



South Texas Project Electric Generating Station P.O. Box 289 Wadsworth, Texas 77483

September 18, 2001
NOC-AE-01001181
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U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555-0001

South Texas Project
Units 1 and 2
Docket Nos. STN 50-498, STN 50-499
Request for Relief from ASME Boiler and Pressure Vessel Code Section XI
Requirements for Weld Examinations (Relief Request RR-ENG-38)

Reference: "South Texas Project, Units 1 and 2 Request for Relief for Reactor Pressure Vessel Weld Nondestructive Examination Coverage for the First 10-Year Inservice Inspection Interval, "NRC to William T. Cottle, dated June 20, 2001

Pursuant to 10CFR50.55a(g)(5)(iv), the South Texas Project submits the bases for not achieving complete coverage of examinations required by the ASME Section XI Code in the inservice inspection program. Examination requirements for Class 1 and Class 2 components are provided in ASME Section XI, Tables IWB-2500-1 and IWC-2500-1, for inservice inspection by nondestructive examination of component welds during the first inspection interval. The South Texas Project requests relief from obtaining results from essentially 100% of the examination volume or area of component welds during the first inspection interval, excluding reactor pressure vessel welds inspected by automated examination. 100% examination coverage of these welds is impractical because of component configuration and geometry, and because of the limitations of the examination equipment and techniques used to perform these examinations.

Limitations on examination coverage by automated examination of reactor pressure vessel welds were approved by the NRC in the referenced letter.

The attached discussion includes a list of the affected welds for which relief is requested, the amount of coverage obtained, and the basis and justification for their acceptability.

If there are any questions, please contact either Mr. Michael S. Lashley at (361) 972-7523 or me at (361) 972-7902.


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Attachment: Request for Relief from ASME Boiler and Pressure Vessel Code Section XI Requirements for Weld Examinations (Relief Request RR-ENG-38)

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**SOUTH TEXAS PROJECT
UNITS 1 AND 2
REQUEST FOR RELIEF FROM ASME BOILER AND PRESSURE VESSEL CODE
SECTION XI REQUIREMENTS FOR WELD EXAMINATIONS
(RELIEF REQUEST RR-ENG-38)**

Reference Code: ASME Boiler and Pressure Vessel Code, Section XI
1983 Edition through Summer 1983 Addenda

A. Components for Which Exemption is Requested

- (a) Name and Identification Number: Component welds (other than reactor pressure vessel welds inspected by automated examination) as listed in the attached tables.
- (b) Function: Various (Refer to applicable sections of the South Texas Project Updated Final Safety Analysis Report for specifics)
- (c) Class: ASME Code Class 1 or Class 2 as specified in the attached tables

B. Code Requirement from Which Relief is Requested

ASME Section XI Code Table IWB-2500-1 and Table IWC-2500-1 specifies the examination method and extent of coverage for nondestructive examination of welds. Relief is requested from the full volumetric or surface examination coverage requirements of the Section XI Code when the obtained coverage is 90% or less. The welds for which relief is requested are listed in the attached tables.

Welds having a reduction in volumetric or surface examination coverage of less than 10% are considered to have essentially 100% coverage in accordance with Section XI Code Case N-460.

C. Basis for Relief from Code Requirements

The South Texas Project requests relief from full examination coverage requirements for the welds listed in the attached tables based on the impracticality of achieving required coverage.

Obtaining required examination coverage of welds may not be practical due to various factors, including:

- component configuration,
- geometry, and
- examination equipment and techniques utilized for the examinations.

D. Alternate Examination

No alternate examinations are proposed for the welds for which relief is requested.

E. Justification for Granting Relief

100% examination coverage of these welds is impractical because of component configuration and geometry, and because of the limitations of the examination equipment and techniques used to perform these examinations. However, volumetric and surface examinations of accessible locations will continue as required.

F. Implementation Schedule

The South Texas Project requests that the Nuclear Regulatory Commission grant relief from the referenced nondestructive examination requirements pursuant to 10CFR50.55a(g)(6)(i). Approval of this application is requested by January 31, 2002.

WELD EXAMINATION COVERAGE – UNIT 1

ASME Category	ASME Item No.	ASME Class	Weld Identification	Weld Configuration	Total Volumetric Coverage	Total Surface Coverage	Description of Limitation	Outage
B-A	B1.21	1	RPV1-103-101	Closure Head Dome to Torus	81%	100%	Limited ultrasonic examination (UT) due to proximity of lifting lugs and insulation support ring.	1RE03 1RE05
B-D	B3.110	1	PRZ-1-N3	Pressurizer Head to Nozzle	71%	N/A	Limited UT from the nozzle side due to nozzle configuration.	1RE01
B-D	B3.110	1	PRZ-1-N4A	Pressurizer Head to Nozzle	69%	N/A	Limited UT from the nozzle side due to nozzle configuration.	1RE01
B-J	B9.11	1	29-RC-1101-5.1	Elbow to RSG Nozzle Safe End	87%	100%	Limited UT due to weld configuration and size of search unit required for cast stainless steel (SS) material.	1RE09
B-J	B9.11	1	29-RC-1201-5.1	Elbow to RSG Nozzle Safe End	87%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	1RE09
B-J	B9.11	1	29-RC-1301-5.1	Elbow to RSG Nozzle Safe End	87%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	1RE09
B-J	B9.11	1	29-RC-1401-4.1	Elbow to RSG Nozzle Safe End	87%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	1RE09
B-J	B9.11	1	31-RC-1102-1.1	RSG Nozzle Safe End to Elbow	87%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	1RE09
B-J	B9.11	1	31-RC-1202-1.1	RSG Nozzle Safe End to Elbow	87%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	1RE09
B-J	B9.11	1	31-RC-1302-1.1	RSG Nozzle Safe End to Elbow	87%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	1RE09
B-J	B9.11	1	31-RC-1402-1.1	RSG Nozzle Safe End to Elbow	87%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	1RE09

WELD EXAMINATION COVERAGE – UNIT 1

ASME Category	ASME Item No.	ASME Class	Weld Identification	Weld Configuration	Total Volumetric Coverage	Total Surface Coverage	Description of Limitation	Outage
B-J	B9.11	1	31-RC-1102-9	Elbow to RC Pump	36%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	1RE03
B-J	B9.11	1	31-RC-1202-9	Elbow to RC Pump	36%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	1RE03
B-J	B9.11	1	31-RC-1402-9	Elbow to RC Pump	38%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	1RE06
B-J	B9.11	1	12-RH-1101-10	Pipe to Elbow	81%	81%	Limited UT and magnetic particle examination (MT) due to proximity of permanent structural support.	1RE06
B-J	B9.31	1	27.5-RC-1403-4	4" BC to Main RC Loop	85%	100%	No UT from the main run side due to branch connection (BC) configuration.	1RE06
B-J	B9.31	1	29-RC-1101-3	12" BC to Main RC Loop	45%	100%	Limited UT from the BC side due to BC configuration.	1RE03
B-J	B9.31	1	29-RC-1401-2	16" BC to Main RC Loop	45%	100%	Limited UT from the BC side due to BC configuration.	1RE06
C-A	C1.10	2	RHAHRS-1A-S2	RHR Hx Shell to Flange	75%	N/A	No UT from the flange side due to flange configuration.	1RE01
C-B	C2.21	2	RHAHRS-1A-NA	Nozzle to RHR HX Shell	47%	100%	Limited UT on the weld and both sides due to weld configuration.	1RE06
C-B	C2.21	2	RHAHRS-1A-NB	Nozzle to RHR HX Shell	47%	100%	Limited UT on the weld and both sides due to weld configuration.	1RE06
C-C	C3.20	2	18-FW-1029-(1PL1-1PL8)	Feedwater Pipe Lugs	N/A	61%	Limited MT coverage due to configuration of the lugs and proximity of permanent pipe support.	1RE01

WELD EXAMINATION COVERAGE – UNIT 1

ASME Category	ASME Item No.	ASME Class	Weld Identification	Weld Configuration	Total Volumetric Coverage	Total Surface Coverage	Description of Limitation	Outage
C-C	C3.20	2	18-FW-1031-(1PL1-1PL8)	Feedwater Pipe Lugs	N/A	57%	Limited MT coverage due to configuration of the lugs and proximity of permanent pipe support.	1RE06
C-C	C3.20	2	30-MS-1001-(27PL1-27PL8)	Main Steam Pipe Lugs	N/A	55%	Limited MT coverage due to configuration of the lugs and proximity of permanent pipe support.	1RE01
C-C	C3.20	2	30-MS-1003-(26PL1-26PL8)	Main Steam Pipe Lugs	N/A	55%	Limited MT coverage due to configuration of the lugs and proximity of permanent pipe support.	1RE06
C-C	C3.20	2	30-MS-1004-(26PL1-26PL8)	Main Steam Pipe Lugs	N/A	55%	Limited MT coverage due to configuration of the lugs and proximity of permanent pipe support.	1RE07
C-C	C3.30	2	RHARHS-1A-IWA1, 2, 3	RHR Pump Integrally Welded Attachments	N/A	75%	Limited PT due to proximity of pump support.	1RE06
C-F-1	C5.11	2	16-SI-1201-5	Valve to Pipe	85%	100%	Limited UT from the valve side due to valve configuration.	1RE04
C-F-2	C5.51	2	30-MS-1001-27	Valve to Pipe	78%	100%	No UT from the valve side due to valve configuration.	1RE01
C-G	C6.10	2	CIAPCS-1A-PCW1	CS Pump Flange to Upper Casing	N/A	58%	Limited liquid penetrant (PT) due to proximity of floor penetration.	1RE07
C-G	C6.10	2	RHARHS-1A-PCW4	RHR Pump Casing to Nozzle	N/A	89%	Limited PT due to proximity of drip tray under the pump.	1RE05
BEZ (See Note 1)	--	2	18-FW-1029-(1PL1-1PL8)	Feedwater Pipe Lugs	82%	N/A	Limited UT coverage due to configuration of the lugs and proximity of permanent pipe support.	1RE01
BEZ (See Note 1)	--	2	30-MS-1001-(27PL1-27PL8)	Main Steam Pipe Lugs	88%	N/A	Limited UT coverage due to configuration of the lugs and proximity of permanent pipe support.	1RE01
BEZ (See Note 1)	--	2	30-MS-1001-28LD	Longitudinal Pipe Weld	53%	53%	Limited UT and MT of entire longseam length due to proximity of permanent pipe support.	1RE01

WELD EXAMINATION COVERAGE – UNIT 1								
ASME Category	ASME Item No.	ASME Class	Weld Identification	Weld Configuration	Total Volumetric Coverage	Total Surface Coverage	Description of Limitation	Outage
BEZ (See Note 1)	--	2	30-MS-1001-29LU	Longitudinal Pipe Weld	31%	31%	Limited UT and MT of entire longseam length due to proximity of permanent pipe support.	1RE01
BEZ (See Note 1)	--	2	30-MS-1002-26LD	Longitudinal Pipe Weld	75%	53%	Limited UT and MT of entire longseam length due to proximity of permanent pipe support.	1RE05
BEZ (See Note 1)	--	2	30-MS-1002-27LU	Longitudinal Pipe Weld	63%	31%	Limited UT and MT of entire longseam length due to proximity of permanent pipe support.	1RE05
BEZ (See Note 1)	--	2	30-MS-1003-27LD	Longitudinal Pipe Weld	75%	53%	Limited UT and MT of entire longseam length due to proximity of permanent pipe support.	1RE06
BEZ (See Note 1)	--	2	30-MS-1003-28LU	Longitudinal Pipe Weld	63%	31%	Limited UT and MT of entire longseam length due to proximity of permanent pipe support.	1RE06
BEZ (See Note 1)	--	2	30-MS-1004-25LU	Longitudinal Pipe Weld	82%	82%	Limited UT and MT of entire longseam length due to proximity of permanent pipe support.	1RE07
BEZ (See Note 1)	--	2	30-MS-1004-27LD	Longitudinal Pipe Weld	75%	53%	Limited UT and MT of entire longseam length due to proximity of permanent pipe support.	1RE07
BEZ (See Note 1)	--	2	30-MS-1004-28LU	Longitudinal Pipe Weld	63%	31%	Limited UT and MT of entire longseam length due to proximity of permanent pipe support.	1RE07

Note 1: BEZ is an Augmented Examination for the Break Exclusion Zone.

WELD EXAMINATION COVERAGE – UNIT 2

ASME Category	ASME Item No.	ASME Class	Weld Identification	Weld Configuration	Total Volumetric Coverage	Total Surface Coverage	Description of Limitation	Outage
B-A	B1.21	1	RPV2-103-101	Closure Head Dome to Torus	81%	100%	Limited UT due to proximity of lifting lugs and insulation support ring	2RE01 2RE03
B-B	B2.31	1	SG-2A-SR1 (See Note 1)	SG Primary Head to Support Ring	67%	N/A	No UT from the support ring side due to support ring configuration.	2RE02
B-B	B2.31	1	SG-2B-SR1 (See Note 1)	SG Primary Head to Support Ring	72%	N/A	No UT from the support ring side due to support ring configuration.	2RE03
B-B	B2.31	1	SG-2D-SR1 (See Note 1)	SG Primary Head to Support Ring	67%	N/A	No UT from the support ring side due to support ring configuration.	2RE02
B-B	B2.40	1	SG-2A-SR2 (See Note 1)	SG Support Ring to Tube Plate	68%	N/A	No UT from the support ring side due to support ring configuration. Limited UT from the tube plate side due to proximity of welded plates.	2RE02
B-B	B2.40	1	SG-2B-SR2 (See Note 1)	SG Support Ring to Tube Plate	66%	N/A	No UT from the support ring side due to support ring configuration. Limited UT from the tube plate side due to proximity of welded plates.	2RE03
B-B	B2.40	1	SG-2D-SR2 (See Note 1)	SG Support Ring to Tube Plate	68%	N/A	No UT from the support ring side due to support ring configuration. Limited UT from the tube plate side due to proximity of welded plates.	2RE02
B-D	B3.110	1	PRZ-2-N1	Pressurizer Head to Nozzle	66%	N/A	Limited UT from the nozzle side due to nozzle configuration.	2RE02
B-D	B3.110	1	PRZ-2-N2	Nozzle to Pressurizer Head	79%	N/A	Limited UT from the nozzle side due to nozzle configuration.	2RE04

WELD EXAMINATION COVERAGE – UNIT 2

ASME Category	ASME Item No.	ASME Class	Weld Identification	Weld Configuration	Total Volumetric Coverage	Total Surface Coverage	Description of Limitation	Outage
B-D	B3.110	1	PRZ2-N3	Pressurizer Head to Nozzle	64%	N/A	Limited UT from the nozzle side due to nozzle configuration.	2RE01
B-D	B3.110	1	PRZ2-N4A	Pressurizer Head to Nozzle	65%	N/A	Limited UT from the nozzle side due to nozzle configuration.	2RE01
B-D	B3.110	1	PRZ2-N4B	Pressurizer Head to Nozzle	79%	N/A	Limited UT from the nozzle side due to nozzle configuration.	2RE04
B-D	B3.110	1	PRZ2-N4C	Pressurizer Head to Nozzle	61%	N/A	Limited UT from the nozzle side due to nozzle configuration. Limited UT from the head side due to proximity of 2" nozzle.	2RE04
B-D	B3.130	1	SG-2A-IN	SG Nozzle to Head	88%	N/A	Limited UT from the head side due to proximity of vibration sensor instrumentation box. Limited UT from the nozzle side due to nozzle configuration.	2RE02
B-D	B3.130	1	SG-2A-ON	SG Nozzle to Head	88%	N/A	Limited UT from the head side due to proximity of vibration sensor instrumentation box. Limited UT from the nozzle side due to nozzle configuration.	2RE02
B-D	B3.130	1	SG-2B-IN	SG Nozzle to Head	63%	N/A	Limited UT from the head side due to proximity of vibration sensor instrumentation box. Limited UT from the nozzle side due to nozzle configuration.	2RE03
B-D	B3.130	1	SG-2B-ON	SG Nozzle to Head	64%	N/A	Limited UT from the head side due to proximity of vibration sensor instrumentation box. Limited UT from the nozzle side due to nozzle	2RE03

WELD EXAMINATION COVERAGE – UNIT 2

ASME Category	ASME Item No.	ASME Class	Weld Identification	Weld Configuration	Total Volumetric Coverage	Total Surface Coverage	Description of Limitation	Outage
							configuration.	
B-D	B3.130	1	SG-2C-IN	SG Nozzle to Head	61%	N/A	Limited UT from the head side due to proximity of vibration sensor instrumentation box. Limited UT from the nozzle side due to nozzle configuration.	2RE05
B-D	B3.130	1	SG-2C-ON	SG Nozzle to Head	61%	N/A	Limited UT from the head side due to proximity of vibration sensor instrumentation box. Limited UT from the nozzle side due to nozzle configuration.	2RE05
B-D	B3.130	1	SG-2D-IN	SG Nozzle to Head	88%	N/A	Limited UT from the head side due to proximity of vibration sensor instrumentation box. Limited UT from the nozzle side due to nozzle configuration.	2RE02
B-D	B3.130	1	SG-2D-ON	SG Nozzle to Head	88%	N/A	Limited UT from the head side due to proximity of vibration sensor instrumentation box. Limited UT from the nozzle side due to nozzle configuration.	2RE02
B-F	B5.130	1	29-RC-2101-5 (See Note 1)	Elbow to SG Nozzle	70%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	2RE02
B-F	B5.130	1	29-RC-2201-5 (See Note 1)	Elbow to SG Nozzle	70%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	2RE03

WELD EXAMINATION COVERAGE – UNIT 2

ASME Category	ASME Item No.	ASME Class	Weld Identification	Weld Configuration	Total Volumetric Coverage	Total Surface Coverage	Description of Limitation	Outage
B-F	B5.130	1	29-RC-2301-5 (See Note 1)	Elbow to SG Nozzle	40%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	2RE05
B-F	B5.130	1	29-RC-2401-4 (See Note 1)	Elbow to SG Nozzle	71%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	2RE02
B-F	B5.130	1	31-RC-2102-1 (See Note 1)	SG Nozzle to Elbow	70%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	2RE02
B-F	B5.130	1	31-RC-2202-1 (See Note 1)	SG Nozzle to Elbow	70%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	2RE03
B-F	B5.130	1	31-RC-2302-1 (See Note 1)	SG Nozzle to Elbow	88%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	2RE05
B-F	B5.130	1	31-RC-2402-1 (See Note 1)	SG Nozzle to Elbow	70%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	2RE02
B-F	B5.130	1	31-RC-2202-9	Elbow to RC Pump	38%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	2RE05
B-F	B5.130	1	31-RC-2302-9	Elbow to RC Pump	38%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	2RE05
B-F	B5.130	1	31-RC-2402-9	Elbow to RC Pump	38%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	2RE05
B-F	B5.40	1	PRZ2-N1-SE	Pressurizer Nozzle to Safe End	78%	100%	Limited UT from the safe end side due to nozzle configuration and proximity of welded lugs.	2RE05

WELD EXAMINATION COVERAGE – UNIT 2

ASME Category	ASME Item No.	ASME Class	Weld Identification	Weld Configuration	Total Volumetric Coverage	Total Surface Coverage	Description of Limitation	Outage
B-F	B5.40	1	PRZ2-N2SE	Pressurizer Nozzle to Safe End	84%	100%	Limited UT from the safe end side due to nozzle configuration.	2RE05
B-F	B5.40	1	PRZ2-N3-SE	Pressurizer Nozzle to Safe End	85%	100%	Limited UT from the safe end side due to nozzle configuration.	2RE01
B-F	B5.40	1	PRZ2-N4ASE	Pressurizer Nozzle to Safe End	82%	100%	Limited UT from the safe end side due to nozzle configuration.	2RE01
B-J	B9.11	1	12-SI-2218-1	Valve to Pipe	79%	100%	Limited UT from Valve side due to Valve configuration.	2RE04
B-J	B9.11	1	27.5-RC-2103-1	RC Pump to Pipe	51%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	2RE04
B-J	B9.11	1	27.5-RC-2203-1	RC Pump to Pipe	37%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	2RE04
B-J	B9.11	1	27.5-RC-2303-1	RC Pump to Pipe	40%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	2RE04
B-J	B9.11	1	27.5-RC-2403-1	RC Pump to Pipe	55%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	2RE04
B-J	B9.11	1	31-RC-2102-9	Elbow to RC Pump	42%	100%	Limited UT due to weld configuration and size of search unit required for cast SS material.	2RE02
B-J	B9.11	1	6-RC-2009-1	Safe End to Elbow	86%	100%	Limited UT from both sides due to weld configuration.	2RE04
B-J	B9.31	1	27.5-RC-2403-4	4" BC to Main RC Loop	85%	100%	Limited UT from the BC side due to BC configuration.	2RE05
B-J	B9.31	1	29-RC-2101-3	12" BC to Main RC Loop	45%	100%	Limited UT from the BC side due to BC configuration.	2RE02

WELD EXAMINATION COVERAGE – UNIT 2

ASME Category	ASME Item No.	ASME Class	Weld Identification	Weld Configuration	Total Volumetric Coverage	Total Surface Coverage	Description of Limitation	Outage
B-J	B9.31	1	29-RC-2401-2	16" BC to Main RC Loop	45%	100%	Limited UT from the BC side due to BC configuration.	2RE05
C-B	C2.21	2	RHAHRS-2A-NA	Nozzle to RHR HX Shell	69%	100%	Limited UT on the weld and both sides due to weld configuration.	2RE05
C-B	C2.21	2	RHAHRS-2A-NB	Nozzle to RHR HX Shell	69%	100%	Limited UT on the weld and both sides due to weld configuration.	2RE05
C-C	C3.20	2	18-FW-2029-(1PL1-1PL8)	Feedwater Pipe Lugs	N/A	51%	Limited MT coverage due to configuration of the lugs and proximity of permanent pipe support.	2RE01
C-C	C3.20	2	18-FW-2030-(1PL1-1PL8)	Feedwater Pipe Lugs	N/A	51%	Limited MT coverage due to configuration of the lugs and proximity of permanent pipe support.	2RE03
C-C	C3.20	2	18-FW-2031-(1PL1-1PL8)	Feedwater Pipe Lugs	N/A	51%	Limited MT coverage due to configuration of the lugs and proximity of permanent pipe support.	2RE06
C-C	C3.20	2	18-FW-2032-(1PL1-1PL8)	Feedwater Pipe Lugs	N/A	51%	Limited MT coverage due to configuration of the lugs and proximity of permanent pipe support.	2RE06
C-C	C3.20	2	30-MS-2001-(29PL1-29PL8)	Main Steam Pipe Lugs	N/A	54%	Limited MT coverage due to configuration of the lugs and proximity of permanent pipe support.	2RE01
C-C	C3.20	2	30-MS-2002-(30PL1-30PL8)	Main Steam Pipe Lugs	N/A	54%	Limited MT coverage due to configuration of the lugs and proximity of permanent pipe support.	2RE04
C-C	C3.20	2	30-MS-2003-(29PL1-29PL8)	Main Steam Pipe Lugs	N/A	54%	Limited MT coverage due to configuration of the lugs and proximity of permanent pipe support.	2RE05
C-C	C3.20	2	30-MS-2004-(28PL1-28PL8)	Main Steam Pipe Lugs	N/A	54%	Limited MT coverage due to configuration of the lugs and proximity of permanent pipe support.	2RE05

WELD EXAMINATION COVERAGE – UNIT 2

ASME Category	ASME Item No.	ASME Class	Weld Identification	Weld Configuration	Total Volumetric Coverage	Total Surface Coverage	Description of Limitation	Outage
C-C	C3.30	2	RHARHS-2A-IWA1, 2, 3	RHR Pump Integrally Welded Attachments	N/A	83%	Limited PT due to proximity of pump support.	2RE06
C-F-1	--	2	6-CS-2303-12	Pipe to Valve	89%	100%	Limited UT from valve side due to valve configuration.	2RE06
C-F-1	C5.11	2	6-SI-2107-1	Valve to Pipe	88%	100%	Limited UT from the valve side due to valve configuration.	2RE02
C-F-1	C5.11	2	6-SI-2109-11	Pipe to Valve	89%	100%	Limited UT from the valve side due to valve configuration.	2RE02
C-F-1	C5.21	2	2-SI-2206-5	Flange to Pipe	87%	100%	Limited UT from the flange side due to flange configuration.	2RE03
C-F-2	C5.51	2	30-MS-2001-26	Pipe to Pipe	87%	89%	Limited UT and MT coverage due to proximity of permanent pipe support.	2RE01
C-G	C6.10	2	CIAPCS-2A-PCW1	CS Pump Flange to Upper Casing	N/A	61%	Limited PT due to proximity of floor penetration.	2RE06
C-G	C6.10	2	SIAPLH-2A-PCW1	LHSI Pump Flange to Upper Casing	N/A	73%	Limited PT due to proximity of floor penetration.	2RE06
BEZ (See Note 2)	--	2	18-FW-2029-(1PL1-1PL8)	Feedwater Pipe Lugs	82%	N/A	Limited UT coverage due to configuration of the lugs and proximity of permanent pipe support.	2RE01
BEZ (See Note 2)	--	2	18-FW-2031-(1PL9-1PL10)	Feedwater Pipe Lugs	87%	N/A	Limited UT coverage due to configuration of the lugs and proximity of permanent pipe support.	2RE06
BEZ (See Note 2)	--	2	30-MS-2001-(29PL1-29PL8)	Main Steam Pipe Lugs	88%	N/A	Limited UT coverage due to configuration of the lugs and proximity of permanent pipe support.	2RE01
BEZ (See Note 2)	--	2	30-MS-2001-30LD	Longitudinal Pipe Weld	52%	52%	Limited UT and MT of entire longseam length due to proximity of permanent pipe support.	2RE01

WELD EXAMINATION COVERAGE – UNIT 2								
ASME Category	ASME Item No.	ASME Class	Weld Identification	Weld Configuration	Total Volumetric Coverage	Total Surface Coverage	Description of Limitation	Outage
BEZ (See Note 2)	--	2	30-MS-2001-31LU	Longitudinal Pipe Weld	28%	28%	Limited UT and MT of entire longseam length due to proximity of permanent pipe support.	2RE01
BEZ (See Note 2)	--	2	30-MS-2002-31LD	Longitudinal Pipe Weld	52%	52%	Limited UT and MT of entire longseam length due to proximity of permanent pipe support.	2RE04
BEZ (See Note 2)	--	2	30-MS-2002-32LU	Longitudinal Pipe Weld	28%	28%	Limited UT and MT of entire longseam length due to proximity of permanent pipe support.	2RE04
BEZ (See Note 2)	--	2	30-MS-2003-30LD	Longitudinal Pipe Weld	57%	57%	Limited UT and MT of entire longseam length due to proximity of permanent pipe support.	2RE05
BEZ (See Note 2)	--	2	30-MS-2003-31LU	Longitudinal Pipe Weld	28%	28%	Limited UT and MT of entire longseam length due to proximity of permanent pipe support.	2RE05
BEZ (See Note 2)	--	2	30-MS-2004-29LD	Longitudinal Pipe Weld	52%	52%	Limited UT and MT of entire longseam length due to proximity of permanent pipe support.	2RE05
BEZ (See Note 2)	--	2	30-MS-2004-30LU	Longitudinal Pipe Weld	29%	29%	Limited UT and MT of entire longseam length due to proximity of permanent pipe support.	2RE05

Note 1: This weld will be either deleted or replaced during replacement of Steam Generators in 2002.

Note 2: BEZ is an Augmented Examination for the Break Exclusion Zone.