

# GEORGIA POWER COMPANY INSERVICE INSPECTION PLAN

(ISI-P-014)

FOR

VOGTLE ELECTRIC GENERATING PLANT

UNIT 2

PREPARED BY

SOUTHERN NUCLEAR OPERATING COMPANY  
INSPECTION AND TESTING SERVICES GROUP

REV.	DATE	DESCRIPTION	SNC				GPC	
			PREP'D BY (ITS)	REV'D BY (ITS)	APPV. BY (ITS)	APPV. VOGTLE PROJECT NMS	APPV. MGR. TECH. SUPP.	APPR. GEN. MGR.
0	10/25/88	ORIGINAL ISSUE						
1	4/10/89	ALL REL. REQ'S 54, 55, 56						
2	5/18/89	REVISED REL. REQ'S 32 & 52						
3	6/11/90	DELETE RELIEF REQUESTS RR-45,47,48,54. REV. RR-32						
4	8/10/91	INCORPORATE COMMENTS PER GPC Ltr. MSV-00318, 8/13/90						
5	3/12/93	INCORPORATE COMMENTS PER PCR 92-009 AND 93-005	<i>OTD</i>	<i>MB</i>	<i>MB</i>	<i>J. Anderson</i>	<i>H. H. H.</i>	<i>4/5/93</i>

Vogtle Electric Generating Plant - Unit 2 (VEGP-2)  
Inservice Inspection (ISI) Program  
(ISI-P-014)

Revision 5 Summary of Changes

<u>Affected ISI Plan Document Pages</u>	<u>Changes</u>
6-14	The word "No." was added for consistency and a typographical error was corrected.
6-16	The Item Number was added for consistency.
6-20	Due to surface conditioning and utilization of a more effective weld technique for dissimilar metal welds, the examination percentages changed.
6-94	Typographical error was corrected.
6-102 thru 6-105	Added RR-57 concerning scheduling of Category B-D and B-F examinations.
7-7, 7-8, 7-11, 7-12 7-13, and 7-14	Revised ISI Line Designation List to reflect RTD Bypass Elimination.

VEGP-2 ISI-P-014

List of Effective Pages

Distribution List, Rev. 4

Table of Contents, Rev. 0

Introduction:

Page 1-1, Rev. 0  
Page 1-2, Rev. 0  
Page 1-3, Rev. 0  
Page 1-4, Rev. 0  
Page 1-5, Rev. 0  
Page 1-6, Rev. 0

Class 1:

Page 2-1, Rev. 0  
Page 2-2, Rev. 0  
Page 2-3, Rev. 0  
Page 2-4, Rev. 0  
Page 2-5, Rev. 0  
Page 2-6, Rev. 0  
Page 2-7, Rev. 0  
Page 2-8, Rev. 0  
Page 2-9, Rev. 0  
Page 2-10, Rev. 0  
Page 2-11, Rev. 0  
Page 2-12, Rev. 0  
Page 2-13, Rev. 0  
Page 2-14, Rev. 0  
Page 2-15, Rev. 0  
Page 2-16, Rev. 0  
Page 2-17, Rev. 0  
Page 2-18, Rev. 0  
Page 2-19, Rev. 0  
Page 2-20, Rev. 0  
Page 2-21, Rev. 0  
Page 2-22, Rev. 0  
Page 2-23, Rev. 1  
Page 2-24, Rev. 0  
Page 2-25, Rev. 0  
Page 2-26, Rev. 0  
Page 2-27, Rev. 0  
Page 2-28, Rev. 0  
Page 2-29, Rev. 0  
Page 2-30, Rev. 0  
Page 2-31, Rev. 0  
Page 2-32, Rev. 0  
Page 2-33, Rev. 3  
Page 2-34, Rev. 3  
Page 2-35, Rev. 0

Class 2:

Page 3-1, Rev. 0  
Page 3-2, Rev. 0

Class 2 continued:

Page 3-3, Rev. 0  
Page 3-4, Rev. 2  
Page 3-5, Rev. 0  
Page 3-6, Rev. 0  
Page 3-7, Rev. 0  
Page 3-8, Rev. 0  
Page 3-9, Rev. 0  
Page 3-10, Rev. 0  
Page 3-11, Rev. 0  
Page 3-12, Rev. 0  
Page 3-13, Rev. 0  
Page 3-14, Rev. 0  
Page 3-15, Rev. 0  
Page 3-16, Rev. 3  
Page 3-17, Rev. 3  
Page 3-18, Rev. 0

Class 3:

Page 4-1, Rev. 0  
Page 4-2, Rev. 3  
Page 4-3, Rev. 0  
Page 4-4, Rev. 3  
Page 4-5, Rev. 0  
Page 4-6, Rev. 3  
Page 4-7, Rev. 0

Component Supports:

Page 5-1, Rev. 0  
Page 5-2, Rev. 0  
Page 5-3, Rev. 3  
Page 5-4, Rev. 3  
Page 5-5, Rev. 0  
Page 5-6, Rev. 0  
Page 5-7, Rev. 0

Relief Requests:

Page 6-1, Rev. 0  
Page 6-2, Rev. 0  
Page 6-3, Rev. 4  
Page 6-4, Rev. 3  
Page 6-5, rev. 0  
Page 6-6, Rev. 0  
Page 6-7, Rev. 0  
Page 6-8, Rev. 0  
Page 6-9, Rev. 0  
Page 6-10, Rev. 0  
Page 6-11, Rev. 0  
Page 6-12, Rev. 0  
Page 6-13, Rev. 0  
Page 6-14, Rev. 5  
Page 6-15, Rev. 0  
Page 6-16, Rev. 5  
Page 6-17, Rev. 0

Relief Requests continued:

Page 6-18, Rev. 0  
Page 6-19, Rev. 1  
Page 6-20, Rev. 5  
Page 6-21, Rev. 0  
Page 6-22, Rev. 0  
Page 6-23, Rev. 1  
Page 6-24, Rev. 0  
Page 6-25, Rev. 0  
Page 6-26, Rev. 0  
Page 6-27, Rev. 0  
Page 6-28, Rev. 0  
Page 6-29, Rev. 0  
Page 6-30, Rev. 0  
Page 6-31, Rev. 4  
Page 6-32, Rev. 4  
Page 6-33, Rev. 4  
Page 6-34, Rev. 0  
Page 6-35, Rev. 0  
Page 6-36, Rev. 0  
Page 6-37, Rev. 0  
Page 6-38, Rev. 0  
Page 3-39, Rev. 0  
Page 3-40, Rev. 0  
Page 3-41, Rev. 0  
Page 3-42, Rev. 0  
Page 3-43, Rev. 4  
Page 3-44, Rev. 4  
Page 3-45, Rev. 0  
Page 6-46, Rev. 1  
Page 6-47, Rev. 0  
Page 6-48, Rev. 0  
Page 6-49, Rev. 0  
Page 6-50, Rev. 0  
Page 6-51, Rev. 0  
Page 6-52, Rev. 0  
Page 6-53, Rev. 0  
Page 6-54, Rev. 0  
Page 6-55, Rev. 0  
Page 6-56, Rev. 0  
Page 6-57, Rev. 0  
Page 6-58, Rev. 0  
Page 6-59, Rev. 3  
Page 6-59a, Rev. 3  
Page 6-60, Rev. 3  
Page 6-61, Rev. 0  
Page 6-62, Rev. 0  
Page 6-63, Rev. 0  
Page 6-64, Rev. 0  
Page 6-65, Rev. 0  
Page 6-66, Rev. 0  
Page 6-67, Rev. 0  
Page 6-68, Rev. 0

Relief Request continued:

Page 6-69, Rev. 0  
Page 6-70, Rev. 0  
Page 6-71, Rev. 0  
Page 6-72, Rev. 4  
Page 6-73, Rev. 0  
Page 6-74, Rev. 0  
Page 6-75, Rev. 0  
Page 6-76, Rev. 0  
Page 6-77, Rev. 0  
Page 6-78, Rev. 0  
Page 6-79, Rev. 0  
Page 6-80, Rev. 0  
Page 6-81, Rev. 0  
Page 6-82, Rev. 0  
Page 6-83, Rev. 0  
Page 6-84, Rev. 0  
Page 6-85, Rev. 0  
Page 6-86, Rev. 0  
Page 6-87, Rev. 0  
Page 6-88, Rev. 3  
Page 6-89, Rev. 0  
Page 6-90, Rev. 3  
Page 6-91, Rev. 3  
Page 6-92, Rev. 3  
Page 6-93, Rev. 0  
Page 6-94, Rev. 5  
Page 6-95, Rev. 4  
Page 6-96, Rev. 4  
Page 6-97, Rev. 4  
Page 6-98, Rev. 0  
Page 6-99, Rev. 3  
Page 6-100, Rev. 1  
Page 6-101, Rev. 1  
Page 6-102, Rev. 5  
Page 6-103, Rev. 5  
Page 6-104, Rev. 5  
Page 6-105, Rev. 5

Line Designation List:

Page 7-1, Rev. 4  
Page 7-2, Rev. 0  
Page 7-3, Rev. 0  
Page 7-4, Rev. 0  
Page 7-5, Rev. 0  
Page 7-6, Rev. 0  
Page 7-7, Rev. 5  
Page 7-8, Rev. 5  
Page 7-9, Rev. 0  
Page 7-10, Rev. 0  
Page 7-11, Rev. 5  
Page 7-12, Rev. 5  
Page 7-13, Rev. 5  
Page 7-14, Rev. 5

Line Designation List continued:

Page 7-15, Rev. 0  
Page 7-16, Rev. 0  
Page 7-17, Rev. 0  
Page 7-18, Rev. 0  
Page 7-19, Rev. 0  
Page 7-20, Rev. 0  
Page 7-21, Rev. 0  
Page 7-22, Rev. 0  
Page 7-23, Rev. 0  
Page 7-24, Rev. 0  
Page 7-25, Rev. 0  
Page 7-26, Rev. 0  
Page 7-27, Rev. 0  
Page 7-28, Rev. 0  
Page 7-29, Rev. 0  
Page 7-30, Rev. 0  
Page 7-31, Rev. 0  
Page 7-32, Rev. 0  
Page 7-33, Rev. 0  
Page 7-34, Rev. 0  
Page 7-35, Rev. 0  
Page 7-36, Rev. 0  
Page 7-37, Rev. 0  
Page 7-38, Rev. 0  
Page 7-39, Rev. 0  
Page 7-40, Rev. 0  
Page 7-41, Rev. 0  
Page 7-42, Rev. 0  
Page 7-43, Rev. 0  
Page 7-44, Rev. 0  
Page 7-45, Rev. 0  
Page 7-46, Rev. 0  
Page 7-47, Rev. 0  
Page 7-48, Rev. 0  
Page 7-49, Rev. 0  
Page 7-50, Rev. 0  
Page 7-51, Rev. 0  
Page 7-52, Rev. 0  
Page 7-53, Rev. 0  
Page 7-54, Rev. 0  
Page 7-55, Rev. 0  
Page 7-56, Rev. 0  
Page 7-57, Rev. 0  
Page 7-58, Rev. 0  
Page 7-59, Rev. 0  
Page 7-60, Rev. 0  
Page 7-61, Rev. 0  
Page 7-62, Rev. 0  
Page 7-63, Rev. 0  
Page 7-64, Rev. 0  
Page 7-65, Rev. 0



Line Designation List continued:

Page 7-66, Rev. 0  
Page 7-67, Rev. 0  
Page 7-68, Rev. 0  
Page 7-69, Rev. 0  
Page 7-70, Rev. 0  
Page 7-71, Rev. 0  
Page 7-72, Rev. 0  
Page 7-73, Rev. 0  
Page 7-74, Rev. 0  
Page 7-75, Rev. 0  
Page 7-76, Rev. 0  
Page 7-77, Rev. 0  
Page 7-78, Rev. 0  
Page 7-79, Rev. 0  
Page 7-80, Rev. 0  
Page 7-81, Rev. 0  
Page 7-82, Rev. 0  
Page 7-83, Rev. 0  
Page 7-84, Rev. 0  
Page 7-85, Rev. 0  
Page 7-86, Rev. 0  
Page 7-87, Rev. 0  
Page 7-88, Rev. 0  
Page 7-89, Rev. 0  
Page 7-90, Rev. 0  
Page 7-91, Rev. 0  
Page 7-92, Rev. 0  
Page 7-93, Rev. 0  
Page 7-94, Rev. 0  
Page 7-95, Rev. 0  
Page 7-96, Rev. 0  
Page 7-97, Rev. 0  
Page 7-98, Rev. 0  
Page 7-99, Rev. 0  
Page 7-100, Rev. 0  
Page 7-101, Rev. 0  
Page 7-102, Rev. 0  
Page 7-103, Rev. 0  
Page 7-104, Rev. 0  
Page 7-105, Rev. 0  
Page 7-106, Rev. 0  
Page 7-107, Rev. 0  
Page 7-108, Rev. 0  
Page 7-109, Rev. 0  
Page 7-110, Rev. 0  
Page 7-111, Rev. 0  
Page 7-112, Rev. 0  
Page 7-113, Rev. 0  
Page 7-114, Rev. 0  
Page 7-115, Rev. 0  
Page 7-116, Rev. 0  
Page 7-117, Rev. 0



Line Designation List continued:

Page 7-118, Rev. 0  
Page 7-119, Rev. 0  
Page 7-120, Rev. 0  
Page 7-121, Rev. 0  
Page 7-122, Rev. 0  
Page 7-123, Rev. 0  
Page 7-124, Rev. 0  
Page 7-125, Rev. 0  
Page 7-126, Rev. 0  
Page 7-127, Rev. 0  
Page 7-128, Rev. 0  
Page 7-129, Rev. 0  
Page 7-130, Rev. 0  
Page 7-131, Rev. 0  
Page 7-132, Rev. 0  
Page 7-133, Rev. 0  
Page 7-134, Rev. 0  
Page 7-135, Rev. 0  
Page 7-136, Rev. 0  
Page 7-137, Rev. 0  
Page 7-138, Rev. 0  
Page 7-139, Rev. 0  
Page 7-140, Rev. 0

Equipment Designation List:

Page 8-1, Rev. 4  
Page 8-2, Rev. 0  
Page 8-3, Rev. 0  
Page 8-4, Rev. 0  
Page 8-5, Rev. 0  
Page 8-6, Rev. 0  
Page 8-7, Rev. 0  
Page 8-8, Rev. 0  
Page 8-9, Rev. 0  
Page 8-10, Rev. 0  
Page 8-11, Rev. 0  
Page 8-12, Rev. 0  
Page 8-13, Rev. 0  
Page 8-14, Rev. 0  
Page 8-15, Rev. 0  
Page 8-16, Rev. 0  
Page 8-17, Rev. 0  
Page 8-18, Rev. 0  
Page 8-19, Rev. 0  
Page 8-20, Rev. 0  
Page 8-21, Rev. 0  
Page 8-22, Rev. 0  
Page 8-23, Rev. 0  
Page 8-24, Rev. 0  
Page 8-25, Rev. 0  
Page 8-26, Rev. 0

Component or Relief Area

Pressure-Retaining Bolting, greater than 2-inch diameter, in Class 1. Reactor Pressure Vessel Studs ID Nos. 21201-V6-001-B01 through 21201-V6-001-B54 and spare studs BOS-1 and BOS-2.

Requirement from which Relief is Requested

Item No. B6.30, Category B-G-1, ASME Code, requires surface and volumetric examinations of Reactor Pressure Vessel studs when removed. Paragraph IWA-2232 (c) requires that the ultrasonic examination meet the requirements of Article 5, Section V.

Basis for Relief

A more sensitive examination, wherein a shear-wave transducer is lowered into the heater hole in the center of the stud, has been developed. The calibration block contains 3 notches which were Electrical Discharge Machined into the thread area with the following approximate dimensions:

<u>Notch No.</u>	<u>Length</u>	<u>Width</u>	<u>Depth</u>
1	0.942"	0.089"	0.060"
2	0.487"	0.089"	0.126"
3	0.367"	0.089"	0.148"

This calibration technique will be used in lieu of the required bottom hole technique.

The Code required surface examination will be performed if the studs are removed.

Alternate Examination

The more sensitive shear-wave examination, as described above, will be used.

VEGP-2

RR-11

Component or Relief Area

Visual VT-3 examination of inaccessible component supports for the reactor pressure vessel.

Requirement from which Relief is Requested

Item No. F2.30, Category F-B, Table IWF-2500-1, of ASME Section XI requires a visual VT-3 examination of component supports and IWF-2200 (b) requires preservice examinations be performed following the initiation of hot functional tests. The support examination boundaries are defined in IWF-1300.1. Relief is requested from the visual VT-3 examination of the Reactor Pressure Vessel supports located underneath the nozzles.

21201-V6-001-RS1  
21201-V6-001-RS2  
21201-V6-001-RS3  
21201-V6-001-RS4

Basis for Relief

The reactor pressure vessel supports are encased in concrete which renders them inaccessible for examination by the visual method. The reactor vessel nozzles render them inaccessible from the top side. Removal of the examination barriers is impractical. See Attachment 1 for a sketch of the reactor pressure vessel supports.

Alternate Examination

None

## VEGP-2, RR-12

## ATTACHMENT 1

Identification No.	Code Category	Description	Percentage Examined		Restriction
			During PSI		
21201-V6-002-W017	B-F	6" Safety Nozzle to Safe End Weld.	75%		75% Exam from nozzle side 80% Exam from safe-end side
21201-V6-002-W018	B-F	6" Safety Nozzle to Safe End Weld.	75%		75% Exam from nozzle side 80% Exam from safe-end side
21201-V6-002-W019	B-F	6" Safety Nozzle to Safe End Weld.	75%		75% Exam from nozzle side 80% Exam from safe-end side
21201-V6-002-W020	B-F	6" Relief Nozzle to Safe End Weld.	75%		75% Exam from nozzle side 80% Exam from safe-end side
21201-V6-002-W021	B-F	4" Spray Nozzle to Safe End Weld.	87%		100% Exam from nozzle side 75% Exam from safe-end side
21201-V6-002-W022	B-F	14" Surge Nozzle to Safe End Weld.	74%		90% Exam from nozzle side 58% Exam from safe-end side

\*Surface conditioning and utilization of more effective technique for dissimilar metal welds during the 2R2 outage resulted in different examination percentages than those recorded for the PSI. The indicated percentages and restrictions are current.

## VEGP-2

### RR-50

#### Component or Relief Area

System pressure test on Class 3 pressure-retaining components during system functional or system inservice test.

#### Requirement From Which Relief is Requested

Item Number D1.10 of Examination Category D-A and Item Number D3.10 of Examination Category D-C, Table IWD-2500-1 of ASME Section XI requires a VT-2 visual examination during a system inservice test per IWD-5221. Item Number D2.10, Examination Category D-B, Table IWD-2500-1 of ASME Section XI requires a VT-2 visual examination during a system functional test per IWD-5222. Relief is requested to allow VT-2 visual examination of pressure-retaining components during conditions other than system functional or system inservice testing.

#### Basis for Relief

Portions of some systems are normally pressurized or can be pressurized to their normal operating pressures without the system being pressurized during a system functional test or a system inservice test. A typical example of the above is the portion of a system from an atmospheric storage tank to the suction side of a pump. Relief is requested to allow VT-2 visual examination of pressure-retaining components at any time as long as the portion of the system being examined is subjected to pressures which meet or exceed the requirements of IWD-5221 or IWD-5222.

#### Alternate Examination

A VT-2 visual examination will be performed on pressure-retaining components at pressures which meet or exceed the requirements of IWD-5221 or IWD-5222.

## VEGP-2

### RR-57

#### Component or Relief Area

Remote mechanized volumetric and/or surface examination of pressure-retaining Reactor Vessel Outlet Nozzle-to-Shell Welds, Inner Radius, and Reactor Vessel Outlet Nozzle-to-Safe End Welds. See Attachment 1 for examination identification numbers.

#### Requirement from which Relief is Requested

Table IWB-2500-1, Examination Category B-D, Item Nos. B3.90 and B3.100, Nozzle-to-Vessel (Shell) Welds and Nozzle Inside (Inner) Radius Section and Examination Category B-F, Item No. B5.10, Nozzle-to-Safe End Welds, require volumetric examination of all welds and their inside radius section once each ten-year inspection interval. Relief is requested from the requirement to perform a volumetric examination of a minimum of 25 percent, but not more than 50 percent (credited) of the reactor vessel-to-shell welds, their inside radius sections, and associated nozzle-to-safe end welds by the end of the first inspection period and to perform these required examinations during the second inspection period.

#### Basis for Relief

Historically, pressurized water reactors such as VEGP-2 examine the reactor vessel outlet nozzle-to-shell welds, their inside radius sections, and associated nozzle-to-safe end welds during the first inspection period in order to comply with the requirements of the ASME Section XI Code. These examinations are performed from the inside surfaces using submerged ultrasonic examination techniques with an automated reactor vessel inspection tool. These examinations are generally performed while defueled with water in the refueling canal, thus typically being a critical path activity. The similar reactor vessel inlet nozzles are accessible only when the core barrel is removed, as during the Inservice Inspection (ISI) ten-year outage at which time they are examined. In an effort to consolidate examination of the reactor vessel inlet and outlet nozzles such that they would be examined at one time, e.g., during the ISI ten-year outage, Georgia Power Company (GPC) notified the NRC of its plans to re-schedule the reactor vessel inlet and outlet nozzle examinations. In its letter MSV-00821 dated March 17, 1992 to the NRC, GPC cited ASME Section XI Code Interpretation XI-1-86-74, which relates to the general application of examination requirement and NRC's approval of a similar re-scheduling plan for another utility as its basis for the planned re-scheduling of the reactor vessel nozzle examinations and those of associated components, i.e., safe end welds. The re-scheduling offered GPC



## VEGP-2

### RR-57 (Continued)

#### Basis for Relief (Continued)

significant opportunities for savings in contractor cost, critical path time, radiation exposure, and internal manpower requirements while, in the opinion of GPC, still maintaining compliance with the ASME Section XI Code. Verbal discussions between GPC, Southern Nuclear Operating Company, and NRC staff personnel ensued after the March 17, 1992 submittal by GPC. It was indicated to NRC staff personnel that examination of the reactor vessel outlet nozzles and their associated components could not be performed during VEGP-2 Maintenance/Refueling Outage 2R2, which was in progress at the time, because of logistical problems and was acknowledged. Subsequent review by the NRC indicated, as documented in its letter to GPC dated July 30, 1992, that the re-scheduling plans were unacceptable and should not be implemented. The examination schedules will be adjusted for the affected components during the next revision of the ISI examination plan document (ISI-P-013) in order to better comply with the scheduling requirements of the ASME Section XI Code. Since the reactor vessel outlet nozzles and their associated components were not performed during VEGP-2 Outage 2R2, GPC committed to the NRC to perform the necessary examinations during the next regularly scheduled maintenance/refueling outage at VEGP-2. Outage 2R3 is the first maintenance/refueling outage in the second inspection period.

#### Alternate Examination

The reactor vessel outlet nozzle examinations, as identified in Attachment 1, will be performed during the next regularly scheduled maintenance/refueling outage (Outage 2R3) at VEGP-2 as previously committed to the NRC by Georgia Power Company in letter MSV-01184 dated November 20, 1992.



VEGP-2, RR-57

ATTACHMENT 1

<u>Identification No.</u>	<u>Code Category/ Item No.</u>	<u>Description</u>	<u>Examination Method(s)</u>
21201-V6-001-IR01	B-D B3.100	N1 Outlet Nozzle Inner Radius	Remote Mechanized UT
21201-V6-001-IR04	B-D B3.100	N4 Outlet Nozzle Inner Radius	Remote Mechanized UT
21201-V6-001-IR05	B-D B3.100	N5 Outlet Nozzle Inner Radius	Remote Mechanized UT
21201-V6-001-IR08	B-D B3.100	N8 Outlet Nozzle Inner Radius	Remote Mechanized UT
21201-V6-001-W025	B-D B3.90	N1 Outlet Nozzle to Shell Weld	Remote Mechanized UT
21201-V6-001-W028	B-D B3.90	N4 Outlet Nozzle to Shell Weld	Remote Mechanized UT
21201-V6-001-W029	B-D B3.90	N5 Outlet Nozzle to Shell Weld	Remote Mechanized UT
21201-V6-001-W032	B-D B3.90	N8 Outlet Nozzle to Shell Weld	Remote Mechanized UT
21201-V6-001-W033	B-F B5.10	N1 Outlet Nozzle to Safe End Weld	Remote Mechanized UT, PT
21201-V6-001-W036	B-F B5.10	N4 Outlet Nozzle to Safe End Weld	Remote Mechanized UT, PT

VEGP-2, RR-57

ATTACHMENT 1 (Continued)

<u>Identification No.</u>	<u>Code Category/ Item No.</u>	<u>Description</u>	<u>Examination Method(s)</u>
21201-V6-001-W037	B-F B5.10	N5 Outlet Nozzle to Safe End Weld	Remote Mechanized UT, PT
21201-V6-001-W040	B-F B5.10	N8 Outlet Nozzle to Safe End Weld	Remote Mechanized UT, PT

REPORT NO: MLNE063

V O G T L E E L E C T R I C G E N E R A T I N G P L A N T  
P S I / T S I L I N E D E S I G N A T I O N L I S T

UNIT 2 CLASS 13 LINES SORTED BY LINE SYSTEM, SEQ. UNIT

LINE NUMBER	S D	----- D E S C R I P T I O N ----- ( F R O M )	PIPE SIZE	DESIGN PSIG FAHR PRES. TEMP	OPERATING PSIG FAHR PRES. TEMP	PIPE PIPE SPEC SCH	WALL THK	CLASS Q PRJ	P S I		T S I		
									ISE CLS REQ	ISE SELECTION REQUIREMENT	ISE CLS REQ	ISE EXEMPTION BASIS	
21201L4016		LINE 097 VALVE 101 LINE 008 PRESSURIZER PRESSURIZER V-002	00 38 2485	0680	FG2 2235	0653	2x4DB112	Q212 DB	1 NO	SECX183583 TMB-1220(B)	1 NO	SECX183583 TMB-1220(B)	01
21201L4017		LINE 084 VALVE 097 LINE 005 PRESSURIZER PRESSURIZER V-002	00 38 2485	0680	FG2 2235	0653	2x4DB112	Q212 B5	1 NO	SECX183583 TMB-1220(B)	1 NO	SECX183583 TMB-1220(B)	01
21201L4018		LINE 029 RCS COOLANT LINE 030 PRESSURIZER PUMP P-001 LOOP 1 V-002	00 75 2485	0650	FG0 160 2299	0556	2x4DB112	Q212 E3	1 NO	SECX183583 TMB-1220(B)	1 NO	SECX183583 TMB-1220(B)	
21201L4019		LINE 030 RCS COOLANT LINE 030 PRESSURIZER PUMP P-004 LOOP 4 V-002	00 75 2485	0650	FG0 160 2299	0556	2x4DB112	Q212 C4	1 NO	SECX183583 TMB-1220(B)	1 NO	SECX183583 TMB-1220(B)	





REPORT NO: MLINEOBL

VOGTLE ELECTRIC GENERATING PLANT  
PSI / PSI LINE DESIGNATION LIST

UNIT 2 CLASS 1 3 LINES SORTED BY LINE SYSTEM, SEQ. UNIT

LINE NUMBER	M S D	DESCRIPTION (FROM) (TO)		PIPE SIZE	PIPE SPEC	PIPE SCH	WALL THK	CLASS Q PRJ	PSI		PSI		NOTES		
		CL5	SELECTION REQUIREMENT						CL5	SELECTION REQUIREMENT	1	2			
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	
														PSI	

21201L4150	LINE 031 : VALVE 001 TYGON HOSE CONNECT STEAM GEN B-001	VALVE 003	00 75 2485 0650	FGO 160 0003 0556	0 2X4DB111	0212 BB	1 NO	SECX183583 1WB-1220(B)	SECX183583 1WB-1220(B)	NOTES 1 2
21201L4178	LINE 115 : VALVE HV 8033	VALVE HV 8047 TANK V-003	01 00 0100 0200	LL1 405 0003 0120	0 2X4DB112	0212 G2	2 NO	SECX183583 1WC-1220(C)	SECX183583 1WC-1220(C)	NOTES 3 4

REPORT NO. MLINE08L

V O G T I E E L L C T R I C G E N E R A T I N G P L A N T  
P S I / T S I L I N E D E S I G N A T I O N L I S T

UNIT 2 CLASS 1 3 LINES SORTED BY LINE SYSTEM, SEQ. RUNIT

M

LINE NUMBER	S D	DESIGNATION (FROM)	PIPE SIZE	PIPE SPEC	PIPE TEMP	PIPE SCH	WALL THK	CLASS O PRG	PSI CL5	PSI SELECTION REQUIREMENT	PSI SELECTION REQUIREMENT	NOTES 1 2
----------------	--------	-----------------------	--------------	--------------	--------------	-------------	-------------	----------------	------------	---------------------------------	---------------------------------	--------------

LINE NUMBER	S D	DESIGNATION (FROM)	PIPE SIZE	PIPE SPEC	PIPE TEMP	PIPE SCH	WALL THK	CLASS O PRG	PSI CL5	PSI SELECTION REQUIREMENT	PSI SELECTION REQUIREMENT	NOTES 1 2
----------------	--------	-----------------------	--------------	--------------	--------------	-------------	-------------	----------------	------------	---------------------------------	---------------------------------	--------------

2120114188 LINE 115 WASTE GAS LINE 098 VALVE 096 01 00 111 405 0003 0070 2X4DB112 0 Q313 H1 3 SECX183583 SECX183583 01  
YANK V009 HDR N/A

2120114197 STEAM GEN B-001 HOSE CONNECTION VALVE 202 00 50 2485 0650 FGO 160 2201 0556 2X4DB111 0 Q212 D7 2 SECX183583 SECX183583 01  
WAVE 202

2120114198 STEAM GEN B-002 HOSE CONNECTION VALVE 203 00 50 2485 0650 FGO 160 2201 0556 2X4DB111 0 Q212 F7 2 SECX183583 SECX183583 01  
WAVE 203

2120114199 STEAM GEN B-003 HOSE CONNECTION VALVE 204 00 50 2485 0650 FGO 160 2201 0556 2X4DB111 0 Q212 F2 2 SECX183583 SECX183583 01  
WAVE 204

2120114200 STEAM GEN B-004 HOSE CONNECTION VALVE 205 00 50 2485 0650 FGO 160 2201 0556 2X4DB111 0 Q212 D2 2 SECX183583 SECX183583 01  
WAVE 205

2120114208 LINE 036 VALVE 220 DRAIN VALVE 220 02 00 2485 0650 FGO 160 2235 0617 2X4DB122 0 Q111 G2 1 SECX183583 SECX183583 01  
HV 8701A RCS HOT LEG

2120114209 LINE 054 REACTOR HV 8032 SYS 1901 00 38 2485 0650 FGO 160 0003 0120 2X4DB111 065 Q212 F5 2 SECX183583 SECX183583 01  
VESSEL V-001



REPORT NO: MLINE081

VOGTLE ELECTRIC GENERATING PLANT  
PSI / ISI LINE DESIGNATION LIST

UNIT 2 CLASS 1-3 LINES SORTED BY LINE SYSTEM, SEQ, &amp; UNIT

UNIT 2 CLASS 1-3 LINES SORTED BY LINE SYSTEM, SEQ, BOUNTY												
LINE NUMBER	M S D	DESCRIPTION ( FROM ) ( TO )		PIPE SIZE	DESIGN PSIG FAHR PRES TEMP	PIPE SPEC	PIPE SCH	WALL THK	CLASS Q PRJ	PSI SELECTION REQUIREMENT	ISI SELECTION REQUIREMENT	NOTES 1 2
								---- P & ID --- NUMBER SHEET COOR		PSI EXEMPTION BASIS	ISI EXEMPTION BASIS	NOTES 3 4
21201L4238	LINE	1201L4036	BY-PASS (HV 8701B)	00 75 2485 0650	FG0 160 2235 0617	0 2X4DB122	Q212 G1	1 NO	SECX183583 IWB-1220(B)	SECX183583 IWB-1220(B)		
21201L4239	LINE	1201L4049	BY-PASS (HV 8702B)	00 75 2485 0650	FG0 160 2235 0617	0 2X4DB122	Q212 D1	1 NO	SECX183583 IWB-1220(B)	SECX183583 IWB-1220(B)		
21202L4001	CONT CLR TR-A	LINE 002: HV 1830 1501-A7-005 OUTLET	NSCW RET HDR TR-A	06 00 0200 0280	LL8 405 0145 0105	0 2X4DB135-	Q212 1 G3	2 YES	SER LINE N/A	SER LINE N/A	01	
21202L4001A	CONT CLR TR-A	LINE 002: HV 1830 1501-A7-005 OUTLET	NSCW RET HDR TR-A	08 00 0200 0280	LL8 405 0145 0105	0 2X4DB135-	Q212 1 G2	2 YES	SER LINE N/A	SER LINE N/A	03	
21202L4002	LINE 001: HV1830	LINE 003 NSCW RET HDR TR-A		08 00 0200 0280	LL8 405 0145 0105	0 2X4DB135-	Q313 1 G1	3 NO	SECX183583 N/A	SECX183583 N/A		
21202L4002A	LINE 001:HV1830	LINE 003 NSCW RET HDR TR-A		10 00 0200 0280	LL8 405 0145 0105	0 2X4DB135-	Q313 1 C1	3 NO	SECX183583 N/A	SECX183583 N/A		
21202L4002B	LINE 001:HV1830	LINE 003 NSCW RET HDR TR-A		14 00 0200 0280	LL8 10 0145 0105	0 2X4DB135-	Q313 1 B1	3 NO	SECX183583 N/A	SECX183583 N/A		
21202L4002C	FLUSH CONNECTION	TEST VENT # VLV 199		02 00 0200 0280	LL8 405 0145 0105	0 2X4DB135-	Q313 1 B1	3 NO	SECX183583 N/A	SECX183583 N/A		
21202L4003	CS PMP MTR CLG COIL	LINE 181 1206-P6-001 OUTLET	NSCW RET HDR TR-A	02 00 0200 0150	LL8 405 0145 0105	0 2X4DB134	Q313 G4	3 NO	SECX183583 N/A	SECX183583 N/A		
21202L4003A	CS PMP MTR CLG COIL	LINE 181 1206-P6-001 OUTLET	NSCW RET HDR TR-A	03 00 0200 0150	LL8 405 0145 0105	0 2X4DB134	Q313 H5	3 NO	SECX183583 N/A	SECX183583 N/A		
21202L4003B	CS PMP MTR CLG COIL	LINE 181 1206-P6-001 OUTLET	NSCW RET HDR TR-A	04 00 0200 0150	LL8 405 0145 0105	0 2X4DB134	Q313 H7	3 NO	SECX183583 N/A	SECX183583 N/A		