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United States Nuclear Regulatory Commission
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SALEM GENERATING STATION – UNIT 2
FACILITY OPERATING LICENSE NO. DPR-75
NRC DOCKET NO. 50-311

Subject: **RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION,
INSERVICE INSPECTION PROGRAM RELIEF REQUESTS S2-I2-
RR-B01 AND S2-I2-RR-C01**

References: (1) Letter from PSEG to NRC: "Re-submittal of Inservice Inspection Program Relief Requests S2-I2-RR-B01 and S2-I2-RR-C01, Salem Nuclear Generating Station - Unit 2, Facility Operating License DPR-75, Docket No. 50-311," dated June 27, 2007

(2) Letter from NRC to PSEG: "Salem Nuclear Generating Station, Unit No. 2 – Request for Additional Information Related to Relief Requests S2-I2-RR-B01 and S2-I2-RR-C01 (TAC NOS. MD5977 and MD5978)," dated November 2, 2007.

In Reference 1, PSEG Nuclear LLC (PSEG) re-submitted inspection relief requests S2-I2-RR-B01 and S2-I2-RR-C01 associated with the Second Ten Year Inservice Inspection (ISI) Interval for Salem Unit 2.

In Reference 2, the NRC provided PSEG a Request for Additional Information (RAI) on the Reference 1 submittal. PSEG and the NRC had discussed the RAI in draft form in a conference call on October 25, 2007. The response to the RAI is provided in the attachment and the enclosure to this letter.

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11/14/07

If you have any questions or require additional information, please do not hesitate to contact Mr. Jeff Keenan at (856) 339-5429.

Sincerely,



for RCB 12/14/07

Robert C. Braun
Site Vice President
Salem Generating Station

Attachments: 1

Enclosures: 1 (10 Sketches)

CC Mr. S. Collins, Administrator - Region I
U. S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

Mr. R. Ennis, Licensing Project Manager - Salem
U. S. Nuclear Regulatory Commission
Mail Stop 08B1
Washington, DC 20555

USNRC Senior Resident Inspector – (Salem)

Mr. P. Mulligan
Bureau of Nuclear Engineering
P. O. Box 415
Trenton, NJ 08625

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION
REQUESTS FOR RELIEF REGARDING EXAMINATION COVERAGE
SECOND TEN-YEAR INSERVICE INSPECTION INTERVAL
SALEM NUCLEAR GENERATING STATION, UNIT NO. 2
DOCKET NO. 50-311

On June 27, 2007, PSEG Nuclear LLC (PSEG), the licensee for the Salem Nuclear Generating Station (Salem), Unit No. 2, requested relief from certain requirements of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code (Code), Section XI, for the inservice inspection (ISI) of Class 1 and Class 2 components (PSEG Letter LR-N07-0150).

By letter dated November 2, 2007, the Nuclear Regulatory Commission (NRC) provided PSEG a Request for Additional Information (RAI); specifically five questions prefaced by a "General" discussion. The responses to the five questions are provided below.

In addition to the specific RAI responses, it should be noted that one weld identified as 14-RH-2224-1 in Table 2-1 attached to LR-N07-0150 has been corrected to 14-SJ-2224-1 in Table 2-1, Revision 1 attached to this response. The revision was necessary, as a result of a correction identified and made during a prior review of welds in the ISI Program for Salem, Unit 2. Relief is being requested for this weld within this submittal (TAC MD5978).

Request For Additional Information Responses

General

In both Tables 1-1 and 2-1, notes to data in the column labeled "Relief Previously Granted" indicate that several of the welds have previously been granted relief based on one of the following stated references:

- (a) Evaluation of the Second Ten-Year Interval Inspection Program Plan and Associated Requests for Relief for Salem Generating Station, Unit 2 (TAC No. M83316), dated October 23, 1995
 - (b) Inservice Inspection - Long Term Plan, Final Relief Requests - First Interval, Salem Generating Station, Unit No. 2, Docket No. 50-311, dated September 28, 1992
1. It is unclear which of the stated references are applicable to which of the welds shown in these table columns. Clearly state which reference applies to each specific weld. Also, state why the final relief requests for the first interval in reference (b) above are relevant to the second ten-year interval.

Response 1:

Tables 1-1 and 2-1 have been revised clarifying the applicability of the two references. The first interval final relief request references are not directly relevant to the Second interval, but were provided as general information, to support review of the current requests to show precedence for relief during the previous interval. See response to Question 2 below for additional clarification.

2. Clearly state which welds are intended to be a part of current relief requests S2-I2-RR-B01 and S2-I2-RR-C01. Explain why additional relief is needed for those welds, which have previously been evaluated for the second ten-year ISI interval (reference (a) above).

Response 2:

Tables 1-1 and 2-1 have been revised to replace the column identified as "Relief Previously Granted" with 2 columns to clearly indicate when the prior relief was granted. These columns are titled "1st Interval Relief Granted under TAC M84658"; and "2nd Interval Relief Granted under TAC M83316."

Additionally, a third column was added to Table 1-1 to clearly indicate whether relief was being requested under the current submittal. This column is titled "Relief requested under this submittal (TAC MD5977)."

Similarly, a third column was added to Table 2-1 to clearly indicate whether relief was being requested under the current submittal. This column is titled "Relief requested under this submittal (TAC MD5978)."

Additional relief is not required for any of the welds where relief has been previously granted under TAC M83316.

Table 1-1, Revision 1 and Table 2-1, Revision 1 are included in this Attachment 1 and replace the previous tables submitted in LR-N07-0150.

Relief Request S2-I2-RR-B01

3. For reactor pressure vessel (RPV) welds 2-RPV-1443 A, C, and D; 2-RPV-1446 A through F; and, 2-RPV-3442 A through C, the sketches submitted by PSEG are not sufficient to demonstrate impracticality and do not support the written description of the limitations. Please submit information in the form of drawings, sketches and/or descriptions to support the determination that the inspection of these welds are limited and impractical.

An example that supports the claim for impracticality is provided by the licensee for weld 2-PZR-CIRC DUH. The sketches provided show the portion of the weld and base material that could not be examined, and indicate the outside geometry which limits scanning. It would also be helpful to describe the size of the inspection tool for the RPV, relative to the space available for inspection.

Response 3:

Relief has previously been granted for the Second Inspection Interval under TAC M83316 for welds identified as 2-RPV-1443C, 2-RPV-1443D, 2-RPVCH-1446A, 2-RPVCH-1446B, 2-RPVCH-1446C, 2-RPVCH-1446D, 2-RPVCH-1446E, and 2-RPVCH-1446F. The revised Table 1-1, (see response to Question 2 above), reflects this status. Therefore, relief is not being requested for these eight welds under the current submittal (TAC MD5978).

Relief is however required for four (4) welds identified as 2-RPV-3442A, 2-RPV-3442B, 2-RPV-3442C, and 2-RPV-1443C. A detailed explanation of the examination limitations for each of these welds is provided below.

Weld 2-RPV-3442A is a longitudinal weld located at 60° azimuth on the lower shell course of the RPV, which was examined from the vessel interior. The transducer package used has external dimensions of 9.51" by 5.38" fixed to the examination tool by a center point mount (Reference Enclosure 3-1). The examination was limited at the lower end by core barrel lugs measuring 18.1" by 16.81" as depicted on the Vessel Rollout sketch included within the WesDyne International Examination Program Plan, Sheet 1 (Reference Enclosure 3-2). The extent of coverage was determined as depicted on the lower long seam (longitudinal weld) sketch included within the WesDyne International Examination Program Plan, Sheet 18 (Reference Enclosure 3-3); which clearly depicts the limitation caused by the core barrel lug. The weld coverage estimate was calculated to be 80.5%, as detailed on the WesDyne International R.V. Coverage Estimate Breakdowns calculation (Reference Enclosure 3-4). As is shown in Table 1-1, the actual coverage achieved was 81%, which closely matches the pre-examination estimate. Additional examination data for these welds was previously provided as Photo/Sketch Nos. 215, 215A, 215B, 216, 217, and 218 within Enclosure 1 to our June 27, 2007 letter (LR-N07-0150). PSEG believes that this explanation, supported by the enclosed four (4) additional sketches provides the necessary detail to support the request for relief for the limited coverage attained during examination of this weld.

Weld 2-RPV-3442B is a longitudinal weld located at 180° azimuth on the lower shell course of the RPV. The transducer package used has external

dimensions of 9.51" by 5.38" fixed to the examination tool by a center point mount (Reference Enclosure 3-1). The examination was limited at the lower end by core barrel lugs measuring 18.1" by 16.81" as depicted on the Vessel Rollout sketch included within the WesDyne International Examination Program Plan, Sheet 1 (Reference Enclosure 3-2). The extent of coverage was determined as depicted on the lower long seam (longitudinal weld) sketch included within the WesDyne International Examination Program Plan, Sheet 18 (Reference Enclosure 3-3) which clearly depicts the limitation caused by the core barrel lug. The weld coverage estimate was calculated to be 80.5%, as detailed on the WesDyne International R.V. Coverage Estimate Breakdowns calculation (Reference Enclosure 3-5). As is shown in Table 1-1, the actual coverage achieved was 81%, which closely matches the pre-examination estimate. Additional examination data for these welds was previously provided as Photo/Sketch Nos. 215A, 215B, 219, 220, 221, and 222 within Enclosure 1 to our June 27, 2007 letter (LR-N07-0150). PSEG believes that this explanation, supported by the enclosed four (4) additional sketches provides the necessary detail to support the request for relief for the limited coverage attained during examination of this weld.

Weld 2-RPV-3442C is a longitudinal weld located at 300° azimuth on the lower shell course of the RPV. The transducer package used has external dimensions of 9.51" by 5.38" fixed to the examination tool by a center point mount (Reference Enclosure 3-1). The examination was limited at the lower end by core barrel lugs measuring 18.1" by 16.81" as depicted on the Vessel Rollout sketch included within the WesDyne International Examination Program Plan, Sheet 1 (Reference Enclosure 3-2). The extent of coverage was determined as depicted on the lower long seam (longitudinal weld) sketch included within the WesDyne International Examination Program Plan, Sheet 18 (Reference Enclosure 3-3) which clearly depicts the limitation caused by the core barrel lug. The weld coverage estimate was calculated to be 80.5%, as detailed on the WesDyne International R.V. Coverage Estimate Breakdowns calculation (Reference Enclosure 3-6). As is shown in Table 1-1, the actual coverage achieved was 81%, which closely matches the pre-examination estimate. Additional examination data for these welds was previously provided as Photo/Sketch Nos. 215A, 215B, 223, 224, 225, and 226 within Enclosure 1 to our June 27, 2007 letter (LR-N07-0150). PSEG believes that this explanation, supported by the enclosed four (4) additional sketches provides the necessary detail to support the request for relief for the limited coverage attained during examination of this weld.

Weld 2-RPV-1443C is a meridional weld located at 30° azimuth on the bottom head of the RPV. The transducer package used has external dimensions of 9.51" by 5.38" fixed to the examination tool by a center point mount (Reference Enclosure 3-1). This examination was limited by

instrumentation tubes as depicted on the Bottom Head Dollar/Penetrations Sketch included within the WesDyne International Examination Program Plan, Sheet 1 (Reference Enclosure 3-7). The instrument tube that caused the examination limitation, has been identified by a circle (with the number 32) located at azimuth 30.96° on this sketch. The extent of coverage was determined as depicted on the lower head meridional sketch included within the WesDyne International Examination Program Plan, Sheet 21 (Reference Enclosure 3-8). The weld coverage estimate was calculated to be 88.18%, as detailed on the WesDyne International R.V. Coverage Estimate Breakdowns calculation (Reference Enclosure 3-9). As is shown in Table 1-1, the actual coverage achieved was 88%, which closely matches the pre-examination estimate. Additional examination data for these welds was previously provided as Photo/Sketch Nos. 232, 233, 234, 235, and 236 within Enclosure 1 to our June 27, 2007 letter (LR-N07-0150). PSEG believes that this explanation, supported by the enclosed four (4) additional sketches provides the necessary detail to support the request for relief for the limited coverage attained during examination of this weld.

Relief Request S2-I2-RR-C01

4. For weld 12-RH-2252-2, the actual nondestructive examination (NDE) data sheet indicates that there was no limitation for the subject surface examination. However, Table 2-1 indicates that only 71% of the subject ASME surface area could be examined. Please explain this discrepancy and re-state the actual surface coverage obtained.

Response 4:

Weld 12-RH-2252-2 was not included within Table 2-1 submitted under LR-N07-0150. According to our records, this weld is a 12" Class 2 tee-to-pipe weld, which was identified as a Category C-F-1, Item C5.11 weld, and was not selected for examination during the second inspection interval. The weld is currently included within the RI-ISI scope, and is classified as a Category R-A, Item 1.20, Risk Category 4 weld, and is not selected for examination. Accordingly, relief is not being requested for this weld under the current submittal (TAC MD5978).

Welded attachments identified as 12-RH-2252-38PS-1&2 and 12-RH-2252-38PS-3 were examined during the Second Inspection Interval, achieved 71% of the required ASME surface area, and had been included within Table 2-1 submitted under LR-N07-0150 and the datasheets in the LR-N07-0150 enclosure do show examination limitations of 71% as well. As may be seen by reference to the revised Table 2-1 included within this response to the RAI, relief has previously been granted for both of these welded attachments for the Second Inspection Interval under TAC

M83316. Therefore, relief is not being requested for these welds under the current submittal (TAC MD5978).

5. For weld 8-CS-2227-5, the actual NDE data sheet indicates that the coverage obtained was 39.8%. However, Table 2-1 indicates that only 31% of the subject ASME Code required volume could be examined. Please explain this discrepancy and re-state the actual coverage obtained.

Response 5:

The actual coverage attained for weld 8-CS-2227-5 during the Second Inspection Interval was 39.8%. Upon review of all the available documentation, PSEG believes that a typographical error was made when compiling the voluminous information associated with this relief request. Relief is being requested for this weld under the current submittal (TAC MD5978).

The revised Table 2-1 included within this response to the RAI, has been corrected to reflect the actual coverage of 39.8%. Additionally, the supporting documentation identified as Photo/Sketch No. 338 of Enclosure 1 included within LR-N07-0150 has been corrected, and is included within this RAI response (Reference Enclosure 5-1).

Table 1-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 1 Component NDE Exam Limitations

Sum#	Component ID	Description	2 nd Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5977)	UT Exam Type and Limitation Description
000400	2-RPV-3442A	LOWER SHELL AT 60 DEG.	B-A	B1.12	1	RC	UT	81%	4/18/02	215, 215A, 215B, 216, 217, 218	IWB-2500-1	No	No	Yes	UT exam was conducted using 45-degree shear and refracted longitudinal wave transducers. The exams completed were limited to approximately 81% code required coverage due to the core barrel support lugs attached to the reactor vessel shell. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
000500	2-RPV-3442B	LOWER SHELL AT 180 DEG.	B-A	B1.12	1	RC	UT	81%	4/18/02	215A, 215B, 219, 220, 221, 222	IWB-2500-1	No	No	Yes	UT exam was conducted using 45-degree shear and refracted longitudinal wave transducers. The exams completed were limited to approximately 81% code required coverage due to the core barrel support lugs attached to the reactor vessel shell. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
000600	2-RPV-3442C	LOWER SHELL AT 300 DEG.	B-A	B1.12	1	RC	UT	81%	4/18/02	215A, 215B, 223, 224, 225, 226	IWB-2500-1	No	No	Yes	UT exam was conducted using 45-degree shear and refracted longitudinal wave transducers. The exams completed were limited to approximately 81% code required coverage due to the core barrel support lugs attached to the reactor vessel shell. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
002600	2-RPVCH-6446B	DOLLAR PLATE	B-A	B1.21	1	RC	UT	67%	10/28/94	45, 46, 47, 266A, 266B	IWB-2500-3	No	Yes RR-B1 Part 2	No	UT exam was conducted using 0-, 45- and, 60-degree shear wave transducers. The exam completed was limited to 67% code required coverage due to CRD Penetrations interferences interfering with scanning. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
002000	2-RPVCH-1446A	MERIDIONAL WELD AT 300 DEG	B-A	B1.22	1	RC	UT	31%	10/28/94	33, 34, 266A, 266B	IWB-2500-3	No	Yes RR-B1 Part 2	No	UT exam was conducted using 0-, 45- and, 60-degree shear and longitudinal wave transducers. The exam completed was limited to 31% code required coverage due to CRD Penetrations and Shroud Support Ring interferences interfering with scanning. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
002100	2-RPVCH-1446B	MERIDIONAL WELD AT 0 DEG.	B-A	B1.22	1	RC	UT	26%	10/28/94	35, 36, 266A, 266B	IWB-2500-3	No	Yes RR-B1 Part 2	No	UT exam was conducted using 0-, 45- and, 60-degree shear and longitudinal wave transducers. The exam completed was limited to 26% code required coverage due to CRD Penetrations and Shroud Support Ring and Lifting Lug interferences interfering with scanning. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.

Table 1-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 1 Component NDE Exam Limitations

Sum#	Component ID	Description	2 nd Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5977)	UT Exam Type and Limitation Description
002200	2-RPVCH-1446C	MERIDIONAL WELD AT 60 DEG.	B-A	B1.22	1	RC	UT	35%	10/28/94	37, 38, 266A, 266B	IWB-2500-3	No	Yes RR-B1 Part 2	No	UT exam was conducted using 0-, 45- and, 60-degree shear and longitudinal wave transducers. The exam completed was limited to 35% code required coverage due to CRD Penetrations and Shroud Support Ring interferences interfering with scanning. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
002300	2-RPVCH-1446D	MERIDIONAL WELD AT 120 DEG	B-A	B1.22	1	RC	UT	35%	10/28/94	39, 40, 266A, 266B	IWB-2500-3	No	Yes RR-B1 Part 2	No	UT exam was conducted using 0-, 45- and, 60-degree shear and longitudinal wave transducers. The exam completed was limited to 35% code required coverage due to CRD Penetrations and Shroud Support Ring and Lifting Lug interferences interfering with scanning. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
002400	2-RPVCH-1446E	MERIDIONAL WELD AT 180 DEG	B-A	B1.22	1	RC	UT	36%	10/28/94	41, 42, 266A, 266B	IWB-2500-3	No	Yes RR-B1 Part 2	No	UT exam was conducted using 0-, 45- and, 60-degree shear and longitudinal wave transducers. The exam completed was limited to 36% code required coverage due to CRD Penetrations and Shroud Support Ring interferences interfering with scanning. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
002500	2-RPVCH-1446F	MERIDIONAL WELD AT 240 DEG	B-A	B1.22	1	RC	UT	54%	10/28/94	43, 44, 266A, 266B	IWB-2500-3	No	Yes RR-B1 Part 2	No	UT exam was conducted using 0-, 45- and, 60-degree shear and longitudinal wave transducers. The exam completed was limited to 54% code required coverage due to CRD Penetrations and Shroud Support Ring and Lifting Lug interferences interfering with scanning. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
001300	2-RPV-1443A	MERIDIONAL WELD AT 270 DEG	B-A	B1.22	1	RC	UT	88%	4/18/02	227, 227A, 227B, 227C, 228, 229, 230, 231	IWB-2500-3	No	No	Yes	UT exam was conducted using 45-degree shear and longitudinal wave transducers. The exam completed was limited to 88% code required coverage due to instrumentation tubes interfering with scanning. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
001500	2-RPV-1443C	MERIDIONAL WELD AT 30 DEG.	B-A	B1.22	1	RC	UT	88%	4/18/02	232, 233, 234, 235, 236	IWB-2500-3	No	Yes RR-B1 Part 2	No	UT exam was conducted using 45-degree shear and longitudinal wave transducers. The exam completed was limited to 88% code required coverage due to instrumentation tubes interfering with scanning. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.

Table 1-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 1 Component NDE Exam Limitations

Sum#	Component ID	Description	2 nd Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5977)	UT Exam Type and Limitation Description
001600	2-RPV-1443D	MERIDIONAL WELD AT 90 DEG.	B-A	B1.22	1	RC	UT	72%	4/18/02	227A, 227B, 227C, 237, 238, 239	IWB-2500-3	No	Yes RR-B1 Part 2	No	UT exam was conducted using 45-degree shear and longitudinal wave transducers. The exam completed was limited to 72% code required coverage due to instrumentation tubes interfering with scanning. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
002700	2-RPV-7442	VESSEL TO FLANGE	B-A	B1.30	1	RC	UT	82%	4/18/02	240, 240A, 241, 242, 243, 244, 255, 256, 257, 258, 259, 260, 261, 262, 262A, 263, 264, 265	IWB-2500-4	Yes RR-1 Part A1	Yes RR-B1 Part 3	No	UT exam was conducted using 45-degree shear and longitudinal wave transducers. The exam completed was limited to 82% code required coverage due to OD configuration associated with the taper of the reactor vessel flange. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
002800	2-RPVCH-6446A	HEAD TO FLANGE	B-A	B1.40	1	RC	UT	79%	4/17/02	266, 266A, 266B, 267, 268, 269, 270, 270A, 270B, 270C, 270D, 270E, 270F, 270G	IWB-2500-5	No	No	Yes	UT exam was conducted using 45- and 60-degree shear wave transducers. The exam completed was limited to 79% code required coverage due to OD configuration associated with the reactor vessel closure head and flange. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed. Closure head was replaced 2R14 with monoblock design (Spring 2005).

Table 1-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 1 Component NDE Exam Limitations

Sum#	Component ID	Description	2 nd Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5977)	UT Exam Type and Limitation Description
010900	2-PZR-CIRC DUH	SHELL D TO UPPER HEAD	B-B	B2.11	1	RC	UT	37%	4/11/02	283, 284, 285, 286, 286A, 286B, 286C	IWB-2500-1	No	No	Yes	UT exam was conducted using 45- and 60-degree shear wave transducers. The exam completed was limited to 37% code required coverage due to due to support ring clamped to the upper head of the pressurizer head. A total of 140° of the total circumference was accessible for examination. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
010400	2-PZR-LONG D	LONGITUDINAL WELD SHELL D	B-B	B2.12	1	RC	UT	74%	9/7/96	84A, 84B, 85, 86, 87, 88	IWB-2500-2	No	No	Yes	UT exam was conducted using 45- and 60-degree shear wave transducers. The exam completed was limited to 74% code required coverage. The UT exams conducted were limited due to a permanently installed insulation support bracket. The exam was limited between 0° to 9° with 9° to 13° being restricted due to permanently installed insulation brackets. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
011100	4-PSN-1231-IRS	SAFETY NOZZLE	B-D	B3.120	1	RC	UT	50%	9/7/96	89, 89A, 89B, 90, 91, 92, 93	IWB-2500-7(b)	No	No	Yes	UT exam was conducted using a 53-degree shear wave transducer. The exam completed was limited to 50% code required coverage. The UT exam conducted was limited due to due to the permanent raised manufacturer ID #'s casted to the lower head. No exam could be performed from the vessel side between 0° and 180° due to the raised manufacturer ID #'s casted to the head. The exam was performed from 180° to 360°. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
020800	31-STG-1220-IRS	OUTLET NOZZLE IRS	B-D	B3.140	1	RC	UT	80%	10/24/94	311, 312, 313, 313P, 313Q, 313R	IWB-2500-7(d)	Yes RR-1 Part A2	Yes RR-B1 Part 6	No	UT exam was conducted using 28- and 38-degree refracted longitudinal wave transducers. The exam completed was limited to 80% code required coverage due to an installed insulation support ring. The exam surface is approximately 153.9" with the length of the limitation being 30". No exam could be performed between 15" ccw to 15" cw from datum zero. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.

Table 1-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 1 Component NDE Exam Limitations

Sum#	Component ID	Description	2 nd Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5977)	UT Exam Type and Limitation Description
021200	29-STG-1220-IRS	INLET NOZZLE IRS	B-D	B3.140	1	RC	UT	73%	10/24/94	311, 312, 313, 313D, 313E, 313F	IWB-2500-7(d)	Yes RR-1 Part A2	Yes RR-B1 Part 6	No	UT exam was conducted using 28- and 38-degree refracted longitudinal wave transducers. The exam completed was limited to 73% code required coverage due to an installed insulation support ring. The exam surface is approximately 154" with the length of the limitation being 73". No exam was able to be performed between 24" ccw to 15" cw from datum zero on insulation support lug located 77"cw to 79"cw with 2"W measurement. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
020700	31-STG-1230-IRS	OUTLET NOZZLE IRS	B-D	B3.140	1	RC	UT	81%	5/12/99	311, 312, 313, 313S, 313T, 313U	IWB-2500-7(d)	Yes RR-1 Part A2	Yes RR-B1 Part 6	No	UT exam was conducted using 28- and 38-degree refracted longitudinal wave transducers. The exam completed was limited to 81% code required coverage due to an installed insulation support brackets connected to the cast head that restricted scanning. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
021100	29-STG-1230-IRS	INLET NOZZLE IRS	B-D	B3.140	1	RC	UT	75%	5/12/99	311, 312, 313, 313G, 313H, 313-I	IWB-2500-7(d)	Yes RR-1 Part A2	Yes RR-B1 Part 6	No	UT exam was conducted using 28- and 38-degree refracted longitudinal wave transducers. The exam completed was limited to 75% code required coverage due to an installed insulation support brackets connected to the cast head that restricted scanning. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
020600	31-STG-1240-IRS	OUTLET NOZZLE IRS	B-D	B3.140	1	RC	UT	85%	4/23/02	311, 312, 313, 313V, 313W, 313X	IWB-2500-7(d)	Yes RR-1 Part A2	Yes RR-B1 Part 6	No	UT exam was conducted using 28- and 38-degree refracted longitudinal wave transducers. The exams completed was limited to 85% code required coverage due to due to the insulation support brackets attached to the steam generators lower head that interfered with scanning. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
020900	31-STG-1210-IRS	OUTLET NOZZLE IRS	B-D	B3.140	1	RC	UT	79%	4/23/02	311, 312, 313, 313M, 313N, 313-O	IWB-2500-7(d)	Yes RR-1 Part A2	Yes RR-B1 Part 6	No	UT exam was conducted using 28- and 38-degree refracted longitudinal wave transducers. The exams completed was limited to 79% code required coverage due to due to the insulation support brackets attached to the steam generators lower head that interfered with scanning. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.

Table 1-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 1 Component NDE Exam Limitations

Sum#	Component ID	Description	2 nd Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5977)	UT Exam Type and Limitation Description
021000	29-STG-1240-IRS	INLET NOZZLE IRS	B-D	B3.140	1	RC	UT	86%	4/23/02	311, 312, 313, 313K, 313L	IWB-2500-7(d)	Yes RR-1 Part A2	Yes RR-B1 Part 6	No	UT exam was conducted using 28- and 38-degree longitudinal wave transducers. The exams completed was limited to 86% code required coverage due to the insulation support brackets attached to the steam generators lower head that interfered with scanning. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
021300	29-STG-1210-IRS	INLET NOZZLE IRS	B-D	B3.140	1	RC	UT	82%	4/23/02	311, 312, 313, 313A, 313B, 313C	IWB-2500-7(a)	Yes RR-1 Part A2	Yes RR-B1 Part 6	No	UT exam was conducted using 28- and 38-degree longitudinal wave transducers. The exams completed was limited to 82% code required coverage due to the insulation support brackets attached to the steam generators lower head that interfered with scanning. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
003600	29-RCN-1210	OUTLET NOZZLE AT 338 DEG.	B-D	B3.90	1	RC	M-UT	72%	12/19/02	271, 271A, 271B, 280, 281	IWB-2500-7(b)	Yes RR-3	Yes RR-B1 Part 4	No	UT exam was conducted using 45-degree shear and refracted longitudinal wave transducers. The ultrasonic examination completed was partially limited to 72% of the code required coverage being achieved due to the OD configuration of the nozzle protrusion (boss) that interfered with scanning. There were no unacceptable indications observed. A system pressure test was also completed with no unacceptable indications observed.
002900	29-RCN-1230	OUTLET NOZZLE AT 22 DEG.	B-D	B3.90	1	RC	UT	72%	12/19/02	271, 271A, 271B, 272, 273	IWB-2500-7(b)	Yes RR-3	Yes RR-B1 Part 4	No	UT exam was conducted using 45-degree shear refracted longitudinal wave transducers. The ultrasonic examination completed was partially limited to 72% of the code required coverage being achieved due to the OD configuration of the nozzle protrusion (boss) that interfered with scanning. There were no unacceptable indications observed. A system pressure test was also completed with no unacceptable indications observed.
003300	29-RCN-1220	OUTLET NOZZLE AT 203 DEG.	B-D	B3.90	1	RC	UT	72%	12/19/02	271A, 271B, 277, 278, 279	IWB-2700-7(a)	Yes RR-3	Yes RR-B1 Part 4	No	UT exam was conducted using 45-degree shear and longitudinal wave transducers. The exam completed was limited to 72% code required coverage due to the OD configuration of the nozzle protrusion (boss). No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.

Table 1-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 1 Component NDE Exam Limitations

Sum#	Component ID	Description	2 nd Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5977)	UT Exam Type and Limitation Description
003200	29-RCN-1240	OUTLET NOZZLE AT 158 DEG.	B-D	B3.90	1	RC	UT	72%	12/19/02	271A, 271B, 274, 275, 276	IWB-2700-7(a)	Yes RR-3	Yes RR-B1 Part 4	No	UT exam was conducted using 45-degree shear and longitudinal wave transducers. The exam completed was limited to 72% code required coverage due to the OD configuration of the nozzle protrusion (boss). No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
011800	6-PR-1205-1	NOZZLE TO SAFE-END	B-F	B5.40	1	RC	UT	38%	10/14/00	298, 298A, 298B, 298C, 298D, 299, 300	IWB-2500-7(b)	Yes RR-1 Part A3	Yes RR-B1 Part 5	No	UT exam was conducted using 30-degree refracted longitudinal wave transducer. The ultrasonic examination completed was partially limited to 38% of the code required converge being achieved due to the OD configuration of the nozzle to safe-end that did not lend itself to achieving full coverage from the upstream side when scanning was performed. There were no unacceptable indications observed. UT exam performed was best effort. This weld configuration does not contain Alloy 600, 82/182 weld material. A liquid penetrant examination and system pressure test were also completed with no recordable indications observed.
011820	6-PR-1203-1	NOZZLE TO SAFE-END	B-F	B5.40	1	RC	UT	86%	4/21/99	300, 301, 302, 302A, 302B, 302C	IWB-2500-8	Yes RR-1 Part A3	No	Yes	UT exam was conducted using 45-, and 25-degree shear and refracted longitudinal wave transducer. The exam completed was limited to 86% code required coverage due to the exam being limited by the OD configuration of the nozzle and safe-end. This weld configuration does not contain Alloy 600, 82/182 weld material. No unacceptable indications were noted. A liquid penetrant test and system pressure test were also completed with no unacceptable indications observed.
011830	4-PR-1200-1	NOZZLE TO SAFE-END	B-F	B5.40	1	RC	UT	84%	4/21/99	300, 303, 304, 304A, 304B, 304C, 304D	IWB-2500-8	No	Yes RR-B1 Part 5	No	UT exam was conducted using 45-degree shear wave transducer. The exam completed was limited to 84% code required coverage due to the exam being limited by the OD configuration of the nozzle and safe-end. This weld configuration does not contain Alloy 600, 82/182 weld material. No unacceptable indications were noted. A liquid penetrant test and system pressure test were also completed with no unacceptable indications observed.

Table 1-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 1 Component NDE Exam Limitations

Sum#	Component ID	Description	2 nd Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5977)	UT Exam Type and Limitation Description
083300	29-RC-1210-5	ELBOW TO NOZZLE	B-F	B5.70	1	RC	UT	67%	10/28/94	305, 306, 306A, 306B, 312, 313, 315	IWB-2500-8	Yes RR-1 Part A3	Yes RR-B1 Part 7	No	UT exam was conducted using 45-degree shear wave transducer. The exam completed was limited to 67% code required coverage due to no UT axial scan exam was performed from the upstream or the downstream side of the weld due to the elbow being fabricated from ASTM351-65 CF8M cast stainless steel whose acoustic properties is not conducive for ultrasonic examination and the OD configuration of the nozzle. A clockwise and counterclockwise exam was performed of the weld crown. No unacceptable indications were noted. A liquid penetrant exam and system pressure test were also completed with no unacceptable indications observed.
070000	31-RC-1240-1	NOZZLE TO ELBOW	B-F	B5.70	1	RC	UT	50%	10/28/94	312, 313, 315, 315B, 316H, 316-I, 316J	IWB-2500-8	Yes RR-1 Part A3	Yes RR-B1 Part 7	No	UT exam was conducted using 45-degree shear wave transducer. The exam completed was limited to 50% code required coverage due to no UT axial scan exam was performed from either the upstream or the downstream side of the weld due to the elbow being fabricated from ASTM351-65 CF8M cast stainless steel whose acoustic properties is not conducive for ultrasonic examination and the OD configuration of the nozzle. A clockwise and counterclockwise exam was performed of the weld crown. No unacceptable indications were noted. A liquid penetrant exam and system pressure test were also completed with no unacceptable indications observed.
072300	31-RC-1230-1	NOZZLE TO ELBOW	B-F	B5.70	1	RC	UT	50%	4/24/99	312, 313, 315, 315A, 316E, 316F, 316G, 317	IWB-2500-8	Yes RR-1 Part A3	Yes RR-B1 Part 7	No	UT exam was conducted using 45-degree refracted longitudinal wave transducer. The exam completed was limited to 50% code required coverage due to no UT axial scan exam was performed from either the upstream or the downstream side of the weld due to the elbow being fabricated from ASTM351-65 CF8M cast stainless steel whose acoustic properties is not conducive for ultrasonic examination and the OD configuration of the nozzle. A clockwise and counterclockwise exam was performed of the weld crown. No unacceptable indications were noted. A liquid penetrant exam and system pressure test were also completed with no unacceptable indications observed.

Table 1-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 1 Component NDE Exam Limitations

Sum#	Component ID	Description	2 nd Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5977)	UT Exam Type and Limitation Description
074600	31-RC-1220-1	NOZZLE TO ELBOW	B-F	B5.70	1	RC	UT	50%	4/24/99	312, 313, 315, 316A, 316B, 316C, 316D	IWB-2500-8	Yes RR-1 Part A3	Yes RR-B1 Part 7	No	UT exam was conducted using 45-degree refracted longitudinal wave transducer. The exam completed was limited to 50% code required coverage due to no UT axial scan exam was performed from either the upstream or the downstream side of the weld due to the elbow being fabricated from ASTM351-65 CF8M cast stainless steel whose acoustic properties is not conducive for ultrasonic examination and the OD configuration of the nozzle. A clockwise and counterclockwise exam was performed of the weld crown. No unacceptable indications were noted. A liquid penetrant exam and system pressure test were also completed with no unacceptable indications observed.
076800	31-RC-1210-1	NOZZLE TO ELBOW	B-F	B5.70	1	RC	UT	50%	4/24/99	315, 315B, 317, 317A, 317B	IWB-2500-8	Yes RR-1 Part A3	Yes RR-B1 Part 7	No	UT exam was conducted using 45-degree refracted longitudinal wave transducer. The exam completed was limited to 50% code required coverage due to no UT axial scan exam was performed from either the upstream or the downstream side of the weld due to the elbow being fabricated from ASTM351-65 CF8M cast stainless steel whose acoustic properties is not conducive for ultrasonic examination and the OD configuration of the nozzle. A clockwise and counterclockwise exam was performed of the weld crown. No unacceptable indications were noted. A liquid penetrant exam and system pressure test were also completed with no unacceptable indications observed.
080300	29-RC-1230-3	PIPE TO PIPE	B-J	B9.11	1	RC	UT	90%	4/6/93	1, 2	IWB-2500-8	No	No	Yes, greater than 90% required by N-460.	UT exam was conducted using 45-degree shear wave transducer. The ultrasonic examination completed was partially limited to 90% of the code-required coverage being achieved due to branch connections between 37 3/4" to 41" and 104 1/2" to 1 1/2" that did not lend itself to achieving full coverage from the downstream side when scanning was performed. Scanning was performed across the weld to maximize achieved Code coverage. There were no unacceptable indications observed. No unacceptable indications were noted. This weld configuration does not contain Alloy 600, 82/182-weld material. A liquid penetrant examination and system pressure test was also completed with no recordable indications observed.

Table 1-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 1 Component NDE Exam Limitations

Sum#	Component ID	Description	2 nd Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5977)	UT Exam Type and Limitation Description
164000	10-SJ-1221-21	ELBOW TO PIPE	B-J	B9.11	1	SJ	UT	83%	4/12/93	3, 3A, 3B, 3C	IWB-2500-8	No	No	Yes	UT exam was conducted using 45-degree shear wave transducer. The ultrasonic examination completed was partially limited to 83% of the achieved code required coverage being limited from 13" to 21" on upstream side due to the curvature of the shortened inner radius of the elbow. Scanning was also performed across the weld to maximize achieved code coverage. No unacceptable indications were observed. A liquid penetrant examination and system pressure test was also completed with no recordable indications observed.
166000	8-SJ-1262-10	PIPE TO PIPE	B-J	B9.11	1	SJ	UT	82%	3/27/93	4, 4A, 4B, 4C, 4D	IWB-2500-8	No	No	Yes	UT exam was conducted using 45-degree shear wave transducer. The ultrasonic examination completed was partially limited to 82% of the achieved code required coverage being limited due to a permanently installed pipe support (9PS) that restricted scanning to approximately 1 3/4" of the upstream side of the weld. No unacceptable indications were observed. A liquid penetrant examination and system pressure test was also completed with no recordable indications observed.
169450	8-SJ-1245-1	TEE TO VALVE 24RH27	B-J	B9.11	1	SJ	UT	36%	4/14/93	5, 6, 6A, 6B, 6C	IWB-2500-8	No	Yes RR-B1 Part 8	No	UT exam was conducted using 45-degree shear wave transducer. The ultrasonic examination completed was partially limited to 36% of the achieved code required coverage being limited due to the tee to valve configuration and the shortened radius of the tee between 9" to 18" and 23" TO 4". The exam was limited on the downstream side due to the OD configuration of the valve and the upstream side of the tee. No unacceptable indications were observed. A liquid penetrant examination and system pressure test was also completed with no recordable indications observed.
172500	6-SJ-1241-18	ELBOW TO PIPE	B-J	B9.11	1	SJ	UT	90%	4/3/93	7, 7A, 7B, 7C	IWB-2500-8	No	No	Yes, greater than 90% required by N-460.	UT exam was conducted using 45-degree shear wave transducer. The ultrasonic examination completed was partially limited to 90% of the achieved code required coverage being limited due to close proximity of the adjacent weld # 19 located downstream. No unacceptable indications were observed. A liquid penetrant examination and system pressure test were also completed with no recordable indications observed.

Table 1-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 1 Component NDE Exam Limitations

Sum#	Component ID	Description	2 nd Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5977)	UT Exam Type and Limitation Description
076000	31-RC-1220-4	ELBOW TO PIPE	B-J	B9.11	1	RC	UT	84%	10/27/94	48, 49, 50, 50A, 50B, 50C	IWB-2500-8	No	Yes RR-B1 Part 8	No	UT exam was performed using 45-degree shear wave transducer from the pipe side with no exam able to be conducted from the elbow side due to the elbow being fabricated from ASTM351-65 CF8M cast stainless steel whose acoustic properties is not conducive for ultrasonic examination. The exam completed was limited to 84% code required coverage. No unacceptable indications were noted. The downstream exam was limited between 55" to 62" due to a branch connection that interfered with scanning. A liquid penetrant examination and system pressure test were also completed with no unacceptable indications observed.
054400	4-PR-1200-7	PIPE TO TEE	B-J	B9.11	1	RC	UT	59%	5/3/99	124, 125, 126	IWB-2500-8	No	No	Yes	UT exam was conducted using 45-degree shear and refracted longitudinal wave transducers. The exam completed was limited to 59% code required coverage due to no UT exam being able to be performed from the downstream side due to the tee to valve configuration. In addition, the exam conducted from the upstream side was limited due to the radius of the tee. Scanned across weld to maximize achieved Code coverage. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.
063000	4-PS-1231-20	VALVE 2PS28 TO PIPE	B-J	B9.11	1	RC	UT	59%	5/17/99	129, 130, 131, 131A, 131B, 131C	IWB-2500-8	No	No	Yes	UT exam was conducted using 45-degree shear and refracted longitudinal wave transducer. The exam completed was limited to 59% code required coverage due to the UT exam being limited due to the upstream side valve's OD configuration that restricted scanning. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.
063100	4-PS-1231-21	PIPE TO VALVE 2PS3	B-J	B9.11	1	RC	UT	55%	5/17/99	132, 133, 134	IWB-2500-8	No	No	Yes	UT exam was conducted using 45-degree shear and refracted longitudinal wave transducer. The exam completed was limited to 55% code required coverage due to the UT exam being limited due to the upstream side valve's OD configuration that restricted scanning. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.

Table 1-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 1 Component NDE Exam Limitations

Sum#	Component ID	Description	2 nd Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5977)	UT Exam Type and Limitation Description
168200	8-SJ-1252-9	PIPE TO PIPE	B-J	B9.11	1	SJ	UT	86%	5/8/99	135, 136	IWB-2500-8	No	No	Yes	UT exam was conducted using 45-degree shear and refracted longitudinal wave transducer. The exam completed was limited to 86% code required coverage due to the UT exam being limited UT exam performed due two permanently welded pipe supports located on the downstream side of the weld that restricted scanning. The two pipe supports exist at 90° and 270° around the pipe for a total of 12". UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.
170850	6-SJ-1242-2	ELBOW TO VALVE 24SJ43	B-J	B9.11	1	SJ	UT	62%	5/3/99	137, 138, 139	IWB-2500-8	No	No	Yes	UT exam was conducted using 45-degree shear and refracted longitudinal wave transducer. The exam completed was limited to 62% code required coverage due to the UT exam being limited due to the valve's OD configuration that restricted scanning. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.
173300	6-SJ-1232-12	PIPE TO TEE	B-J	B9.11	1	SJ	UT	61%	5/3/99	140, 141, 142	IWB-2500-8	No	No	Yes	UT exam was conducted using 45-degree shear and refracted longitudinal wave transducer. The exam completed was limited to 61% code required coverage due to the UT exam being limited due to the tee's OD configuration that restricted scanning. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.
175600	6-SJ-1212-2	VALVE 21SJ43 TO PIPE	B-J	B9.11	1	SJ	UT	61%	5/3/99	143, 144	IWB-2500-8	No	No	Yes	UT exam was conducted using 45-degree shear and refracted longitudinal wave transducer. The exam completed was limited to 61% code required coverage due to the UT exam being limited due to the valve's OD configuration that restricted scanning. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.

Table 1-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 1 Component NDE Exam Limitations

Sum#	Component ID	Description	2 nd Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5977)	UT Exam Type and Limitation Description
084400	27.5-RC-1230-1	PUMP TO PIPE	B-J	B9.11	1	RC	UT	49%	10/16/00	173, 174, 174A, 174B, 174C, 174D	IWB-2500-8	No	No	Yes	UT exam was conducted using 45- and 60-degree shear wave transducer. The exam completed was limited to 49% code required coverage due to the UT exam being limited due to the OD configuration of the pump nozzle and the presence of a branch connection located downstream between 101" to 3" that restricted scanning. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.
174300	6-RH-1231-16	ELBOW TO VALVE 23SJ156	B-J	B9.11	1	RHR	UT	50%	10/18/00	175, 176, 176A	IWB-2500-8	No	No	Yes	UT exam was conducted using 45-degree shear wave transducer. The exam completed was limited to 50% code required coverage due to the UT exam being limited due to the valve's OD configuration that restricted scanning. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.
075800	31-RC-1220-4LU-I	LONGITUDINAL	B-J	B9.12	1	RC	UT	0%	10/28/94	315, 315C, 315D	IWB-2500-8	No	Yes RR-B1 Part 8	No	No UT exam was able to be conducted from the elbow side due to the elbow being fabricated from ASTM351-65 CF8M cast stainless steel whose acoustic properties is not conducive for ultrasonic examination. A PT exam of the long seam was performed in lieu of the UT exam because of the elbow's acoustic properties of the casting. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
075900	31-RC-1220-4LU-O	LONGITUDINAL	B-J	B9.12	1	RC	UT	0%	10/28/94	315, 315E, 315F	IWB-2500-8	No	Yes RR-B1 Part 8	No	No UT exam was able to be conducted from the elbow side due to the elbow being fabricated from ASTM351-65 CF8M cast stainless steel whose acoustic properties is not conducive for ultrasonic examination. A PT exam of the long seam was performed in lieu of the UT exam because of the elbow's acoustic properties of the casting. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
034500	3-CV-1241-13	VALVE 2CV80 TO ELBOW	B-J	B9.21	1	CVC	UT	75%	9/22/98	168, 169	IWB-2500-8	No	No	Yes	UT exam was conducted using 45- and 70-degree shear wave transducers. The exam completed was limited to 75% code required coverage due the upstream side of the weld due to the valve's OD configuration that interfered with scanning. Component selected as an augmented 88-08 exam. No unacceptable indications were noted. A liquid penetrant and system pressure test was also completed with no unacceptable indications observed.

Table 1-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 1 Component NDE Exam Limitations

Sum#	Component ID	Description	2 nd Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5977)	UT Exam Type and Limitation Description
036000	3-CV-1231-14	PIPE TO VALVE 2CV274	B-J	B9.21	1	CVC	UT	75%	10/11/00	172, 172A, 172B, 172C	IWB-2500-8	No	No	Yes	UT exam was conducted using 45-shear wave transducer. The exam completed was limited to 75% code required coverage due to the UT exam being limited due to the valve's OD configuration that restricted scanning. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.
034600	3-CV-1241-14	ELBOW TO BRANCH CONNECTION	B-J	B9.21	1	CVC	UT	75%	10/14/00	170, 171	IWB-2500-11	No	No	Yes	UT exam was conducted using 45- and 70-degree shear wave transducers. The exam completed was limited to 75% code required coverage due to the OD configuration of the branch connection that interfered with scanning. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.
085000	27.5-RC-1230-1BC-5	4 IN. BRANCH CONNECTION	B-J	B9.31	1	RC	UT	55%	11/7/94	51, 52, 53, 54	IWB-2500-8	No	Yes RR-B1 Part 9	No	UT exam was conducted using 45- and 32-degree shear wave transducers. The exam completed was limited to 55% code required coverage due to the exam being limited by a branch connection configuration. The exam was limited 1 1/2" W measurement due to the branch connection's OD configuration that interfered with scanning. No unacceptable indications were noted. A liquid penetrant and system pressure test was also completed with no unacceptable indications observed.
086800	27.5-RC-1210-1BC-3	10 IN. BRANCH CONNECTION	B-J	B9.31	1	RC	UT	56%	11/7/94	55, 56, 57, 58, 59	IWB-2500-8	No	Yes RR-B1 Part 9	No	UT exam was conducted using 45- and 39-degree shear wave transducers. The exam completed was limited to 56% code required coverage due to the exam being limited by a branch connection configuration. The exam was limited 1 1/2" W measurement due to the branch connection's OD configuration that interfered with scanning. No unacceptable indications were noted. A liquid penetrant and system pressure test was also completed with no unacceptable indications observed.
086900	27.5-RC-1210-1BC-4	4 IN. BRANCH CONNECTION	B-J	B9.31	1	RC	UT	53%	11/7/94	60, 61, 62, 63	IWB-2500-8	No	Yes RR-B1 Part 9	No	UT exam was conducted using 45- and 32-degree shear wave transducers. The exam completed was limited to 53% code required coverage due to the exam being limited by a branch connection configuration. The exam was limited 1 1/2" W measurement due to the branch connection's OD configuration that interfered with scanning. No unacceptable indications were noted. A liquid penetrant and system pressure test was also completed with no unacceptable indications observed.

Table 1-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 1 Component NDE Exam Limitations

Sum#	Component ID	Description	2 nd Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5977)	UT Exam Type and Limitation Description
040900	2-CV-1275-43	VALVE 2CV76 TO PIPE	B-J	B9-40	1	CVC	UT	50%	10/14/00	314, 314A, 314B, 314C	IWB-2500-8	No	No	Yes	UT exam was conducted using 45-degree shear wave transducer. The exam completed was limited to 50% code required coverage due to the exam limited to 3/8" W due to the close proximity of the downstream socket weld # 44 being too close that interfered with scanning. Component selected as an augmented 88-08 exam. No unacceptable indications were noted. A liquid penetrant and system pressure test was also completed with no unacceptable indications observed.
041000	2-CV-1275-44	PIPE TO BRANCH CONNECTION	B-J	B9-40	1	CVC	UT	50%	10/14/00	314A, 314D, 314E, 316	IWB-2500-8	No	No	Yes	UT exam was conducted using 45-degree shear wave transducer. The exam completed was limited to 50% code required coverage due to the UT exam being limited due to 3/8" W due to adjacent downstream socket weld # 43 being too close and interfering with the scan. Component selected as an augmented 88-01 exam. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.
061700	4-PS-1231-11PS-1 THRU 4	PIPE SUPPORT	B-K-1	B10.10	1	RC	PT	50%	4/30/99	127, 128	IWB-2500-8	No	No	Yes	PT exam was conducted of this component. The PT exam was limited to 50% because of a permanently installed component support that obstructed the exam. The bottom of the pipe support weld was inaccessible due to a permanent obstruction from the fixed pipe clamp. A system pressure test was also completed with no unacceptable indications observed.
251200	22-PMP-LUGS 1,2,3	PUMP LUGS	B-K-1	B10.20	1	RC	PT	67%	4/6/93	8, 9, 10, 11	IWB-2500-15	No	Yes RR-B1 Part 10	No	PT exam was performed of this component. The liquid penetrant examination completed was partially limited to 67% of the achieved code required coverage being limited due to a portion of the lugs being hidden within the pump support structure. No unacceptable indications were observed. A system pressure test was also completed with no recordable indications observed.
251300	21-PMP-LUGS 1,2,3	PUMP LUGS	B-K-1	B10.20	1	RC	PT	67%	4/6/93	12, 13, 14, 15	IWB-2500-15	No	Yes RR-B1 Part 10	No	PT exam was performed of this component. The liquid penetrant examination completed was partially limited to 67% of the achieved code required coverage being limited due to a portion of the lugs being hidden within the pump support structure. No unacceptable indications were observed. A system pressure test was also completed with no recordable indications observed.

Table 2-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 2 Component NDE Exam Limitations

Sum#	Component ID	Description	2 ND Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/ Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5978)	UT Exam Type and Limitation Description
700000	8-CS-2227-5	VALVE 21CS2 TO PIPE	A-E	A-E<3/8	2	CS	UT	39.8%	5/8/99	338, 339, 340, 341, 342, 343	IWC-2500-7(b)	No	No	Yes	UT exam was conducted using a 45- and 70-degree shear wave transducer. The ultrasonic exam completed was limited to 39.8% code required coverage due to the UT exam being limited due to the valve's OD configuration that restricted scanning. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.
275365	21-RHRHEX-1	FLANGE TO SHELL	C-A	C1.10	2	RHR	UT	79%	4/12/93	23, 24, 24A, 24B, 24C	IWC-2500-1	No	Yes RR-C1 Part 1	No	UT exam was conducted using 0- and 45-degree shear wave transducers. The ultrasonic examination completed was partially limited to 79% of the achieved code required coverage due to the inlet nozzle OD configuration between 110" to 6" and the configuration outlet nozzle OD configuration between 52" to 64". No unacceptable indications were observed. A magnetic particle (MT) and system pressure test was also completed with no recordable indications observed.
275370	21-RHRHEX-2	SHELL TO FLANGE	C-A	C1.10	2	RHR	UT	20%	4/13/93	24B, 24C, 25, 25A, 26	IWC-2500-1	No	Yes RR-C1 Part 1	No	UT exam was conducted using 0- and 45-degree shear wave transducers. The ultrasonic examination completed was partially limited to 20% of the achieved code required coverage due to the inlet nozzle OD configuration between 111" to 6" and the configuration outlet nozzle OD configuration between 53" to 65". No exam could also be performed between 12 1/2" to 47" and 70" to 105" due to the heat exchanger's support plate. No unacceptable indications were observed. A magnetic particle (MT) and system pressure test was also completed with no recordable indications observed.
275240	2-RCF-2	FLANGE TO SHELL	C-A	C1.10	2	RC	UT	61%	4/12/99	145A, 150, 151, 152, 153, 154	IWC-2500-1	No	No	Yes	UT exam was conducted using 45- and 70-degree shear wave transducers. The exam completed was limited to 61% code required coverage due to the UT exam being limited due to a davit welded pad attachment connected to the reactor coolant filter that restricted scanning. UT scans were performed on and across the welds in both directions. The UT exam performed included 42.3" to 1.5, 13.4" to 16" and 27.75" to 30.75". No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
275210	2-LHEX-1	FLANGE TO SHELL	C-A	C1.10	2	CVC	UT	42%	10/14/00	177, 178, 179, 180,	IWC-2500-1	No	No	Yes	UT exam was conducted using 45- and 60-degree shear and longitudinal wave transducers. The exam

Table 2-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 2 Component NDE Exam Limitations

Sum#	Component ID	Description	2 ND Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/ Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5978)	UT Exam Type and Limitation Description
										181					completed was limited to 42% code required coverage due to the exam being limited due to proximity of the nozzle and flange welds. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed. UT exam limited due to the configuration of the flange and nozzle.
734111	2CVE-18-SWIJ-1	#21 SEAL WATER INJECTION FILTER FLANGE TO SHELL	C-A	C1.10	2	CVC	UT	61%	10/29/03	324, 325, 326, 327, 328, 329, 330	IWC-2500-1	No	No	Yes	UT exam was conducted using 70-degree refracted longitudinal wave, 0-degree longitudinal, and 45- and 60-degree shear wave transducers. The exam completed was limited to 61% code required coverage due to presence of permanently installed welded attachment and identification plate that interfere with scanning. Additionally the flange configuration on the upstream side of the weld prevented axial scanning on that side. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
734112	2CVE-18-SWIJ-2	#21 SEAL WATER INJECTION FILTER SHELL TO LOWER HEAD	C-A	C1.20	2	CVC	UT	69%	10/29/03	331, 332, 333, 334, 335, 336, 337	IWC-2500-1	No	No	Yes	UT exam was conducted using 0-degree longitudinal and 45- and 60-degree shear wave transducers. The exam completed was limited to 69% code required coverage due to presence of permanently installed welded attachments and an inlet nozzle that interfere with scanning. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
275030	2-CVCT-2	SHELL TO LOWER HEAD	C-A	C1.20	2	CVC	UT	71%	4/5/93	16, 17, 18, 18A	IWC-2500-1	No	Yes RR-C1 Part 1	No	UT exam was conducted using 45-degree shear wave transducer. The ultrasonic examination completed was partially limited to 71% of the achieved code required coverage due to four tank leg support plates welded to the vessel. No examination could be performed from 29 1/2" to 42 1/2", 99" to 112 1/2", 170" to 183" and 245 1/4" to 258 1/4". No unacceptable indications were observed. A system pressure test was also completed with no recordable indications observed.
275230	2-RCF-1	UPPER HEAD TO FLANGE	C-A	C1.20	2	RC	UT	68%	4/14/99	145, 145A, 146, 147, 148, 149	IWC-2500-1	Yes RR-1 Part A5	Yes RR-C1 Part 1	No	UT exam was conducted using 45- and 70-degree shear wave transducer. The exam completed was limited to 68% code required coverage due to the UT exam being limited due to the OD configuration of the reactor coolant filter flange and weld that restricted scanning. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.

Table 2-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 2 Component NDE Exam Limitations

Sum#	Component ID	Description	2 ND Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/ Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5978)	UT Exam Type and Limitation Description
275250	2-RCF-3	SHELL TO LOWER HEAD	C-A	C1.20	2	RC	UT	53%	4/12/99	145A, 155, 156, 157, 158, 159	IWC-2500-1	No	No	Yes	UT exam was conducted using 45- and 70-degree shear wave transducer. The exam completed was limited to 53% code required coverage due to the UT exam being limited due to our tank leg support plates welded to the reactor coolant filter shell that restricted scanning. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
715180	2-BIT-A	LOWER HEAD	C-A	C1.20	2	SJ	UT	85%	4/19/02	294, 295, 296, 297, 167A	IWC-2500-1	No	No	Yes	UT exam was conducted using 45- and 60-degree shear wave transducers. The exam completed was limited to 85% code required coverage due to the UT exam being limited due to the tank support legs attached to the vessel shell restricted scanning. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.
272900	21-STG-SDUH	SHELL D TO UPPER HEAD	C-A	C1.20	2	RC	UT	87%	4/19/02	206A, 206B, 206C, 287, 288, 289, 290, 291, 292	IWC-2500-1	No	No	Yes	UT exam was conducted using 45- and 60-degree shear wave transducers. The exam completed was limited to 87% code required coverage due to the insulation support plates and welded pads attached to the head that interfered with scanning from 534" to 20", 165" to 205" and 350" to 390". No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
275310	2-RHE-2	SHELL TO TUBE SHEET	C-A	C1.30	2	RHR	UT	44%	10/10/00	182, 183, 184, 185	IWC-2500-1	No	No	Yes	UT exam was conducted using 45-degree shear wave transducer. The exam completed was limited to 44% code required coverage due to presence of permanently installed component support connected to the regenerative heat exchanger that interferes with scanning. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
275320	2-RHE-3	SHELL TO TUBE SHEET	C-A	C1.30	2	RHR	UT	33%	10/19/00	186, 187, 188, 189	IWC-2500-1	No	No	Yes	UT exam was conducted using 45-degree shear wave transducer. The exam completed was limited to 33% code required coverage due to presence of permanently installed component support plate connected to the regenerative heat exchanger that interferes with scanning. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.

Table 2-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 2 Component NDE Exam Limitations

Sum#	Component ID	Description	2 ND Interval ASME Cat	2 ND Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/ Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5978)	UT Exam Type and Limitation Description
715140	2-BIT-1	NOZZLE TO LOWER HEAD	C-B	C2.21	2	SJ	UT	31%	5/15/99	162, 163, 164, 165, 166, 167, 167A	IWC-2500-4(a)	No	No	Yes	UT exam was conducted using 0-, 45- and 60-degree shear and longitudinal wave transducers. The exam completed was limited to 31% code required coverage due to the OD configuration of the nozzle that interfered with scanning. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed.
715160	2-BIT-2	NOZZLE TO UPPER HEAD	C-B	C2.21	2	SJ	UT	63%	4/24/02	167A, 167B, 167C, 167D, 167E, 167F, 167G	IWC-2500-4(b)	No	No	Yes	UT exam was conducted using 0-degree longitudinal and 45- and 60-degree shear wave transducers. The exam completed was limited to 63% code required coverage due to the nozzle to upper head weld configuration that interfered with scanning. No unacceptable indications were noted. An acceptable magnetic particle surface exam was also completed with no coverage limitations. A system pressure test was also completed with no unacceptable indications observed.
275400	21-RHRHEX- OUT	NOZZLE-TO- SHELL WELD	C-B	C2.21	2	RHR	UT	10%	10/16/00	190, 191, 192, 193, 194, 195	IWC-2500-4(b)	No	Yes RR-C1 Part 2	No	UT exam was conducted using 60-degree refracted longitudinal wave and 45- and 60-degree shear wave transducers. The exam completed was limited to 10% code required coverage due to presence of permanently installed component support plate connected to the regenerative heat exchanger that interferes with scanning. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A system pressure test was also completed with no unacceptable indications observed. UT exam limited due to the nozzle configuration and flange and support welds that interfere with scanning.
275410	21-RHRHEX-IN	NOZZLE-TO- SHELL WELD	C-B	C2.21	2	RHR	UT	25%	10/25/03	305, 306, 307, 308, 309, 310, 310A, 310B, 310C, 310D, 310E	IWC-2500-4(b)	No	No	Yes	UT exam was conducted using 45- and 60-degree shear wave transducers. The exam completed was limited to 25% code required coverage due to the exam being limited due to proximity of adjacent support plates and flange welds. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.

Table 2-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 2 Component NDE Exam Limitations

Sum#	Component ID	Description	2 ND Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/ Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5978)	UT Exam Type and Limitation Description
275040	2-CVCT-2VS- (1-8) 1A	VESSEL SUPPORT INTEGRAL ATTACHMENT	C-C	C3.10	2	CVC	PT	89%	4/5/93	18, 18A, 19	IWC-2500-5	Yes RR-1 Part A6	Yes RR-C1 Part 3	No	PT exam was performed of this component. The liquid penetrant examination completed was partially limited to 89% of the achieved code required coverage being limited due to a permanently installed I beam support structure. The PT exam was unable to be performed for a 6" length due to support leg interferences. No unacceptable indications were observed. A system pressure test was also completed with no recordable indications observed.
275050	2-CVCT-2VS- 3&4	VESSEL SUPPORT	C-C	C3.10	2	CVC	PT	89%	4/5/93	18, 18A, 20	IWC-2500-5	No	Yes RR-C1 Part 3	No	PT exam was performed of this component. The liquid penetrant examination completed was partially limited to 89% of the achieved code required coverage being limited due to a permanently installed I beam support structure. The PT exam was unable to be performed for a 6" length due to support leg interferences. No unacceptable indications were observed. A system pressure test was also completed with no recordable indications observed. -
275060	2-CVCT-2VS- 5&6	VESSEL SUPPORT	C-C	C3.10	2	CVC	PT	89%	4/5/93	18, 18A, 21	IWC-2500-5	No	Yes RR-C1 Part 3	No	PT exam was performed of this component. The liquid penetrant examination completed was partially limited to 89% of the achieved code required coverage being limited due to a permanently installed I beam support structure. The PT exam was unable to be performed for a 6" length due to support leg interferences. No unacceptable indications were observed. A system pressure test was also completed with no recordable indications observed.
275070	2-CVCT-2VS- 7&8	VESSEL SUPPORT	C-C	C3.10	2	CVC	PT	89%	4/5/93	18, 18A, 22	IWC-2500-5	No	Yes RR-C1 Part 3	No	PT exam was performed of this component. The liquid penetrant examination completed was partially limited to 89% of the achieved code required coverage being limited due to a permanently installed I beam support structure. The PT exam was unable to be performed for a 6" length due to support leg interferences. No unacceptable indications were observed. A system pressure test was also completed with no recordable indications observed.
275358	2-RHE-1VS-1&2	VESSEL SUPPORT	C-C	C3.10	2	RHR	PT	50%	10/22/03	307, 308	IWC-2500-5(a)	No	Yes RR-C1 Part 3	No	PT exam was conducted of this component. The PT exam was limited to 50% because of weld #1 being partially inaccessible due to the permanently installed support's configuration. A system pressure test was also completed with no unacceptable indications observed.

Table 2-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 2 Component NDE Exam Limitations

Sum#	Component ID	Description	2 ND Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/ Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5978)	UT Exam Type and Limitation Description
331095	14-BF-2211- Trunnions 11PL-11 and 11PI-12	TRUNNIONS	C-C	C3.20	2	BF	MT	80%	4/12/93	28, 29, 29A, 29B, 29C	IWC-2500-5(a)	No	No	Yes	MT exam was conducted. The exam completed was limited to 80% code required coverage being obtained due to 1 1/2" of the total 7 1/2" long weld not being able to be examined due to an adjacent permanent pipe support interference (11PS). No unacceptable indications were observed. A system pressure test was also completed with no recordable indications observed.
330540	14-BF-2231- 17PS	PIPE SUPPORT S- 22	C-C	C3.20	2	BF	MT	50%	10/31/94	64, 65, 65A, 65B, 65C, 65D	IWC-2500-5(a)	No	Yes RR-C1 Part 3	No	MT exam was conducted of this component. The MT exam was limited to 50% because of pipe restraint in the area that prevented sufficient access to examine the weld in two directions. The MT exam of the lugs was unable to be examined from two directions due to a permanently installed restriction. A system pressure test was also completed with no unacceptable indications observed. MT exam limited due to close proximity of pipe restraint.
330560	14-BF-2231- 18PS	PIPE SUPPORT	C-C	C3.20	2	BF	MT	50%	10/31/94	66, 66A, 66B, 66C, 66D, 66E	IWC-2500-5(a)	No	Yes RR-C1 Part 3	No	MT exam was conducted of this component. The MT exam was limited to 50% because of a permanently installed pipe collar in the area that prevented sufficient access to examine the weld in two directions. The MT exam of the lugs was unable to be examined from two directions due to a permanently installed restriction. A system pressure test was also completed with no unacceptable indications observed.
381070	34-MS-2241- 242PL	PIPE LUG 242	C-C	C3.20	2	MS	MT	71%	11/11/94	70, 70A, 70B, 70C, 70D	IWC-2500-5(a)	No	Yes RR-C1 Part 3	No	MT exam was conducted of this component. The MT exam was limited to 71% because of a permanently installed beam that obstructed access to lug number 2. No exam could be performed from 11 1/2" to 18 1/8" due to the beam's proximity. The total weld length is 23". A complete MT exam was performed on lug number 1. A system pressure test was also completed with no unacceptable indications observed.
573383	12-RH-2252- 38PS-1&2	PIPE SUPPORT	C-C	C3.20	2	RHR	PT	71%	11/15/94	80, 80A, 80B, 80C, 80D, 80E	IWC-2500-5(a)	Yes RR-1 Part A7	Yes RR-C1 Part 3	No	PT exam was conducted of this component. The PT exam was limited to 71% because of a permanently installed component support that obstructed the exam. No exam could be performed from 20" to 28" due to the presence of the component support proximity. A system pressure test was also completed with no unacceptable indications observed.

Table 2-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 2 Component NDE Exam Limitations

Sum#	Component ID	Description	2 ND Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/ Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5978)	UT Exam Type and Limitation Description
573387	12-RH-2252-38PS-3	PIPE SUPPORT	C-C	C3.20	2	RHR	PT	71%	11/15/94	81, 81A, 81B, 81C, 81D	IWC-2500-5(a)	Yes RR-1 Part A7	Yes RR-C1 Part 3	No	PT exam was conducted of this component. The PT exam was limited to 71% because of a permanently installed component support that obstructed the exam. No exam could be performed from 7 1/2" to 14" and 30" to 36 1/2" due to the presence of the adjacent piping interfering with the exam. A system pressure test was also completed with no unacceptable indications observed.
381120	32-MS-2231-1PS-2	WELDED INTEGRAL PIPE SUPPORT ATTACHMENT	C-C	C3.20	2	MS	MT	50%	1/17/96	102, 102A, 102B, 102C, 102D	IWC-2500-5(a)	No	No	Yes	MT exam was conducted of this component. The MT exam was limited to 50% because of the configuration of the lug that precluded examination of the lug in two directions. The MT exam was unable to be examined from two directions due to its configuration. There is no IWF support associated with this weld attachment. A system pressure test was also completed with no unacceptable indications observed. Component selected for MEB 3-1 Augmented Exam requirements:
381220	32-MS-2221-1PS-2	WELDED INTEGRAL PIPE SUPPORT ATTACHMENT	C-C	C3.20	2	MS	MT	50%	1/19/96	110, 110A, 110B, 110C, 110D, 110E	IWC-2500-5(a)	No	No	Yes	MT exam was conducted of this component. The MT exam was limited to 50% because of the configuration of the lug that precluded examination of the lug in two directions. The MT exam was unable to be examined from two directions due to its configuration. There is no IWF support associated with this weld attachment. A system pressure test was also completed with no unacceptable indications observed.
381320	32-MS-2211-1PS-2	WELDED INTEGRAL PIPE SUPPORT ATTACHMENT	C-C	C3.20	2	MS	MT	50%	1/19/96	114, 114A, 114B, 114C, 114D	IWC-2500-5(a)	No	No	Yes	MT exam was conducted of this component. The MT exam was limited to 50% because of the configuration of the lug that precluded examination of the lug in two directions. The MT exam was unable to be examined from two directions due to its configuration. There is no IWF support associated with this weld attachment. A system pressure test was also completed with no unacceptable indications observed.
381350	32-MS-2211-2PL-1 THRU 3	PIPE LUG	C-C	C3.20	2	MS	MT	84%	1/16/96	115, 116, 117, 117A, 117B	IWC-2500-5(a)	No	No	Yes	MT exam was conducted of this component. The MT exam was limited to 84% because of the configuration of the lug that precluded examination of the lug in two directions. The MT exam was unable to be examined from two directions due to its configuration. There is no IWF support associated with this weld attachment. A system pressure test was also completed with no unacceptable indications observed.

Table 2-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 2 Component NDE Exam Limitations

Sum#	Component ID	Description	2 ND Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/ Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5978)	UT Exam Type and Limitation Description
573055	12-RH-2252- 5PL-1 THRU 6	PIPE LUG	C-C	C3.20	2	RHR	PT	33%	5/7/99	318, 319, 320, 321, 321A	IWC-2500-5(a)	No	Yes RR-C1 Part 3	No	PT exam was conducted of this component. The PT exam was limited to 33% because the lugs 2, 3, 4, 5 due to inaccessibility. The inaccessible pipe lugs are located within a permanent piping penetration sleeve. A system pressure test was also completed with no unacceptable indications observed.
330645	14-BF-2221- 3PL-1 THRU 8	2-FWG-22-17	C-C	C3.20	2	BF	MT	79%	4/6/02	293, 293A, 293B, 293C, 293D, 293E, 293F, 293G	IWC-2500-5(a)	No	No	Yes	MT exam was conducted of this component. The MT exam was limited to 79% because of other components in the area of the welded attachments that prevented sufficient access to examine the weld in two directions. The MT exam of the lugs was unable to be examined from two directions due to permanently installed restrictions being present. A system pressure test was also completed with no unacceptable indications observed.
500010	12-PR-2201-1	CAP TO PIPE	C-F-1	C5.11	2	RC	UT	78%	4/7/93	31, 31A, 32, 32A, 32B	IWC-2500-7(a)	No	Yes RR-C1 Part 4	No	UT exam was conducted using a 45-degree shear wave transducer. The exam completed was limited to 78% code required coverage. No UT exam from the downstream side or upstream side between 10 3/4" to 14 1/4" and 26 3/4" to 31 3/4" due to installed pipe support. The edge of the pipe support clamp is 3/4" from the weld toe. Scanned across weld from the upstream side and from the downstream side on weld crown only. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.
501800	14-RH-2212-1	VALVE 2RH2 TO PIPE	C-F-1	C5.11	2	RHR	UT	87%	11/9/94	72, 73, 74, 74A, 74B, 74C	IWC-2500- 7(b)	No	Yes RR-C1 Part 4	No	UT exam was conducted using a 45-degree shear wave transducer. The exam completed was limited to 87% code required coverage due to the UT exam being limited due to the upstream side valve's OD configuration that restricted scanning. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.
570010	14-RH-2224-1 (corrected to 14-SJ-2224-1)	VALVE 22SJ44 TO ELBOW	C-F-1	C5.11	2	RHR	UT	75%	11/14/94	75, 76, 77, 77A, 77B	IWC-2500- 7(b)	No	Yes RR-C1 Part 4	No	UT exam was conducted using a 45-degree shear wave transducer. The exam completed was limited to 75% code required coverage due to the UT exam being limited due to the upstream side valve's OD configuration that restricted scanning. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A liquid

Table 2-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 2 Component NDE Exam Limitations

Sum#	Component ID	Description	2 ND Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/ Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5978)	UT Exam Type and Limitation Description
															penetrant test and system pressure test was also completed with no unacceptable indications observed.
573380	12-RH-2252-38	PIPE TO PIPE	C-F-1	C5.11	2	RHR	UT	67%	11/15/94	78, 79, 79A, 79B, 79C	IWC-2500-7(b)	No	Yes RR-C1 Part 4	No	UT exam was conducted using a 45-degree shear wave transducer. The exam completed was limited to 67% code required coverage due to the UT exam being limited UT exam due to welded plug and close proximity of adjacent piping that impedes access to scan the examination area to achieve full coverage. No UT exam could be performed from 7 1/2" to 14" and 30" to 36 1/2" due to the proximity of adjacent piping. In addition, the downstream side scan was limited 1 3/8" W from 38 11/16" to 40 1/8" due to a welded plug. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.
503340	8-RH-2216-4R1	FLANGE TO VALVE 21RH10	C-F-1	C5.11	2	RHR	UT	22%	5/15/96	122, 123	IWC-2500-7(b)	Yes RR-1 Part A8	No	Yes	UT exam was conducted using a 45-degree shear wave transducer. The exam completed was limited to 22% code required coverage. No UT exam could be performed from either side of weld due to flange and valve OD configurations. No unacceptable indications were noted. A magnetic particle test and system pressure test was also completed with no unacceptable indications observed.
502580	8-RH-2273-18	VALVE 21RH12 TO TEE	C-F-1	C5.11	2	RHR	UT	51%	10/5/00	199, 200, 201	IWC-2500-7(b)	No	No	Yes	UT exam was conducted using 45- and 70-degree shear wave transducers. The exam completed was limited to 51% code required coverage due to the UT exam being limited due to the tee and valve's OD configurations that restricted scanning. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.
707130	4-CV-2257-1	FLANGE TO PIPE	C-F-1	C5.21	2	CVC	UT	86%	10/21/94	82, 83, 84	IWC-2500-7(b)	No	Yes RR-C1 Part 4	No	UT exam was conducted using a 45-degree shear wave transducer. The exam completed was limited to 86% code required coverage due to the UT exam being limited to the pipe side only due to the OD configuration of the flange located on the upstream side. Scanning was conducted on the weld in all directions to increase code coverage. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.
707730	3-CV-2257-7	VALVE 2CV82 TO	C-F-1	C5.21	2	CVC	UT	80%	10/21/94	322, 322A,	IWC-2500-	No	Yes	No	UT exam was conducted using a 45-degree shear wave

Table 2-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 2 Component NDE Exam Limitations

Sum#	Component ID	Description	2 ND Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/ Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5978)	UT Exam Type and Limitation Description
		PIPE								323	-7(b)		RR-C1 Part 4		transducer. The exam completed was limited to 80% code required coverage due to the UT exam being limited due to the upstream side valve's OD configuration that restricted scanning. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.
710140	3-CV-2255-9	VALVE 2CV70 TO PIPE	C-F-1	C5.21	2	CVC	UT	31%	5/23/99	160, 161, 161A, 161B	IWC-2500-7(b)	No	No	Yes	UT exam was conducted using 45-, 60- and 70-degree shear wave transducers. The exam completed was limited to 31% code required coverage due to the UT exam being limited due to the OD configuration of the nozzle that restricted scanning. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.
707320	4-CV-2257-16	VALVE 2CV53 TO ELBOW	C-F-1	C5.21	2	CVC	UT	38%	10/20/00	205, 208	IWC-2500-7(b)	No	No	Yes	UT exam was conducted using a 45-degree shear and a 70-degree refracted longitudinal wave transducer. The exam completed was limited to 38% code required coverage due to the UT exam being limited due to the valve's OD configuration that restricted scanning. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.
707620	3-CV-2259-14R1	VALVE 2CV55 TO PIPE	C-F-1	C5.21	2	CVC	UT	39%	10/5/00	202, 203, 204, 206 207	IWC-2500-7(b)	No	No	Yes	UT exam was conducted using 45- and 70-degree shear transducers. The exam completed was limited to 39% code required coverage due to the UT exam being limited due to the valve's OD configuration that restricted scanning. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.
709960	3-CV-2256-6	PIPE TO VALVE 2CV73	C-F-1	C5.21	2	CVC	UT	50%	10/18/00	161B, 209, 210, 211, 212	IWC-2500-7(b)	No	No	Yes	UT exam was conducted using 45- and 70-degree shear transducers. The exam completed was limited to 50% code required coverage due to the UT exam being limited due to the valve's OD configuration that restricted scanning. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.

Table 2-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 2 Component NDE Exam Limitations

Sum#	Component ID	Description	2 ND Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/ Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5978)	UT Exam Type and Limitation Description
710190	3-CV-2255-12	PIPE TO VALVE 2CV72	C-F-1	C5.21	2	CVC	UT	50%	10/18/00	161B, 213, 214, 214A, 214B	IWC-2500- 7(b)	No	No	Yes	UT exam was conducted using 45- and 70-degree shear transducers. The exam completed was limited to 50% code required coverage due to the UT exam being limited due to the valve's OD configuration that restricted scanning. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed.
330930	14-BF-2211-2	PIPE TO ELBOW	C-F-2	C5.51	2	BF	UT.	84%	4/2/93	27, 27A, 27B, 27C, 27D, 27E, 27F	IWC-2500-7	No	Yes RR-C1 Part 4	No	UT exam was conducted using a 45-degree shear wave transducer. The ultrasonic examination completed was partially limited to 84% of the achieved code required coverage due to a permanently installed column support lug located immediately adjacent to the weld that interferes with scanning. No unacceptable indications were observed. A magnetic particle (MT) and system pressure test was also completed with no recordable indications observed.
382140	30-MS-2211-9	PIPE TO ELBOW	C-F-2	C5.51	2	MS	UT	90%	4/13/93	30, 30A, 30B, 30C	IWC-2500-7(a)	No	No	Yes	UT exam was conducted using a 45-degree shear wave transducer. The exam completed was limited to 90% code required coverage from the upstream side due to a branch connection being located between 9/16" to 3 7/8" that limited scanning to 3 1/4". No unacceptable indications were noted. A magnetic particle test and system pressure test was also completed with no unacceptable indications observed.
380140	34-MS-2241-2	PIPE TO VALVE 24MS167	C-F-2	C5.51	2	MS	UT	85%	11/11/94	67, 67A, 68, 68A, 68B, 68C, 68D, 69	IWC-2500- 7(b)	No	No	Yes	UT exam was conducted using 45- and 32-degree shear wave transducers. The exam completed was limited to 85% code required coverage due to the UT exam being limited to between 7 1/2" W from 5" to 16", 87 1/2" to 103" due to multiple branch connections located on the main steam header. No unacceptable indications were noted. A magnetic particle and system pressure test was also completed with no unacceptable indications observed.

Table 2-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 2 Component NDE Exam Limitations

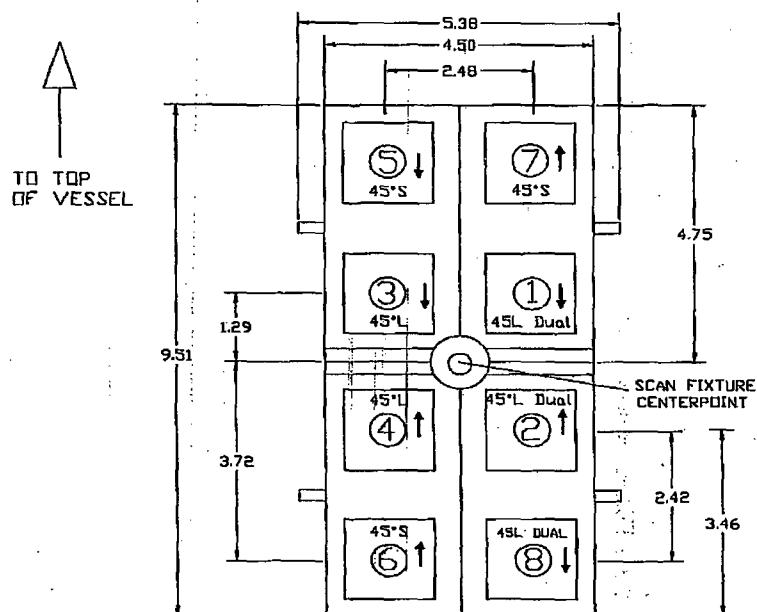
Sum#	Component ID	Description	2 ND Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/ Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5978)	UT Exam Type and Limitation Description
385510	6-MS-2211-13	TEE TO PIPE	C-F-2	C5.51	2	MS	UT	73%	11/17/94	71, 71A, 71B, 71C	IWC-2500- 7(b)	No	No	Yes	UT exam was conducted using a 45-degree shear wave transducer. The exam completed was limited to 73% code required coverage due to the UT exam being limited between 8 1/2" to 14 1/2" and 20" to 3 1/2" due to the OD configuration of the tee fitting's blend radius areas located on the upstream side. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A magnetic particle and system pressure test was also completed with no unacceptable indications observed.
381055	32-MS-2241-3	ELBOW TO PIPE	C-F-2	C5.51	2	MS	UT	85%	1/13/96	99, 100, 101	IWB-2500- 7(b)	No	No	Yes	UT exam was conducted using a 45-degree shear wave transducer. The exam completed was limited to 85% code required coverage. The UT exam conducted was limited due to a permanently installed welded pipe support from 18" to 26". No unacceptable indications were noted. A liquid penetrant test and system pressure test was also completed with no unacceptable indications observed. Component selected for MEB 3-1 Augmented Exam requirements.
381155	32-MS-2231-3	ELBOW TO PIPE	C-F-2	C5.51	2	MS	UT	87%	1/18/96	103, 103A, 105, 106	IWC-2500- 7(b)	No	No	Yes	UT exam was conducted using a 45-degree shear wave transducer. The exam completed was limited to 87% code required coverage. The UT exam conducted was limited due to a welded pipe support from 49.25" to 2.75" partially covering the upstream side of the weld. No unacceptable indications were noted. A magnetic particle test and system pressure test was also completed with no unacceptable indications observed.
381175	34-MS-2231-1	PIPE TO PIPE	C-F-2	C5.51	2	MS	UT	40%	1/24/96	107, 108, 109	IWC-2500- 7(b)	No	No	Yes	UT exam was conducted using a 45- and 60-degree shear wave transducer. The exam completed was limited to 40% code required coverage. The UT exam conducted from the downstream side was limited due to a welded pipe support from 3" to 24". No unacceptable indications were noted. A magnetic particle test and system pressure test was also completed with no unacceptable indications observed.

Table 2-1, Revision 1
2nd Ten-Year Inservice Inspection Interval Class 2 Component NDE Exam Limitations

Sum#	Component ID	Description	2 ND Interval ASME Cat	2 nd Interval ASME Item #	ASME Class	System	Limited NDE Exam	Code Coverage Achieved	Exam Date	Photo/ Sketch No.*	Required Examination Volume	1 st Interval Relief Granted under TAC M84658	2 nd Interval Relief Granted under TAC M83316	Relief requested under this submittal (TAC MD5978)	UT Exam Type and Limitation Description
381260	32-MS-2221-3	ELBOW TO PIPE	C-F-2	C5.51	2	MS	UT	87%	1/20/96	111, 112, 113	IWC-2500- 7(b)	No	No	Yes	UT exam was conducted using 0-degree longitudinal wave and 45-degree shear wave transducers. The exam completed was limited to 87% code required coverage. The UT exam conducted from the downstream and upstream sides were limited due to pads and pipe support. No unacceptable indications were noted. A magnetic particle test and system pressure test was also completed with no unacceptable indications observed.
381355	32-MS-2211-3	ELBOW TO PIPE	C-F-2	C5.51	2	MS	UT	82%	3/13/97	118, 119	IWC-2500- 7(b)	No	No	Yes	UT exam was conducted using a 45-degree shear wave transducer. The exam completed was limited to 82% code required coverage. No UT scan was performed from the downstream side from 62.5" to 80.5" due to a permanent restraint interfering with scanning. No scan could be performed from the upstream direction from 94.5" to 7.5" due to branch connection. Also no scan could be performed from 74.5" to 78.5" due to a branch connection. No unacceptable indications were noted. A magnetic particle test and system pressure test was also completed with no unacceptable indications observed.
381370	34-MS-2211-1	PIPE TO PIPE	C-F-2	C5.51	2	MS	UT	51%	1/24/96	120, 121	IWC-2500- 7(b)	No	No	Yes	UT exam was conducted using a 45-degree shear wave transducer. The exam completed was limited to 51% code required coverage. The UT exam was performed from the upstream side and limited between 22 1/2" to 27 1/2", 79" to 81", 88" to 90" and 93 3/4" to 7 1/4" due to seven pipe restraint bars measuring 1.45" for a total of 10.15". The restraint support partially covers the weld 360°. No unacceptable indications were noted. A magnetic particle test and system pressure test was also completed with no unacceptable indications observed.
384320	6-MS-2246-3	PIPE TO VALVE 24MS9	C-F-2	C5.51	2	MS	UT	79%	10/17/00	196, 197, 198	IWC-2500- 7(b)	No	No	Yes	UT exam was conducted using a 45-shear wave transducer. The exam completed was limited to 79% code required coverage due to the UT exam being limited due to the valve's OD configuration that restricted scanning. UT scans were performed on and across the welds in both directions. No unacceptable indications were noted. A magnetic particle test and system pressure test was also completed with no unacceptable indications observed.

LR-N07-0312
Enclosure 3-1

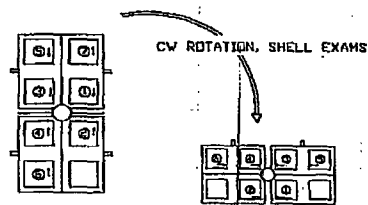
Westinghouse Proprietary Class 2C



For Both Upper & Lower Sleds (US & LS)

Positions 7 & 8 are for the Lower Sled only.

APPENDIX VIII SHELL EXAM CONFIGURATION WITH EXTRA COVERAGE DUCERS



VIEW: FROM VESSEL CENTERLINE
DIMENSIONS TYP. FOR BOTH SLEDS

Calen RMISI 2002

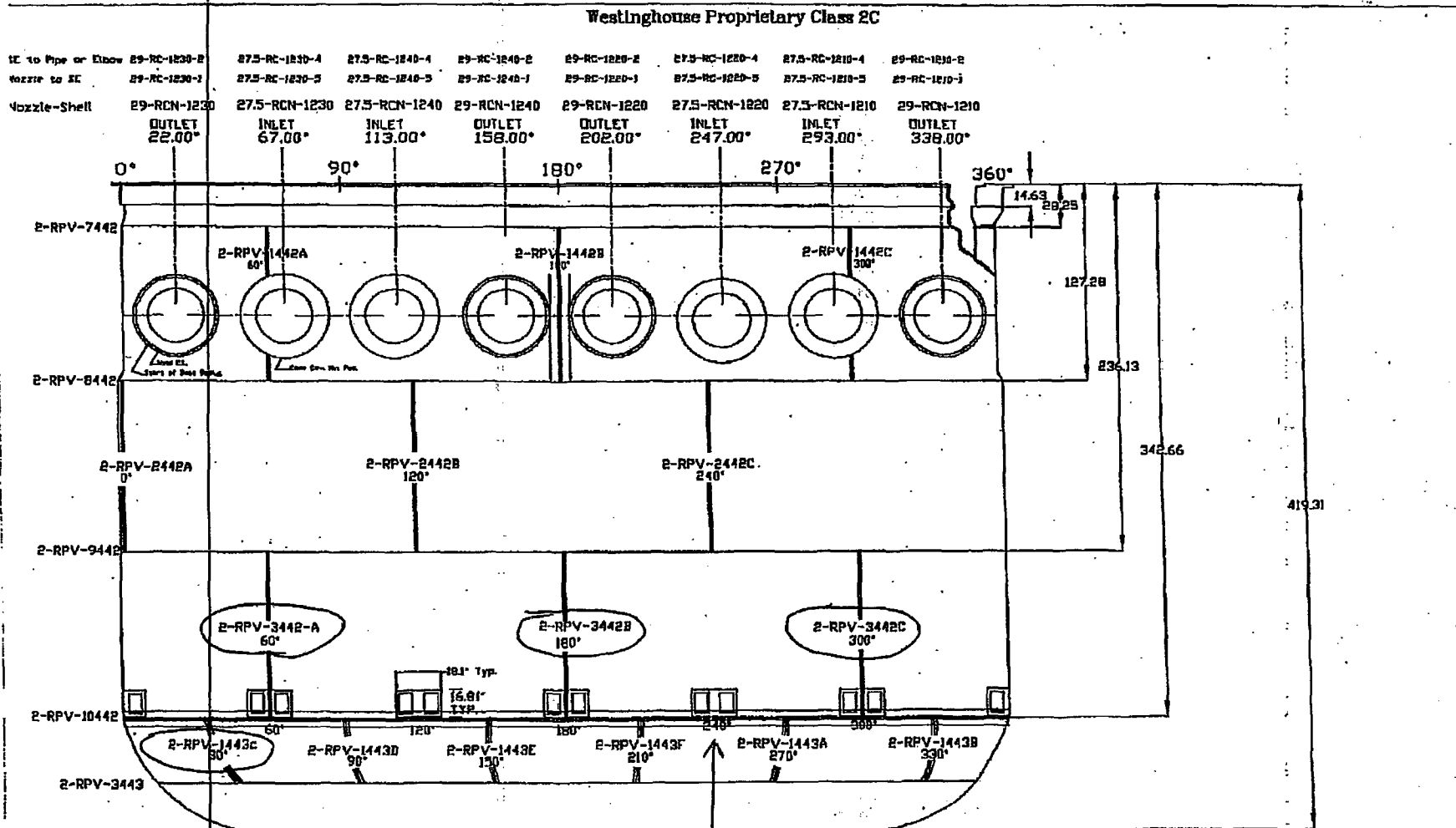
Westinghouse International

SHEET TITLE Shell Sleds

EXAMINATION PROGRAM PLAN

ALL DIMENSIONS IN INCHES
UNLESS OTHERWISE NOTED

LR-N07-0312
Enclosure 3-2



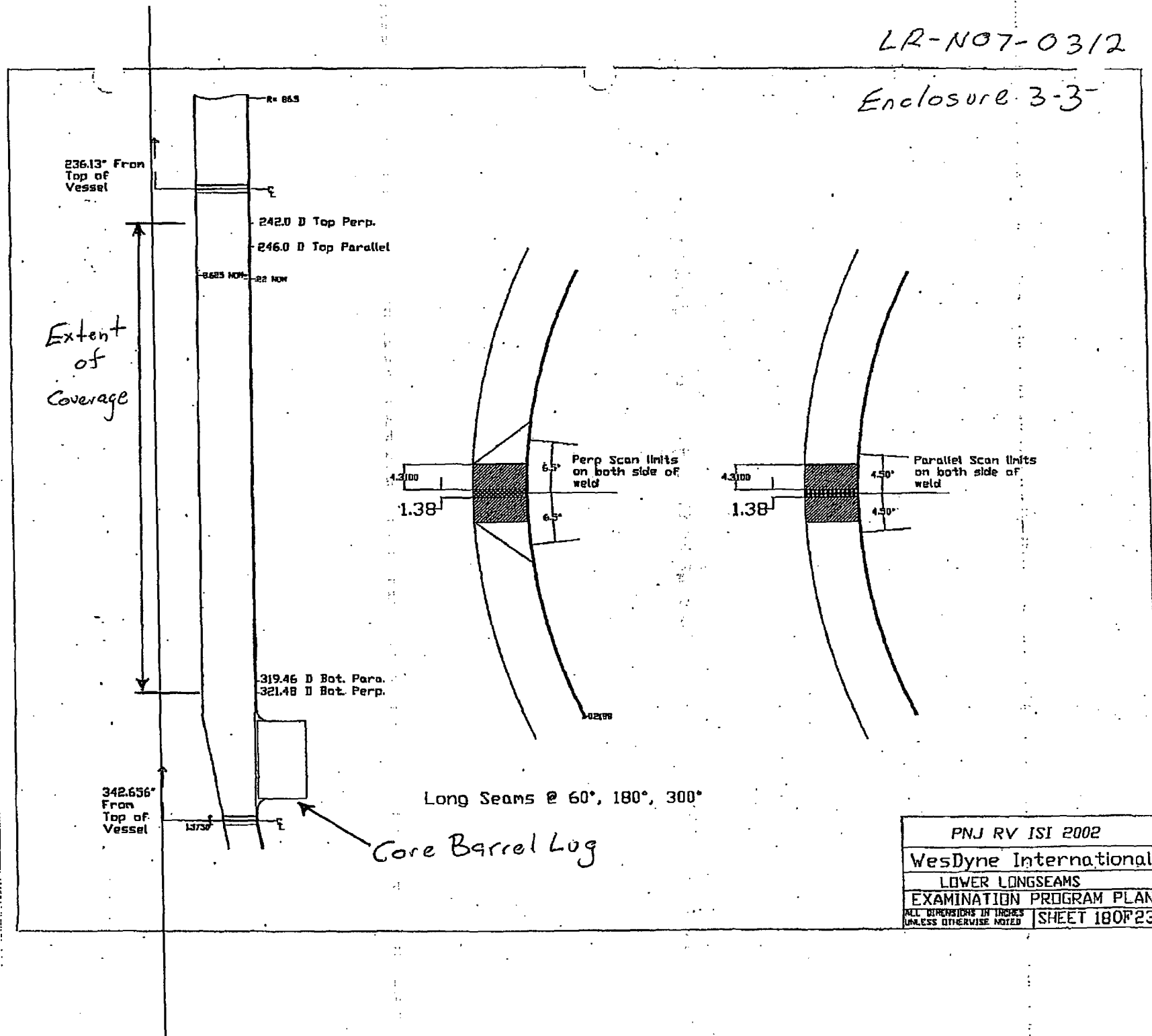
Core Barrel Logs (Typ.)

PNJ REACTOR VESSEL ISI
WesDyne International
SHEET TITLE Vessel Rollout
EXAMINATION PROGRAM PLAN
ALL DIMENSIONS IN INCHES
UNLESS OTHERWISE NOTED SHEET 1 OF 23

LR-NOT-0312

Enclosure 3-3

Reclassified as Westinghouse Non-Proprietary Class 3 on 12/14/07



R.V. COVERAGE ESTIMATE BREAKDOWNS

LR-N07-0312
ENCLOSURE 3-4

PLANT NAME

Salem #2

COMPONENT

LOWER LONGSEAM

WELD NO

2-RPV-3442-A

WesDyne

International

BEAM ANGLE BREAK DOWN

BEAM DIRECTION	45 Shear		45 L Single		45 L Dual			
	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME
Perpendicular	79.33	79.33	79.33	79.33	81.69	81.69		
Parallel	80.74	80.81	81.13	81.20	80.66	80.73		
AVERAGE	80.05		80.25		81.20			

Comments:

COMBINED AVERAGE

80.50

Analyst

James R

Date

4/18/02

R.V. COVERAGE ESTIMATE BREAKDOWNS

LR-NO7-0312

ENCLOSURE 3-5

PLANT NAME

Salem #2

WesDyne

COMPONENT

LOWER LONGSEAM

International

WELD NO

2-RPV-3442-B

BEAM ANGLE BREAK DOWN

BEAM DIRECTION	45 Shear		45 L Single		45 L Dual		WELD	VOLUME
	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME		
Perpendicular	79.33	79.33	79.33	79.33	81.69	81.69		
Parallel	80.74	80.81	81.13	81.20	80.66	80.73		
AVERAGE	80.05		80.25		81.20			

Comments:

COMBINED AVERAGE 80.50

Analyst

[Signature]

Date

4/18/02

R.V. COVERAGE ESTIMATE BREAKDOWNS

LR-N07-0312
ENCLOSURE 3-6

PLANT NAME

Salem #2

COMPONENT

LOWER LONGSEAM

WELD NO

2-RPV-3442-C

WesDyne

International

BEAM ANGLE BREAK DOWN

BEAM DIRECTION	45 Shear		45 L Single		45 L Dual		WELD	VOLUME
	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME		
Perpendicular	79.33	79.33	79.33	79.33	81.69	81.69		
Parallel	80.74	80.81	81.13	81.20	80.66	80.73		
AVERAGE	80.05		80.25		81.20			

Comments:

COMBINED AVERAGE

80.50

Analyst

[Signature]

Date

4/18/02

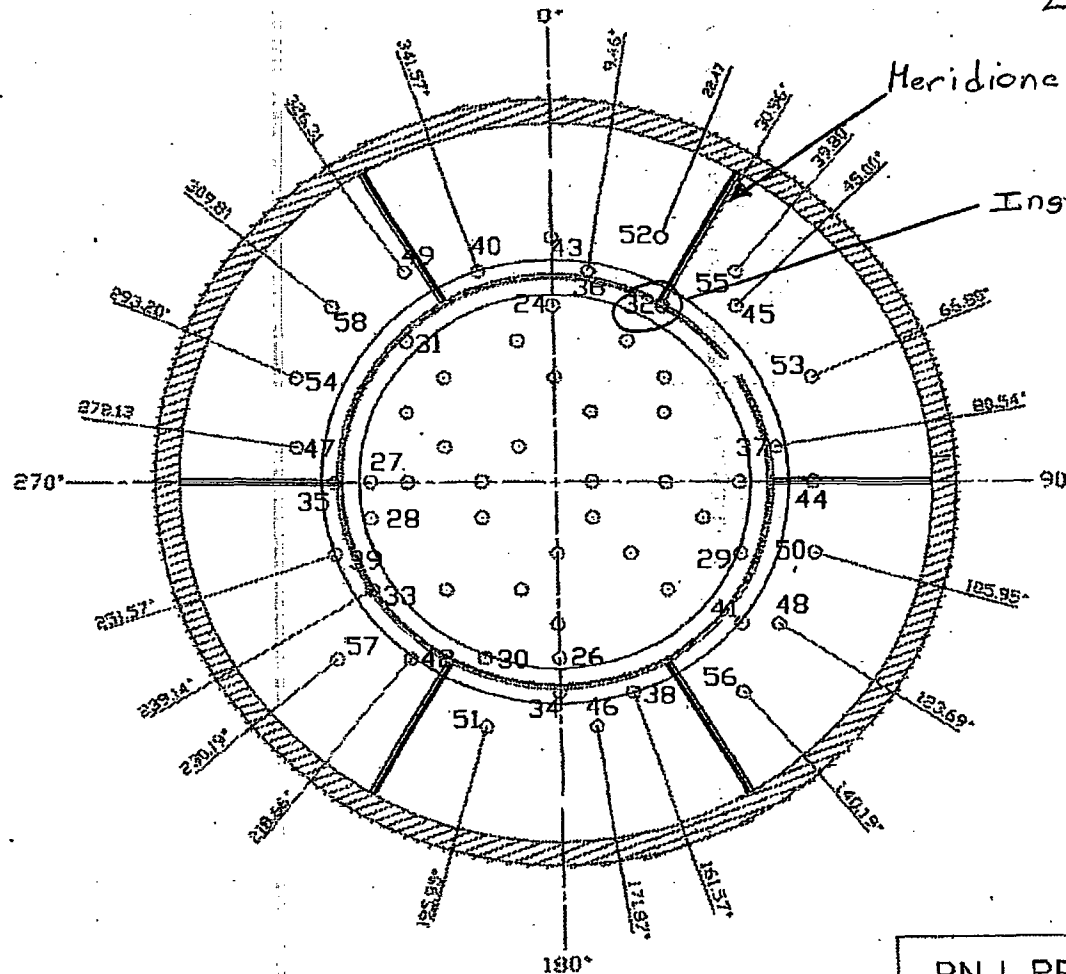
LR-N07-0312

Westinghouse Proprietary Class 2C

Enclosure 3-7

Meridional weld 2-RPV-1443C

Instrument tube



PNJ REACTOR VESSEL ISI

WesDyne International

BOTTOM HEAD DOLLAR/PENETRATIONS

EXAMINATION PROGRAM PLAN

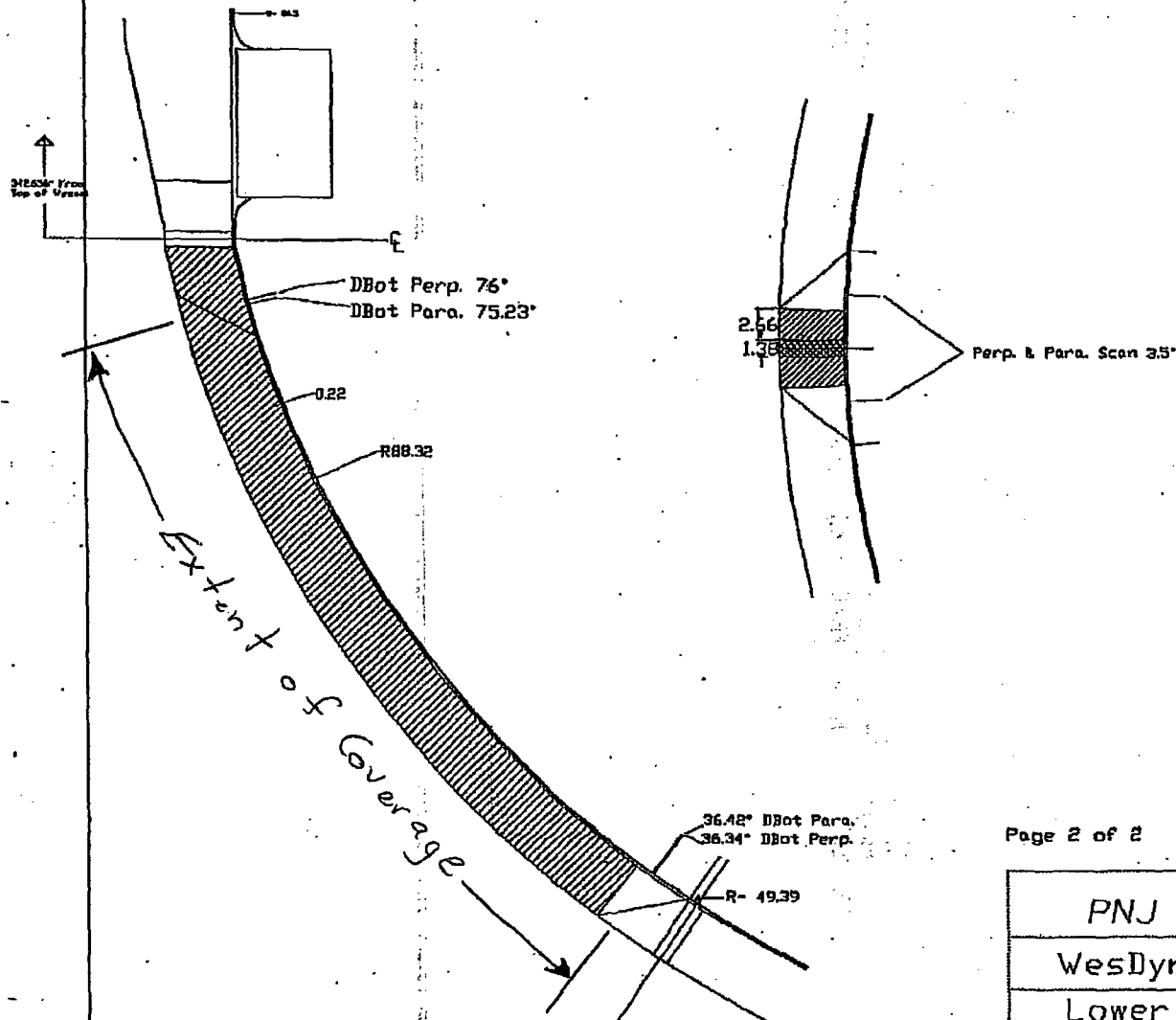
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UNLESS OTHERWISE NOTED.

SHEET 23 OF 23

Reclassified as Westinghouse Non-Proprietary Class 3 on 12/14/07

LR-N07-0312
Enclosure 3-8

WESTINGHOUSE PROPRIETARY CLASS 2C



Page 2 of 2

PNJ RV ISI 2002

WesDyne International

Lower Head Meridional

EXAMINATION PROGRAM PLAN

ALL DIMENSIONS IN INCHES
UNLESS OTHERWISE NOTED

SHEET 21 OF 23

Reclassified as Westinghouse Non-Proprietary Class 3 on 12/14/07

LR-N07-0312

R.V. COVERAGE ESTIMATE BREAKDOWNS

ENCLOSURE 3-9

PLANT NAME

SALEM UNIT 2

WesDyne

COMPONENT

MERIDONAL WELD

International

WELD NO

2-RPV-1443C

BEAM ANGLE BREAK DOWN

BEAM DIRECTION	45 Shear		45 L Single		45 L Dual			
	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME
Perpindicular	91.00	85.50	91.00	89.06	91.00	85.25		
Parallel	88.20	86.30	88.20	87.20	88.20	87.20		
AVERAGE	87.75		88.87		87.91			

Comments:

COMBINED AVERAGE

88.18

Analyst

[Signature]

Date

4/18/02

LR-N07-0312
ENCLOSURE 5-1

REQUEST FOR ADDITIONAL INFORMATION
REQUEST FOR RELIEF REGARDING EXAMINATION COVERAGE
SECOND TEN-YEAR IN-SERVICE INSPECTION INTERVAL
SALEM NUCLEAR GENERATING STATION, UNIT NO. 2
DOCKET NO. 50-311

QUESTION 2.1 (c) For certain piping welds, information submitted by the licensee is not sufficient to demonstrate impracticality. Please submit further information in the form of drawings, sketches and/or descriptions to support this evaluation for the following components, as identified by licensee identification numbers listed below.

Summary # 700000

Component I.D. 8-CS-2227-5

Description Valve 21CS2 to Pipe

1 Weld X-Section

2 Material

3 Thickness / weld Crown

4 Obstruction

5 Exam Area Highlighted on Drawing

6 Transducer ray exit point

Comments

See Attached

Stainless Steel

Thickness .14" / Weld Contour

OD Contour of valve 21CS2

Yes ☒ No ☐

N/A

Comments

39.8%

UT exam was performed of this component using 45 and 70 degree wave transducer. The ultrasonic examination was limited to 31% of the code required coverage being limited due to upstream side valve OD configuration that restricted scanning. UT scans were performed on and across the weld in both directions. No unacceptable indications were observed. A liquid penetrant examination and system pressure test was also completed with no recordable indications observed.