GEORGIA POWER COMPANY
INSERVICE INSPECTION PROGRAM

(ISI-P-006)

FOR

VOGTLE ELECTRIC GENERATING PLANT
UNIT 1

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	9/24/86	ISSUED FOR INSERVICE INSPECTION						
1	7/23/87	ADDS RELIEF REQUEST FOR PRESSURE TESTS						
2	4/01/88	INCORPORATE NRC COMMITMENTS						
3	1/20/89	ADDS RELIEF REQUEST FOR RR-52, 53, 54						
4	4/06/90	DELETED RELIEF REQUEST RR-45, 47, 48, 54 REVISED RR-12, 32						
5	6/10/91	INCORPORATES COMMENTS PER GPC LTR. MSV-00318, 9/13/90						
6	11/5/93	INCORPORATES COMMENTS PER PCR 93-017 AND ADD GENERAL COMMENTS						

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PDR ADOCK 05000424
Q PDR

Vogtle Electric Generating Plant - Unit 1 (VEGP-1)
Inservice Inspection (ISI) Program
(ISI-P-006)

Revision 6 Summary of Changes

Affected ISI Program Document Pages	Changes
Distribution List	Changed to reflect current organization.
Table of Contents	Deleted Line Designation List and Equipment Designation List references in table.
6-4	Added reference to RR-57.
6-14	The word "No." was added for consistency.
6-90	Editorial Change
6-90a thru 6-90b	Modified RR-49 concerning hydrostatic tests on the NSCW pumps and transfer pumps.
6-99	Added blank page.
7-1 thru 7-118	Deleted Line Designation List.
8-1 thru 8-26	Deleted Equipment Designation List.

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VEGP-1 INSERVICE INSPECTION PROGRAM

(ISI-P-006)

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INSERVICE INSPECTION PROGRAM

VOGTLE ELECTRIC GENERATING PLANT

UNIT 1

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Relief Request No.	Examination Area
RR-49	System pressure test on Class 3 vertical pit type pumps
RR-50	System pressure test on Class 3 components
RR-51	Relief Request Withdrawn
RR-52	Reactor Vessel integrally welded attachments
RR-53	Class 3 hydrostatic test on Spent Fuel Cooling and Purification
RR-54	Relief request withdrawn conditionally
RR-55	Intentionally blank
RR-56	Intentionally blank
RR-57	Intentionally blank

RR-9

Component or Relief Area

Pressure-Retaining Bolting, greater than 2-inch diameter, in Class 1.

Reactor Pressure Vessel Studs ID Nos. 11201-V6-001-B1 through 11201-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:

Notch No.	Length	Width	Depth
1	0.942"	0.089"	0.060"
2	0.487"	0.089"	0.126"
3	0.387"	0.089"	0.148"

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

Alternate Examination

The more sensitive shear-wave examination, as described above, will be used. The Code required surface examination will be performed if the studs are removed.

Component or Relief Area

System hydrostatic test and VT-2 examination during system inservice test on Class 3 vertical pit-type pumps. The following nuclear service cooling water (NSCW) pumps and transfer pumps are affected by this relief request.

1-1202-P4-001	1-1202-P4-005
1-1202-P4-002	1-1202-P4-006
1-1202-P4-003	1-1202-P4-007
1-1202-P4-004	1-1202-P4-008

Requirements From Which Relief is Requested

Item number D1.10, Examination Category D-A, Table IWD-2500-1 of ASME Section XI requires a system hydrostatic test (IWD-5223) and a VT-2 examination during system inservice testing (IWD-5221) on Class 3 components.

Basis for Relief

The NSCW pumps and transfer pumps are vertical pit-type pumps which take suction from the NSCW tower basins. Since these pumps are vertical pit-type pumps, there are no isolation valves on the suction side of the pumps to facilitate hydrostatic testing. Therefore, the performance of a hydrostatic test on the pumps and the piping to the first discharge shutoff valve is impractical. In addition, the performance of a VT-2 examination during system inservice testing is also impractical on the suction side portion of these pumps because they are submerged in the NSCW tower basins.

Alternate Examinations

These pumps are periodically tested as required by Subsection IWP. These tests verify operability of these pumps and by doing so would detect significant leakages through the pressure retaining boundary. A VT-2 examination will be performed each inspection period during system inservice testing on portions of the pumps which are not submerged in the NSCW tower basin.

RR-49 Addendum

Component or Relief Area

In addition to the relief requested from performing hydrostatic tests on the NSCW pumps and the piping to the first discharge isolation valve, it is requested that the boundary be extended to the following:

discharge isolation valve 1-HV-11600 to discharge check valve 1-1202-U4-025,

discharge isolation valve 1-HV-11607 to discharge check valve 1-1202-U4-027,

discharge isolation valve 1-HV-11606 to discharge check valve 1-1202-U4-035,

discharge isolation valve 1-HV-11613 to discharge check valve 1-1202-U4-037,

discharge isolation valve 1-HV-11605 to discharge check valve 1-1202-U4-031,

discharge isolation valve 1-HV-11612 to discharge check valve 1-1202-U4-033,

Train A to Train B intertie from manual isolation valve 1-1202-U4-492 to check valve 1-1202-U4-495, and

Train B to Train A intertie manual isolation valve 1-1202-U4-497 to check valve 1-1202-U4-493.

Requirements From Which Relief is Requested

Same as original RR-49.

Basis for Relief

Same as original RR-49 plus:

Performance of a hydrostatic test on the piping between the first discharge isolation valves downstream of the NSCW pumps and the downstream discharge check valves is impractical because no intermediate test connections are present to attach hydrostatic test equipment. To remove the check valve internals to facilitate hydrostatic testing is not prudent due to time constraints associated with disassembling and reassembling the check valves and restoring the NSCW system to service.

Similarly, portions of the "NSCW keep full system" are isolated from the remainder of applicable NSCW train by check valves with no intermediate test connections. The "NSCW keep full system" is designed to maintain the idle train of NSCW pressurized and full of water by the use of an intertie from the operating train. To remove the check valve internals to facilitate hydrostatic testing is not prudent due to time constraints associated with disassembling the check valves and restoring the NSCW system to service.

RR-49 Addendum (Cont'd)

Alternate Examinations

Same as original RR-49 for pumps plus:

Intertie piping sections will be VT-2 examined each inspection period during system inservice testing of NSCW pumps.

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ENCLOSURE 2
(REVISION 6 TO VEGP-2 ISI PROGRAM DOCUMENT ISI-P-014)

TO

GEORGIA POWER COMPANY
LETTER LCV-0248,
"REVISIONS TO INSERVICE INSPECTION PROGRAMS"

VOGTLE ELECTRIC GENERATING PLANT
NRC DOCKET NOS. 50-424, 50-425