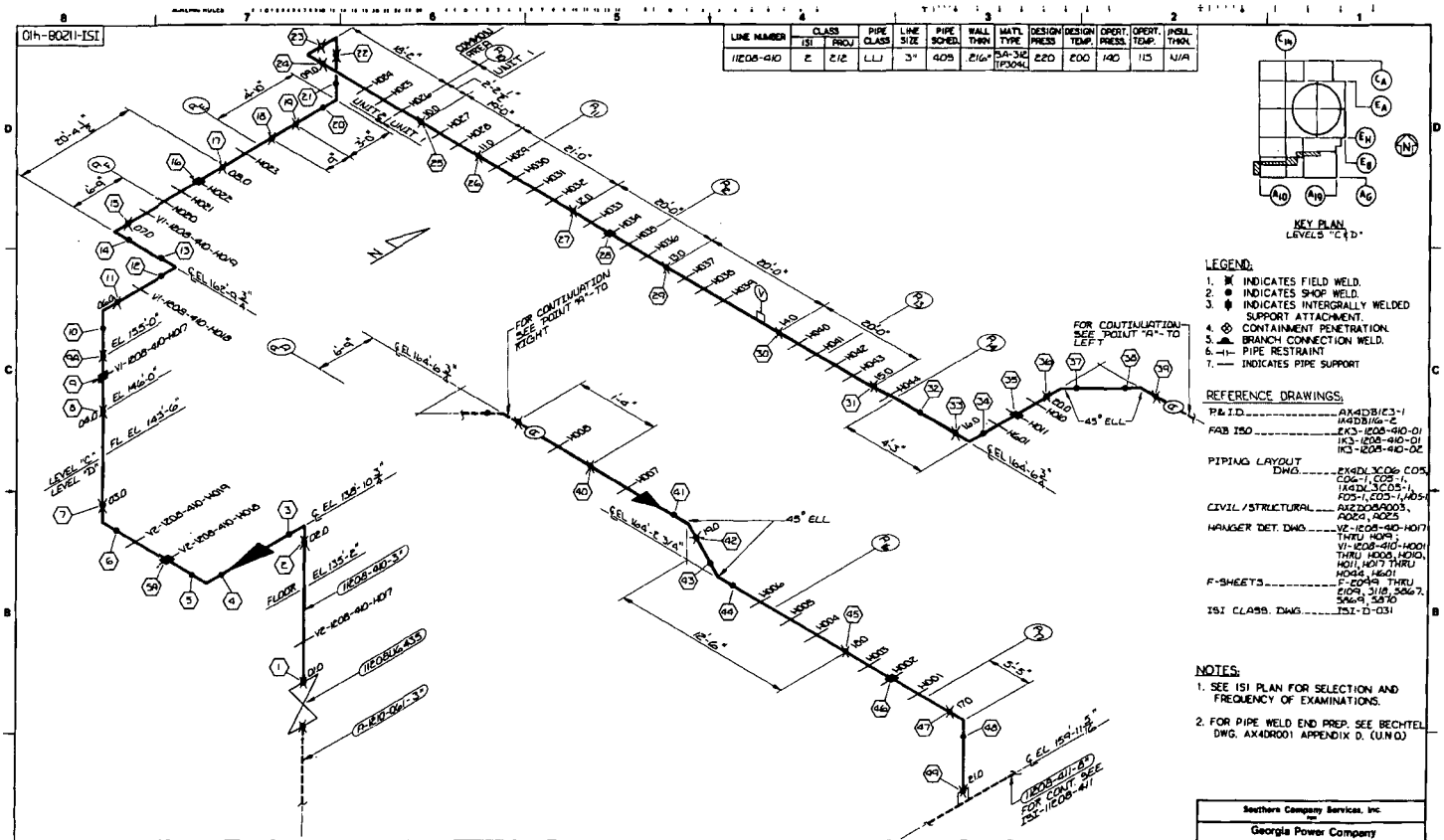
Southern Company Services, Inc.
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 -LINE NO. 253
INSERVICE INSPECTION ISOMETRIC
CVCS -SYSTEM 1208

DRAWN CAD | DRAWN CSB | CHECKED MS
SCALE: NONE | PROJECT I.D. | DRAWING NUMBER: ISI-11208-253 | REV. 0

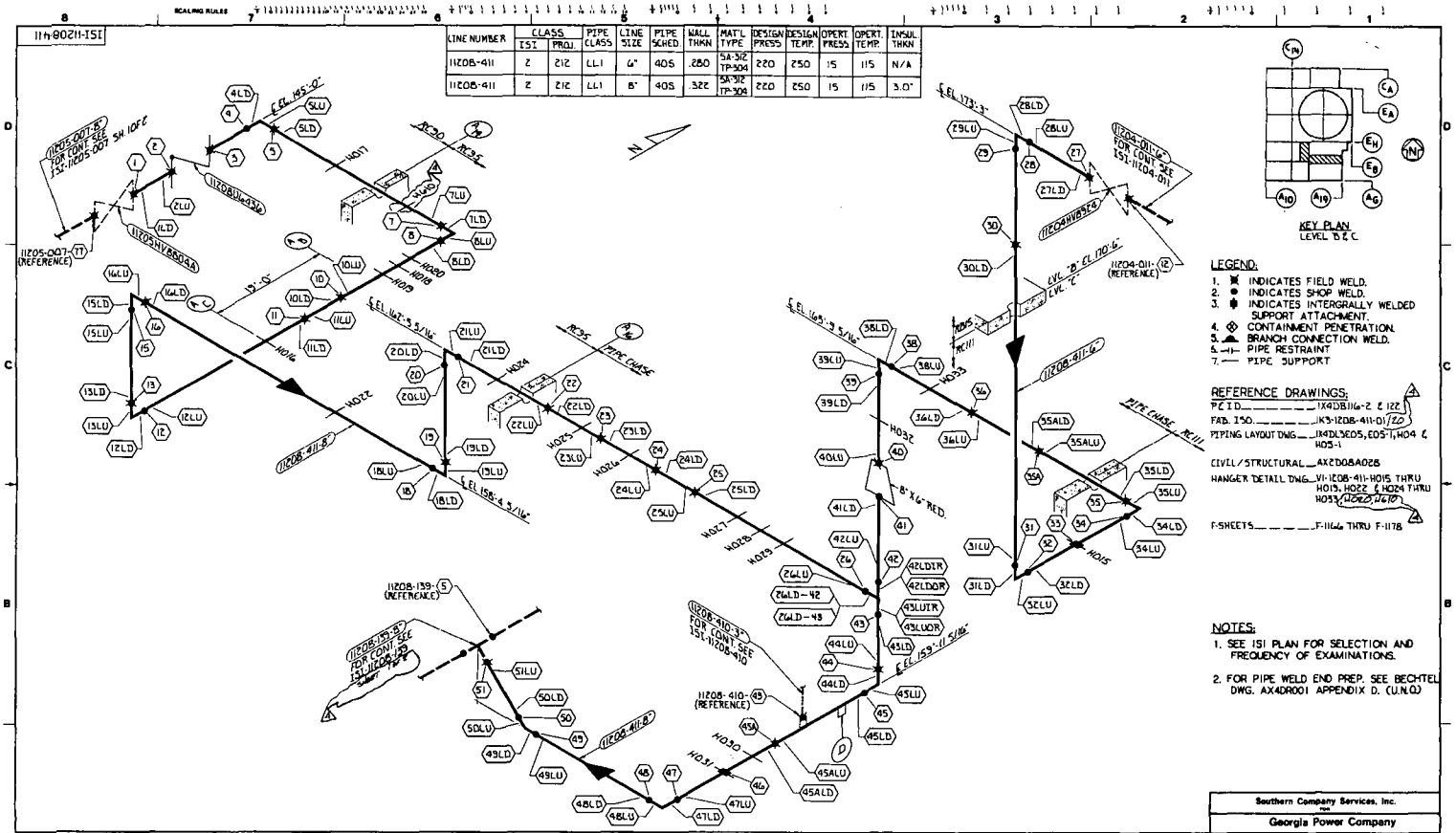
ISI-11208-410

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-410	2	212	LLJ	3"	40S	.216"	SA-312 TP304L	220	200	140	115	N/A



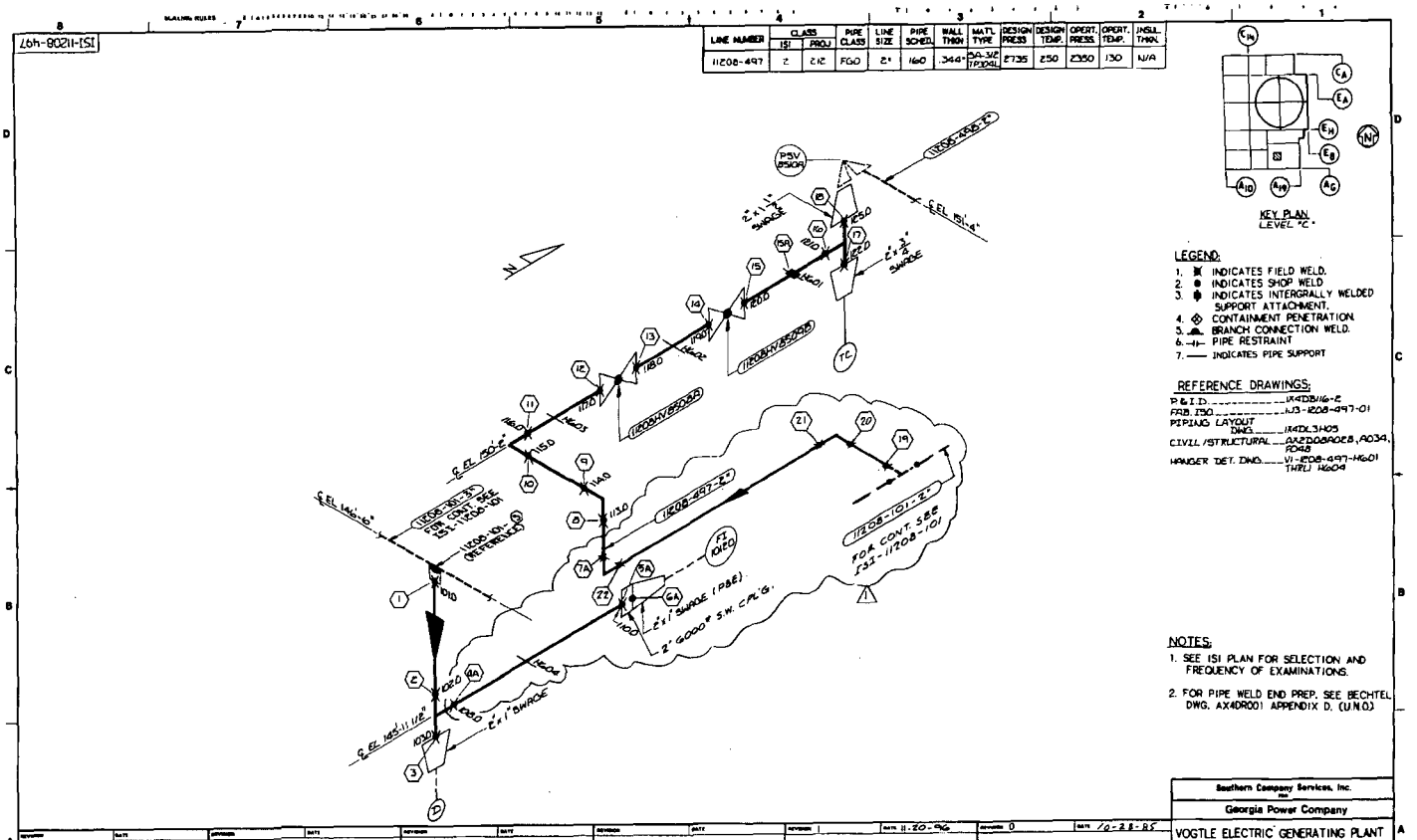
ISI-1120B-411

LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS	OPERT. TEMP.	INSUL. THKN
1120B-411	2	2I2	LL1	6"	40S	.280	SA-312 TP-304	220	250	15	115	N/A
1120B-411	2	2I2	LL1	8"	40S	.322	SA-312 TP-304	220	250	15	115	3.0"



ISI-11208-497

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-497	2	2/2	FG0	2"	160	.344"	SA-312 TP304L	2735	250	2350	130	N/A



KEY PLAN
LEVEL "C"

LEGEND:
1. INDICATES FIELD WELD.
2. INDICATES SHOP WELD
3. INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. CONTAINMENT PENETRATION.
5. BRANCH CONNECTION WELD.
6. PIPE RESTRAINT
7. INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:
P & I.D. 1X4DB116-E
FRB. 130 ..... 1N3-1208-497-01
PIPING LAYOUT DWG. 1X4DL31N05
CIVIL/STRUCTURAL AX2D08R028, R034, R048
HANGER DET. DWG. ..... V1-1208-497-H601 THRU H604

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX40R001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
								REROUTED PIPING PER RCA NO 94-007	11-20-96	ISSUED FOR INSPECTION	10-28-85

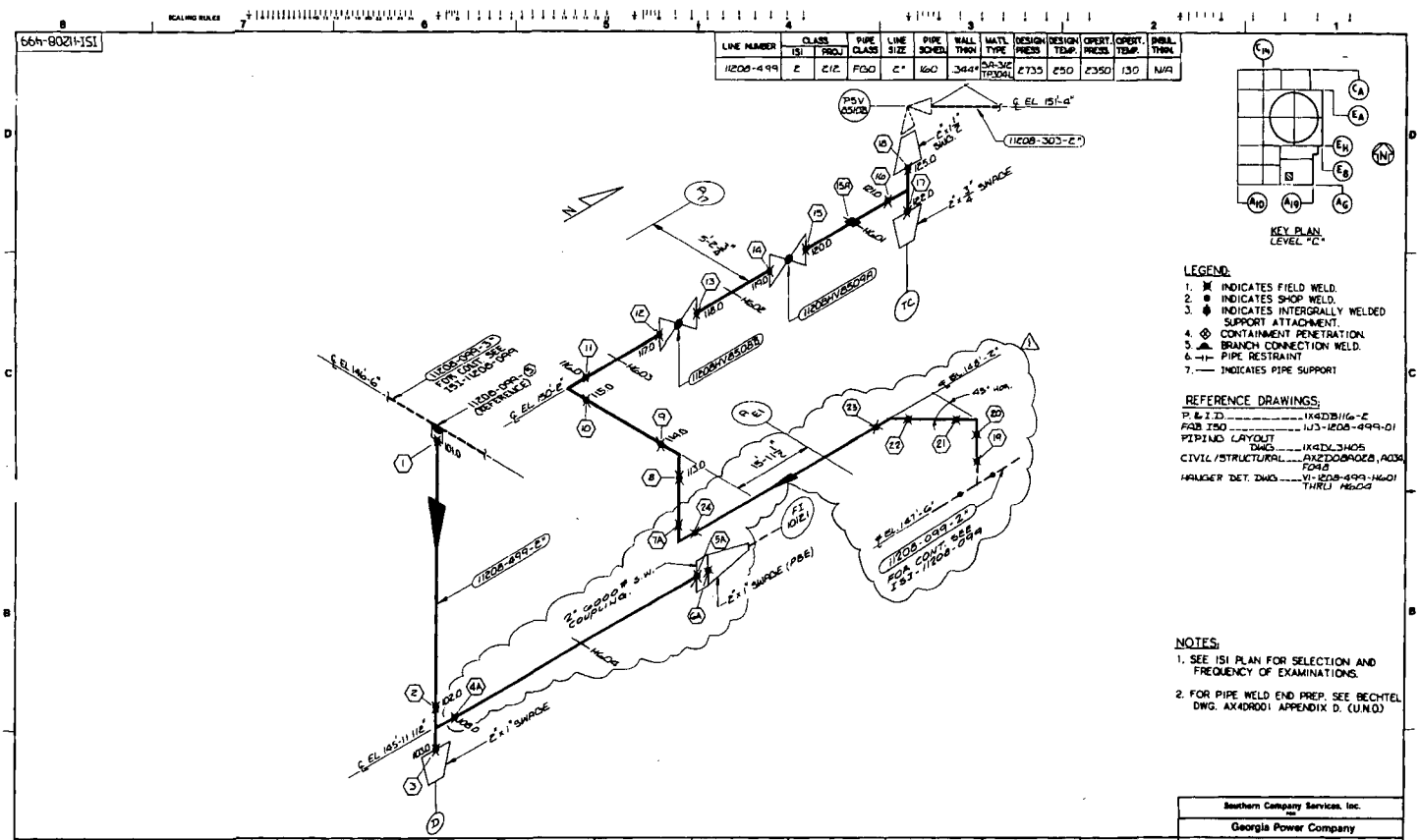
Southern Company Services, Inc.
Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 497
INSERVICE INSPECTION ISOMETRIC
CVCS - SYSTEM 1208

DRAWN CWD | DESIGN BST | CHECKED WS
SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-11208-497 | REV. 1

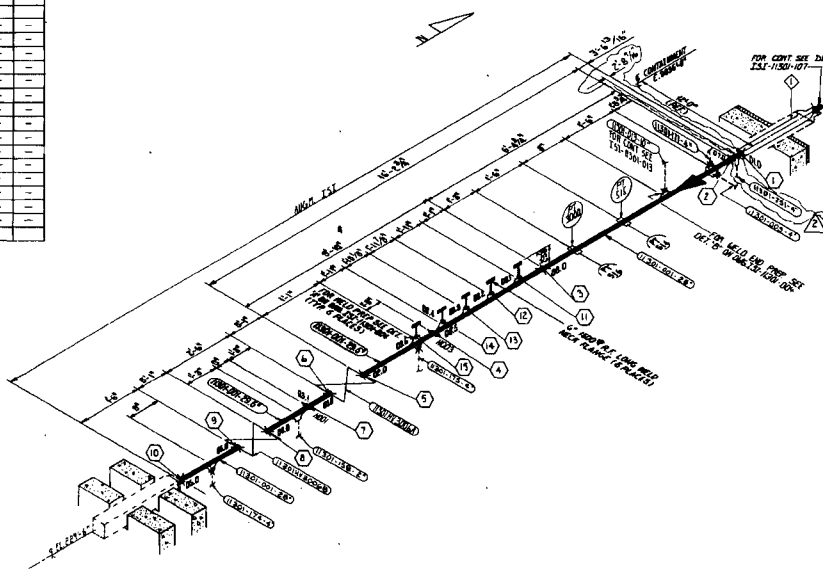
66H-80211-151

LINE NUMBER	CLASS 151	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11208-499	E	E12	F60	2"	160	.344"	SA-312 TP304L	2735	650	2350	130	N/A


PSV 85108
℄ EL 151'-9"
11208-303-2"
11208-499-2"
11208-499-2"
11208-499

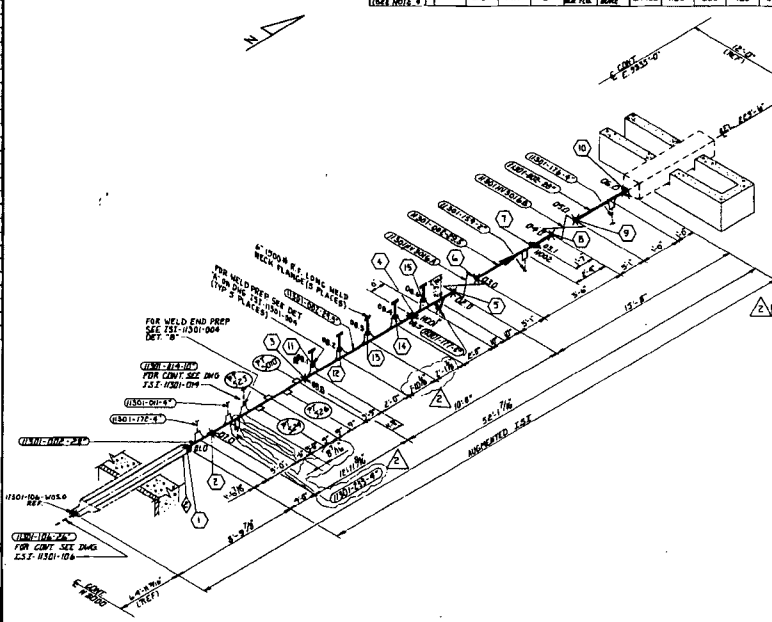
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11301W300A1	[illegible]	[illegible]	—	—	—	—	[illegible]	—	—
11301W300A8	↓	↓	—	—	—	—	↓	—	—
FF-1301-001-H001	LINE ATTACHMENT	LINE ATTACHMENT	IWF-2500-1	—	—	—	—	[illegible]	—
H003	↓	↓	↓	—	—	—	—	[illegible]	—
11301-001-[illegible]	BW	CIRC. WELD	IWC-2500-7	[illegible]	C5.21	—	[illegible]	—	—
[illegible]	↓	↓	↓	↓	↓	—	↓	—	—
[illegible]	↓	↓	↓	↓	↓	—	↓	—	—
[illegible]	FILLET WELD	[illegible]	IWC-2500-6	—	C8.40	—	—	—	—
[illegible]	B.W.	CIRC. WELD	IWC-2500-7	[illegible]	C5.21	—	[illegible]	—	—
[illegible]						—		—	—
[illegible]						—		—	—
[illegible]						—		—	—
[illegible]						↓		—	—
[illegible]					C5.21	—		—	—
[illegible]						—		—	—
[illegible]						—		—	—
[illegible]						—		—	—
[illegible]	FILLET WELD	[illegible]	IWC-2500-6	—	C8.40	—	—	—	—
[illegible]	B.W.	CIRC. WELD	IWC-2500-7	C5.21	C5.21	—	[illegible]	—	—

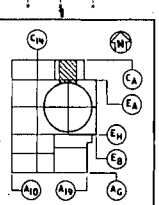
LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11301-001	2 AUGM	212	GK5	28	SPECIAL	1.875 MIN	SEE NOTE 3.	1185	600	985	545	3.0
11301-001	2 AUGM.	212	GK5	29.5	SPECIAL	2.625 MIN	SEE NOTE 3.	1185	600	985	545	3.0
11301-001 SEE NOTE 4	2	212	FK0	6"	[illegible]	[illegible]	SA-106	1185	600	985	545	3.0


KEY PLAN
LEVEL 1
FOR CONT. SEE DWG. 151-11301-107
CONTAINMENT
NORTH 151
H001
H003
H009
11301-001-[illegible]
11301-001-[illegible]
11301-001-[illegible]

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED SEE NOTE NO 0	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11301HV3046A	EXPANSION JOINT	PIPE & BELL EXPANSION JT.	—	—	—	—	C7.40 C1.40	—	—
11301HV3046B	↓	↓	—	—	—	—	↓	—	—
11-11301-002-R00	T-DOW RESTRAINT	STRUT SUPPORT	TVF-1001	—	—	—	—	PENETRA F8.40	—
1002	HOLD RESTRAINT	WELD STRUT		—	—	—	—	↓	—
11301-002-W01.0	BW	CIRC WELD	DWG-2500-7	PART C5.81	C5.21	—	C7.70 C1.21	—	—
W02.0	↓	↓	↓	↓	↓	—	↓	—	—
W03.0	PART C5.81	INT WELD ATTACHMENT	TVF-2500-5	—	C5.40	—	—	—	—
W04.0	BW	CIRC WELD	DWG-2500-7	PART C5.81	C5.21	—	C7.70 C1.21	—	—
W05.0						—		—	—
W06.0						—		—	—
W07.0						—		—	—
W08.0						—		—	—
W09.1					C5.21	—		—	—
W09.2						—		—	—
W09.3						—		—	—
W09.4	↓	↓	↓	↓	↓	—	↓	—	—
W09.5	PART C5.81	INT WELD ATTACHMENT	DWG-2500-5	—	C5.40	—	—	—	—
W09.6	BW	CIRC WELD	DWG-2500-7	C5.21	C5.21	—	C7.70 C1.21	—	—

LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MATL TYPE	DESIGN PRESS.	DESIGN TEMP	OPERT PRESS.	OPERT TEMP.	INSUL. THKN.
11301-002	2 AUGM.	212	GK3	28"	SPECIAL	1.375 MW.	SEE NOTE 3	1185	600	985	545	3.0
11301-002	2 AUGM.	212	GK3	29.5"	SPECIAL	2.125 MW.	SEE NOTE 3	1185	600	985	545	3.0
11301-002 (SEE NOTE 4)	2	212	FK0	6"	ROUND BAR FLG.	SCH 80 BORE	SA-105	1185	600	985	545	3.0





KEY PLAN
LEVEL

LEGEND
1. ✱ INDICATES FIELD WELD
2. ● INDICATES SHOP WELD
3. ● INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
4. ◊ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD

REFERENCE DRAWINGS
P & ID IX4DB159-1-2
FAB. ISO ..... WS-11301-002-01 SH. 1 OF 2
PIPING LAYOUT DWG IX4DL2E02
CIVIL / STRUCTURAL ..... AX2D11A009, A021, F007 & F021
HANGER DETAIL DWG ..... VF11301-002-H001 & H002
F SHEETS ..... F12B07 THRU F12B11
CONTAINMENT PENETRATION DWG ..... IX4DL4A19 & A14

ISI PIPING
CLASSIFICATION DWG ISI-D-054
6" CALIBRATION BLOCK ISI-D-308A
28" CALIBRATION BLOCK ISI-D-313A
29.5" CALIBRATION BLOCK ISI-D-314A

NOTES:
1. SEE ISI PLAN FOR SELECTIONS AND FREQUENCY OF EXAMINATIONS.
2. FOR HEADER DETAIL SEE LADISH CO. DWG. NO. E 54988 (BECHTEL LOG NO. AX4A001-220-9)
3. MATERIAL: SA 234 WPC MFG'D FROM SA-106 GR. C.
4. THE LOCATION OF THE 6" LINES ARE, THE LONG TANGENT WELD NECK FLANGES, AT 5 LOCATIONS WELDED TO THE 29.5" HEADER

Southern Company Services, Inc.
FOR
Georgia Power Company

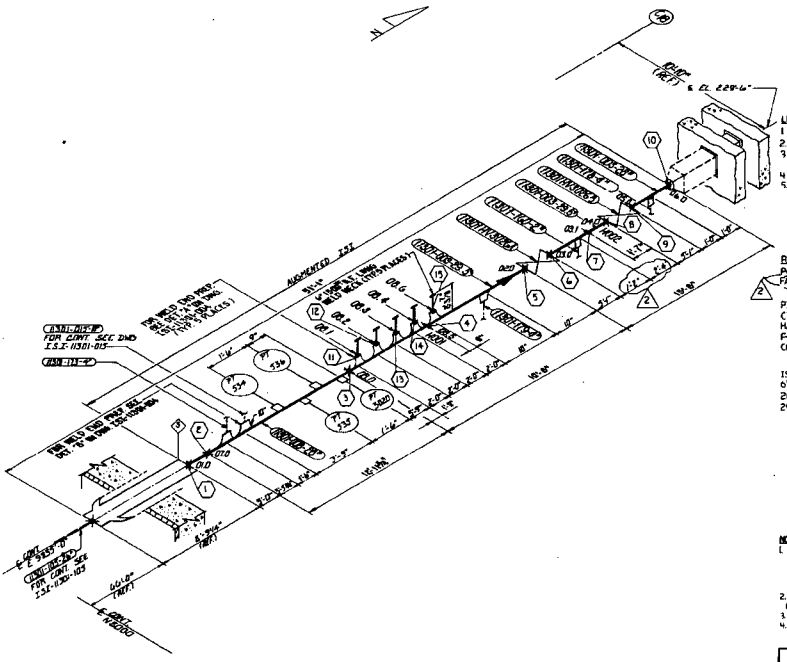
REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 4-1-85	REVISION 1	DATE 12-7-84	REVISION 0	DATE 3-19-84
						ADDED NEW WELD NO'S REVISED REFERENCES. ADDED LINE 11301-273-4" REVISED DIMENSIONS		REVISED REFERENCE DRAWINGS. REMOVED RUSH FROM ISI CLASS. REVISED ITEM NUMBERS.		ISSUED FOR INSPECTION	
BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	BY TKG	CHK'D WS	APPR 1 CWA	APPR 2	BY DOT	CHK'D WS

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 002
INSERVICE INSPECTION ISOMETRIC
MAIN STEAM - SYSTEM 1301

DESIGNED FT | DRAWN EAL | CHECKED WS
SCALE NONE | CHECKED / DATE | DRAWING NUMBER ISI-H1301-002 | REV. 2

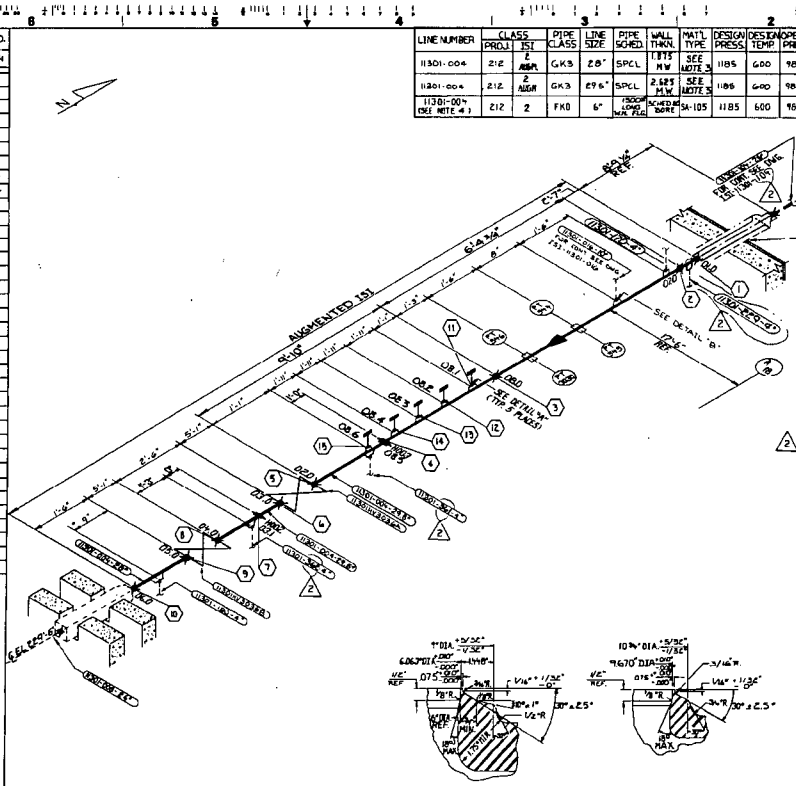
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP.	PART EXAMINED (SEE NOTE NO.)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF	VT1	VT2	VT3	VT4
11301-HV-3202-A4	SHUT-OFF VALVE	PIPING, W/ COMPONENT	—	—	—	—	C1.40 C7.41	—	—
11301-HV-3202-B	↓	↓	—	—	—	—	↓	—	—
VI-1301-003-H001	C. WLD. REINFORCMT	C.WLD. SUPPORT	THF-0300-1	—	—	—	—	F7.70 (1) WELDING	—
H002	↓	↓	↓	—	—	—	—	↓	—
11301-003-H001.0	B.W.	CIRC. WELD	DNC-0300-1	B9.11 C5.21	C5.21	—	C7.40 C7.21	—	—
H002.0	↓	↓	↓			—	↓	—	—
H003.0						—		—	—
H025.1	LEVEL OUTLET WELD	INT. WELD OF COUP.	DNC-0300-5	—	C3.40	—	—	—	—
H024.0	B.W.	CIRC. WELD	DNC-0300-1	B9.11 C5.21	C5.21	—	C7.40 C7.21	—	—
H025.0						—		—	—
						—		—	—
H026.0						—		—	—
H027.0						—		—	—
H028.0						—		—	—
H028.1				C5.21		—		—	—
H028.2						—		—	—
H028.3						—		—	—
H028.4						—		—	—
H028.5	LEVEL OUTLET WELD	EXTERNAL WELD COUP.	DNC-0300-5	—	C3.40	—	—	—	—
H028.6	B.W.	CIRC. WELD	DNC-0300-1	C5.21	C5.21	—	C7.40 C7.21	—	—

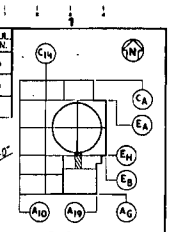
LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT PRESS	OPERT TEMP.	INSUL. THKN.
11301-003	B AUGM.	2.12	GR3	28	SPECIAL	1.875 AVE.	SA-106 GR. C	1185	600	995	545	8"
11801-003	B AUGM.	2.12	GR3	29.5	SPECIAL	2.625 AVE.	NOTE 4	1185	600	995	545	8"
17301-003	E	8.12	FX0	6"	1.0PS 160 W. REF. F.O.	SCH.80 AVE. BORE	SA-105	1185	600	995	545	8"


N
(5-80)
10'-0" (REF.)
℄ EL. 229'-6"
AUGMENTED 23'
(1)11-003-P
FOR CONT. SEE DWG. E.S.Z.-11301-015
(1)11-003-P
(1)11-003-P
FOR CONT. SEE DWG. 1X4DB159-1
(1)11-003-P
FOR CONT. SEE DWG. 1X4DB159-2
(1)11-003-P
FOR CONT. SEE DWG. 1X4DB159-1

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
H301HV3036A	ISOLATION VALVE	PRESS. RET COMP.	—	—	—	—	C7.40 C7.41	—	—
H301HV3036B	↓	↓	—	—	—	—	↓	—	—
V1-1301-004-H002	RER RESTRAINT FIXED YEL STRUT	LINEAR SUPPORT COMPONENT SUPPORT	1W-1301-1	—	—	—	—	F8.20 F8.30	—
H003	↓	↓	↓	—	—	—	—	F8.20 F8.30	—
2									
11301-004-W01.0	B.W.	CIRC. WELD	IWC-2500-7	BUT C5.81	C5.21	—	C7.20 C7.21	—	—
W02.0	B.W.	CIRC. WELD	IWC-2500-7	↓	↓	—	C7.20 C7.21	—	—
W03.0	↓	↓	↓	↓	↑	—	↓	—	—
W03.1	SOCKET FILLET	INTEGRALLY WELD COMP.	IWC-2500-5	—	C3.40	—	—	—	—
W04.0	B.W.	CIRC. WELD	IWC-2500-7	BUT C5.81	C5.21	—	C7.20 C7.21	—	—
W05.0						—		—	—
W06.0						—		—	—
W07.0						—		—	—
W08.0				↓		—		—	—
W081				C5.21		—		—	—
W082						—		—	—
W083						—		—	—
W084	↓	↓	↓	↓		—	↓	—	—
W085	FILLET	INTEGRALLY WELD COMP.	IWC-2500-5	—	C3.40	—	—	—	—
W086	B.W.	CIRC. WELD	IWC-2500-7	C5.21	C5.21	—	C7.20 C7.21	—	—

LINE NUMBER	CLASS PROJ.	CLASS ISI	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11301-004	2.12	2 AUGM.	GK3	28"	SPCL	1.875 MW	SEE NOTE 3	1185	600	985	545	3.0
11301-004	2.12	2 AUGM.	GK3	29.6"	SPCL	2.525 MW	SEE NOTE 3	1185	600	985	545	3.0
11301-004 (SEE NOTE 4)	2.12	2	FK0	6"	1500# LONG WN. FLG.	SCHED 80 BORE	SA-105	1185	600	985	545	3.0





LEGEND:
1. ⋇ INDICATES FIELD WELD.
2. ♣ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
3. ● INDICATES SHOP WELD.
4. ◊ INDICATES CONTAINMENT PENETRATION.
5. ▲ INDICATES BRANCH CONNECTION WELD.
6. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:
P & ID ——— 1X4DB159 SH. 1 & 2
PAD 150 ——— 1K5-1301-001-01
PIPING LAYOUT DWG. ——— 1X4DL3602-1
CIVIL/STRUCTURAL ——— AX2D08A099
HANGER DETAIL DWGS. ——— V1-1301-004-H002-H009
F-SHEETS ——— F-12817 THRU F-12821
CONTAINMENT PENETRATION DWG. ——— 1X4DL4413 & A14
ISI CLASSIFICATION DWG. ——— 1SI-D-054
6" CALIBRATION BLOCK ——— 1SI-D-308A
28" CALIBRATION BLOCK ——— 1SI-D-313A
29.5" CALIBRATION BLOCK ——— 1SI-D-314A

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATION.
2. FOR HEADER DETAIL SEE LADISH CO. DWG NO. E-54986.
3. MAT'L. SA-234 WPC MFG'D. FROM SA-106 GR."C".
4. THE LOCATION OF THE 6" LINES ARE THE LONG WELD NECK FLANGES AT 5 LOCATIONS WELDED TO THE 29.5" HEADER

DETAIL "A" (TYP. FOR 5)
END PREP. FOR 6" I.D. & 9" O.D. OUTLET

DETAIL "B"
END PREP. FOR 10" SCHED. 80 OUTLET

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
						2	3-30-85	1	12-7-84	0	6-25-84
						ADDED NEW WELD NUMBERS CORRECTED LINE NUMBER CORRECTED DWG. NUMBER REVISED REFERENCES SEE WPS 181 SEE WPS 161 ADDED 1301-229-4"		ADDED CALIBRATION BLOCKS TO REFERENCES REMOVED AUGM. FROM ISI CLASS. REVISED ITEM NUMBERS.		ISSUED FOR INSPECTION	
						BST	WJS	BST	WJS	BGS	WJS

Southern Company Services, Inc.

Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO.004
INSERVICE INSPECTION ISOMETRIC
MAIN STEAM-SYSTEM 1301

DRAWN FT | DESIGN RGG | CHECKED WJS

SCALE | PROJECT NO. | DRAWING NUMBER 1SI-1301-004 | REV 2

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP	PART EXAMINED (SEE NOTE NO.1)	EXAM REQUIREMENT FIG	EXAMINATION METHOD AND ITEM NO. VOL	SURF	VT1	VT2	VT3	VT4
1301PV5000	NPV RELIEF VALVE	PRESS RELIEF EQUIPMENT	—	—	—	—	C1.20 / C1.21	—	—
1130104136	GATE VALVE		—	—	—	—		—	—
1130104001			—	—	—	—		—	—
VT-1301-013-H002	MECHANICAL SNUBBER	COMPONENT SUPPORT	INF-1300-1	—	—	—	—	F3.10, F3.20, F3.40, F3.50	
H003	VARIABLE SPRING			—	—	—	—	F3.10, F3.20, F3.40, F3.50	
H004	MECHANICAL SNUBBER			—	—	—	—	F3.10, F3.20, F3.40, F3.50	
H006	VARIABLE SPRING	COMPONENT SUPPORT	INF-1300-1					F3.10, F3.20, F3.30, F3.40	F3.50
1301-013-W01.0	B.W.	CIRC WELD	INC-2580-1	—	C5.11	—	C1.20 C1.21	—	—
W01.1				—		—		—	—
W01.2				—		—		—	—
W02.0				—		—		—	—
W03.0				—		—		—	—
W04.0				—		—		—	—
W05.0				—		—		—	—
W06.0				—		—		—	—
W06.1				—		—		—	—
W06.2				—		—		—	—
W06.3				C5.21	C5.21	—		—	—
W07.0				—		—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT PRESS.	OPERT TEMP.	INSUL THKN.
1130I-013	2	212	GK3	8"	80	0.500"	SA-106 GR-B	1185	600	985	545	2.5"
1130I-013	2	212	GK3	10"	80	0.594"	SA-106 GR-B	1185	600	985	545	4.0"

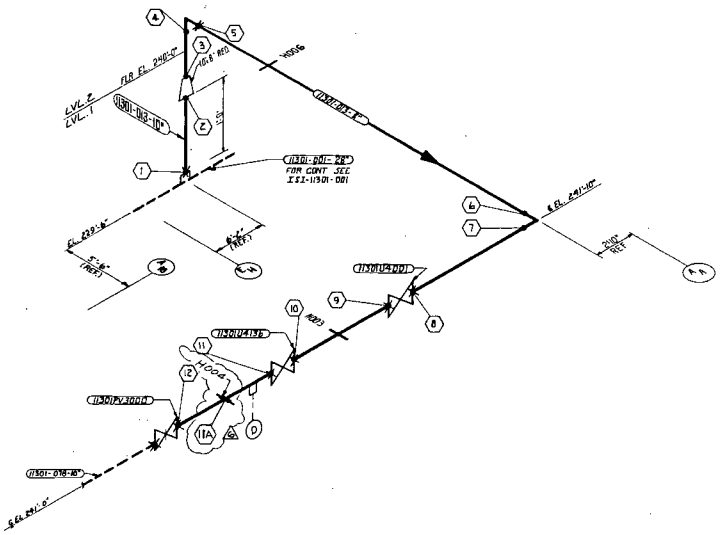
LEGEND:
1. ▣ INDICATES FIELD WELD
2. ✱ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT
3. ● INDICATES SHOP WELD
4. ⊢⊣ INDICATES PIPE RESTRAINT
5. — INDICATES PIPE SUPPORT

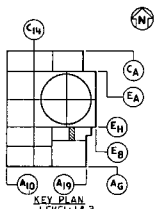
REFERENCE DRAWINGS:

P & I D_____IX4DB159-2
FAB ISO_____IK3-1301-013-01/1

PIPING LAYOUT DWG_____IX4DL3601, G02-1
CIVIL/STRUCTURAL_____AX2D08A099
HANGER DETAIL DWG_____VI-1301-013-H002, H003, H004, H006
F-SHEETS_____F6869, 70, 71, 72

NOTES:
1. SEE ISI PLAN FOR SELECTIONS AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG AXWD001 APPENDIX D (U.N.O.)





KEY PLAN
LEVEL 1 & 2

REVISION	DATE	DESCRIPTION
5	5/22/91	DELETED HANGER H002 AND H004 PER PCR 91-004
4	5-28-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI
3	11-12-85	CHANGED DIMENSION. REMOVED H005 & H001 AND ADDED H006
2	4-1-85	ADDED NEW WELD NO'S. REVISED NOTES. ADDED HANGER H005. REVISED HANGER H004. ADDED DRAIN. REVISED EQUIPMENT IDENTIFICATION NO.
1	12-7-84	ADDED CALIBRATION BLOCK TO REFERENCES. REMOVED AUGM. FROM ISI CLASS. ADDED LEVELS 1 AND 2. REVISED EXAM REQUIREMENT & ITEM NUMBERS.
0	01/23/1997	ADDED HANGER, NO. H004 AND WELD NO. 11A PER DCP 94-VIN0019.

BY	CHK'D	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5
WJS	WS	WLK				
RLB	GLR	99C				
EJD	WS	CWL				
BKG	WS	CWL				
BST	WS	CWL				
WS	DMC	WLK				

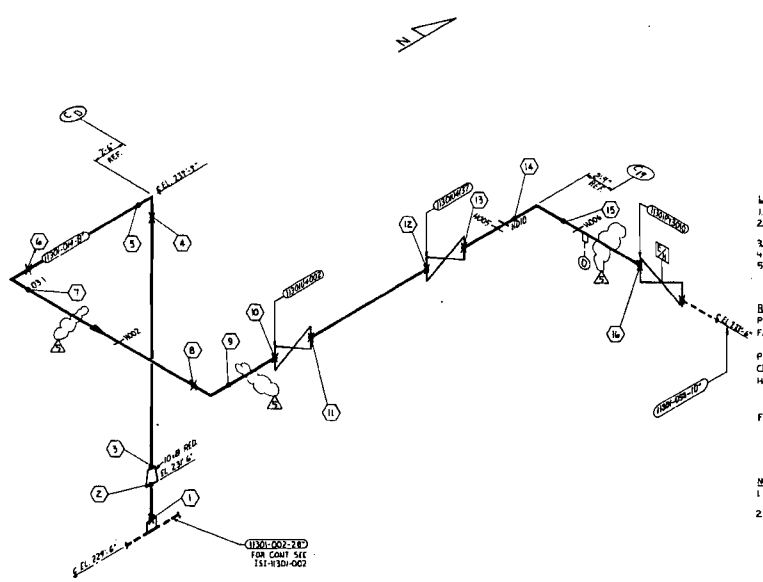
Southern Company Services, Inc.
FOR
Georgia Power Company

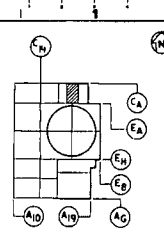
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 013
INSERVICE INSPECTION ISOMETRIC
MAIN STEAM-SYSTEM 1301

DESIGNED FT | DRAWN EAL | CHECKED WS
SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-1130I-013 | REV 6

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP.	PART EXAMINED (SEE NOTE) WELD	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11301-H002	GATE VALVE	PRESS. TEST COMPONENT	—	—	—	C5.20 (1,4)	—	—	—
11301-H137			—	—	—		—	—	—
11301-FV3010	GATE VALVE		—	—	—		—	—	—
VI-1301-014-H016	VARIABLE SPRING	COMPONENT SUPPORT	TWF-1300-1	—	—	—	—	F1.10 FILLET F1.30 PLATE	F3.50
VI-1301-014-H002	MECHANICAL SNUBBER	COMPONENT SUPPORT	TWF-1300-1	—	—	—	—	F1.10 FILLET F1.30 PLATE	F3.50
VI-1301-014-H005	MECHANICAL SNUBBER	COMPONENT SUPPORT	TWF-1300-1	—	—	—	—	F1.10 FILLET F1.30 PLATE	F3.50
H006				—	—	—	—		
H008	VARIABLE SPRING			—	—	—	—		
H015	MECHANICAL SNUBBER			—	—	—	—	F1.10 FILLET F1.30 PLATE	
H010	RIGID PIPE			—	—	—	—	F1.10 FILLET F1.30 PLATE	
H011	SPRING VARIABLE SPRING			—	—	—	—		
11301-014-H018	BW	CIRC. WELD	ZMC-2001-2	C5.21	C5.21	—	C1.20 C1.21	—	—
H011				—		—		—	—
H012				—	C5.11	—		—	—
H020				—		—		—	—
H021				—		—		—	—
H030				—		—		—	—
H031				—		—		—	—
H040				—		—		—	—
H041				—		—		—	—
H050				—		—		—	—
H060				—		—		—	—
H070				—		—		—	—
H080				—		—		—	—
H081				—		—		—	—
H082				—		—		—	—
H090				—		—		—	—

LINE NUMBER	CLASS TSI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN.	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT PRESS.	OPERT TEMP.	INSUL. THKN.
11301-014	2	212	GK3	8"	80	.500	SA-106 GR.B	1185	600	985	545	2.5
11301-014	2	212	GK3	10"	80	.594	SA-106 GR.B	1185	600	985	545	4.0





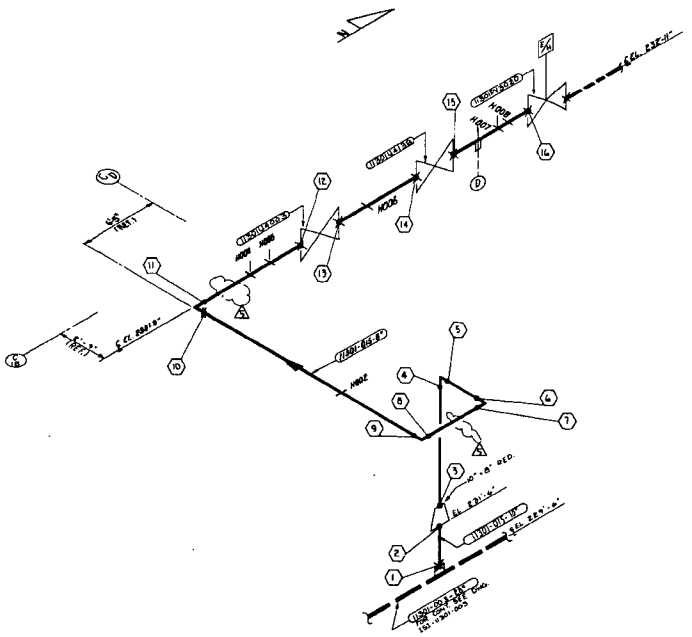
KEY PLAN
LEVEL 1

LEGEND:
1. ■ INDICATES FIELD WELD.
2. ● INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
3. ◆ INDICATES SHOP WELD.
4. ⊣⊢ INDICATES PIPE RESTRAINT.
5. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:
P & ID — — —

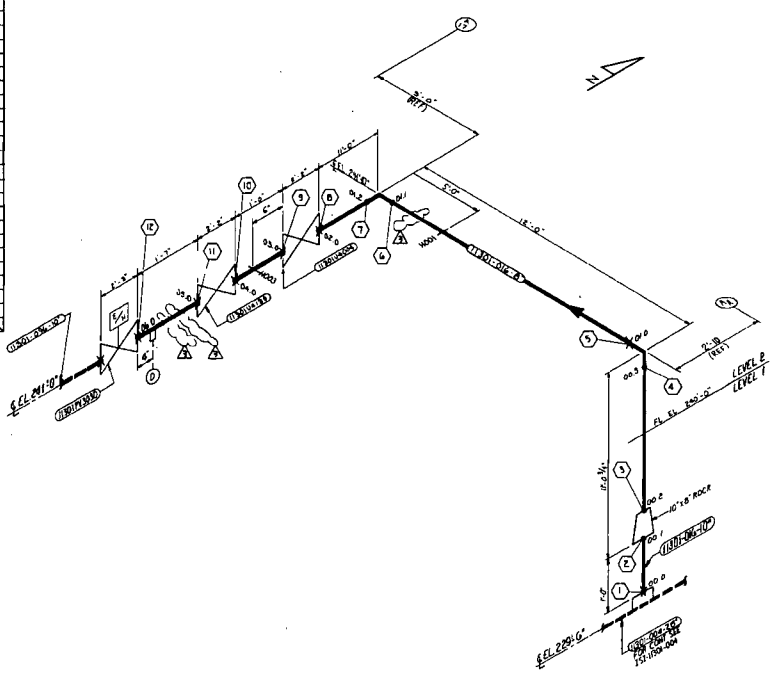
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
1301U4002	GATE VALVE	PRESSURE BDY. COMP.	–	–	–	–	C1.40 C1.41	–	–
1301U4130	↓	↓	–	–	–	–	↓	–	–
1301PV3020	RELIEF VALVE	↓	–	–	–	–	↓	–	–
VI-1301-015-H001	VARIABLE SPRING HANGER	COMPONENT SUPPORT	DWF-1300-1	–	–	–	–	F3.10 F3.11 F3.12 F3.13	F3.50
H002	↓	↓	↓	–	–	–	–	↓	↓
H004	AUX. SNUBBER	COMPONENT SUPPORT	DWF-1300-1		–	–	–	F3.10 F3.11 F3.12 F3.13	F3.50
H005	↓	↓		–	–	–	–	↓	
H010	VARIABLE SPRING HANGER			–	–	–	–		
H007	AUX. SNUBBER			–	–	–	–		
H008	↓			–	–	–	–	↓	
H009	VARIABLE SPRING HANGER			–	–	–	–	↓	
11301-015-W010	B.W.	COMP. WELD	DWG-2300	C5.21	C5.21	–	C1.10 C1.11	–	–
W011					↓	–		–	–
W012					C5.11	–		–	–
W013				–		–		–	–
W014				–		–		–	–
W015				–		–		–	–
W016				–		–		–	–
W017				–		–		–	–
W018				–		–		–	–
W019				–		–		–	–
W020				–		–		–	–
W021				–		–		–	–
W022				–		–		–	–
W023				–		–		–	–
W024				–		–		–	–
W025				–		–		–	–
W026				–		–		–	–
W027				–		–		–	–
W028				–		–		–	–

LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11301-015	2	212	GK3	8"	80	.500	SA-106 GR. B	1185	600	985	545	2.5
11301-015	2	212	GK3	10"	80	.594	SA-106 GR. B	1185	600	985	545	4.0


N
H008
H009
H010
H007
H002
11301-015-W010
11301-015-W010
11301-015-W010

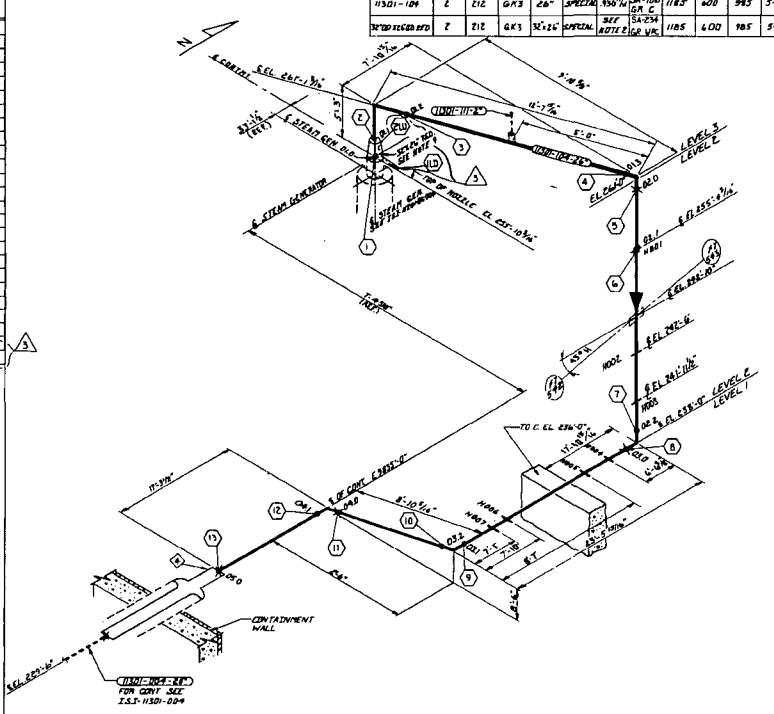
EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
N301PV3050	ATM. RELIEF VALVE	PRESSURE BOUT. CAP	—	—	—	—	C7.40 C7.81	—	—
11301N4004	GATE VALVE		—	—	—	—		—	—
11301N4339	↑		—	—	—	—	↓	—	—
V1-1301-016-H001	VARIABLE SPRING HORIZ. SUPPORT	COMPONENT SUPPORT	INF-000-1	—	—	—	—	F1.10 F1.40 F1.50	F1.50
H002	RIGID HORIZ. SUPPORT			—	—	—	↓		
H003	RIGID VERT. SUPPORT			—	—	—	—	F1.10 F1.40 F1.50	
H004				—	—	—	—	F1.10 F1.40 F1.50	
H005	↓	↓	↓	—	—	—	—		↓
11301-016-H00.0	BW	CIRC. WELD	INF-2500-1	C5.21	C5.21	—	C7.20 C7.21	—	—
H00.1					↓			—	—
H00.2				—	C5.11	—		—	—
H00.3				—		—		—	—
H01.0				—		—		—	—
H01.1				—		—		—	—
H01.2				—		—		—	—
H02.0				—		—		—	—
H03.0				—		—		—	—
H04.0				—		—		—	—
H05.0				—		—		—	—
H06.0	↓	↓	↓	—	↓	—	↓	—	—

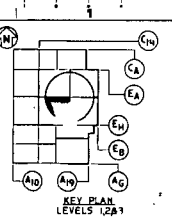
LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11301-016	2	212	GA3	18"	80	.500	SA-106 GR B	1185	600	985	545	4.0
11301-016	2	212	GA3	10"	80	.594	SA-106 GR B	1185	600	985	545	4.0



EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO.1)	EXAM. REQUIREMENT FIG	EXAMINATION METHOD AND ITEM NO. VOL.	SURF	VT1	VT2	VT3	VT4
VI-1301-104-H001	COMPLIANT SUPPORT MECH. SNUBBER	COMPONENT SUPPORT	IWF-1300-1	—	—	—	—	F3.50 F3.50	F3.50
H002				—	—	—	—		F3.50
H003				—	—	—	—		F3.50
H006				—	—	—	—		F3.50
H007	COMPLIANT SUPPORT RIGID HANGER			—	—	—	—		F3.50
H002				—	—	—	—		
H005				—	—	—	—		
11301-104-W01.0	BW	CIRC. WELD	IWC-2500-7	C5.21	C5.21	—	CT.30 CT.31	—	—
W01.1						—		—	—
W01.2						—		—	—
W01.3						—		—	—
W02.0						—		—	—
W02.1	FILLET WELD	INTEGRALLY WELDED LUG	IWC-2500-5	—	C3.40	—		—	—
W02.2	BW	CIRC. WELD	IWC-2500-7	C5.21	C5.21	—		—	—
W03.0						—		—	—
W03.1						—		—	—
W03.2						—		—	—
W04.0						—		—	—
W04.1						—		—	—
W05.0						—		—	—
1LD	BW	CONDUCTIVITY WELD. DIMENSIONAL WELD.	IWC-2500-7	C5.22	C5.22	—		—	—
2LU	BW		IWC-2500-7	C5.22	C5.22	—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP	OPERATG PRESS	OPERT TEMP	INSUL THKN
11301-104	2	212	GK3	26"	SPECIAL	.930"W	SA-106 GR. C	1185	600	985	545	3.0
32"OD XXSCED BFD	2	212	GK3	32"x26"	SPECIAL	SEE NOTE 2	SA-234 GR. WPC	1185	600	985	545	3.0





LEGEND:
1. ⓦ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ● INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
4. ◇ INDICATES CONTAINMENT PENETRATION NO.
5. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:
PAID IX4D8159-1
FAB. ISO. IK5-1301-001-01
PIPING LAYOUT DWG. IX4DL4D02, D16
CIVIL STRUCTURAL ..... IX2D4A0R5 & 8F002
HANGER DRAWINGS ..... VI-1301-104-H001 THRU 7
CONT. PENETRATION DWG. IX4DL4A19
F-SHEETS ..... F-12830, 31, 32, & 33
ISI PIPING CLASSIFICATION DWG. ISI-D-053
26" CALIBRATION BLOCK ISI-D-312A
32" CALIBRATION BLOCK ISI-D-317A

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATION.
2. 32" O.D. (1.313" MIN./WALL) X 26" O.D. (.930" MIN./WALL) CONC. REDCR.
3. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D (U.N.O.)
4. FOR 32" WELD PREP DETAIL SEE ISI DWG. ISI-1301-105 DETAIL "A"

REVISION	DATE	REVISIONS
3	11-5-85	ADDED LONG SEAM WELD TO REDCR
2	3-30-85	ADDED NEW WELD NO'S. REVISED REFERENCES & NOTES. REVISED DIMENSION. ADDED HANGERS H002 & H003
1	12-7-84	REVISED LEGEND AND REFERENCES. ADDED LEVELS TO DRAWING. EXPANDED WELD LIST.
0	8-26-83	ISSUED FOR INSPECTION

Southern Company Services, Inc.

Georgia Power Company

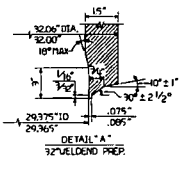
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 104
INSERVICE INSPECTION ISOMETRIC
MAIN STEAM-SYSTEM 1301

DRAWN FT | DESIGN CAL | CHECKED WS

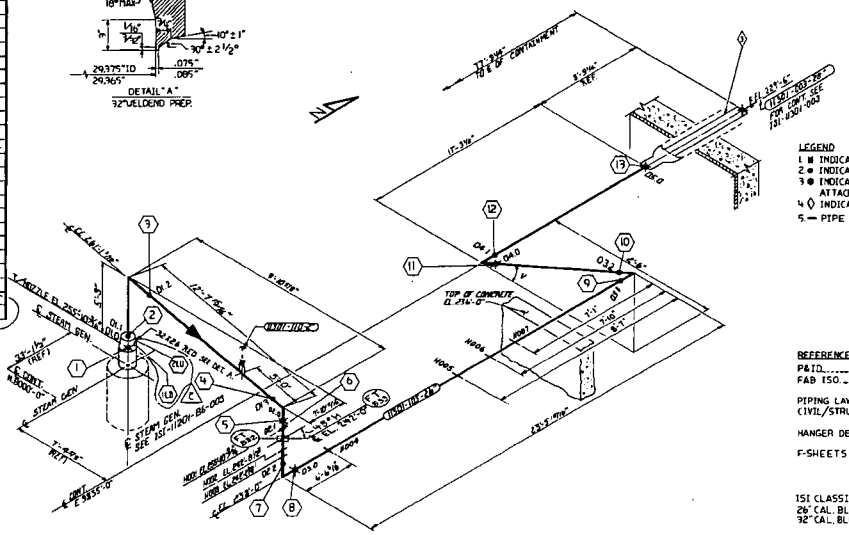
SCALE NONE | DRAWING NUMBER ISI-1301-104 | REV. 3

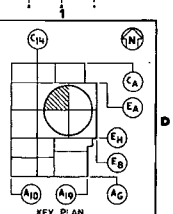
EQUIPMENT OR WELD IDENTIFICATION NO	WELD OR EQUIP DESCRIP	PART EXAMINED (SEE NOTE NO 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL	SURF	VT1	VT2	VT3	VT4
V1-1301-105-H001	CONTINUOUS SUPPORT MECH SNUBBER	CONTINUOUS SUPPORT	IWF-1300-1	—	—	—	—	F1.10 F1.11 F1.12 F1.13	F3.50
H002				—	—	—	—		
H003				—	—	—	—		
H004				—	—	—	—		
H005				—	—	—	—		
H006				—	—	—	—		
H007	CONTINUOUS SUPPORT			—	—	—	—		
11301-105-W01.0	B.W.	CIRC WELD	IWC-2500-7	C5.21	C5.21	—	C1.20 C1.21	—	—
W01.1						—		—	—
W01.2						—		—	—
W01.3						—		—	—
W02.0						—		—	—
W02.1	FILLET WELD	INT WELD ATTACHMENT	IWC-2500-5	—	C3.40	—	—	—	—
W02.2	B.W.	CIRC WELD	IWC-2500-7	C5.21	C5.21	—	C1.20 C1.21	—	—
W03.0						—		—	—
W03.1						—		—	—
W03.2						—		—	—
W04.0						—		—	—
W04.1						—		—	—
W05.0						—		—	—
1LD	B.W.	LONG SEAM (LONGITUDINAL WELD)	IWC-2500-1	C5.22	C5.22	—	—	—	—
1LU						—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP	OPERT PRESS.	OPERT. TEMP	INSUL. THKN.
11301-105	2	21E	GA13	26"	SPECIAL	.930 W/W	SA-106 GR.C	1185	600	985	545	3.0
32"OD X 26"OD RED.	2	21E	GA13	32"X 26"	SPECIAL	SEE NOTE 2	SA-234 GR WPC	1183	600	985	545	3.0



DETAIL "A"
32" WELD END PREP.





KEY PLAN
LEVEL 12 AND 3

LEGEND
1. ■ INDICATES FIELD WELD
2. ● INDICATES SHOP WELD
3. ⊕ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
4. ◊ INDICATES CONTAINMENT PENETRATION NO.
5. — PIPE SUPPORTS

REFERENCE DRAWINGS:
P&ID IX4DB159-1
FAB ISO. ..... IX5-1301-002-01 SH. 2 OF 2
PIPING LAYOUT DWG IX4DL4C10
CIVIL/STRUCTURE ..... AX2D8A021, F021, IX2D4BA009 & F007
HANGER DETAIL DWG ..... V1-1301-105-H001 THRU H007
F-SHEETS F-12834, F-12834-1, F-12834-2, F-12836, F-12836-1, F-12895, F-12897
1SI CLASSIFICATION DWG. ISI-D-053
26" CAL. BLOCK ISI-D-312A
32" CAL. BLOCK ISI-D-317A

NOTES:
1. SEE ISI PLAN FOR SELECTIONS AND FREQUENCY OF EXAMINATIONS.
2. 32" O.D. (1.515" MIN./WALL) X 26" O.D. (.930" MIN./WALL) CONC. TRICK
3. FOR PIPE WELD END PREP. SEE BECHTEL DWG AX4DR001 APPENDIX D. (U.N.O.)

REVISION	DATE	
2	11-5-85	ADDED LONG SEAM WELD
1	3-30-85	ADDED NEW WELD NO'S REVISED LEGEND, REFERENCES & NOTES
0	2-13-84	ISSUED FOR INSPECTION

Southern Company Services, Inc.

Georgia Power Company

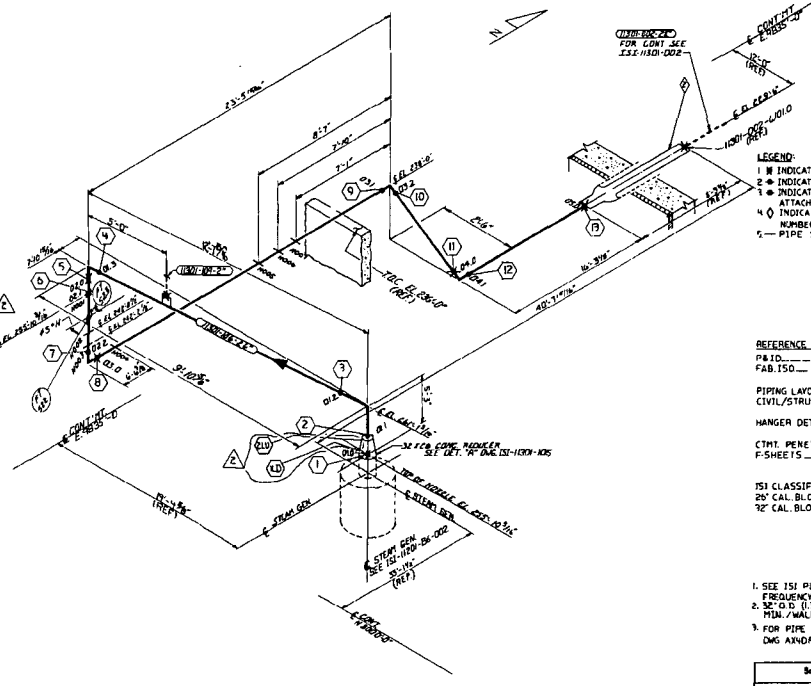
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 105
INSERVICE INSPECTION ISOMETRIC
MAIN STEAM-SYSTEM 1301

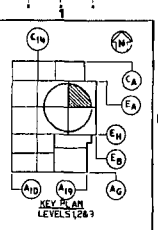
DESIGNED FT DRAWN EAL CHECKED WS

SCALE: NONE | PROJECT ID | DRAWING NUMBER: 1S1-11301-E | REV: 2

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP.	PART EXAMINED (SEE NOTE NO.1)	EXAM. REQUIREMENT FIG	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
1-1301-106-H001	CONSTANT SUPPORT PLATE & RUBBER	COMPONENT SUPPORT	2NF-1180-1	—	—	—	—	FN 11.120 FN 11.119	FN 11.8
H002				—	—	—	—		
H003				—	—	—	—		
H004				—	—	—	—		
H005				—	—	—	—		
H006				—	—	—	—		
H007	CONSTANT SUPPORT			—	—	—	—		
1301-106-W01.0	B.W.	CIRC WELD	IWE-2500-7	C5.11	C5.21	—	C5.20 C5.21	—	—
W01.1						—		—	—
W01.2						—		—	—
W01.3						—		—	—
W02.0						—		—	—
W02.1	FILLET WELD	INT WELD ATTACHMENT	IWE-2500-9	—	C5.40	—		—	—
W02.2	B.W	CIRC WELD	IWE-2500-7	C5.11	C5.21	—	C5.20 C5.21	—	—
W03.0						—		—	—
W03.1						—		—	—
W03.2						—		—	—
W04.0						—		—	—
W04.1						—		—	—
W05.0						—		—	—
ILD	B.W	LONGITUDINAL WELD	IWE-2500-7	C5.22	C5.22	—		—	—
ILU	B.W		IWE-2500-7	C5.22	C5.22	—		—	—

LINE NUMBER	CLASS IST	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MATL TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERG PRESS.	OPERG TEMP.	INSUL. THKN.
1130-106	2	212	GK3	26"	SPECIAL	.930"	SA-106 GR.C	1185	600	985	545	3.0
1130-106 TO RCD NO.	2	212	GK3	32" x 28"	SPECIAL	SEE NOTE 2	SA-238 GR-WPC	1185	600	985	545	3.0





LEGEND:
1. ⊠ INDICATES FIELD WELD
2. ◆ INDICATES SHOP WELD
3. ◆ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT
4. ◊ INDICATES CONTAINMENT PENETRATION NUMBER.
5. — PIPE SUPPORT

REFERENCE DRAWINGS:
P&ID IX4DB159
FAB. 150 ..... IKS-1901-002-01 SH. 1 OF 2
PIPING LAYOUT DWG. IX4DL4802
CIVIL/STRUCTURAL ..... AX2D1A021 & F021 & 1X2D4BA007 & F009
HANGER DETAIL DWG. ..... V1-1301-106-H001 THRU H007
CTMT. PENET. DWG. ..... IX4DL4A13 & A14
F-SHEETS F-12838 F-12838-1 F-12838- F-12839 F-12840 F-12841
ISI CLASSIFICATION DWG. ISI-D-095
26" CAL. BLOCK ISI-D-312A
32" CAL. BLOCK ISI-D-317A

1. SEE ISI PLAN FOR SELECTIONS AND FREQUENCY OF EXAMINATIONS.
2. 32" O.D. (1.313 MIN./WALL) X 26" O.D. (.930" MIN./WALL) CONC. RDCR.
3. FOR PIPE WELD END PREP SEE BECHTEL DWG AX4D0001 APPENDIX D. (U.N.O.)

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
						2	11-5-85	1	4-1-85	0	2-29-84
						ADDED LONG SEAM WELD TO RDCR		ADDED NEW WELD NO'S REVISED LEGEND REFERENCES & NOTES		ISSUED FOR INSPECTION	
						BKL	WS	CWB	BKL	WS	CWB	BKL	WS	ff

Southern Company Services, Inc.

Georgia Power Company

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 106
INSERVICE INSPECTION ISOMETRIC
MAIN STEAM-SYSTEM 1301

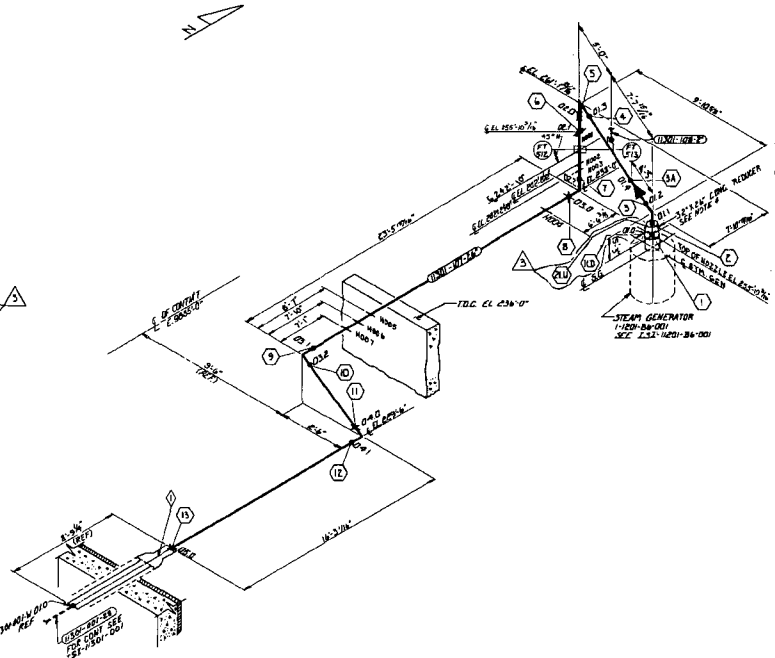
DESIGNED FY DRAWN EAL CHECKED US

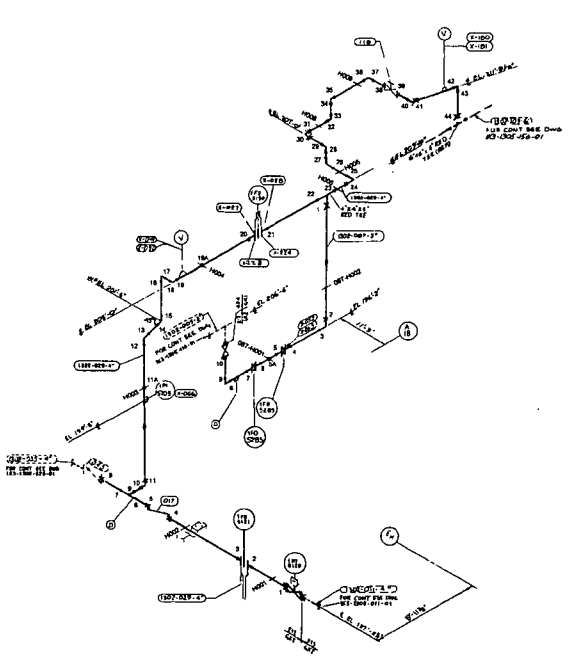
SCALE: NONE

DRAWING NUMBER: ISI-1130-106 REV 2

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP DESCRIP	PART EXAMINED (SEE NOTE NO.1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF	VT1	VT2	VT3	VT4
VI-1301-107-H001	CONSTANT SUPPORT, PIPE SHUBBER	COMPONENT SUPPORT	IWF-1300-1	—	—	—	—	FS-015,20 FS301-68	FS 58
H002				—	—	—	—		
H003				—	—	—	—		
H004				—	—	—	—		
H005				—	—	—	—		
H006				—	—	—	—		
H007	CONSTANT SUPPORT			—	—	—	—		
11301-107-W014	B.W	CIRC. WELD	IWC-2500-7	C5.21	C5.71	—	C7.10 C7.11	—	—
11301-107-W010	B.W.	CIRC. WELD	IWC-2500-7	C5.21	C5.21	—	C7.20 C7.21	—	—
W011						—		—	—
W012						—		—	—
W013						—		—	—
W020						—		—	—
W021	FILLET WELD	INC. WELD ATTACHMENT	IWC-2540-5	—	C5.40	—	—	—	—
W022	B.W	CIRC. WELD	IWC-2500-7	C5.21	C5.21	—	C7.20 C7.21	—	—
W030						—		—	—
W031						—		—	—
W032						—		—	—
W040						—		—	—
W041						—		—	—
W050						—		—	—
1 2LU	B.W.	ATTACHMENT WELD	IWC-2500-7	C5.22	C5.22	—		—	—
1 2LU	B.W.		IWC-2500-7	C5.22	C5.22	—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ.	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11301-107	2	212	GM3	26"	SPECIAL	.930"/.4"	SA-106 GR.C	1185	600	985	545	3.0
26"OD x 2.600 WALL	2	212	GM3	32"x26"	SPECIAL	SEE NOTE 2.	SA-234 GR.WPB	1185	600	985	545	3.0


N
TOC EL 236'-0"
STEAM GENERATOR
REDUCER
W014
W013
W012
W011
W010
W021
W022
W020
W031
W032
W030
W041
W040
W050
H001
H002
H003
H004
H005
H006
H007
1 2LU
1 2LU
1 2LU



REFERENCES:
1K3-1302-029-01/20

LINE NUMBER:
ISI-11302-029
ISI-11302-057

REVISION	DATE	REVISION	DATE
		1	4-9-09
		INITIAL ISSUE	

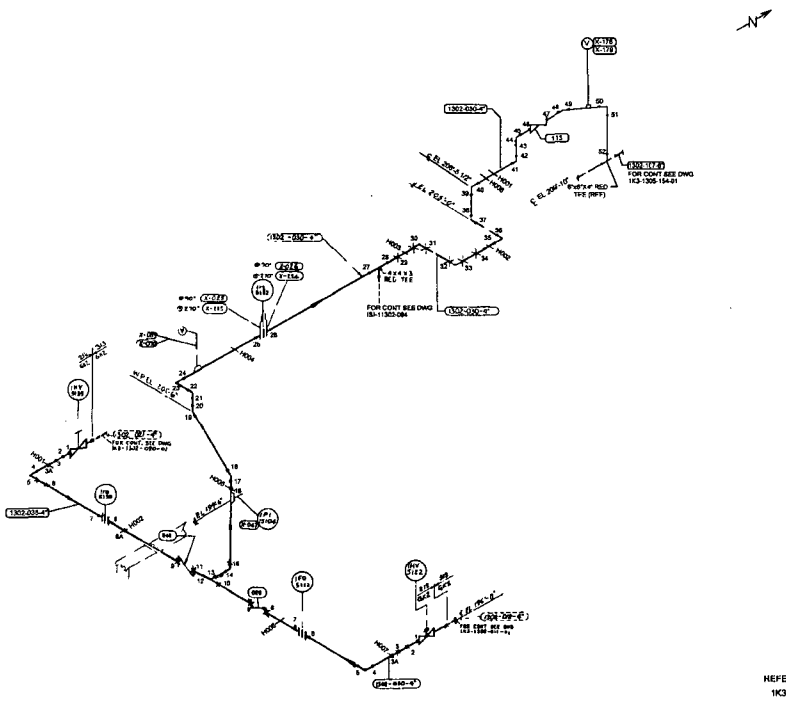
BY	CHK'D	APPR. 1	APPR. 1	APPR. 1	APPR. 1	APPR. 1

BY	CHK'D	APPR. 1	APPR. 1	APPR. 1	APPR. 1	APPR. 1
BM	JMA	DMS				

SOUTHERN COMPANY SERVICES, INC
FOR
GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 029
INSERVICE INSPECTION ISOMETRIC
AUXILIARY FEEDWATER - SYSTEM 1302

DESIGNED	DRAWN	CHECKED			
SCALE	SHEET	PROJECT ID	DRAWING NUMBER	REV
NONE	1 OF 1		ISI-11302-029	1



REFERENCES:
1K3-1302-030-01/2B

LINE NUMBER:
ISI-11302-030
ISI-11302-036

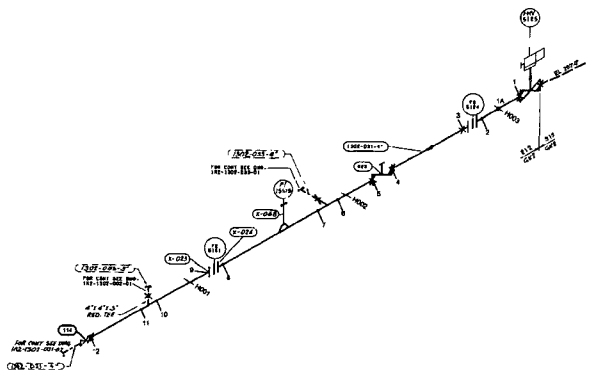
REVISION	DATE	REVISION	DATE
		1 INITIAL ISSUE	4-8-09

BY	CHKD	APPR. 1	APPR. 1	APPR. 1	APPR. 1	APPR. 1	BY	CHKD	APPR. 1	APPR. 1	APPR. 1	APPR. 1	APPR. 1
							BM	JWA	DMB				

SOUTHERN COMPANY SERVICES, INC
FOR
GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 030
INSERVICE INSPECTION ISOMETRIC
AUXILIARY FEEDWATER - SYSTEM 1302

DESIGNED	DRAWN	CHECKED			
SCALE	SHEET	PROJECT ID	DRAWING NUMBER	REV.
NONE	1 OF 1		ISI-11302-030	1



REFERENCES:
1K2-1302-031-01/11

LINE NUMBER:
ISI-11302-031

REVISION	DATE	REVISION	DATE
		1	4-8-09
		INITIAL ISSUE	

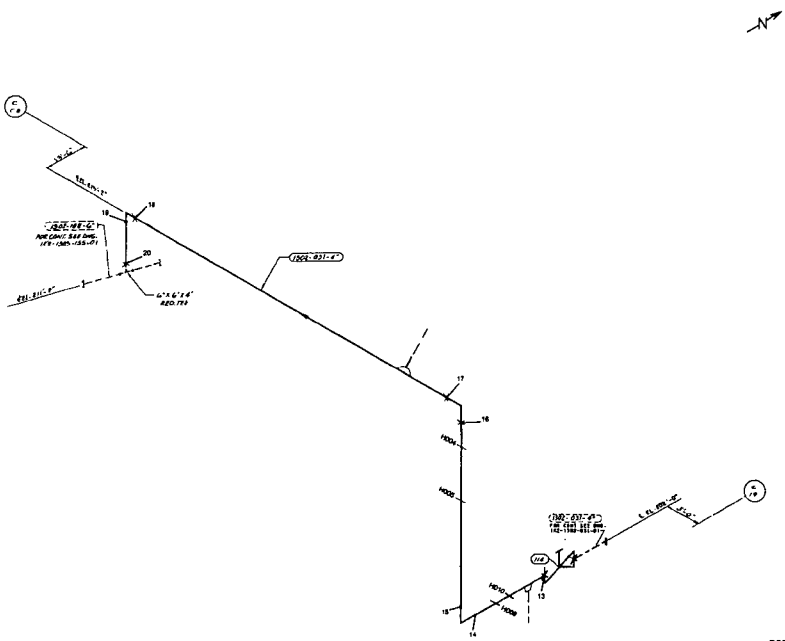
BY	CHKD	APPR 1	APPR 1	APPR 1	APPR 1	APPR 1

BY	CHKD	APPR 1	APPR 1	APPR 1	APPR 1	APPR 1
SM	JMA	CMR				

SOUTHERN COMPANY SERVICES, INC
FOR
GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 031
INSERVICE INSPECTION ISOMETRIC
AUXILIARY FEEDWATER - SYSTEM 1302

DESIGNED	DRAWN	CHECKED		
SCALE	SHEET	PROJECT ID	DRAWING NUMBER	REV
NONE	1 OF 3		ISI-11302-031	1



REFERENCES:
1K2-1302-031-02/11

LINE NUMBER:
ISI-11302-031

REVISION	DATE	REVISION 1	DATE 4-9-02
		INITIAL ISSUE	

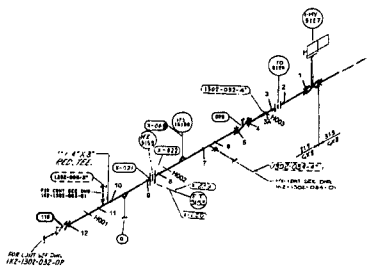
BY	DATE	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	BY	DATE	APPR 1	APPR 2	APPR 3	APPR 4	APPR 5	APPR 6
							BM	JMA	DMB					

SOUTHERN COMPANY SERVICES, INC

GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 031
INSERVICE INSPECTION ISOMETRIC
AUXILIARY FEEDWATER - SYSTEM 1302

DESIGNED	DRAWN	CHECKED	SCALE	SHEET	PROJECT ID	DRAWING NUMBER	REV
			NONE	2 OF 2		ISI-11302-031	1



REFERENCES:
1K2-1302-032-01/12

LINE NUMBER:
ISI-1302-032

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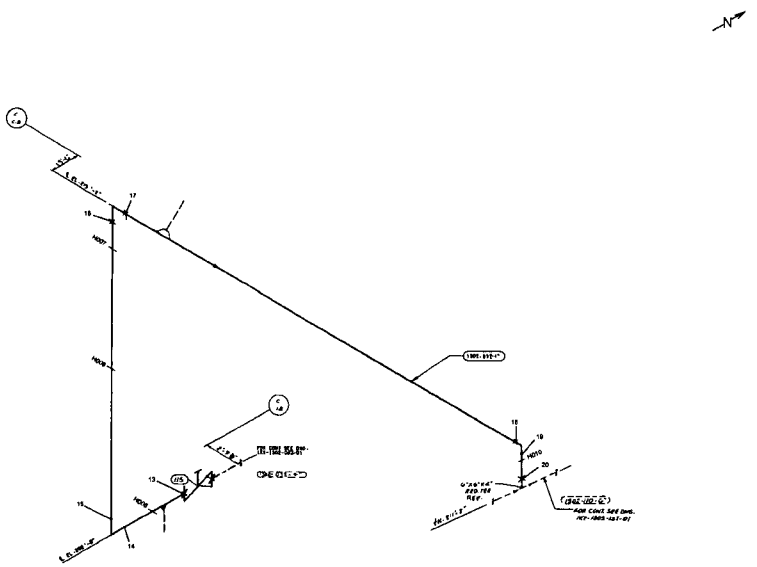


REFERENCES:
1X2-1302-032-02/10

LINE NUMBER:
ISI-11302-032

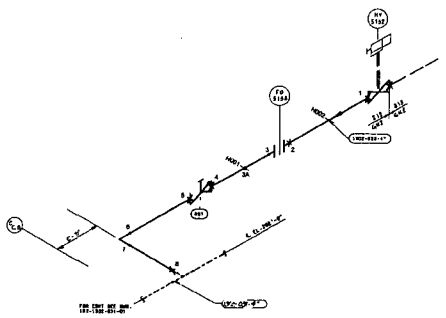
REVISION				DATE				REVISION	1			DATE	4-4-00										
								INITIAL ISSUE															
BY	CHKD	APPR. 1	APPR. 1	APPR. 1	APPR. 1	APPR. 1	BY	CHKD	APPR. 1	APPR. 1	APPR. 1	APPR. 1	APPR. 1										
							SM	JMA	DMB														

SOUTHERN COMPANY SERVICES, INC

GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 032
INSERVICE INSPECTION ISOMETRIC
AUXILIARY FEEDWATER - SYSTEM 1302

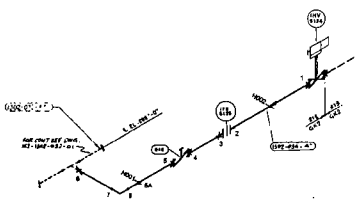
DESIGNED	DRAWN	CHECKED				
SCALE	SHEET	PROJECT ID	DRAWING NUMBER	REV.
NONE	2 OF 2		ISI-11302-032	1



REFERENCES:
1K2-1302-033-01/8

LINE NUMBER:
ISI-11302-033

REVISION	DATE	REVISION 1	DATE 4-8-99	SOUTHERN COMPANY SERVICES, INC FOR GEORGIA POWER COMPANY	
		INITIAL ISSUE		VOGTLE ELECTRIC GENERATING PLANT UNIT 1 - LINE NO. 033 INSERVICE INSPECTION ISOMETRIC AUXILIARY FEEDWATER - SYSTEM 1302	
				DESIGNED / DRAWN / CHECKED	
BY / DWG / APPR. 1 / APPR. 2 / APPR. 3 / APPR. 4	BY / CHKD / APPR. 1 / APPR. 2 / APPR. 3 / APPR. 4	SM / JAA / DMB		SCALE NTS / SHEET 1 OF 1 / PROJECT ID / DRAWING NUMBER ISI-11302-033	REV 1



REFERENCES:
1X2-1302-034-01/4

LINE NUMBER:
ISI-11302-034

REVISION	DATE	REVISION 1	DATE 4-8-09
		INITIAL ISSUE	

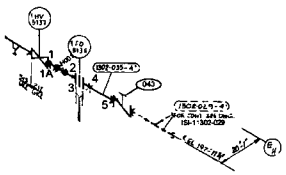
SOUTHERN COMPANY SERVICES, INC

GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 034
INSERVICE INSPECTION ISOMETRIC
AUXILIARY FEEDWATER - SYSTEM 1302

BY	DATE	APPR. 1	APPR. 1	APPR. 1	APPR. 1	APPR. 1	BY	DATE	APPR. 1	APPR. 1	APPR. 1	APPR. 1	APPR. 1
							BAI	JWA	DHS				

DESIGNED	DRAWN	CHECKED				
SCALE	SHEET	PROJECT ID	DRAWING NUMBER	REV
NONE	1 OF 1		ISI-11302-034	1



REFERENCES:
1K3-1302-020-01/13

LINE NUMBER:
ISI-11302-035

SOUTHERN COMPANY SERVICES, INC

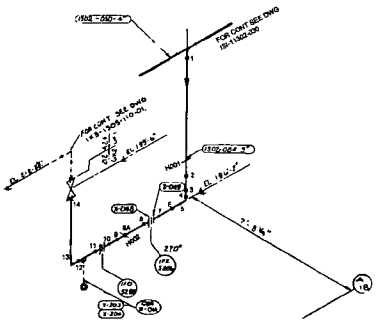
GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 035
INSERVICE INSPECTION ISOMETRIC
AUXILIARY FEEDWATER - SYSTEM 1302

REVISION	DATE	REVISION	DATE
		1	4-8-09
		INITIAL ISSUE	

BY	CHKD	APPR. 1	APPR. 1	APPR. 1	APPR. 1	APPR. 1	BY	CHKD	APPR. 1	APPR. 1	APPR. 1	APPR. 1	APPR. 1
							SM	JMA	DMS				

DESIGNED	DRAWN	CHECKED	SCALE	SHEET	PROJECT ID	DRAWING NUMBER	REV
			NONE	1 OF 1		ISI-11302-035	1


FOR CONT SEE DWG
ISI-11302-035
270°
1-FW-
1-2BA
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1-2BA
1-FW-
1-2BA
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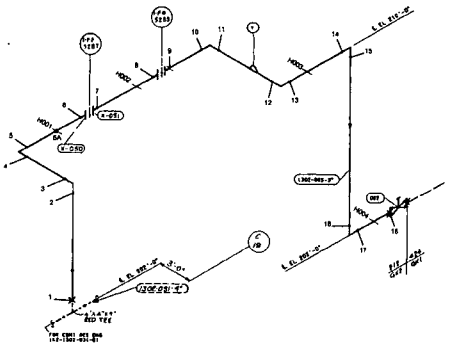
2-2BA
1-FW-
2

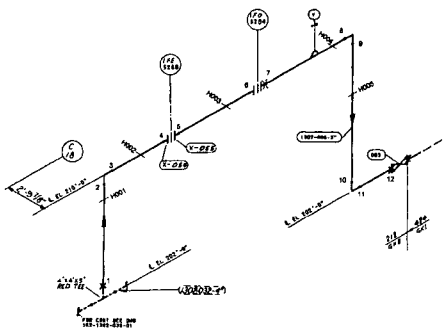


REFERENCES:
1K2-1302-002-01/10

LINE NUMBER:
ISI-11302-085

REVISION	DATE	REVISION 1	DATE 4-8-09	SOUTHERN COMPANY SERVICES, INC FOR GEORGIA POWER COMPANY	
		INITIAL ISSUE		VOGTLE ELECTRIC GENERATING PLANT UNIT 1 - LINE NO. 085 INSERVICE INSPECTION ISOMETRIC AUXILIARY FEEDWATER - SYSTEM 1302	
				DESIGNED / DRAWN / CHECKED	

BY	DATE	APPR. 1	APPR. 1	APPR. 1	APPR. 1	APPR. 1	BY	DATE	APPR. 1	APPR. 1	APPR. 1	APPR. 1	APPR. 1	SCALE	SHEET	PROJECT ID	DRAWING NUMBER	REV
							SM	JMA	DMS					NONE	1 OF 1		ISI-11302-085	1



REFERENCES:
1K2-1302-003-01/13

LINE NUMBER:
ISI-11302-086

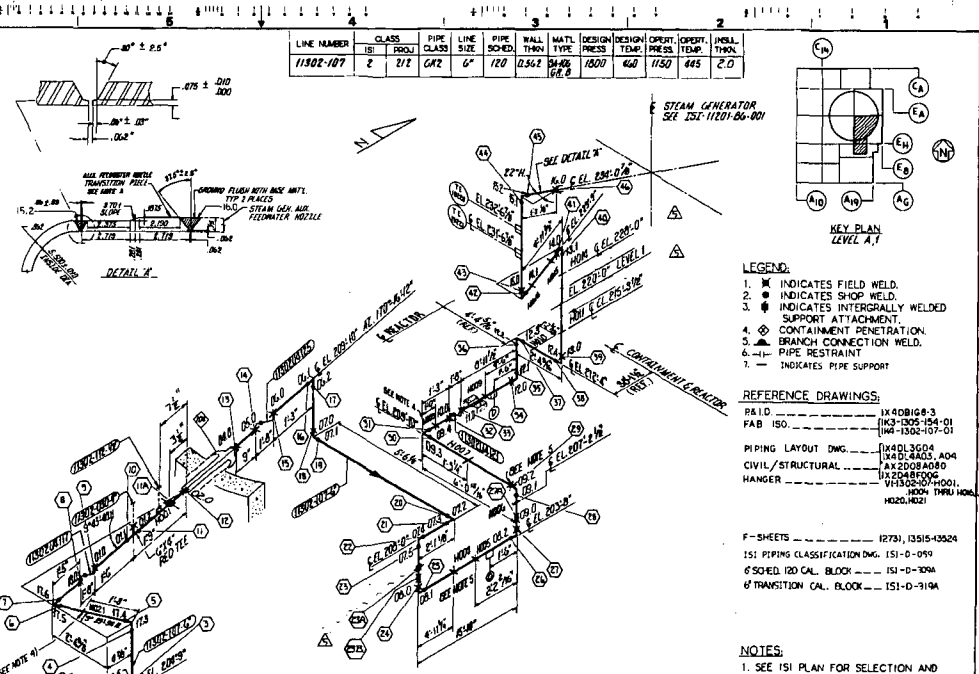
SOUTHERN COMPANY SERVICES, INC			
GEORGIA POWER COMPANY			
VOGTLE ELECTRIC GENERATING PLANT UNIT 1 - LINE NO. 086 INSERVICE INSPECTION ISOMETRIC AUXILIARY FEEDWATER - SYSTEM 1302			
DESIGNED	DRAWN	CHECKED	
SM	JMA	DMB	
SCALE	SHEET	PROJECT ID	DRAWING NUMBER	REV
NONE	1 OF 1		ISI-11302-086	1

REVISION	DATE	REVISION	DATE
		1	4-9-02
		INITIAL ISSUE	

BY	CHKD	APPR. 1	APPR. 1	APPR. 1	APPR. 1	APPR. 1	BY	CHKD	APPR. 1	APPR. 1	APPR. 1	APPR. 1	APPR. 1
							SM	JMA	DMB				

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	VOL.	SURF.	VT1	VT2	VT3	VT4
1302FHV015196	CONTROL VALVE	CONTROL VALVE	—	—	—	—	F7.80 F7.80	—	—
1302FU4117	PIPE SUP.		—	—	—	—	—	—	—
1302FU4125			—	—	—	—	—	—	—
1302FU4121			—	—	—	—	—	—	—
1302-107-W11A	NO. 1 SG TRIP	—	—	—	—	—	—	—	—
1302-107-W23A		—	—	—	—	—	—	—	—
VI-1302-107-H001	E DEK RESTRAINT	LINEAR SUPPORT	DWG-0009-1	—	—	—	—	F2.85 F2.30	—
H004	E-WED RESTRAINT	LINEAR SUPPORT		—	—	—	—	F2.70 F2.80	—
H005	E-RESTRAINT			—	—	—	—	—	—
H006	WELD STUD	COMPONENT SUPPORT		—	—	—	—	F1.80 F1.80	—
H008				—	—	—	—	—	—
H020	L-BAR RESTRAINT	LINEAR SUPPORT		—	—	—	—	F1.70 F1.70	—
H011	WELDED NUMBER	COMPONENT SUPPORT		—	—	—	—	F2.80 F2.80	F3.80
H013				—	—	—	—	—	—
H014				—	—	—	—	—	—
H015	SUPPORT SUPPORT			—	—	—	—	—	—
H016	SUPPORT SUPPORT			—	—	—	—	—	—
H021	SUPPORT SUPPORT			—	—	—	—	—	—
H001	WELD STUD			—	—	—	—	—	—
H010	WELD NUMBER			—	—	—	—	—	F3.80
H012				—	—	—	—	—	—
H020				—	—	—	—	F3.80 F3.80	—
1302-107-W23B	B.W.	CIRC. WELD	DWG-2500-7	C5.21	C5.21	—	C5.81 C5.81	—	—
-W27A									—
1302-107-W01.0	B.W.	CIRC. WELD	DWG-2500-7	C5.21	C5.21	—	C5.81 C5.81	—	—
W01.1								—	—
W01.2								—	—
W02.0								—	—
W04.0								—	—
W05.0								—	—
W06.0	B.W.	CIRC. WELD	DWG-2500-7	C5.21	C5.21	—	C5.81 C5.81	—	—
W06.1								—	—
W06.2								—	—
W07.0								—	—
W07.1								—	—
W07.2								—	—
W07.3								—	—
W07.4								—	—
W07.5								—	—
W08.0								—	—
W08.1								—	—
W08.2								—	—
W09.0								—	—
W09.1								—	—
W09.2								—	—
W09.3								—	—
W09.4								—	—
W10.0								—	—
W11.0								—	—
W12.0								—	—
W12.1								—	—
W12.2								—	—
W12.3								—	—
W12.4								—	—
W13.0								—	—
W13.1								—	—
W14.0								—	—
W14.1								—	—
W15.0								—	—
W15.1								—	—
W15.2								—	—
W16.0								—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11302-107	2	2/2	CM2	6"	120	0.562	SA-106 GR. B	1800	650	1150	445	2.0



EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	VOL.	SURF.	VT1	VT2	VT3	VT4
11302-107-W17.0	B.W.	CIRC. WELD	DWG-2500-7	C5.21	C5.21	—	C5.81 C5.81	—	—
W17.1							—	—	—
W17.2							—	—
W17.3							—	—
W17.4							—	—
W17.5							—	—
W17.6							—	—
W18.0							—	—

LEGEND:
1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ⊥ BRANCH CONNECTION WELD.
6. ⊣⊢ PIPE RESTRAINT
7. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:
P&I.D. — 1X4DB168-3
FAB ISO. — 1K3-1305-154-01, 1K4-1302-107-01
PIPING LAYOUT DWG. — 1X4DL3G04, 1X4DL6A03, A04
CIVIL/STRUCTURAL — AX2D08A080
HANGER — 1X2D48F006, VI-1302-07-H001, H004 THRU H016, H020, H021

F-SHEETS — 12731, 13515-13524
ISI PIPING CLASSIFICATION DWG. ISI-D-059
6" SCHED. 120 CAL. BLOCK — ISI-D-309A
6" TRANSITION CAL. BLOCK — ISI-D-319A

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)
3. SPECIAL TRANSITION PIECE MATL. SA-105.
4. HANGER MUST BE REMOVED FOR WELD INSPECTION.
5. THESE PIPE WELDS ARE NUMBERED ON REFERENCE F&B ISOMETRIC DWG. AS FOLLOWS: W112 - W05A, W08.1 - W08A, W092 - W098

REVISION	DATE	
3	11-16-85	ADDED HANGER H021 REMOVED HANGERS H003 AND H019
5	5/22/91	DELETED HANGERS H012, H013 AND H020 PER DCP 87-V1A0426, VOIDED WELD LIST
6	8-14-92	ADDED WELD 23A. RELOCATED H001; ADDED WELD W14. CHANGED H001 TYPE. REMOVED H006. ADDED WELDS 23B AND 23A ELEVATION 203'-8" WAS 206'-0"
8	6-27-94	ISSUED FOR INSPECTION

Southern Company Services, Inc.

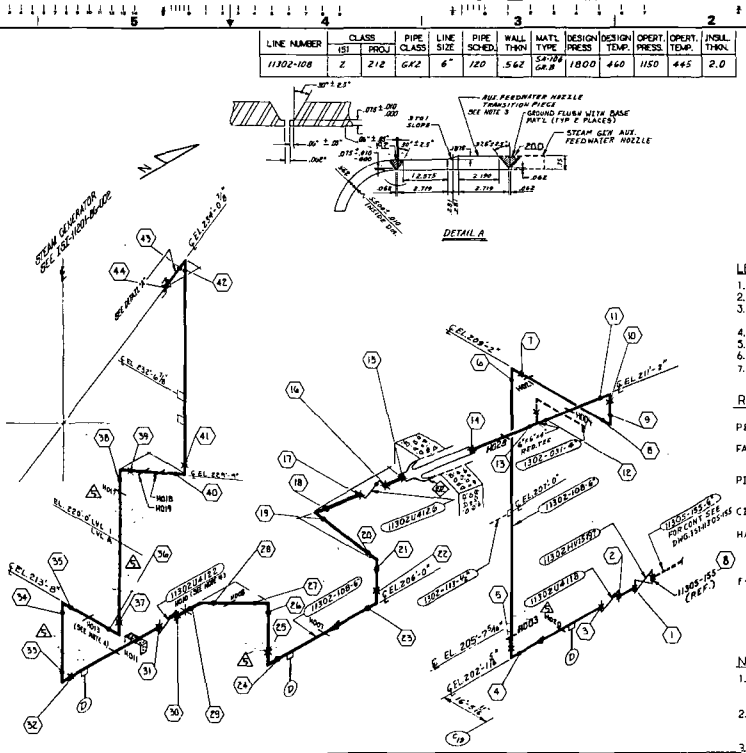
GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 107
INSERVICE INSPECTION ISOMETRIC
AUXILIARY FEEDWATER SYSTEM 1302

DESIGNED FT | DRAWN CSB | CHECKED WS
SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-11302-107 | REV 5

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11302-V-15197	CONTROL VALVE	PRESS. RETN. COMPONENT	—	—	—	—	C7.40 C7.41	—	—
11302-V-4118	CHECK VALVE		—	—	—	—	—	—	—
11302-V-4126			—	—	—	—	—	—	—
11302-V-4122			—	—	—	—	—	—	—
VI-1302-108-H003	MECHANICAL SNUBBER	COMPONENT SUPPORT	TWF-1500-1	—	—	—	—	F3.50 F3.60 F3.70	F3.50
H006	VARIABLE SPRING 2-DIR. RESTRAINT	COMPONENT SUPPORT LINEAR SUPPORT (COMPONENT SUPPORT)	TWF-1500-1	—	—	—	—	F3.50 F3.60 F3.70	F3.50
H007	RIGID RESTRAINT			—	—	—	—	F3.50 F3.60 F3.70	—
H008	RIGID RESTRAINT			—	—	—	—	F3.50 F3.60 F3.70	—
H021	VARIABLE SPRING			—	—	—	—		F3.50
H010	MECH. SNUBBER			—	—	—	—		
H011	RIGID RESTRAINT			—	—	—	—		—
H012	MECH. SNUBBER			—	—	—	—	F3.70 F3.70.60	F3.50
H013				—	—	—	—	F3.60 F3.70 F3.70.60	
H014				—	—	—	—		
H015				—	—	—	—		
H016				—	—	—	—		
H017				—	—	—	—		
H018	CONSTANT SUPPORT MECH. SNUBBER			—	—	—	—		
H019				—	—	—	—		
11302-108-W04.0	B.W.	CIRC. WELD	ASME-2500-7	C5.21	C5.21	—	C7.10 C7.42	—	—
W02.0			ASME-2500-7				—	—	—
W03.0							—	—	—
W03.1							—	—	—
W04.0							—	—	—
W04.1							—	—	—
W05.0							—	—	—
W05.1							—	—	—
W05.2							—	—	—
W06.0							—	—	—
W06.1							—	—	—
W06.2							—	—	—
W06.3							—	—	—
W09.0	B.W.	CIRC. WELD	ASME-2500-7	C5.21	C5.21	—	C7.20 C7.21	—	—
W09.0							—	—	—
W10.0							—	—	—
W11.0							—	—	—
W11.1							—	—	—
W11.2							—	—	—
W11.3			ASME-2500-7				—	—	—
W11.4							—	—	—
W12.0							—	—	—
W12.1							—	—	—
W12.2							—	—	—
W13.0							—	—	—
W13.1							—	—	—
W13.2							—	—	—
W13.3							—	—	—
W13.4							—	—	—
W14.0							—	—	—
W15.0							—	—	—
W15.1							—	—	—
W16.0							—	—	—
W16.1							—	—	—
W16.2							—	—	—
W16.3							—	—	—
W16.4							—	—	—
W17.0							—	—	—
W17.1							—	—	—
W18.0							—	—	—
W18.1							—	—	—
W19.0							—	—	—

LINE NUMBER	CLASS (S1)	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11302-108	2	212	GR2	6"	120	.562	SA-106 GR.B	1800	460	1150	445	2.0



LEGEND:

1. ⊠ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ♦ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ◇ CONTAINMENT PENETRATION.
5. ⌒ BRANCH CONNECTION WELD.
6. ⊣⊢ PIPE RESTRAINT
7. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID _____ IX4DB168-3
FAR ISO _____ IK2-1305-155-01/11, IX4-1302-108-01/14
PIPING DWG. LAYOUT _____ IX4DL4B03, IX4DL2E03
CIVIL/STRUCTURAL _____ AX2D11A013, IX2DH6F002
HANGER DETAIL DWG. _____ VI-1302-108-H009; H006 THRU H022; H025; H028
F-SHEETS _____ F-12501 THRU F-12505, F-13525 THRU F-13533

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.Q.)
3. SPECIAL TRANSITION PIECE MAT'L SA-105
4. HANGER MUST BE REMOVED FOR WELD INSPECTION.

REVISION	DATE	DESCRIPTION	BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5
3	11-16-85	REMOVED HANGER H001, H002, H006 AND H009 ADDED HANGER H026 AND H027 CHANGED DIMENSIONS AND INSULATION THICKNESS	EJO	WS	CWB				
2	4-2-85	ADDED HANGERS H020 THRU H022, H025 AND H028 REMOVED HANGER H004 AND WELD W07.0	BAS	WS	CWB				
4	5-28-87	GENERAL REVISION TO UPDATE DRAWING FOR ISI	DGW	RLB	DGC				
5	5/23/91	DELETED HANGER H022 PER R.C.A. 91-004 DELETED HANGERS H012, H014, H015, H016 AND H028 PER DCP 87-V1A0487.	WGS	WS	WEW				
0	6-27-84	ISSUED FOR INSPECTION	BAS	WS	BF				

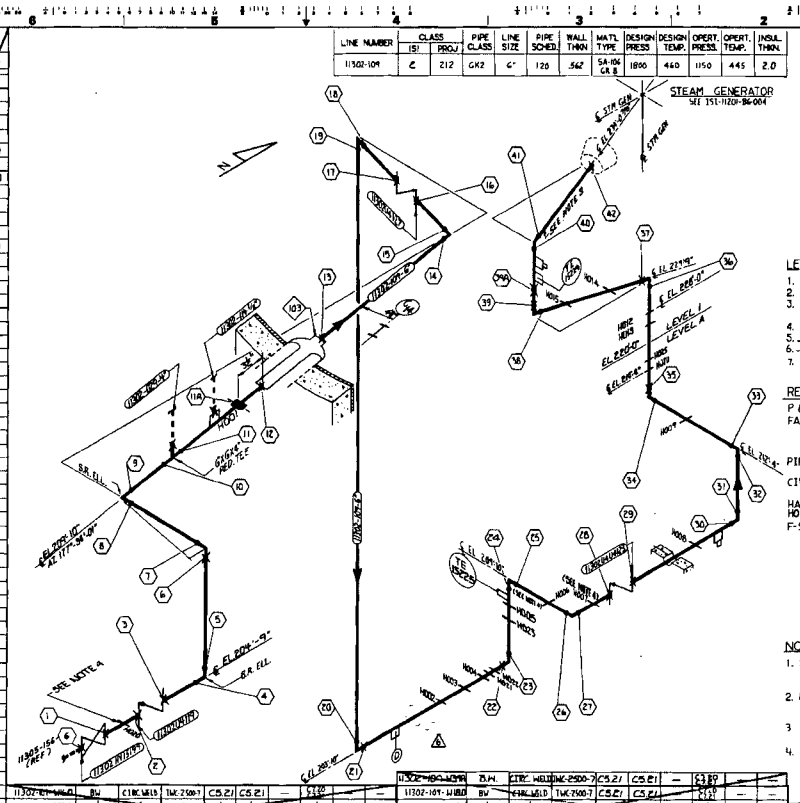
Southern Company Services, Inc.
FOR
GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 108
INSERVICE INSPECTION ISOMETRIC
AUX. FEEDWATER-SYSTEM 1302

DESIGNED FT | DRAWN RSG | CHECKED WS
SCALE NONE | PROJECT ID | DRAWING NUMBER ISI-11302-108 | REV. 5

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)		EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11302V015199	GATE VALVE	PRESS. BDY COMPONENT		—	—	—	—	V-40 CLAT	—	—
11302V04119	CHECK VALVE			—	—	—	—	—	—	—
11302V04123				—	—	—	—	—	—	—
11302L04127				—	—	—	—	—	—	—
VI-1302-109-H004	S. PART REQUIRED	STANDARD SUPPORT	IWF-2000-1	—	—	—	—	—	FR 18 FR 19	—
H005	MECHANICAL SNUBBER	COMPONENT SUPPORT		—	—	—	—	—	STRUCTURAL WELDING	F350
H007	RIGID STRUT	LINE PIPE SUPPORT		—	—	—	—	—	F350	—
H009	RIGID STRUT	COMPONENT SUPPORT		—	—	—	—	—	STRUCTURAL WELDING	F350
H005	RIGID STRUT			—	—	—	—	—	STRUCTURAL WELDING	—
H006				—	—	—	—			
H007				—	—	—	—			—
H008				—	—	—	—			
H009	MECHANICAL SNUBBER			—	—	—	—	—		F350
H010				—	—	—	—	—		
H025				—	—	—	—	—		
H012				—	—	—	—	—		
H013				—	—	—	—	—		
H014	VERTICAL SNUBBER			—	—	—	—	—		
H015	MECHANICAL SNUBBER			—	—	—	—	—		
H016	RIGID STRUT			—	—	—	—	—		—
H017	VERTICAL SNUBBER			—	—	—	—	—		F350
H020				—	—	—	—	—		
11302-109 - H001.0	B.M.	CIRC. WELD	IWC-2500-7	C5.21	C5.21	—	—	S.B. C.P.	—	—
H001.1							—		—	—
H001.2							—		—	—
H002.0							—		—	—
W040			IWC 2500-7				—		—	—
W050			IWC 2500-7	C5.21	C5.21		—		—	—
W060			IWC 2500-7				—		—	—
W061							—		—	—
W062							—		—	—
W063							—		—	—
W064							—		—	—
W065							—		—	—
W070			IWC 2500-7	C5.21	C5.21		—		—	—
W080							—		—	—
W081							—		—	—
W082							—		—	—
W083							—		—	—
W084							—		—	—
W085							—		—	—
W090							—		—	—
W100							—		—	—
W101							—		—	—
W102							—		—	—
W103							—		—	—
W104							—		—	—
W105							—		—	—
W110							—		—	—
W111							—		—	—
W120							—		—	—
W121							—		—	—
W130							—		—	—
W131							—		—	—
W132							—		—	—
W140							—		—	—
11A	NO. 3 & 4 REQUIRED		—	—						
VI-1302-109-H021	RIGID STRUT	COMPONENT SUPPORT	IWF-2000-1							
H022	MECHANICAL SNUBBER									
H023										

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11302-109	C	212	GK2	6"	120	.562	SA-106 GR B	1896	460	1150	445	2.0



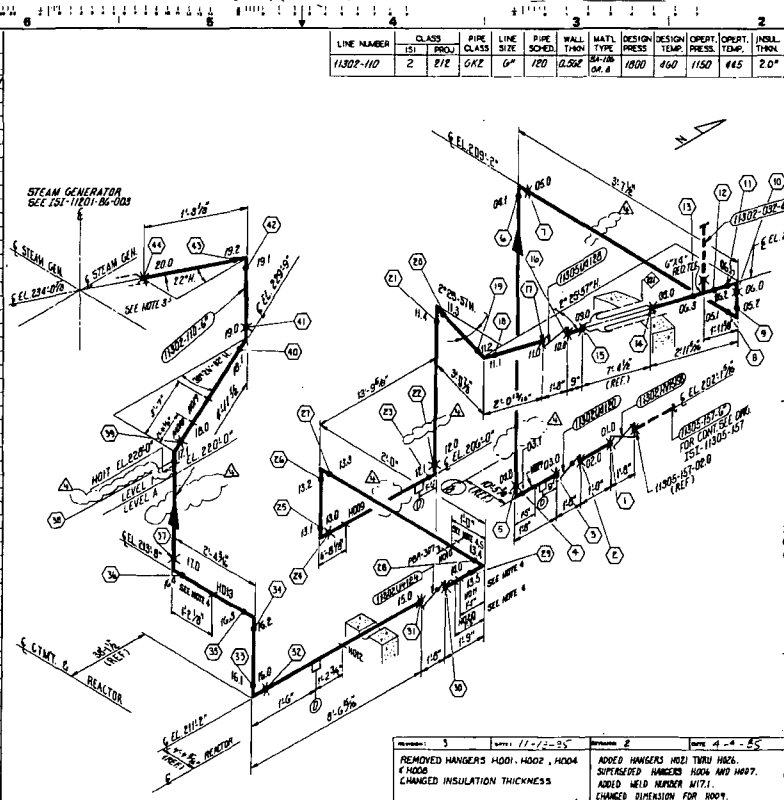
REVISION 5	REVISION 6	REVISION 4 CONT.	REVISION 4	REVISION 0
DATE 9-28-87	DATE 5/23/91	DATE 8-17-94	DATE 1-4-...	DATE
GENERAL REVISION TO UPDATE DRAWING FOR ISI	HANGER H017 DELETED PER RCR. 91-004	PUT H005 BACK ON. TOOK H004 BACK OFF. PLUGGED TOP TE AND RELOCATED REJUMBERED LOWER TE.	RELOCATED H001. IT IS NOW INTEGRALLY WELDED ATTACHMENT. ADDED WELD = 11A. REVISED HANGER AND WELD LIST. ADDED WELD 39A.	ISSUED FOR INSPECTION
BY DGW / CHK'D RLB / APPR'D JC	BY WJG / CHK'D WS / APPR'D WLV	BY BJT / CHK'D WJS / APPR'D C.F.	BY BJT / CHK'D WS / APPR'D C.F.	BY BGJ

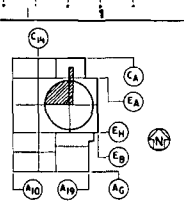
Southern Company Services, Inc.
GEORGIA POWER COMPANY
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 109
INSERVICE INSPECTION ISOMETRIC
AUXILIARY FEEDWATER-SYSTEM 1302

DESIGNED FT | DRAWN DRC | CHECKED WS
SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI-11302-109 | REV 6

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)		EXAM. REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
1020412E4	CONTROL VALVE	CONTROL VALVE COMPONENT		—	—	—	—	E.E. 3.1	—	—
3020412E8				—	—	—	—		—	—
11302H04129				—	—	—	—		—	—
11302HV15198	CONTROL VALVE			—	—	—	—		—	—
H003	MECHANICAL SNUBBER	COMPONENT SUPPORT	IWF-1300-1	—	—	—	—	F3.50	F3.50	
H009	RIGID STRUT	COMPONENT SUPPORT	IWF-1300-1	—	—	—	—	F3.50	F3.50	
H010	RIGID STRUT	COMPONENT SUPPORT		—	—	—	—	F3.50	F3.50	
H011	RIGID STRUT	COMPONENT SUPPORT		—	—	—	—	F3.50	F3.50	
H012	RIGID STRUT			—	—	—	—	F3.50		
H013	SNUBBER			—	—	—	—			F3.00
H014				—	—	—	—			
H015				—	—	—	—			
H016				—	—	—	—			
H017				—	—	—	—			
H018	COMPONENT SUPPORT			—	—	—	—			
H019	RIGID STRUT			—	—	—	—			
H020	RIGID STRUT			—	—	—	—			
11302-110-W101.0	B.W.		1.WC-2580-1	C5.21	C5.21	—	E.E. 3.1	E.E. 3.1	—	—
W102.0									—	—
W103.0									—	—
W103.1									—	—
W104.0									—	—
W104.1									—	—
W105.0									—	—
W106.1									—	—
W106.2									—	—
W106.0									—	—
W106.1									—	—
W106.2									—	—
W106.3									—	—
W108.0									—	—
W109.0									—	—
W110.0									—	—
W111.0									—	—
W111.1									—	—
W111.2									—	—
W111.3									—	—
W111.4									—	—
W112.0									—	—
W112.1									—	—
W113.0									—	—
W113.1									—	—
W113.2									—	—
W113.3									—	—
W113.4									—	—
W113.5									—	—
W114.0									—	—
W115.0									—	—
W116.0									—	—
W116.1									—	—
W116.2									—	—
W116.3									—	—
W116.4									—	—
W117.0									—	—
W117.1									—	—
W118.0									—	—
W118.1									—	—
11302-110-W119.0	B.W.		1.WC-2580-1	C5.21	C5.21	—	—	E.E. 3.1	—	—
11302-110-W119.1									—	—
11302-110-W119.2									—	—
11302-110-W120.0									—	—
W-11302-110-H021	MECHANICAL SNUBBER	COMPONENT SUPPORT	IWF-1300-1	—	—	—	—	F3.50	F3.50	
H022	RIGIDS WITH MECH. SNUBBER			—	—	—	—			
H023				—	—	—	—			
H024				—	—	—	—			
H025				—	—	—	—			
H026	VARIABLE SPRING			—	—	—	—			

LINE NUMBER	CLASS 1SI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL THKN.
11302-110	2	2/2	GKZ	6"	120	0.562	SA-106 GR. A	1800	460	1150	445	2.0"





LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ● INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT.
7. — INDICATES PIPE SUPPORT.

REFERENCE DRAWINGS:

P&I.D. — 1X4DB168-3
FAB ISO. — 1X4-1302-110-01, 1X2-1305-157-01
PIPING-LAYOUT DWG. — 1X4DL2C03
CIVIL/STRUCTURAL — 1X1D40F006, A1207H003
HANGER DETAIL DWG. — V-11302-110-H003, H009 THRU H026
F-SHEETS. — F-13534,6,6,7,8,9; F-13540,41,42
1SI CLASSIFICATION DWG. — 1S1-D-059
6" SCHED. 120 CAL. BLOCK — 1S1-D-309A
6" TRANSITION CAL. BLOCK — 1S1-D-919A

NOTES:

1. SEE 1S1 PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (UNO)
3. SEE DETAIL "A" 1S1-11302-107 FOR TRANSITION PIECE DETAIL, MATL SA-105.
4. HANGER MUST BE REMOVED FOR WELD INSPECTION.
5. PIPE SUPPORT H010 ALSO FUNCTIONS AS PIPE WHIP RESTRAINT PBR-907.

REVISION: 3	DATE: 11-12-85	REVISION: 2	DATE: 4-4-85
REMOVED HANGERS H001, H002, H004 & H008. CHANGED INSULATION THICKNESS		ADDED HANGERS H021 THRU H026. SUPERSEDED HANGERS H004 AND H007. ADDED WELD NUMBER W17.1. CHANGED DIMENSION FOR H009.	
BY: EJO; CHK'D: WJS; APPR.1: C.O.; APPR.2: APPR.3: APPR.4: APPR.5:		BY: BGS; CHK'D: WJS; APPR.1: C-O; APPR.2: APPR.3: APPR.4: APPR.5:	
REVISION: 1	DATE: 5/12/81	REVISION: 0	DATE:
DELETED HANGERS H002, H003, H005 AND H006 PER PCR 81-004. VOIDED WELD LIST DELETED NUMBERS W109, W110, W114, W121 AND W123 PER DCP 81 W140429		ISSUED FOR INSPECTION	
BY: WJS; CHK'D: WJS; APPR.1: WJW; APPR.2: APPR.3: APPR.4: APPR.5:		BY: LLA; CHK'D: WL; APPR.1: JF; APPR.2: APPR.3: APPR.4: APPR.5:	

Southern Company Services, Inc.

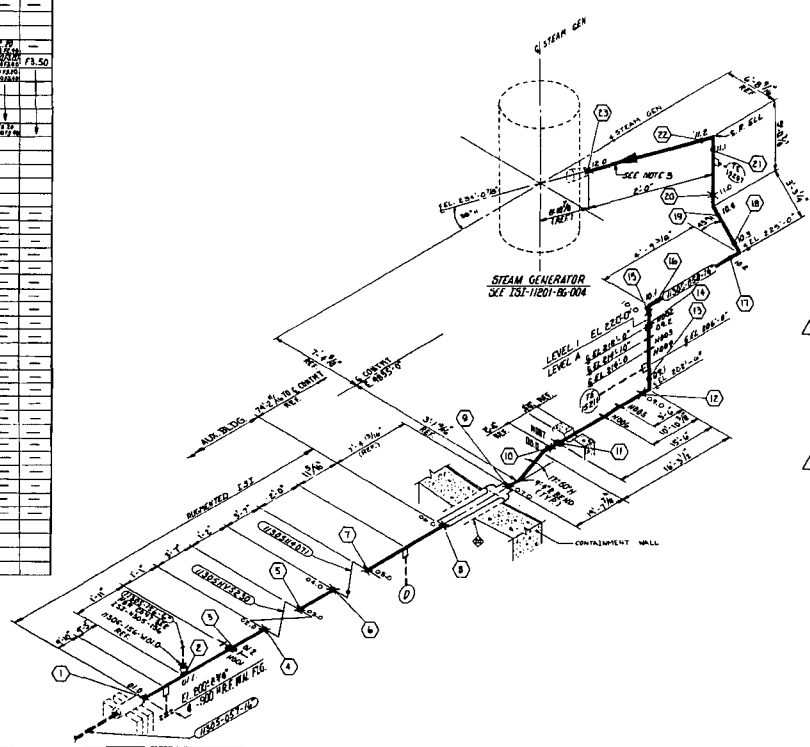
GEORGIA POWER COMPANY

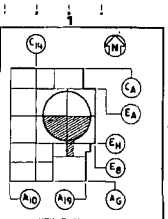
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 110
INSERVICE INSPECTION ISOMETRIC
AUXILIARY FEEDWATER-SYSTEM 1302

DESIGNED: J.T. DRAWN: C.B. CHECKED: N.S.
SCALE: NONE
1S1-11302-110 REV. 4

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN.	MAT'L TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS	OPERT. TEMP.	INSUL. THKN.
11305-058	E8 AUGM	ZIZ	GKE	16"	120	1.219	SA-106 GR. B	1800	440	1150	445	2.0

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM. PROCEDURE-MENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11305U4071	CHECK VALVE	PRESSURE RET. COMP.	—	—	—	—	C5.40 C3.41	—	—
11305HV5E30	CONT. VALVE	↓	—	—	—	—	↓	—	—
W-1305-058-H001	3"-DIA. HYDRAULIC SNUBBER	LINEAR SUPPORT COMPONENT SUPPORT	SWF-1300-1	—	—	—	—	F2.10 F2.20 F2.30 F3.30 F3.40 F3.50	—
H002	CONSTANT SPRING			—	—	—	—		F3.50
H003	MECH. SNUBBER			—	—	—	—	F3.40 F3.50 F3.60	
H004	↓			—	—	—	—		
H005				—	—	—	—		
H006				—	—	—	—	↓	
H007	VARIABLE SPRING	↓	↓	—	—	—	—	F3.30 F3.50 F3.60	↓
11305-058-W01.0	B.W.	CIRC. WELD	SWC-2500-7	MT C5.81	C5.21	—	C1.20 C1.21	—	—
W01.1	FULL PEN. WELD	BRACKET	SWC-2500-11	—	C5.31	—	C1.20 C1.21	—	—
W01.2	FILLET WELD	FIRST WELD SUPPORTING	SWC-2500-8	—	C3.10	—	—	—	—
W02.0	B.W.	CIRC. WELD	SWC-2500-7	MT C5.81	C5.21	—	C1.20 C1.21	—	—
W03.0						—		—	—
W04.0						—		—	—
W05.0						—		—	—
W06.0						—		—	—
W07.0					C5.21	—		—	—
W08.0	↓	↓	SWC-2500-7	C5.21	C5.21	—	↓	—	—
W09.0	B.W.	CIRC. WELD	SWC-2500-7	C5.81	C5.21	—	C1.20 C1.21	—	—
W09.1	B.W.	CIRC. WELD	SWC-2500-7	C5.81	C5.21	—	C1.20 C1.21	—	—
W09.2	FILLET WELD	INT. WELD SUPPORTING	SWC-2500-5	—	C5.40	—	—	—	—
W10.0	B.W.	CIRC. WELD	SWC-2500-7	C5.21	C5.21	—	C1.20 C1.21	—	—
W10.1						—		—	—
W10.2						—		—	—
W10.3						—		—	—
W10.4						—		—	—
W11.0						—		—	—
W11.1						—		—	—
W11.2						—		—	—
W12.0	↓	↓	↓	↓	↓	—	↓	—	—





LEGEND:
1. ✕ INDICATES FIELD WELD.
2. ⊕ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
3. • INDICATES SHOP WELD.
4. ◇ INDICATES CONTAINMENT PENETRATION NO.
5. ⊣⊢ INDICATES PIPE RESTRAINT.
6. ⌒ INDICATES BRANCH CONNECTION WELD.
7. — INDICATES PIPE SUPPORT.

REFERENCE DRAWINGS:

2 P & ID ____ 1X4DB168-3
FAB. ISO. ____ WS-1305-058-01
16" SCHED. 80 CAL. BLK. DWG. 1S1-D-918A
PIPING LAYOUT DWG. ____ 1X4DL4002, 3, 4 & 3G04
CIVIL/STRUCTURAL ____ 1X2D48011
HANGER DETAIL DWGS. ____ V1305-058-H001 THRU H007

PENETRATION DESIGN LIST ____ 1X4DL4413 & 4414
F-SHEETS ____ F-12784 THRU F-12791, F-12801

2 ISI CLASSIFICATION ____ 1S1-D-058
16" SCHED. 80 CAL. BLK. DWG. 1S1-D-918A
16" SCHED. 120 CAL. BLK. DWG. 1S1-D-911A

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. 4X4D4001 APPENDIX D. (UNO)
3. SCHED. 120 PIPE COUNTERBORED TO MATCH SCHED. 80 STEAM GEN. NOZZLE. MAT'L. SA-106 GR. C. - THIS SECTION OF PIPE ONLY.

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION 2	DATE 4-1-85	REVISION 1	DATE 12-7-84	REVISION 0	DATE 5-18-84
						ADDED NEW WELD NO'S REVISED REFERENCES		REVISED REFERENCE DRAWINGS. ADDED LEVELS I AND A. CHANGED AUGMENTED BOUNDARY AND ITEM NUMBERS IN VOL. AND SURF. METHODS.		ISSUED FOR INSPECTION	
BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	8/16 WS KWB		8/7 WS KWB		5/16	

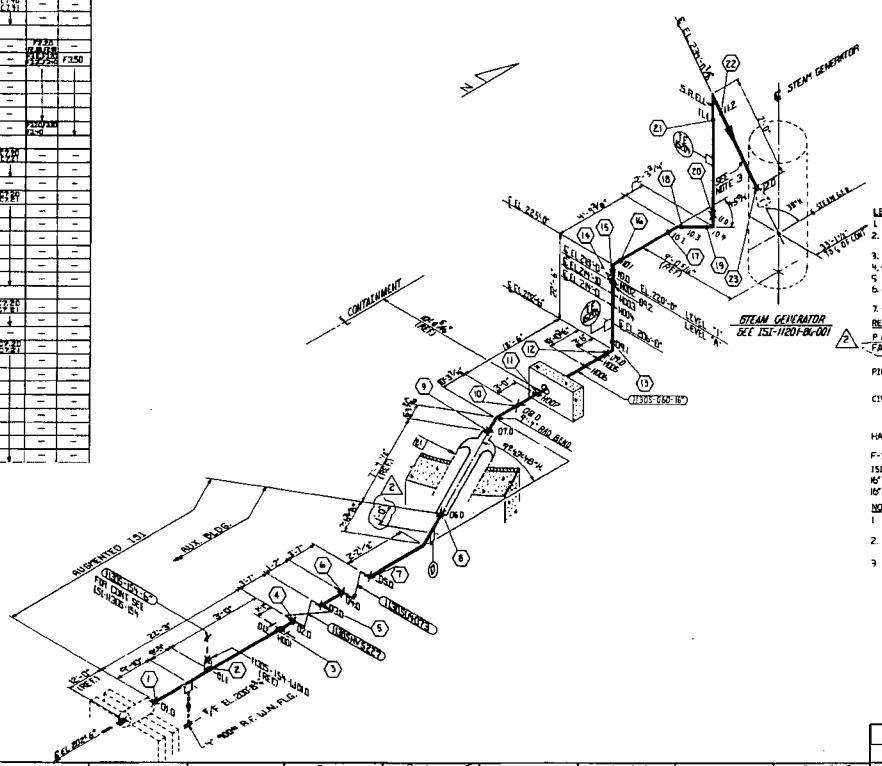
Southern Company Services, Inc.
FOR
Georgia Power Company

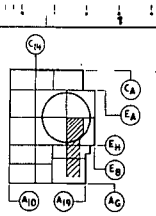
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 058
INSERVICE INSPECTION ISOMETRIC
FEEDWATER - SYSTEM 1305

DESIGNED FT | DRAWN RSG | CHECKED WS
SCALE NONE | PROJECT NO. | DRAWING NUMBER 1S1-11305-058 | REV 2

EQUIPMENT OR WELD IDENTIFICATION NO.	WELD OR EQUIP. DESCRIP.	PART EXAMINED SEE NOTE NO. 0	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL	SURF.	VT1	VT2	VT3	VT4
11305HV5227	CONTROL VALVE CHECK VALVE	PIPES REF. CARDINALS	—	—	—	—	C7.40 C7.31	—	—
1190501073				—	—	—		—	—
VT-1305-060-H001	2-WAY RESTRAINT	LINEAR SUPPORT	SUF-060-1	—	—	—	—	F7.35	—
H002	CONSTANT SPRING	COMPONENT SUPPORT		—	—	—	—	F2.20 F2.30	
H003	MECHANICAL SNUBBER			—	—	—	—	F2.20	F3.50
H004				—	—	—	—		
H005				—	—	—	—		
H006				—	—	—	—		
H007	VARIABLE SPRING			—	—	—	—	F2.20/3.30 F2.40	
11305-060-W016	BUTTWELD	CIRC. WELD	IUC-2500-7	ADV. C6.21	C5.21	—	C7.40 C7.31	—	—
W001	FILLET WELD	BRANCH CONN. LATER.	IUC-2500-14	—	C5.31	—		—	—
W002	FILLET WELD	ENT. NOZZ. ATTACH.	IUC-2500-5	—	C3.40	—	—	—	—
W003	BUTTWELD	CIRC. WELD	IUC-2500-7	ADV. C6.21	C5.21	—	C7.20 C7.31	—	—
W004						—		—	—
W005						—		—	—
W006						—		—	—
W007						—		—	—
W008						—		—	—
W009						—		—	—
W010	BUTTWELD	CIRC. WELD	IUC-2500-7	C5.21	C5.21	—	C7.20 C7.31	—	—
W011						—		—	—
W012	FILLET WELD	ENT. NOZZ. ATTACH.	IUC-2500-5	—	C3.40	—	—	—	—
W013	BUTTWELD	CIRC. WELD	IUC-2500-7	C5.21	C5.21	—	C7.20 C7.31	—	—
W014						—		—	—
W015						—		—	—
W016						—		—	—
W017						—		—	—
W018						—		—	—
W019						—		—	—
W020						—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED	WALL THKN.	MATL TYPE	DESIGN PRESS	DESIGN TEMP	OPERT PRESS.	OPERT. TEMP	INSUL. THKN.
11305-060	2 & NO6M	2I2	6K2	16"	120	1.219	SA-106 GR. B	1800	460	1150	445	2.0"





LEGEND:
1. ✕ INDICATES FIELD WELD.
2. ⊕ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT
3. ● INDICATES SHOP WELD.
4. ▲ INDICATES BRANCH CONNECTION WELD.
5. ⊥ INDICATES PIPE RESTRAINT
6. ⊗ INDICATES CONTAINMENT PENETRATION NUMBER
7. — INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:
P & ID 1X4DB608-3
(FAB) ISO 1X5-1305-058-01
PIPING LAYOUT DWG. ..... 1X4DL3604, 1X4DL4404, 1X4DL4403 & 1X4DL4402
CIVIL/STRUCTURAL 1X2D4B4009, A012 AX2D09A080 1X2D4B0008, F010 AX2D08F085
HANGER DETAIL DWG. ..... VI-1305-060-H001 THRU H007
F-SHEETS ..... F-12792 THRU F-12800
ISI CLASSIFICATION DW. 1SI-D-058
16" SCHED. 120 CAL. BLOCK 1SI-D-911A
16" SCHED. 80 CAL. BLOCK 1SI-D-916A

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP SEE BECHTEL DWG AX4DR001 APPENDIX D (UNO)
3. SCHED. 120 PIPE COUNTER BORED TO MATCH SCHED. 80 STEAM GEN. NOZZLE. MAT'L. SA-106 GR. C. THIS SECTION OF PIPE ONLY.

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
						2	3-30-85	1	12-7-84	0	5-15-84
						ADDED NEW WELD NO'S REVISED REFERENCES REVISED DIMENSION REVISED EQUIPMENT IDENTIFICATION NO.		CHANGED AUGMENTED BOUNDARY REVISED EXAM. METHODS & ADDED 16" SCHED. 80 CAL. BLOCK		ISSUED FOR INSPECTION	
						BY BGS CHK'D WS APPD 1 CWB		BY BGS CHK'D WS APPD 1 CWB		BY BGS CHK'D WS APPD 1	

Southern Company Services, Inc.

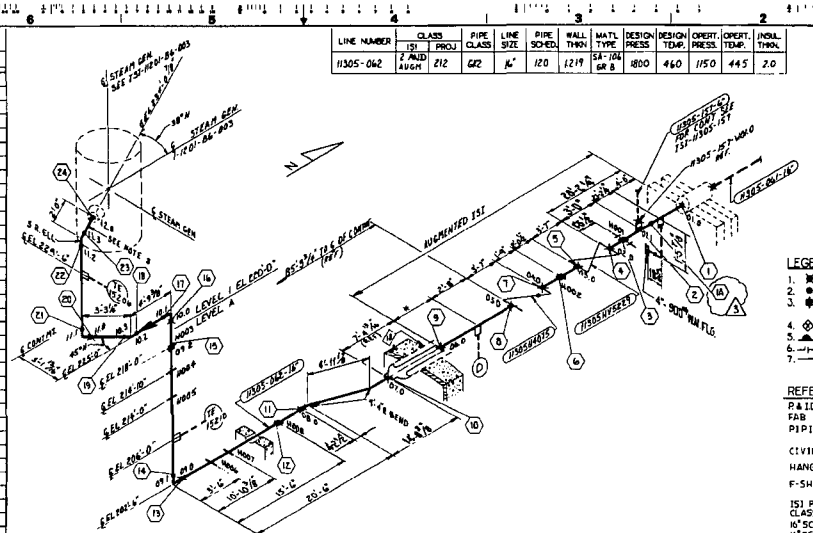
Georgia Power Company

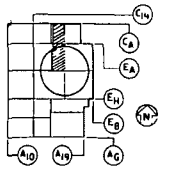
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 060
INSERVICE INSPECTION ISOMETRIC
FEEDWATER SYSTEM-1305

DRAWN FT DRAWN TMW CHECKED US
SCALE NONE
DRAWING NUMBER 1SI-1305-060 REV 2

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
11305V4015	GATE VALVE	PIPEWELD BUTT CONNECT	—	—	—	—	C7.40 C7.51	—	—
11305V5229	GATE VALVE	PIPEWELD BUTT CONNECT	—	—	—	—	C7.40 C7.51	—	—
11305-062-H001	2-DIR RESTRAINT	LINEAR SUPPORT	IWF-1300-1	—	—	—	—	[illegible] FZ40	—
H002	VERTICAL SPRING	CONTRACT ATTACH		—	—	—	—	F3.10 F3.11	F550
H003	CONSTANT SPRING	PIPE		—	—	—	—	F3.10 F3.11	
H004	ANCHOR	PIPE		—	—	—	—	F3.10 F3.11	
H005	RIGID RESTRAINT	PIPE		—	—	—	—	F3.10 F3.11	
H006	RIGID RESTRAINT	PIPE		—	—	—	—	F3.10 F3.11	
H007	RIGID RESTRAINT	PIPE		—	—	—	—	F3.10 F3.11	
H008	VARIABLE SPRING	PIPE		—	—	—	—	F3.10 F3.11	
11305-062-W01.0	BW	CIRC. WELD	IWC-2500-7	PART C5.21	C5.21	—	C7.20 C7.21	—	—
W01.1	PIPE TO SOCKET	SOCKET CONN. WELD	IWC-2500-11	—	C5.31	—	C7.20 C7.21	—	—
W02.0	BW	CIRC. WELD	IWC-2500-7	PART C5.21	C5.21	—	C7.20 C7.21	—	—
W03.0	BW	CIRC. WELD	IWC-2500-7		—	—	C7.20 C7.21	—	—
W04.0	BW	CIRC. WELD	IWC-2500-7	PART C5.21	C5.21	—	C7.20 C7.21	—	—
W05.0						—		—	—
W06.0						—		—	—
W07.0				C5.21	C5.21	—		—	—
W08.0						—		—	—
W09.0	BW	CIRC. WELD	IWC-2500-7	C5.21	C5.21	—	F2.10 C5.51	—	—
W09.1	BW	CIRC. WELD	IWC-2500-7	C5.21	C5.21	—	C5.40 C5.51	—	—
W09.2	FILLET WELD	SOCKET WELD CONN. ATTACH	IWC-2500-5	—	C5.40	—	—	—	—
W10.0	BW	CIRC. WELD	IWC-2500-7	C5.21	C5.21	—	C7.20 C7.21	—	—
W10.1						—		—	—
W10.2						—		—	—
W10.3						—		—	—
W11.0						—		—	—
W11.1						—		—	—
W11.2						—		—	—
W11.3						—		—	—
W12.0						—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11305-062	2 AND AUGM	212	GR2	16"	120	.1219	SA-106 GR B	1800	460	1150	445	2.0





KEY PLAN
LEVEL A&1

LEGEND:

1. ✱ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ◇ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID — — — — — — — IX4DB168-3
FAB ISO. — — — — — — IX5-1305-062-01
PIPING LAYOUT DWG — IX4DL4C02, C03, C04, A03, & IX4DL2E03
CIVIL/STRUCTURAL — IX2DWBF007, A014, & A010
HANGER DETAIL DWG — VF-1305-062-H001 THRU H008
F-SHEETS — — — — — F-1176, 38, F-1276B THRU 72

ISI PIPING CLASSIFICATION DWG — ISI-D-059
16" SCHED 120 CAL. BLOCK — ISI-D-911A
16" SCHED 80 CAL. BLOCK — ISI-D-918A

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O.)
3. SCHED. 120 PIPE COUNTERBORED TO MATCH SCHED. 80 STEAM GEN NOZZLE.

REVISION	DATE	
3	11-14-85	ADDED NEW WELD NO 1A
2	3-30-85	ADDED NEW WELD NUMBERS. REVISED LEGEND. ADDED F2.40 TO H001 (-59 WAS F4). REMOVED WELDS 01C, 031, AND 081 FROM INSPECTION
1	12-7-84	REVISED REFERENCE DRAWINGS. ADDED LEVELS 1 AND A. CHANGED AUGMENTED BOUNDARY AND ITEM NUMBERS IN VOL. AND SURF. METHODS.
0	10-28-83	ISSUED FOR INSPECTION

Southern Company Services, Inc.
FOR
GEORGIA POWER COMPANY

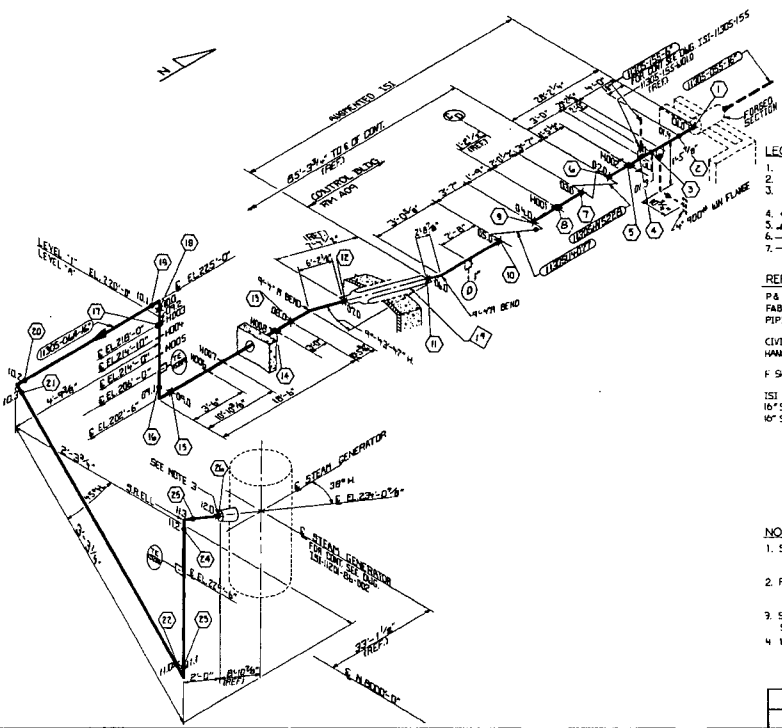
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 062
INSERVICE INSPECTION ISOMETRIC
FEEDWATER-SYSTEM 1305

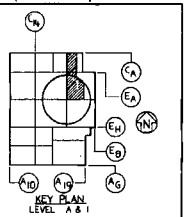
REVISION P1 DRAWN BKG CHECKED WS
SCALE NONE
PROJECT ID
DRAWING NUMBER ISI-11305-062 REV. 3

BY	DATE	APPR 1	APPR 2	APPR 3	APPR 4
EJD	WS	CLR			
BST	WS	CLR			
BST	WS	CLR			
BKG	WS	JP			

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)		EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
1130SHV5228	GATE VALVE	BELLOW SEAL BONNET		—	—	—	—	C7.40 C7.21	—	—
1130SUN077	GATE VALVE			—	—	—	—		—	—
VI-1305-064-H002	8" DIA. RESTRAINT	LINEAR SUPPORT	INF-F1064-1		—	—	—	—	F1.20 F1.20 F1.40	—
H003	CONSTANT SPRING	STANDARD SUPPORT			—	—	—	—	F1.20 F1.20 F1.40	F3.50
H004	MECHANICAL SNUBBER	SUPPORT SUPPORT			—	—	—	—		
H005					—	—	—	—		
H006					—	—	—	—		
H007					—	—	—	—		
H008	VARIABLE SPRING				—	—	—	—	F1.20 F1.20 F3.40	
H001					—	—	—	—		
11305-064-W01.0	BUTT WELD	CIRC. WELD	ASME SEC. III, DIV. 1, CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA	C5.21	C5.21	—	C7.20 C7.21	—	—
W01.1	FILL. PENN. WELD	BRANCH CONN. WELD		—	C1.31	—		—	—
W01.5	BUTT WELD	CIRC. WELD		C5.21	C5.21	—	C7.20 C7.21	—	—
W01.4						—		—	—
W00.0						—		—	—
W03.0						—		—	—
W04.0	BUTT WELD	CIRC. WELD		C5.21	C5.21	—	C7.20 C7.21	—	—
W05.0						—		—	—
W06.0						—		—	—
W07.0					C5.21	—		—	—
W08.0						—		—	—
W09.0	BUTT WELD	CIRC. WELD		C5.21	C5.21	—	C7.20 C7.21	—	—
W09.1						—		—	—
W09.2	FILLET WELD	OVERALL WELD SEAMS			C3.40	—	—	—	—
W10.0	BUTT WELD	CIRC. WELD		C5.21	C5.21	—	C7.20 C7.21	—	—
W10.1						—		—	—
W10.2						—		—	—
W10.3						—		—	—
W11.0						—		—	—
W11.1						—		—	—
W11.2						—		—	—
W11.3						—		—	—
W12.0						—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS.	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11305-064	2 & AUG.	212	GK2	16"	120	1.219	SA-106 GR.B	1600	460	1150	445	2.0"





KEY PLAN
LEVEL A & I

LEGEND:

1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. —|— PIPE RESTRAINT
7. —— INDICATES PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID _____ 1X4DB168-3
FAB ISO. _____ M5-1305-062-02
PIPING LAYOUT DWG. _____ 0X4DL4802.03,04 & 0X4DL2E09
CIVIL/STRUCTURAL _____ AX2D11A019, F019
HANGER DETAIL DWG. _____ VI-1305-064-H001 THRU H008
F SHEETS _____ F-1114.2, F-1144, F-1277.3 F-1277.4, 75, 76, 77
ISI CLASSIFICATION DWG. _____ ISI-D-059
16" SCHED. 120 CAL. BLOCK _____ ISI-D-311A
16" SCHED. 80 CAL. BLOCK _____ ISI-D-318A

NOTES:

1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (U.N.O)
3. SCHED. 120 PIPE COUNTERBORED TO MATCH SCHED 80 STEAM GENERATOR NOZZLE.
4. WELD DIA IS 064-W-01A ON FAB. ISO

REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE
						2	4-2-85	1	12-7-84	0	10-17-83
						ADDED NEW WELD NUMBERS REVISED LEGEND AND REFERENCES ADDED NOTE 4 REMOVED WELDS W2.03 1, AND W3 1 FROM INSPECTION CALLED OUT LINE NUMBER ITEM WAS 1'-8 1/2" 1/2" WAS 1'-3 1/2" ADDED ROOM NUMBER		CHANGED AUGMENTED BOUNDARYS REVISED EXAM. METHODS & ADDED 16" SCHED 80 CAL. BLOCK.		ISSUED FOR INSPECTION			
						BST	WJS	BGS	WJS	BGS	

Southern Company Services, Inc.

GEORGIA POWER COMPANY

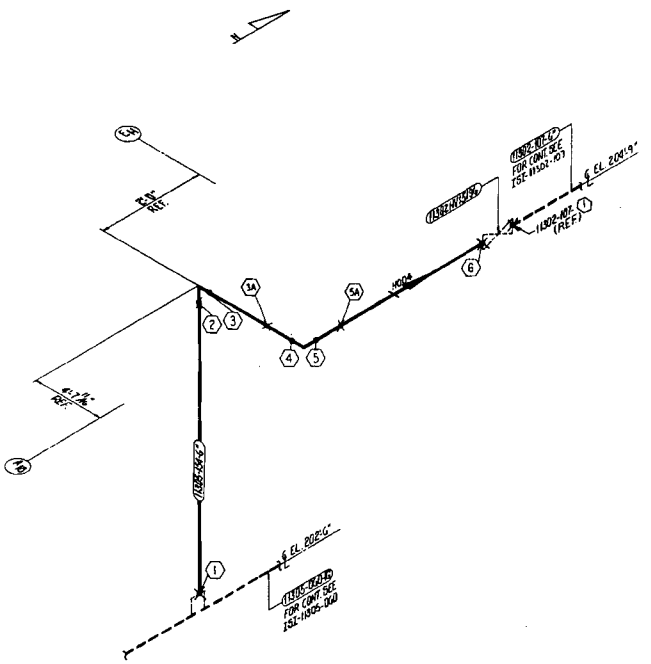
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1-LINE NO. 064
INSERVICE INSPECTION ISOMETRIC
FEEDWATER-SYSTEM 1305

DESIGNED F.T. DRAWN BGS CHECKED WJS

SCALE NONE | PROJECT I.D. | DRAWING NUMBER ISI11305-064 | REV 2

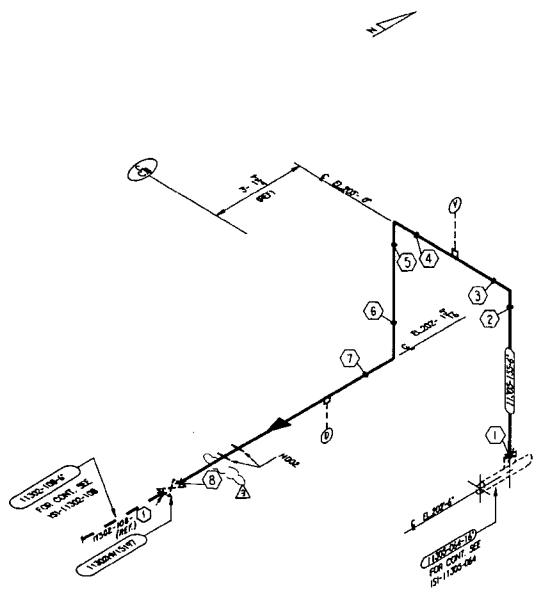
EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
VI-1305-154-H004	PIPE RESTRAINT	LINEAR SUPPORT	1	—	—	—	—	F7.50 F8.30	—
1305-154-W04 D	BW	CIRC WELD	SC-2020-7	C5.21	G6.21	—	C5.51 C5.11	—	—
W01 1								—	—
W01 2						—		—	—
W01 3						—		—	—
W01 4						—		—	—
W020						—		—	

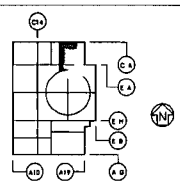
LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
1305-154	2	B12	6B2	6"	120	0.562"	SA-106 GR B	1600	460	1150	495	2.0"


N
1305-154-W
1305-154-W
1305-154-W

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
V1-1305-155-H004	VARIABLE SPRING HANGER	CAPACITY SUPPORT	HP-1305-1	—	—	—	—	F2.80 F2.80 F2.80 F2.80 F2.80 F2.80	F2.50
H002				—	—	—	—		
11305-155-W01.0	BW	CIRC. WELD	RC-[illegible]	[illegible]	C3.21	—	C7.30 C7.21	—	—
W01.1						—		—	—
W01.2						—		—	—
W01.3						—		—	—
W01.4						—		—	—
W01.5						—		—	—
W01.6						—		—	—
W02.0						—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL. TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN
11305-155	2	212	GK2	6"	120	.562"	SA-106 GRB	1800	460	1130	445	2.5"





KEY PLAN
LEVEL A

LEGEND:
1. ⋇ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ⋇ INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ⌒ BRANCH CONNECTION WELD.
6. ⊣⊢ PIPE RESTRAINT
7. ⟶ PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID - - - - - - - - - 1X4DB168-3
FAR. 150. - - - - - - - - 1K2-1305-155-01/11

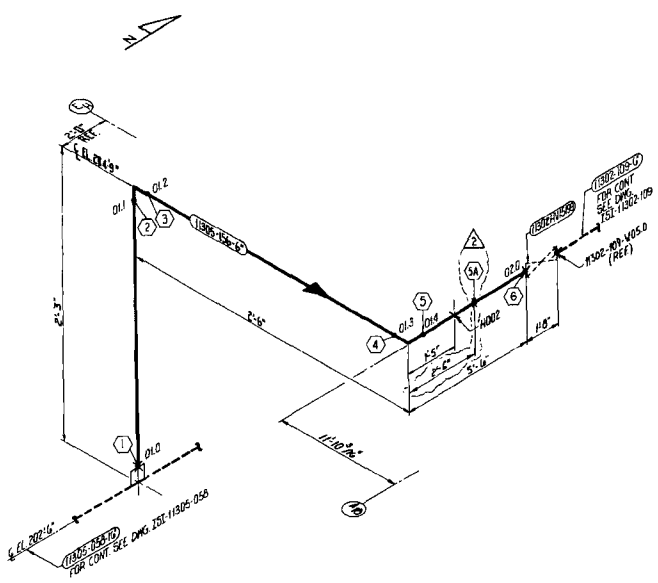
PIPING LAYOUT DWG. - - - 1X4DL260J
CIVIL/STRUCTURAL - - - - AX0D11A013
HANGER DETAIL DWG. - - - V1-1305-155-H002 & H004
F-SHEETS - - - - - - - - F-12506

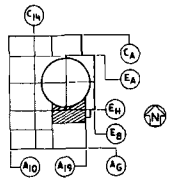
NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. G,N,O,J

REVISION	DATE	REVISION	DATE	REVISION 3	DATE 5/22/91	REVISION 2	DATE 5-28-87	REVISION 1	DATE 4-1-85	REVISION 0	DATE 11-28-83
				HANGER H004 DELETED PER PCR. 91-004		GENERAL REVISION TO UPDATE DRAWING FOR ISI		ADDED NEW WELD NO'S. REVISED FLOW DIRECTION ARROW. DELETED HANGER H001 ADDED HANGER H004 REVISED REFERENCES & LEGEND ADDED NOTE 3		ISSUED FOR INSPECTION	
BY	CHK'D	APPR.1	APPR.2	APPR.3	APPR.4	APPR.5	BY	CHK'D	APPR.1	APPR.2	APPR.3	APPR.4	APPR.5

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
VI-1305-156-H002	RIGID SUPPORT	COMPONENT SUPPORT	INF-2000-1	—	—	—	—	F7.F10.12 F8.30	—
11305-156-W01.0	B.W.	CIRC WELD	IWC-2500-7	C5.21	C5.21	—	C5.19 C5.51	—	—
11305-156-W01.1	↓	↓	↓	↓	↓	—	↓	—	—
11305-156-W01.2						—		—	—
11305-156-W01.3						—		—	—
11305-156-W01.4						—		—	—
11305-156-W02.0	↓	↓	↓	↓	↓	—	↓	—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MATL TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11305-156	2	212	GK2	6"	120	0.562"	SA-106 Gr.B	1500	460	1150	445	2.0"





KEY PLAN
LEVEL A

LEGEND:
1. ✖ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. ✱ INDICATES INTERGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ▲ BRANCH CONNECTION WELD.
6. ⊣⊢ PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:
P&I.D. ——— 1X4DB168-3
FAB ISO. ——— 1K3-1305-156-01

PIPING LAYOUT DWG. ——— 1X4DL3G04
CIVIL/STRUCTURAL ——— AX2008A080
HANGER DETAIL DWG. ——— VI-1305-156-H002
F-SHEETS ——— F-12733
ISI CLASSIFICATION DWG. ——— 1SI-D-059
6" CAL BLOCK ——— 1SI-D-309A

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX4DR001 APPENDIX D. (UNO)

REVISION	DATE	
2	11-14-85	ADDED: NEW WELD NO. 9A, CHANGED INSULATION.
1	4-1-85	ADDED NEW WELD NO'S REVISED EQUIPMENT IDENTIFICATION NO REVISED VALVE NUMBER REVISED ITEM NUMBER REVISED LEGEND REVISED REFERENCES REVISED DIMENSION
0	11-21-83	ISSUED FOR INSPECTION

Southern Company Services, Inc.

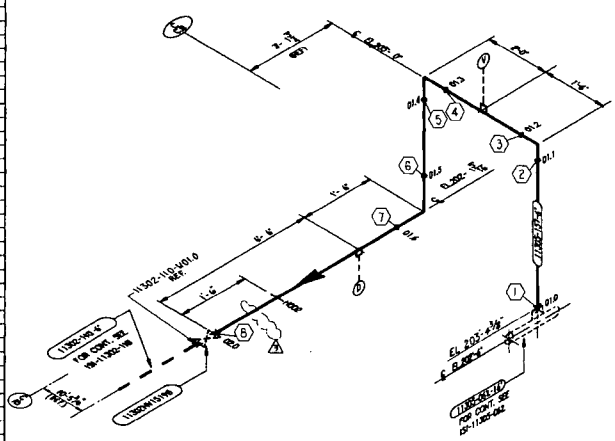
GEORGIA POWER COMPANY

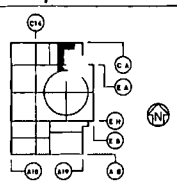
VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 156
INSERVICE INSPECTION ISOMETRIC
FEEDWATER-SYSTEM 1305

DESIGNED F.F. DRAWN C.B.B. CHECKED W.S.
SCALE NONE
PROJECT I.D.
DRAWING NUMBER 1SI-11305-156 REV. 2

EQUIPMENT OR WELD IDENTIFICATION NUMBER	WELD OR EQUIP. DESCRIP.	PART EXAMINED (SEE NOTE NO. 1)	EXAM REQUIREMENT FIG.	EXAMINATION METHOD AND ITEM NO. VOL.	SURF.	VT1	VT2	VT3	VT4
V1-1303-157-H004	VARIABLE SPRING HG CIL SHEET	COMPONENT SUPPORT	RF-1303-1	—	—	—	—	FCAM F3.20 F3.40 F3.50	F3.60
H002				—	—	—	—		
A3DF-157-W01.0	BW	CIRC. WELD	TMC-2540-7	C5.51	C5.51	—	C5.80 C7.51 C7.52	—	—
11303-157-W01.1	BW	CIRC. WELD	RID-6200-1			—		—	—
W01.2						—		—	—
W01.3						—		—	—
W01.4						—		—	—
W01.5						—		—	—
W01.6						—		—	—
W01.7						—		—	—

LINE NUMBER	CLASS ISI	CLASS PROJ	PIPE CLASS	LINE SIZE	PIPE SCHED.	WALL THKN	MAT'L TYPE	DESIGN PRESS	DESIGN TEMP.	OPERT. PRESS.	OPERT. TEMP.	INSUL. THKN.
11303-157	2	212	GK2	6"	120	.062	SA-106 GRB	1800	460	1130	445	2.0





KEY PLAN
LEVEL A

LEGEND:
1. ▣ INDICATES FIELD WELD.
2. ● INDICATES SHOP WELD.
3. INDICATES INTEGRALLY WELDED SUPPORT ATTACHMENT.
4. ⊗ CONTAINMENT PENETRATION.
5. ⌓ BRANCH CONNECTION WELD.
6. —|—| PIPE RESTRAINT
7. — PIPE SUPPORT

REFERENCE DRAWINGS:

P&ID - - - - - - - - - - 1X4DB168-3
FAB. ISO. - - - - - - - - 1X2-1303-157-01

PIPING LAYOUT DWG. - - - 1X4DL203
CIVIL/STRUCTURAL - - - - A3011A013
HANGER DETAIL DWG. - - - VI-1305-157-H002, H004
F-SHEETS _ _ _ _ _ _ _ F-12740
ISI CLASSIFICATION DWG. ISI-D-059
6" CAL BLOCK _ _ _ _ _ ISI-D-309A

NOTES:
1. SEE ISI PLAN FOR SELECTION AND FREQUENCY OF EXAMINATIONS.
2. FOR PIPE WELD END PREP. SEE BECHTEL DWG. AX409001 APPENDIX D. (I.N.O.)

REVISION	DATE	REVISION	DATE	REVISION 3	DATE 8/22/91	REVISION 2	DATE 11-13-85	REVISION 1	DATE 4-1-85	REVISION 0	DATE 11-14-83
				HANGER H004 DELETED PER P.R. 91-004. MODIFIED WELD LIST.		CHANGED FAB. ISO NO. AND INSULATION THICKNESS		ADDED NEW WELD NO'S ADDED HANGER H004 REVISED LEGEND REVISED REFERENCES DELETED HANGER H001 REVISED VALVE NUMBER		ISSUED FOR INSPECTION	
BY	CHK'D	APPR. 1	APPR. 2	APPR. 3	APPR. 4	APPR. 5					
				WGS	WS	WV	EJO	WS	CWD	BKD	WS

SOUTHERN COMPANY SERVICES, INC.
FOR
GEORGIA POWER COMPANY

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1 - LINE NO. 157
INSERVICE INSPECTION ISOMETRIC
FEEDWATER - SYSTEM 1305

DESIGNED TT | DRAWN JLB | CHECKED WS

SCALE	PROJECT I.D.	DRAWING NUMBER	REV.
NO SCALE		ISI-11303-157	3