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Ref:10CFR50.55a(g)

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April 8, 2002

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

**SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION (CPSES)-UNIT 2
DOCKET NO. 50-446
TRANSMITTAL OF UNIT 2 AUGMENTED INSERVICE INSPECTION
PROGRAM PLAN, REVISION 1 (UNIT 2: 1986 EDITION OF ASME
CODE SECTION XI, NO ADDENDA, INTERVAL START DATE -
AUGUST 3, 1993, FIRST INTERVAL)**

Gentlemen:

Enclosed is one copy of Revision 1 to the Unit 2 Augmented Inservice Inspection (AIS) Program Plan for updating your manual. The enclosed Plan Revision 1 replaces the Plan Revision 0 in its entirety.

This communication contains no new licensing basis commitments regarding CPSES Units 1 and 2.

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Page 2 of 2

Via this letter a copy of this report is also forwarded to Mr. G. Bynog, the Director and Chief Inspector of Texas Department of Licensing and Regulation. Should you need additional copies or require additional information, please contact Obaid Bhatti at (254) 897-5839 or Douglas Snow at (254) 897-8448.

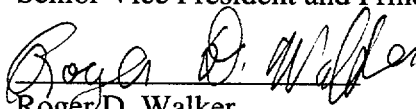
Sincerely,

TXU Generation Company LP

By: TXU Generation Management Company LLC
Its General Partner

C. L. Terry
Senior Vice President and Principal Nuclear Officer

By:


Roger D. Walker
Regulatory Affairs Manager

OAB/dws

Enclosure

cc:	E. W. Merschoff, Region IV	W/O Enclosure
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	D. H. Jaffe, NRR	W/O Enclosure
	Resident Inspectors, CPSES	W/O Enclosure
	G. Bynog, TDLR	
	J.C. Hair, ANII	

**AUGMENTED INSERVICE
INSPECTION PLAN**

TXU ENERGY

COMANCHE PEAK STEAM ELECTRIC STATION

UNIT 2

Revision 1

Prepared: Paul W. Pancher 3-27-02
ISI Program Coordinator Date

Approved: S. Lakdawala 3/27/02
Engineering Programs Manager Date

AUGMENTED INSERVICE INSPECTION PLAN

The purpose of this document is to identify and describe various regulatory and Comanche Peak Steam Electric Station (CPSES) commitments involving the performance of periodic non-destructive examinations (NDE) other than those addressed in ASME Section XI (i.e., augmented inservice inspection). A separate section is provided for each major activity. Within each section the following information is provided:

- a. Governing Document
- b. Exam Items & Boundaries
- c. NDE Method and Schedule
- d. Acceptance Criteria
- e. Special Reports

NOTE: Where Sections of the ASME Code are used in this document, the Edition and Addenda shall be as referenced in the CPSES Unit 1 Inservice Inspection Plan.

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2	Safety Injection Pump Shroud
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REACTOR COOLANT PUMP FLYWHEELS

This program shall provide for the inspection of each reactor coolant pump flywheel per the recommendations of Regulatory Position C.4.b of Regulatory Guide 1.14, Revision 1, August 1975. In lieu of Position C.4.b (1) and C.4.b (2), a qualified in-place UT examination over the volume from the inner bore of the flywheel to the circle one-half of the outer radius or a surface examination (MT and/or PT) of exposed surfaces of the removed flywheels may be conducted at approximately 10 year intervals coinciding with Inservice Inspection schedule as required by ASME Section XI.

The schedule for examinations shall be coincident with the inservice inspection periods and intervals described in ASME Section XI.

The acceptance limit for flaw size based upon the maximum design overspeed is 1.15 in. (Ref. WCAP-8163). All flaws detected shall be recorded for evaluation and monitored for growth rate.

No special reports are required for this activity unless examination and evaluation indicate that the 1.15 in. flaw size limit has been or will be exceeded during the service life of the flywheel. Should this occur, the NRC shall be notified (Ref. Guide 1.14). Records of the examinations shall be maintained with the applicable work control document.

Summary Discussion

- a. Governing Document - Regulatory Guide 1.14 Rev. 1.
- b. Exam Items and Boundaries - Each reactor coolant pump flywheel.
- c. NDE Method and Schedule - In-place UT examination over the volume from the inner bore of the flywheel to the circle one-half of the outer radius or a surface examination (MT and/or PT) of exposed surfaces of the removed flywheels may be conducted at approximately 10 year intervals
- d. Acceptance Criteria - No flaws greater than 1.15 in.
- e. Special Reports - The NRC shall be notified should the maximum flaw size be exceeded, or expect to be exceeded, during the service life.

SAFETY INJECTION PUMP SHROUD

Visible linear indications have been found on the shroud that separates and supports the diffuser vanes and return guide vanes on the type pump utilized as the safety injection pump at Comanche Peak Steam Electric Station (CPSES). These indications exceed the designer-permitted 1/16 in. maximum. The pump supplier (Pacific Pumps) has evaluated the significance of these indications and determined they have no adverse affects upon the operability of the pumps (Ref. NUREG-0797 Supplement 12).

Pacific Pumps has proposed a field inspection program which addresses this issue. This program has been supplemented by the NRC and is described in NUREG-0797 Supplement 12.

The program requires a visual and surface examination of the shroud section of the intermediate cover during normal or emergency maintenance at approximately 10-year intervals (pump disassembly solely for this examination is not required). A log of all indications is to be maintained, with indications having a depth greater than 1.0 in. in the radial direction to be reported to Pacific Pumps. Records of the examination shall be maintained in the applicable work control document.

Summary Discussion

- a. Governing Document - Supplemental Safety Evaluation Report 12 (NUREG-0797).
- b. Exam Items and Boundaries - Shroud section of the safety injection pumps' intermediate cover.
- c. NDE Method and Schedule - Visual and surface examination during normal or emergency maintenance at approximately 10-year intervals.
- d. Acceptance Criteria - All indications shall be recorded with evaluation being on a case-by-case basis.
- e. Special Reports - All indications exceeding 1.0 in. in radial direction shall be reported to Pacific Pumps.

FLUX THIMBLE TUBES

Westinghouse reactors containing bottom mounted instrumentation (BMI) flux thimble tubes have experienced wear due to flow induced vibration in the reactor vessel. These thimble tubes provide a pathway for the neutron flux detectors and extend from the seal table into the fuel assembly area. These tubes are closed within the vessel but open at the seal table. Therefore, these tubes constitute a portion of the reactor coolant system pressure boundary.

In response to this issue, the NRC issued Information Notice 87-44 (9/87), with supplement (3/88), and Bulletin 88-09 (7/88). Bulletin 88-09 requested an inspection program be implemented to monitor thimble tube performance, with the program to include acceptance criterion, inspection methodology and frequency. Letter TXX-89781 provides a response to this bulletin and describes the intention of TXU Energy to comply with the bulletins' requirements.

The augmented inservice inspection shall include a full length examination, within the limitations of probe travel, of all 58 thimble tubes using standard eddy current testing (ET) techniques. Supplementary techniques or methods may be used for further evaluation. These examinations shall be conducted during the first refueling outage with subsequent examinations determined by the results obtained during previous examination.

Acceptance criteria for this activity is as follows:

$W_a < 80\%$:	No action required
$W_a \geq 80\%$:	Cap or reposition

Use the following equation to calculate predicted wear:

$$W_a = W_d (N_a/N_d)^n$$

Where:

- N_a = Accumulated time at which wear depth is to be calculated
- N_d = Operating time accumulated before inspection
- W_a = Percent Wear Depth at time N_a
- W_d = Percent Wear Depth at the time of the inspection
- $n = 0.99$

Summary Discussion

- a. Governing Document - NRC Bulletin 88-09, CPSES-9006199.
- b. Exam Items and Boundaries -All 58 thimble tubes to the extent possible of the full length.
- c. NDE Method and Schedule - ET to be performed on a schedule based upon previous examinations..
- d. Acceptance Criteria -See above discussion based on WCAP 12866.
- e. Special Reports - A special report will be issued to the NRC within 30 days of completion of the thimble tube inspection conducted during the first outage. This report was submitted under letter TXX-91455. Following the first inspection no special reports are required.

Note:

The following pages tabulate wear data for the 58 thimble tubes obtained from the various refueling outages.

<u>TUBE ID</u>	<u>OUTAGE</u>	<u>Wd</u>	<u>COMMENTS</u>
A-9	RF01	0	
	RF02	34	
	RF03	25	
	RF04	24	
A-11	RF01	0	
	RF02	22	
	RF03	19	
	RF04	28	
B-3	RF01	0	
	RF02	23	
	RF03	16	
	RF04	0	
B-6	RF01	0	
	RF02	28	
	RF03	39	
	RF04	38	
B-8	RF01	0	
	RF02	40	
	RF03	46	
	RF04	52	
B-13	RF01	0	
	RF02	25	
	RF03	31	
	RF04	35	
C-5	RF01	0	
	RF02	20	
	RF03	15	
	RF04	0	
C-7	RF01	0	
	RF02	0	
	RF03	0	
	RF04	0	
C-8	RF01	0	
	RF02	29	
	RF03	24	
	RF04	18	
D-3	RF01	0	
	RF02	27	
	RF03	23	
	RF04	26	
D-8	RF01	0	
	RF02	0	
	RF03	0	
	RF04	0	
D-10	RF01	0	
	RF02	0	
	RF03	0	
	RF04	15	
D-12	RF01	0	
	RF02	24	
	RF03	29	
	RF04	28	
D-14	RF01	0	
	RF02	31	
	RF03	41	
	RF04	44	

<u>TUBE ID</u>	<u>OUTAGE</u>	<u>Wd</u>	<u>COMMENTS</u>
E-5	RF01	0	
	RF02	19	
	RF03	18	
	RF04	0	
E-9	RF01	24	
	RF02	30	
	RF03	27	
	RF04	29	
E-11	RF01	0	
	RF02	32	
	RF03	38	
	RF04	41	
F-1	RF01	0	
	RF02	32	
	RF03	23	
	RF04	20	
F-3	RF01	0	
	RF02	23	
	RF03	27	
	RF04	28	
F-7	RF01	0	
	RF02	24	
	RF03	26	
	RF04	22	
F-8	RF01	0	
	RF02	24	
	RF03	17	
	RF04	18	
F-14	RF01	0	
	RF02	24	
	RF03	26	
	RF04	29	
G-5	RF01	0	
	RF02	18	
	RF03	20	
	RF04	22	
G-9	RF01	0	
	RF02	23	
	RF03	24	
	RF04	26	
G-12	RF01	0	
	RF02	25	
	RF03	11	
	RF04	0	
H-2	RF01	0	
	RF02	21	
	RF03	18	
	RF04	21	
H-3	RF01	0	
	RF02	20	
	RF03	22	
	RF04	24	

<u>TUBE ID</u>	<u>OUTAGE</u>	<u>Wd</u>	<u>COMMENTS</u>
H-4	RF01	0	Tube repositioned at 2RF03
	RF02	27	
	RF03	35	
	RF04	33	
H-6	RF01	0	
	RF02	18	
	RF03	24	
	RF04	28	
H-11	RF01	35	
	RF02	49	
	RF03	50	
	RF04	53	
H-13	RF01	0	
	RF02	21	
	RF03	16	
	RF04	20	
H-15	RF01	58	
	RF02	65	
	RF03	76	
	RF04	26	
J-1	RF01	0	
	RF02	31	
	RF03	20	
	RF04	26	
J-7	RF01	0	
	RF02	35	
	RF03	30	
	RF04	35	
J-8	RF01	0	
	RF02	0	
	RF03	0	
	RF04	0	
J-10	RF01	0	
	RF02	45	
	RF03	50	
	RF04	51	
J-14	RF01	0	
	RF02	20	
	RF03	25	
	RF04	0	
K-2	RF01	21	
	RF02	28	
	RF03	32	
	RF04	34	
K-6	RF01	0	
	RF02	22	
	RF03	36	
	RF04	24	
K-12	RF01	0	
	RF02	0	
	RF03	0	
	RF04	0	
L-5	RF01	0	
	RF02	16	
	RF03	17	
	RF04	18	

<u>TUBE ID</u>	<u>OUTAGE</u>	<u>Wd</u>	<u>COMMENTS</u>
L-8	RF01	0	
	RF02	27	
	RF03	24	
	RF04	23	
L-10	RF01	0	
	RF02	19	
	RF03	19	
	RF04	0	
L-11	RF01	0	
	RF02	0	
	RF03	0	
	RF04	0	
L-13	RF01	0	
	RF02	31	
	RF03	28	
	RF04	20	
L-15	RF01	0	
	RF02	21	
	RF03	28	
	RF04	21	
M-7	RF01	0	
	RF02	23	
	RF03	24	
	RF04	33	
N-2	RF01	0	
	RF02	17	
	RF03	19	
	RF04	25	
N-4	RF01	0	
	RF02	24	
	RF03	24	
	RF04	20	
N-6	RF01	0	
	RF02	25	
	RF03	20	
	RF04	16	
N-8	RF01	0	
	RF02	22	
	RF03	22	
	RF04	0	
N-13	RF01	0	
	RF02	20	
	RF03	0	
	RF04	0	
N-14	RF01	0	
	RF02	25	
	RF03	13	
	RF04	18	
P-4	RF01	0	
	RF02	18	
	RF03	21	
	RF04	21	
P-9	RF01	22	
	RF02	27	
	RF03	33	
	RF04	32	

<u>TUBE ID</u>	<u>OUTAGE</u>	<u>Wd</u>	<u>COMMENTS</u>
R-6	RF01	0	
	RF02	0	
	RF03	0	
	RF04	0	R-8 RF01 0
R-11	RF02	38	
	RF03	31	
	RF04	20	
	RF01	0	
	RF02	20	
	RF03	20	
	RF04	22	

	<u>ONE/SMF</u>	<u>W.O.</u>	<u>Cycle Length EFPD</u>
2RF01	ONE 94-1280	3-94-329397-01	450
2RF02	ONE 96-207	3-95-329397-01	464
2RF03	ONE-97-1294	3-97-329397-01	537
2RF04	SMF 2000-2137	3-98-329397-01	445
2RF05	-	-	503 (est)
2RF06	-	-	510 (est)

SUPPLEMENTARY CONTAINMENT SPRAY AND RESIDUAL HEAT REMOVAL PIPING WELDS

The containment spray (CT) system piping on the discharge side of the four CT pumps contains 80 welds (15-25 each loop) that are 10-inch NPS Schedule 40 with a wall thickness of 0.365 inch. Furthermore, the residual heat removal (RHR) system piping on the discharge side of RHR pumps 1 and 2 contains a total of 166 welds on 8-inch and 10-inch NPS Schedule 40 piping with wall thicknesses of 0.322 inch and 0.365 inch, respectively.

Resulting from SSER-26, the augmented inservice inspection shall include a volumetric examination (i.e., ultrasonic examination) on 7.5 percent of the aforementioned welds. These examinations shall be distributed such that each weld or portion thereof is examined once during each 10-year interval.

Examination procedures and personnel shall be in accordance with the rules of ASME Section XI.

No special reports are required for this activity. Records of the examinations shall be maintained according to procedures.

Results of these examinations shall be evaluated against the acceptance criteria provided in ASME Section XI, IWC-3000.

Summary Discussion

- a. Governing Document - SSER-26
- b. Exam Items and Boundaries - 7.5 percent of the welds discussed above.
- c. NDE Method and Schedule - Ultrasonic examination once per 10-year interval. The specific schedule by refueling outage is attached..
- d. Acceptance Criteria - ASME Section XI, IWC-3000.
- e. Special Reports - None

DATE: 03/27/02

HIGH ENERGY LINE BREAK UNIT 2
INSERVICE INSPECTION PLAN
CLASS 2 SCHED/COMPL COMPONENTS

PAGE: 1

		INSPECTION INTERVAL		PLAN STATUS			PRESERVICE YEAR
		ASME		FIRST PERIOD	SECOND PERIOD	THIRD PERIOD	
		SEC. XI		-----	-----	-----	
SUMMARY	EXAMINATION AREA	CATGY	NDE	O U T A G E			INSTRUCTIONS
NUMBER	IDENTIFICATION	ITEM NO	METH	1 2	1 2 3	1 2	**CALIBRATION BLOCK**

<u>MAIN STEAM 32-MS-2-001-1303-2</u>							
099200	TCX-2-2100-16 PIPE TO PIPE 877SB	C-F-2 C5.51	UT	1 C -	- - -	- -	TDLR VERIFICATION BOUNDARY. **TBX-33**
099250	TCX-2-2100-16L LONG. SEAM 877RB	C-F-2 C5.52	UT	1 C -	- - -	- -	100% FROM WELD 16 TO 21. TDLR VERIFICATION BOUNDARY. **TBX-33**
<u>MAIN STEAM MS-25 (DRIP POT)</u>							
099400	TCX-2-2100-18 PIPE TO BRANCH CONNECTION 874SB	C-F-2 C5.51	UT	1 C -	- - -	- -	TDLR VERIFICATION BOUNDARY. **TBX-22**
<u>MAIN STEAM 32-MS-2-001-1303-2</u>							
099700	TCX-2-2100-21 PIPE TO PIPE 877SB	C-F-2 C5.51	UT	1 C -	- - -	- -	TDLR VERIFICATION BOUNDARY. **TBX-33**
099750	TCX-2-2100-21L LONG. SEAM 877SB	C-F-2 C5.52	UT	1 C -	- - -	- -	100% FROM WELD 21 TO 25. TDLR VERIFICATION BOUNDARY. **TBX-33**
100100	TCX-2-2100-25 PIPE TO PIPE 877SB	C-F-2 C5.51	UT	1 C -	- - -	- -	TDLR VERIFICATION BOUNDARY. **TBX-33**

HIGH ENERGY LINE BREAK UNIT 2
INSERVICE INSPECTION PLAN
CLASS 2 SCHED/COMPL COMPONENTS

		INSPECTION INTERVAL		PLAN STATUS						PRESERVICE YEAR	
		ASME		FIRST	SECOND	THIRD					
		SEC. XI		PERIOD	PERIOD	PERIOD					
SUMMARY	EXAMINATION AREA	CATGY	NDE	O U T A G E						INSTRUCTIONS	
NUMBER	IDENTIFICATION	ITEM NO	METH	1	2	1	2	3	1	2	**CALIBRATION BLOCK**

<u>MAIN STEAM 32-MS-2-001-1303-2</u>											
100150	TCX-2-2100-25L LONG. SEAM 877SB	C-F-2	UT	1	C -	-	-	-	-	-	100% FROM WELD 25 TO 26. TDLR VERIFICATION BOUNDARY. **TBX-33**
100200	TCX-2-2100-26 PIPE TO VALVE 877SB	C-F-2	UT	1	C -	-	-	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-33**
100300	TCX-2-2100-27 VALVE TO MOMENT RESTRAINT 877SB	C-F-2	UT	1	- -	-	-	-	-	-	92 SELECTED FOR ISI. **TBX-33**
<u>MAIN STEAM MS-25 (DRIP POT)</u>											
100500	TCX-2-2100-29 PIPE TO CAP 874SB	C-F-2	UT	1	C -	-	-	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-22**
<u>MAIN STEAM 8-MS-2-257-1303-2</u>											
100600	TCX-2-2100-30 BRANCH CONNECTION TO PIPE 878SB	C-F-2	UT	1	C -	-	-	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-17**
100700	TCX-2-2100-31 PIPE TO VALVE 881SB	C-F-2	UT	1	C -	-	-	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-17**

INSPECTION INTERVAL				PLAN STATUS						PRESERVICE YEAR	
				FIRST	SECOND	THIRD					
ASME				PERIOD	PERIOD	PERIOD					
SEC. XI				-----							
SUMMARY	EXAMINATION AREA	CATGY	NDE	O U T A G E						INSTRUCTIONS	
NUMBER	IDENTIFICATION	ITEM NO	METH	1	2	1	2	3	1	2	**CALIBRATION BLOCK**

<u>MAIN STEAM 8-MS-2-257-1303-2</u>											
100900	TCX-2-2100-33	C-F-2	UT	1	C -	-	-	-	-	-	TDLR VERIFICATION BOUNDARY.
	PIPE TO ELBOW	C5.51									
	885SB										**TBX-17**
101000	TCX-2-2100-34	C-F-2	UT	1	C -	-	-	-	-	-	TDLR VERIFICATION BOUNDARY.
	ELBOW TO PIPE	C5.51									
	885SB										**TBX-17**
101100	TCX-2-2100-35	C-F-2	UT	1	C -	-	-	-	-	-	TDLR VERIFICATION BOUNDARY.
	PIPE TO VALVE	C5.51									
	885SB										**TBX-17**
<u>MAIN STEAM 6-2003-2</u>											
101200	TCX-2-2100-36	C-F-2	UT	1	C -	-	-	-	-	-	TDLR VERIFICATION BOUNDARY.
	BRANCH CONNECTION TO FLANGE	C5.51									
	878SB										**TBX-36**
101300	TCX-2-2100-37	C-F-2	UT	1	C -	-	-	-	-	-	TDLR VERIFICATION BOUNDARY.
	BRANCH CONNECTION TO FLANGE	C5.51									
	878SB										**TBX-36**
101400	TCX-2-2100-38	C-F-2	UT	1	C -	-	-	-	-	-	TDLR VERIFICATION BOUNDARY.
	BRANCH CONNECTION TO FLANGE	C5.51									
	878SB										**TBX-36**
101500	TCX-2-2100-39	C-F-2	UT	1	C -	-	-	-	-	-	TDLR VERIFICATION BOUNDARY.
	BRANCH CONNECTION TO FLANGE	C5.51									
	878SB										**TBX-36**

		INSPECTION INTERVAL		PLAN STATUS			PRESERVICE YEAR
		ASME		FIRST PERIOD	SECOND PERIOD	THIRD PERIOD	
		SEC. XI		-----			
SUMMARY	EXAMINATION AREA	CATGY	NDE	O U T A G E			INSTRUCTIONS
NUMBER	IDENTIFICATION	ITEM NO	METH	1	2	3	**CALIBRATION BLOCK**
-----		-----	-----	-----			-----
<u>MAIN STEAM 6-2003-2</u>							
101600	TCX-2-2100-40	C-F-2	UT	1	C	-	TDLR VERIFICATION BOUNDARY.
	BRANCH CONNECTION TO FLANGE	C5.51					
	878SB						**TBX-36**
<u>FEEDWATER 18-FW-2-019-1303-2</u>							
102800	TCX-2-2101-12	C-F-2	UT	1	C	-	TDLR VERIFICATION BOUNDARY.
	PIPE TO PIPE	C5.51					
	856SB						**TBX-21**
<u>FEEDWATER 18-FW-2-036-2003-2</u>							
103000	TCX-2-2101-14	C-F-2	UT	1	-	-	92 TDLR VERIFICATION BOUNDARY.
	PIPE TO VALVE	C5.51					
	856SB						**TBX-38**
103200	TCX-2-2101-16	C-F-2	UT	1	C	-	
	PIPE TO VALVE	C5.51					
	856SB						**TBX-38**
103300	TCX-2-2101-17	C-F-2	UT	1	C	-	
	VALVE TO PIPE	C5.51					
	856SB						**TBX-38**
103400	TCX-2-2101-18	C-F-2	UT	1	C	-	
	PIPE TO MOMENT RESTRAINT	C5.51					
	856SB						**TBX-38**

INSPECTION INTERVAL				PLAN STATUS						PRESERVICE YEAR	
				FIRST	SECOND	THIRD					
				PERIOD	PERIOD	PERIOD					
ASME				-----							
SEC. XI				-----							
SUMMARY	EXAMINATION AREA	CATGY	NDE	O U T A G E						INSTRUCTIONS	
NUMBER	IDENTIFICATION	ITEM NO	METH	1	2	1	2	3	1	2	**CALIBRATION BLOCK**

<u>FEEDWATER 6-FW-2-095-1303-2</u>											
108500	TCX-2-2103-10	C-F-2	UT	1	C	-	-	-	-	-	TDLR VERIFICATION BOUNDARY.
	PIPE TO PIPE	C5.51									
	864SB										**TBX-35**
108600	TCX-2-2103-11	C-F-2	UT	1	C	-	-	-	-	-	TDLR VERIFICATION BOUNDARY.
	ELBOW TO PIPE	C5.51									
	864SB										**TBX-35**
108700	TCX-2-2103-12	C-F-2	UT	1	C	-	-	-	-	-	TDLR VERIFICATION BOUNDARY.
	PIPE TO ELBOW	C5.51									
	864SB										**TBX-35**
108800	TCX-2-2103-13	C-F-2	UT	1	C	-	-	-	-	-	TDLR VERIFICATION BOUNDARY.
	ELBOW TO PIPE	C5.51									
	864SB										**TBX-35**
108900	TCX-2-2103-14	C-F-2	UT	1	C	-	-	-	-	-	TDLR VERIFICATION BOUNDARY.
	PIPE TO ELBOW	C5.51									
	865SB										**TBX-35**
109000	TCX-2-2103-15	C-F-2	UT	1	C	-	-	-	-	-	TDLR VERIFICATION BOUNDARY.
	ELBOW TO PIPE	C5.51									
	868SB										**TBX-35**
109100	TCX-2-2103-16	C-F-2	UT	1	C	-	-	-	-	-	TDLR VERIFICATION BOUNDARY.
	PIPE TO ELBOW	C5.51									
	869SB										**TBX-35**

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HIGH ENERGY LINE BREAK UNIT 2
INSERVICE INSPECTION PLAN
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INSPECTION INTERVAL				PLAN STATUS						PRESERVICE YEAR			
				FIRST	SECOND			THIRD					
				PERIOD	PERIOD			PERIOD					
SEC. XI				-----									
SUMMARY	EXAMINATION AREA	CATGY	NDE	O U T A G E									INSTRUCTIONS
NUMBER	IDENTIFICATION	ITEM NO	METH	1	2	1	2	3	1	2	**CALIBRATION BLOCK**		

<u>FEEDWATER 6-FW-2-095-1303-2</u>													
109200	TCX-2-2103-17 ELBOW TO PIPE 869SB	C-F-2 C5.51	UT	1	C -	-	-	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**		
109300	TCX-2-2103-18 PIPE TO ELBOW 868SB	C-F-2 C5.51	UT	1	C -	-	-	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**		
109400	TCX-2-2103-19 ELBOW TO PIPE 863SB	C-F-2 C5.51	UT	1	C -	-	-	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**		
109500	TCX-2-2103-20 PIPE TO ELBOW 862SB	C-F-2 C5.51	UT	1	C -	-	-	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**		
109600	TCX-2-2103-21 TEE TO PIPE 862SB	C-F-2 C5.51	UT	1	C -	-	-	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**		
109700	TCX-2-2103-22 PIPE TO TEE 862SB	C-F-2 C5.51	UT	1	C -	-	-	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**		
109800	TCX-2-2103-23 VALVE TO PIPE 862SB	C-F-2 C5.51	UT	1	C -	-	-	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**		

INSERVICE INSPECTION PLAN
CLASS 2 SCHED/COMPL COMPONENTS

		INSPECTION INTERVAL		PLAN STATUS						PRESERVICE YEAR	
		ASME		FIRST	SECOND	THIRD					
		SEC. XI		PERIOD	PERIOD	PERIOD					
SUMMARY	EXAMINATION AREA	CATGY	NDE	O U T A G E						INSTRUCTIONS	
NUMBER	IDENTIFICATION	ITEM NO	METH	1	2	1	2	3	1	2	**CALIBRATION BLOCK**

<u>FEEDWATER 6-FW-2-095-1303-2</u>											
109900	TCX-2-2103-24 PIPE TO VALVE 862SB	C-F-2 C5.51	UT	1	-	-	-	-	-	92	SELECTED FOR ISI. TDLR VERIFICATION BOUNDARY. **TBX-35**
110000	TCX-2-2103-25 PIPE TO PIPE 862SB	C-F-2 C5.51	UT	1	C	-	-	-	-		TDLR VERIFICATION BOUNDARY. **TBX-35**
<u>FEEDWATER 6-FW-2-091-2003-2</u>											
110100	TCX-2-2103-26 VALVE TO PIPE 862SB	C-F-2 C5.51	UT	1	C	-	-	-	-		TDLR VERIFICATION BOUNDARY. **TBX-34**
110300	TCX-2-2103-28 ELBOW TO PIPE 862SB	C-F-2 C5.51	UT	1	C	-	-	-	-		**TBX-34**
110400	TCX-2-2103-29 PIPE TO ELBOW 862SB	C-F-2 C5.51	UT	1	C	-	-	-	-		**TBX-34**
110500	TCX-2-2103-30 ELBOW TO PIPE 862SB	C-F-2 C5.51	UT	1	C	-	-	-	-		**TBX-34**
110600	TCX-2-2103-31 PIPE TO ELBOW 861SB	C-F-2 C5.51	UT	1	C	-	-	-	-		**TBX-34**

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INSERVICE INSPECTION PLAN
CLASS 2 SCHED/COMPL COMPONENTS

		INSPECTION INTERVAL		PLAN STATUS			PRESERVICE YEAR
		ASME		FIRST PERIOD	SECOND PERIOD	THIRD PERIOD	
		SEC. XI		-----			
SUMMARY	EXAMINATION AREA	CATGY	NDE	O U T A G E			INSTRUCTIONS
NUMBER	IDENTIFICATION	ITEM NO	METH	1	2	3	**CALIBRATION BLOCK**
-----		-----		-----			-----
<u>FEEDWATER 6-FW-2-091-2003-2</u>							
110700	TCX-2-2103-32 VALVE TO PIPE 861SB	C-F-2 C5.51	UT	1	C	-	- - - - -
							TBX-34
110800	TCX-2-2103-33 PIPE TO VALVE 860SB	C-F-2 C5.51	UT	1	C	-	- - - - -
							TBX-34
110900	TCX-2-2103-34 BRANCH CONNECTION TO PIPE 857SB	C-F-2 C5.51	UT	1	-	-	- - - - -
							92 SELECTED FOR ISI.
							TBX-34
<u>MAIN STEAM 32-MS-2-002-1303-2</u>							
112900	TCX-2-2200-19 PIPE TO PIPE R109C877SB	C-F-2 C5.51	UT	1	-	-	C - - - - -
							TDLR VERIFICATION BOUNDARY.
							TBX-33
112950	TCX-2-2200-19L LONG. SEAM R109C877SB	C-F-2 C5.52	UT	1	-	-	C - - - - -
							100% FROM WELD 19 TO 23. TDLR VERIFICATION BOUNDARY.
							TBX-33
113300	TCX-2-2200-23 PIPE TO PIPE R109C877SB	C-F-2 C5.51	UT	1	-	-	C - - - - -
							TDLR VERIFICATION BOUNDARY.
							TBX-33
113550	TCX-2-2200-23L LONG. SEAM R109C877SB	C-F-2 C5.52	UT	1	-	-	C - - - - -
							100% FROM WELD 23 TO 27. TDLR VERIFICATION BOUNDARY.
							TBX-33

INSERVICE INSPECTION PLAN

CLASS 2 SCHED/COMPL COMPONENTS

				INSPECTION INTERVAL		PLAN STATUS						PRESERVICE YEAR	
				ASME		FIRST		SECOND		THIRD			
				SEC. XI		PERIOD		PERIOD		PERIOD			
SUMMARY EXAMINATION AREA				CATGY NDE		- - - - -		O U T A G E		- - - - -		INSTRUCTIONS	
NUMBER	IDENTIFICATION			ITEM NO	METH	1	2	1	2	3	1	2	**CALIBRATION BLOCK**

<u>MAIN STEAM 32-MS-2-002-1303-2</u>													
113700	TCX-2-2200-27 PIPE TO PIPE R110C877SB			C-F-2 C5.51	UT	1	-	-	C	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-33**
113750	TCX-2-2200-27L LONG. SEAM R110C877SB			C-F-2 C5.52	UT	1	-	-	C	-	-	-	100% FROM WELD 27 TO 28. TDLR VERIFICATION BOUNDARY. **TBX-33**
113800	TCX-2-2200-28 PIPE TO VALVE R110C877SB			C-F-2 C5.51	UT	1	-	-	C	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-33**
113900	TCX-2-2200-29 VALVE TO MOMENT RESTRAINT R109C877SB			C-F-2 C5.51	UT	1	-	-	-	-	-	-	92 SELECTED FOR ISI. **TBX-33**
<u>MAIN STEAM 8-MS-2-240-1303-2</u>													
114000	TCX-2-2200-30 BRANCH CONNECTION TO PIPE R109C878SB			C-F-2 C5.51	UT	1	-	-	C	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-17**
114100	TCX-2-2200-31 PIPE TO VALVE R109C881SB			C-F-2 C5.51	UT	1	-	-	C	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-17**
114200	TCX-2-2200-32 VALVE TO PIPE R109C883SB			C-F-2 C5.51	UT	1	-	-	C	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-17**

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INSPECTION INTERVAL				PLAN STATUS						PRESERVICE YEAR	
				FIRST	SECOND	THIRD					
				PERIOD	PERIOD	PERIOD					
SEC. XI				-----							
CATGY NDE				O U T A G E - - - - -							
SUMMARY	EXAMINATION AREA			1	2	1	2	3	1	2	INSTRUCTIONS
NUMBER	IDENTIFICATION	ITEM NO	METH	1	2	1	2	3	1	2	**CALIBRATION BLOCK**

MAIN STEAM 8-MS-2-240-1303-2											
114300	TCX-2-2200-33 PIPE TO ELBOW R109C883SB	C-F-2 C5.51	UT	1	-	-	-	-	-	92	SELECTED FOR ISI. TDLR VERIFICATION BOUNDARY. **TBX-17**
114400	TCX-2-2200-34 ELBOW TO PIPE R109C885SB	C-F-2 C5.51	UT	1	-	-	C	-	-		TDLR VERIFICATION BOUNDARY. **TBX-17**
MAIN STEAM 6-2003-2											
114600	TCX-2-2200-36 BRANCH CONNECTION TO FLANGE R109C878SB	C-F-2 C5.51	UT	1	-	-	-	-	-	92	SELECTED FOR ISI. TDLR VERIFICATION BOUNDARY. **TBX-36**
114700	TCX-2-2200-37 BRANCH CONNECTION TO FLANGE R109C878SB	C-F-2 C5.51	UT	1	-	-	C	-	-		TDLR VERIFICATION BOUNDARY. **TBX-36**
114800	TCX-2-2200-38 BRANCH CONNECTION TO FLANGE R109C878SB	C-F-2 C5.51	UT	1	-	-	C	-	-		TDLR VERIFICATION BOUNDARY. **TBX-36**
114900	TCX-2-2200-39 BRANCH CONNECTION TO FLANGE R109C878SB	C-F-2 C5.51	UT	1	-	-	C	-	-		TDLR VERIFICATION BOUNDARY. **TBX-36**
115000	TCX-2-2200-40 BRANCH CONNECTION TO FLANGE R109C878SB	C-F-2 C5.51	UT	1	-	-	C	-	-		TDLR VERIFICATION BOUNDARY. **TBX-36**

		INSPECTION INTERVAL		PLAN STATUS			PRESERVICE YEAR
		ASME		FIRST PERIOD	SECOND PERIOD	THIRD PERIOD	
		SEC. XI		-----			
SUMMARY	EXAMINATION AREA	CATGY	NDE	O U T A G E			INSTRUCTIONS
NUMBER	IDENTIFICATION	ITEM NO	METH	1	2	3	**CALIBRATION BLOCK**
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<u>MAIN STEAM MS-24 (DRIP POT)</u>							
115200	TCX-2-2200-66 BRANCH CONNECTION TO PIPE R110C876SB	C-F-2 C5.51	UT	1	-	-	TDLR VERIFICATION BOUNDARY. **TBX-22**
115300	TCX-2-2200-67 PIPE TO CAP R100D874SB	C-F-2 C5.51	UT	1	-	-	TDLR VERIFICATION BOUNDARY. **TBX-22**
<u>FEEDWATER 18-FW-2-035-2003-2</u>							
118000	TCX-2-2202-1 MOMENT RESTRAINT TO PIPE 856SB	C-F-2 C5.51	UT	1	-	C	 **TBX-38**
118100	TCX-2-2202-2 PIPE TO VALVE 856SB	C-F-2 C5.51	UT	1	-	C	 **TBX-38**
118200	TCX-2-2202-3 VALVE TO PIPE 856SB	C-F-2 C5.51	UT	1	-	C	 **TBX-38**
<u>FEEDWATER 18-FW-2-018-1303-2</u>							
118600	TCX-2-2202-7 PIPE TO PIPE 856SB	C-F-2 C5.51	UT	1	-	C	TDLR VERIFICATION BOUNDARY. **TBX-21**

INSERVICE INSPECTION PLAN
CLASS 2 SCHED/COMPL COMPONENTS

		INSPECTION INTERVAL		PLAN STATUS			PRESERVICE YEAR
		ASME		FIRST PERIOD	SECOND PERIOD	THIRD PERIOD	
		SEC. XI		-----			
SUMMARY	EXAMINATION AREA	CATGY	NDE	O U T A G E			INSTRUCTIONS
NUMBER	IDENTIFICATION	ITEM NO	METH	1	2	3	1 2
-----		-----		-----			-----
<u>FEEDWATER 6-FW-2-092-2003-2</u>							
122000	TCX-2-2204-2 BRANCH CONNECTION TO PIPE 857SB	C-F-2	UT	1 - C	- - -	- -	
		C5.51					**TBX-34**
122100	TCX-2-2204-3 PIPE TO VALVE 860SB	C-F-2	UT	1 - C	- - -	- -	
		C5.51					**TBX-34**
122200	TCX-2-2204-4 VALVE TO PIPE 861SB	C-F-2	UT	1 - C	- - -	- -	
		C5.51					**TBX-34**
122300	TCX-2-2204-5 PIPE TO ELBOW 862SB	C-F-2	UT	1 - C	- - -	- -	
		C5.51					**TBX-34**
122400	TCX-2-2204-6 ELBOW TO PIPE 863SB	C-F-2	UT	1 - -	- - -	- -	92
		C5.51					SELECTED FOR ISI.
							TBX-34
122500	TCX-2-2204-7 PIPE TO ELBOW 863SB	C-F-2	UT	1 - C	- - -	- -	
		C5.51					**TBX-34**
122600	TCX-2-2204-8 ELBOW TO PIPE 863SB	C-F-2	UT	1 - C	- - -	- -	
		C5.51					**TBX-34**

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INSPECTION INTERVAL				PLAN STATUS			PRESERVICE YEAR	
				FIRST	SECOND	THIRD		
				PERIOD	PERIOD	PERIOD		
SEC. XI				-----				
CATGY NDE				O U T A G E - - - - -			INSTRUCTIONS	
SUMMARY	EXAMINATION AREA	ITEM NO	METH	1	2	3	1 2	**CALIBRATION BLOCK**
NUMBER	IDENTIFICATION							

<u>FEEDWATER 6-FW-2-092-2003-2</u>								
122700	TCX-2-2204-9	C-F-2	UT	1	-	C	- - - - -	
	PIPE TO VALVE	C5.51						
	863SB							**TBX-34**
122800	TCX-2-2204-10	C-F-2	UT	1	-	-	- - - - -	92
	VALVE TO PIPE	C5.51						SELECTED FOR ISI. TDLR
	863SB							VERIFICATION BOUNDARY.
								TBX-34
<u>FEEDWATER 6-FW-2-096-1303-2</u>								
122900	TCX-2-2204-11	C-F-2	UT	1	-	C	- - - - -	
	PIPE TO PIPE	C5.51						TDLR VERIFICATION BOUNDARY.
	863SB							**TBX-35**
123000	TCX-2-2204-12	C-F-2	UT	1	-	C	- - - - -	
	PIPE TO VALVE	C5.51						TDLR VERIFICATION BOUNDARY.
	863SB							**TBX-35**
123100	TCX-2-2204-13	C-F-2	UT	1	-	C	- - - - -	
	VALVE TO PIPE	C5.51						TDLR VERIFICATION BOUNDARY.
	863SB							**TBX-35**
123200	TCX-2-2204-14	C-F-2	UT	1	-	C	- - - - -	
	PIPE TO TEE	C5.51						TDLR VERIFICATION BOUNDARY.
	863SB							**TBX-35**
123300	TCX-2-2204-15	C-F-2	UT	1	-	C	- - - - -	
	TEE TO PIPE	C5.51						TDLR VERIFICATION BOUNDARY.
	863SB							**TBX-35**

		INSPECTION INTERVAL		PLAN STATUS						PRESERVICE YEAR	
		ASME		FIRST	SECOND	THIRD					
		SEC. XI		PERIOD	PERIOD	PERIOD					
SUMMARY	EXAMINATION AREA	CATGY	NDE	O U T A G E						INSTRUCTIONS	
NUMBER	IDENTIFICATION	ITEM NO	METH	1	2	1	2	3	1	2	**CALIBRATION BLOCK**

<u>FEEDWATER 6-FW-2-096-1303-2</u>											
123400	TCX-2-2204-16 PIPE TO ELBOW 863SB	C-F-2 C5.51	UT	1	-	-	-	-	-	92	SELECTED FOR ISI. TDLR VERIFICATION BOUNDARY. **TBX-35**
123500	TCX-2-2204-17 ELBOW TO PIPE 863SB	C-F-2 C5.51	UT	1	-	C	-	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**
123600	TCX-2-2204-18 PIPE TO ELBOW 868SB	C-F-2 C5.51	UT	1	-	C	-	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**
123700	TCX-2-2204-19 ELBOW TO PIPE 870SB	C-F-2 C5.51	UT	1	-	C	-	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**
123800	TCX-2-2204-20 PIPE TO ELBOW 870SB	C-F-2 C5.51	UT	1	-	C	-	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**
123900	TCX-2-2204-21 ELBOW TO PIPE 868SB	C-F-2 C5.51	UT	1	-	C	-	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**
124000	TCX-2-2204-22 PIPE TO ELBOW 865SB	C-F-2 C5.51	UT	1	-	C	-	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**

INSPECTION INTERVAL				PLAN STATUS						PRESERVICE YEAR			
				FIRST	SECOND			THIRD					
ASME				PERIOD	PERIOD			PERIOD					
SEC. XI				-----			-----						
SUMMARY EXAMINATION AREA				CATGY	NDE	O U T A G E						INSTRUCTIONS	
NUMBER	IDENTIFICATION			ITEM NO	METH	1	2	1	2	3	1	2	**CALIBRATION BLOCK**

FEEDWATER 6-FW-2-096-1303-2

124100	TCX-2-2204-23 ELBOW TO PIPE 864SB	C-F-2 C5.51	UT	1	-	C	-	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**
124200	TCX-2-2204-24 PIPE TO ELBOW 864SB	C-F-2 C5.51	UT	1	-	C	-	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**
124300	TCX-2-2204-25 ELBOW TO PIPE 864SB	C-F-2 C5.51	UT	1	-	C	-	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**
124400	TCX-2-2204-26 PIPE TO PIPE 864SB	C-F-2 C5.51	UT	1	-	C	-	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**

MAIN STEAM 32-MS-2-003-1303-2

129700	TCX-2-2300-18 PIPE TO PIPE 877SB	C-F-2 C5.51	UT	1	-	-	-	C	-	-	TDLR VERIFICATION BOUNDARY. **TBX-33**
129750	TCX-2-2300-18L LONG. SEAM 877SB	C-F-2 C5.52	UT	1	-	-	-	C	-	-	100% FROM WELD 18 TO 22. TDLR VERIFICATION BOUNDARY. **TBX-33**
130100	TCX-2-2300-22 PIPE TO PIPE 877SB	C-F-2 C5.51	UT	1	-	-	-	C	-	-	TDLR VERIFICATION BOUNDARY. **TBX-33**

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		INSPECTION INTERVAL		PLAN STATUS			PRESERVICE YEAR
		ASME		FIRST	SECOND	THIRD	
		SEC. XI		PERIOD	PERIOD	PERIOD	
SUMMARY	EXAMINATION AREA	CATGY	NDE	O U T A G E			INSTRUCTIONS
NUMBER	IDENTIFICATION	ITEM NO	METH	1	2	3	**CALIBRATION BLOCK**

<u>MAIN STEAM 32-MS-2-003-1303-2</u>							
130150	TCX-2-2300-22L LONG. SEAM 877SB	C-F-2 C5.52	UT	1	-	-	100% FROM WELD 22 TO 26. TDLR VERIFICATION BOUNDARY. **TBX-33**
130500	TCX-2-2300-26 PIPE TO PIPE 877SB	C-F-2 C5.51	UT	1	-	-	TDLR VERIFICATION BOUNDARY. **TBX-33**
130550	TCX-2-2300-26L LONG. SEAM 877SB	C-F-2 C5.52	UT	1	-	-	100% FROM WELD 26 TO 27. TDLR VERIFICATION BOUNDARY. **TBX-33**
130600	TCX-2-2300-27 PIPE TO VALVE 877SB	C-F-2 C5.51	UT	1	-	-	TDLR VERIFICATION BOUNDARY. **TBX-33**
130700	TCX-2-2300-28 VALVE TO MOMENT RESTRAINT 877SB	C-F-2 C5.51	UT	1	-	-	 **TBX-33**
<u>MAIN STEAM MS-23 (DRIP POT)</u>							
130900	TCX-2-2300-30 PIPE TO CAP 873SB	C-F-2 C5.51	UT	1	-	-	TDLR VERIFICATION BOUNDARY. **TBX-22**
<u>MAIN STEAM 8-MS-2-223-1303-2</u>							
131000	TCX-2-2300-31 BRANCH CONNECTION TO PIPE 878SB	C-F-2 C5.51	UT	1	-	-	92 TDLR VERIFICATION BOUNDARY. **TBX-17**

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		INSPECTION INTERVAL		PLAN STATUS			PRESERVICE YEAR
		ASME		FIRST PERIOD	SECOND PERIOD	THIRD PERIOD	
		SEC. XI		-----	-----	-----	
SUMMARY	EXAMINATION AREA	CATGY	NDE	O U T A G E			INSTRUCTIONS
NUMBER	IDENTIFICATION	ITEM NO	METH	1 2	1 2 3	1 2	**CALIBRATION BLOCK**

<u>MAIN STEAM 8-MS-2-223-1303-2</u>							
131100	TCX-2-2300-32 PIPE TO VALVE 880SB	C-F-2	UT	1 - -	- C -	- -	TDLR VERIFICATION BOUNDARY.
		C5.51					**TBX-17**
131300	TCX-2-2300-34 PIPE TO ELBOW 884SB	C-F-2	UT	1 - -	- C -	- -	TDLR VERIFICATION BOUNDARY.
		C5.51					**TBX-17**
131400	TCX-2-2300-35 ELBOW TO PIPE 885SB	C-F-2	UT	1 - -	- C -	- -	TDLR VERIFICATION BOUNDARY.
		C5.51					**TBX-17**
131500	TCX-2-2300-36 PIPE TO VALVE 885SB	C-F-2	UT	1 - -	- C -	- -	TDLR VERIFICATION BOUNDARY.
		C5.51					**TBX-17**
<u>MAIN STEAM 6-2003-2</u>							
131600	TCX-2-2300-37 BRANCH CONNECTION TO FLANGE 878SB	C-F-2	UT	1 - -	- C -	- -	TDLR VERIFICATION BOUNDARY.
		C5.51					**TBX-36**
131700	TCX-2-2300-38 BRANCH CONNECTION TO FLANGE 878SB	C-F-2	UT	1 - -	- C -	- -	TDLR VERIFICATION BOUNDARY.
		C5.51					**TBX-36**
131800	TCX-2-2300-39 BRANCH CONNECTION TO FLANGE 878SB	C-F-2	UT	1 - -	- C -	- -	TDLR VERIFICATION BOUNDARY.
		C5.51					**TBX-36**

[illegible]

INSPECTION INTERVAL				PLAN STATUS				PRESERVICE YEAR
				FIRST	SECOND	THIRD		
				PERIOD	PERIOD	PERIOD		
SEC. XI				-----				
SUMMARY	EXAMINATION AREA	CATGY	NDE	O U T A G E				INSTRUCTIONS
NUMBER	IDENTIFICATION	ITEM NO	METH	1	2	3	2	**CALIBRATION BLOCK**
-----				-----				-----
FEEDWATER 18-FW-2-034-2003-2								
135400	TCX-2-2301-33	C-F-2	UT	1	-	-	-	
	PIPE TO MOMENT RESTRAINT	C5.51						
	R100H856SB							**TBX-38**
FEEDWATER 6-FW-2-093-2003-2								
138700	TCX-2-2303-2	C-F-2	UT	1	-	-	-	
	BRANCH CONNECTION TO PIPE	C5.51						
	R100D856SB							**TBX-34**
138800	TCX-2-2303-3	C-F-2	UT	1	-	-	-	
	PIPE TO VALVE	C5.51						
	R100D858SB							**TBX-34**
138900	TCX-2-2303-4	C-F-2	UT	1	-	-	-	
	VALVE TO PIPE	C5.51						
	R100D859SB							**TBX-34**
139000	TCX-2-2303-5	C-F-2	UT	1	-	-	-	
	PIPE TO ELBOW	C5.51						
	R100D862SB							**TBX-34**
139100	TCX-2-2303-6	C-F-2	UT	1	-	-	-	92
	ELBOW TO PIPE	C5.51						SELECTED FOR ISI.
	R100D863SB							**TBX-34**
139200	TCX-2-2303-7	C-F-2	UT	1	-	-	-	
	PIPE TO ELBOW	C5.51						
	R100D863SB							**TBX-34**

INSPECTION INTERVAL				PLAN STATUS			PRESERVICE YEAR
				FIRST	SECOND	THIRD	
				PERIOD	PERIOD	PERIOD	
SEC. XI				-----			
CATGY NDE				O U T A G E			INSTRUCTIONS
SUMMARY	EXAMINATION AREA			1 2	1 2 3	1 2	**CALIBRATION BLOCK**
NUMBER	IDENTIFICATION	ITEM NO	METH				

FEEDWATER 6-FW-2-093-2003-2							
139300	TCX-2-2303-8	C-F-2	UT	1 - -	C - -	- -	
	ELBOW TO PIPE	C5.51					
	R100D863SB						**TBX-34**
139400	TCX-2-2303-9	C-F-2	UT	1 - -	C - -	- -	
	PIPE TO VALVE	C5.51					
	R100D863SB						**TBX-34**
139500	TCX-2-2303-10	C-F-2	UT	1 - -	C - -	- -	TDLR VERIFICATION BOUNDARY.
	VALVE TO PIPE	C5.51					
	R100D863SB						**TBX-34**
FEEDWATER 6-FW-2-097-1303-2							
139600	TCX-2-2303-11	C-F-2	UT	1 - -	C - -	- -	TDLR VERIFICATION BOUNDARY.
	PIPE TO PIPE	C5.51					
	R100D863SB						**TBX-35**
139800	TCX-2-2303-13	C-F-2	UT	1 - -	C - -	- -	TDLR VERIFICATION BOUNDARY.
	VALVE TO PIPE	C5.51					
	R100D863SB						**TBX-35**
139900	TCX-2-2303-14	C-F-2	UT	1 - -	C - -	- -	TDLR VERIFICATION BOUNDARY.
	PIPE TO TEE	C5.51					
	R100D863SB						**TBX-35**
140000	TCX-2-2303-15	C-F-2	UT	1 - -	C - -	- -	TDLR VERIFICATION BOUNDARY.
	TEE TO PIPE	C5.51					
	R100D863SB						**TBX-35**

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HIGH ENERGY LINE BREAK UNIT 2
INSERVICE INSPECTION PLAN
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		INSPECTION INTERVAL		PLAN STATUS						PRESERVICE YEAR	
		ASME		FIRST PERIOD		SECOND PERIOD		THIRD PERIOD			
		SEC. XI		-----							
SUMMARY	EXAMINATION AREA	CATGY	NDE	O U T A G E						INSTRUCTIONS	
NUMBER	IDENTIFICATION	ITEM NO	METH	1	2	1	2	3	1	2	**CALIBRATION BLOCK**

<u>FEEDWATER 6-FW-2-097-1303-2</u>											
140100	TCX-2-2303-16 PIPE TO ELBOW R100D863SB	C-F-2 C5.51	UT	1	-	-	C	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**
140200	TCX-2-2303-17 ELBOW TO PIPE R100D864SB	C-F-2 C5.51	UT	1	-	-	C	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**
140300	TCX-2-2303-18 PIPE TO PIPE R100D866SB	C-F-2 C5.51	UT	1	-	-	C	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**
140400	TCX-2-2303-19 PIPE TO ELBOW R100D869SB	C-F-2 C5.51	UT	1	-	-	C	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**
140500	TCX-2-2303-20 ELBOW TO PIPE R100D870SB	C-F-2 C5.51	UT	1	-	-	C	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**
140600	TCX-2-2303-21 PIPE TO ELBOW R100D870SB	C-F-2 C5.51	UT	1	-	-	C	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**
140700	TCX-2-2303-22 ELBOW TO PIPE R100D869SB	C-F-2 C5.51	UT	1	-	-	C	-	-	-	TDLR VERIFICATION BOUNDARY. **TBX-35**

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INSPECTION INTERVAL				PLAN STATUS			PRESERVICE YEAR
				FIRST	SECOND	THIRD	
				PERIOD	PERIOD	PERIOD	
				-----	-----	-----	
SUMMARY	EXAMINATION AREA	ASME					
		SEC. XI					
		CATGY NDE		- - - - -	O U T A G E	- - - - -	INSTRUCTIONS
NUMBER	IDENTIFICATION	ITEM NO METH		1 2	1 2 3	1 2	**CALIBRATION BLOCK**
-----				-----			-----

FEEDWATER 6-FW-2-097-1303-2

140800	TCX-2-2303-23 PIPE TO ELBOW R100D865SB	C-F-2 C5.51	UT	1 - -	C - - - -	- -	TDLR VERIFICATION BOUNDARY.
							TBX-35
140900	TCX-2-2303-24 ELBOW TO PIPE R100D864SB	C-F-2 C5.51	UT	1 - -	C - - - -	- -	TDLR VERIFICATION BOUNDARY.
							TBX-35
141100	TCX-2-2303-26 ELBOW TO PIPE R100D864SB	C-F-2 C5.51	UT	1 - -	C - - - -	- -	TDLR VERIFICATION BOUNDARY.
							TBX-35
141200	TCX-2-2303-27 PIPE TO PIPE R100D864SB	C-F-2 C5.51	UT	1 - -	C - - - -	- -	TDLR VERIFICATION BOUNDARY.
							TBX-35
144920	TCX-2-2303-65 PIPE TO PIPE R100D864SB	C-F-2 C5.51	UT	1 - -	C - - - -	- -	TDLR VERIFICATION BOUNDARY.
							TBX-35
144940	TCX-2-2303-66 PIPE TO PIPE R100D864SB	C-F-2 C5.51	UT	1 - -	C - - - -	- -	TDLR VERIFICATION BOUNDARY.
							TBX-35

MAIN STEAM 32-MS-2-004-1303-2

146600	TCX-2-2400-17 PIPE TO PIPE 877SB	C-F-2 C5.51	UT	1 - -	- - - -	- X	TDLR VERIFICATION BOUNDARY.
							TBX-33

INSPECTION INTERVAL				PLAN STATUS						PRESERVICE YEAR	
				FIRST		SECOND		THIRD			
ASME				PERIOD		PERIOD		PERIOD			
SEC. XI				-----							
SUMMARY	EXAMINATION AREA	CATGY	NDE	O U T A G E						INSTRUCTIONS	
NUMBER	IDENTIFICATION	ITEM NO	METH	1	2	1	2	3	1	2	**CALIBRATION BLOCK**

MAIN STEAM 32-MS-2-004-1303-2											
146650	TCX-2-2400-17L	C-F-2	UT	1	-	-	-	-	-	X	100% FROM WELD 17 TO 19. TDLR
	LONG. SEAM	C5.52									VERIFICATION BOUNDARY.
	877SB										**TBX-33**
146800	TCX-2-2400-19	C-F-2	UT	1	-	-	-	-	-	X	TDLR VERIFICATION BOUNDARY.
	PIPE TO PIPE	C5.51									**TBX-33**
	877SB										
146850	TCX-2-2400-19L	C-F-2	UT	1	-	-	-	-	-	X	100% FROM WELD 19 TO 25. TDLR
	LONG. SEAM	C5.52									VERIFICATION BOUNDARY.
	877SB										**TBX-33**
147400	TCX-2-2400-25	C-F-2	UT	1	-	-	-	-	-	X	TDLR VERIFICATION BOUNDARY.
	PIPE TO PIPE	C5.51									**TBX-33**
	877SB										
147450	TCX-2-2400-25L	C-F-2	UT	1	-	-	-	-	-	X	100% FROM WELD 25 TO 56. TDLR
	LONG. SEAM	C5.52									VERIFICATION BOUNDARY.
	877SB										**TBX-33**
147500	TCX-2-2400-26	C-F-2	UT	1	-	-	-	-	-	X	92 TDLR VERIFICATION BOUNDARY.
	PIPE TO VALVE	C5.51									**TBX-33**
	877SB										
147550	TCX-2-2400-26L	C-F-2	UT	1	-	-	-	-	-	X	92 100% FROM WELD 56 TO 26. TDLR
	LONG. SEAM	C5.52									VERIFICATION BOUNDARY.
	877SB										**TBX-33**

INSPECTION INTERVAL				PLAN STATUS			PRESERVICE YEAR
				FIRST	SECOND	THIRD	
				PERIOD	PERIOD	PERIOD	

ASME							
SEC. XI							
CATGY NDE				- - - - - O U T A G E - - - - -			INSTRUCTIONS
NUMBER	IDENTIFICATION	ITEM NO	METH	1 2	1 2 3	1 2	**CALIBRATION BLOCK**
-----				-----			-----

MAIN STEAM 32-MS-2-004-1303-2

147600 TCX-2-2400-27 C-F-2 UT 1 - - - - - X
VALVE TO MOMENT RESTRAINT C5.51
877SB

TBX-33

MAIN STEAM MS-26 (DRIP POT)

147800 TCX-2-2400-29 C-F-2 UT 1 - - - - - X
PIPE TO CAP C5.51
874SB

TDLR VERIFICATION BOUNDARY.

TBX-22

MAIN STEAM 8-MS-2-274-1303-2

147900 TCX-2-2400-30 C-F-2 UT 1 - - - - - X
BRANCH CONNECTION TO PIPE C5.51
878SB

TDLR VERIFICATION BOUNDARY.

TBX-17

148000 TCX-2-2400-31 C-F-2 UT 1 - - - - - X
PIPE TO VALVE C5.51
878SB

TDLR VERIFICATION BOUNDARY.

TBX-17

148100 TCX-2-2400-32 C-F-2 UT 1 - - - - - X
VALVE TO PIPE C5.51
879SB

TDLR VERIFICATION BOUNDARY.

TBX-17

148200 TCX-2-2400-33 C-F-2 UT 1 - - - - - X
PIPE TO ELBOW C5.51
884SB

TDLR VERIFICATION BOUNDARY.

TBX-17

INSERVICE INSPECTION PLAN
CLASS 2 SCHED/COMPL COMPONENTS

		INSPECTION INTERVAL		PLAN STATUS			PRESERVICE YEAR
				FIRST PERIOD	SECOND PERIOD	THIRD PERIOD	
SUMMARY EXAMINATION AREA		ASME		-----	-----	-----	INSTRUCTIONS
NUMBER IDENTIFICATION		SEC. XI		-----	-----	-----	
		CATGY NDE		- - - - -	O U T A G E - - - - -	- - - - -	
		ITEM NO METH		1 2	1 2 3	1 2	**CALIBRATION BLOCK**
		-----	-----	-----	-----	-----	-----
<u>MAIN STEAM 8-MS-2-274-1303-2</u>							
148300	TCX-2-2400-34	C-F-2	UT	1 - -	- - -	- X	TDLR VERIFICATION BOUNDARY.
	ELBOW TO PIPE	C5.51					
	885SB						**TBX-17**
148400	TCX-2-2400-35	C-F-2	UT	1 - -	- - -	- X	TDLR VERIFICATION BOUNDARY.
	PIPE TO VALVE	C5.51					
	885SB						**TBX-17**
<u>MAIN STEAM 6-2003-2</u>							
148500	TCX-2-2400-36	C-F-2	UT	1 - -	- - -	- X	TDLR VERIFICATION BOUNDARY.
	BRANCH CONNECTION TO FLANGE	C5.51					
	879SB						**TBX-36**
148600	TCX-2-2400-37	C-F-2	UT	1 - -	- - -	- X	TDLR VERIFICATION BOUNDARY.
	BRANCH CONNECTION TO FLANGE	C5.51					
	879SB						**TBX-36**
148700	TCX-2-2400-38	C-F-2	UT	1 - -	- - -	- X	TDLR VERIFICATION BOUNDARY.
	BRANCH CONNECTION TO FLANGE	C5.51					
	879SB						**TBX-36**
148800	TCX-2-2400-39	C-F-2	UT	1 - -	- - -	- X	TDLR VERIFICATION BOUNDARY.
	BRANCH CONNECTION TO FLANGE	C5.51					
	879SB						**TBX-36**
148900	TCX-2-2400-40	C-F-2	UT	1 - -	- - -	- X	TDLR VERIFICATION BOUNDARY.
	BRANCH CONNECTION TO FLANGE	C5.51					
	879SB						**TBX-36**

				INSPECTION INTERVAL		PLAN STATUS						PRESERVICE YEAR	
				ASME		FIRST PERIOD		SECOND PERIOD		THIRD PERIOD			
				SEC. XI		-----		-----		-----			
SUMMARY	EXAMINATION AREA	CATGY	NDE	-----		O U T A G E		-----		-----		INSTRUCTIONS	
NUMBER	IDENTIFICATION	ITEM NO	METH	1	2	1	2	3	1	2	**CALIBRATION BLOCK**		

<u>MAIN STEAM 32-MS-2-004-1303-2</u>													
148950	TCX-2-2400-56	C-F-2	UT	1	-	-	-	-	-	X	TDLR VERIFICATION BOUNDARY.		
	PIPE TO PIPE	C5.51											
	877SB										**TBX-33**		
<u>MAIN STEAM MS-26 (DRIP POT)</u>													
149000	TCX-2-2400-60	C-F-2	UT	1	-	-	-	-	-	X	92	TDLR VERIFICATION BOUNDARY.	
	PIPE TO PIPE	C5.51											
	876SB											**TBX-22**	
<u>FEEDWATER 18-FW-2-020-1303-2</u>													
150100	TCX-2-2401-11	C-F-2	UT	1	-	-	-	-	X	-		TDLR VERIFICATION BOUNDARY.	
	PIPE TO PIPE	C5.51											
	856SB											**TBX-21**	
150200	TCX-2-2401-12	C-F-2	UT	1	-	-	-	-	X	-		TDLR VERIFICATION BOUNDARY.	
	PIPE TO PIPE	C5.51											
	856SB											**TBX-21**	
<u>FEEDWATER 18-FW-2-037-2003-2</u>													
150300	TCX-2-2401-13	C-F-2	UT	1	-	-	-	-	X	-		TDLR VERIFICATION BOUNDARY.	
	PIPE TO VALVE	C5.51											
	856SB											**TBX-38**	
150400	TCX-2-2401-14	C-F-2	UT	1	-	-	-	-	X	-			
	VALVE TO PIPE	C5.51											
	856SB											**TBX-38**	

INSERVICE INSPECTION PLAN
CLASS 2 SCHED/COMPL COMPONENTS

		INSPECTION INTERVAL		PLAN STATUS			PRESERVICE YEAR
		ASME		FIRST	SECOND	THIRD	
		SEC. XI		PERIOD	PERIOD	PERIOD	
SUMMARY	EXAMINATION AREA	CATGY	NDE	O U T A G E			INSTRUCTIONS
NUMBER	IDENTIFICATION	ITEM NO	METH	1	2	3	**CALIBRATION BLOCK**

<u>FEEDWATER 18-FW-2-037-2003-2</u>							
150500	TCX-2-2401-15	C-F-2	UT	1	-	-	X -
	PIPE TO VALVE	C5.51					
	856SB						
							TBX-38
150600	TCX-2-2401-16	C-F-2	UT	1	-	-	X -
	VALVE TO PIPE	C5.51					
	856SB						
							TBX-38
150700	TCX-2-2401-17	C-F-2	UT	1	-	-	X -
	PIPE TO MOMENT RESTRAINT	C5.51					
	856SB						
							TBX-38
<u>FEEDWATER 6-FW-2-094-2003-2</u>							
154700	TCX-2-2403-2	C-F-2	UT	1	-	-	X -
	BRANCH CONNECTION TO PIPE	C5.51					
	857SB						
							TBX-34
154800	TCX-2-2403-3	C-F-2	UT	1	-	-	X -
	PIPE TO VALVE	C5.51					92
	859SB						
							TBX-34
154900	TCX-2-2403-4	C-F-2	UT	1	-	-	X -
	VALVE TO PIPE	C5.51					
	861SB						
							TBX-34
155000	TCX-2-2403-5	C-F-2	UT	1	-	-	X -
	PIPE TO ELBOW	C5.51					
	862SB						
							TBX-34

HIGH ENERGY LINE BREAK UNIT 2
INSERVICE INSPECTION PLAN
CLASS 2 SCHED/COMPL COMPONENTS

		INSPECTION INTERVAL		PLAN STATUS			PRESERVICE YEAR
		ASME		FIRST PERIOD	SECOND PERIOD	THIRD PERIOD	
		SEC. XI		-----			
SUMMARY	EXAMINATION AREA	CATGY	NDE	O U T A G E			INSTRUCTIONS
NUMBER	IDENTIFICATION	ITEM NO	METH	1 2	1 2 3	1 2	**CALIBRATION BLOCK**

<u>FEEDWATER 6-FW-2-094-2003-2</u>							
155100	TCX-2-2403-6 ELBOW TO PIPE 863SB	C-F-2 C5.51	UT	1 - -	- - -	X -	92 **TBX-34**
155200	TCX-2-2403-7 PIPE TO ELBOW 863SB	C-F-2 C5.51	UT	1 - -	- - -	X -	92 **TBX-34**
155300	TCX-2-2403-8 ELBOW TO PIPE 863SB	C-F-2 C5.51	UT	1 - -	- - -	X -	 **TBX-34**
155400	TCX-2-2403-9 PIPE TO VALVE 863SB	C-F-2 C5.51	UT	1 - -	- - -	X -	 **TBX-34**
155500	TCX-2-2403-10 VALVE TO PIPE 863SB	C-F-2 C5.51	UT	1 - -	- - -	X -	TDLR VERIFICATION BOUNDARY. **TBX-34**
<u>FEEDWATER 6-FW-2-098-1303-2</u>							
155600	TCX-2-2403-11 PIPE TO PIPE 862SB	C-F-2 C5.51	UT	1 - -	- - -	X -	TDLR VERIFICATION BOUNDARY. **TBX-35**
155700	TCX-2-2403-12 PIPE TO VALVE 862SB	C-F-2 C5.51	UT	1 - -	- - -	X -	TDLR VERIFICATION BOUNDARY. **TBX-35**

INSPECTION INTERVAL				PLAN STATUS						PRESERVICE YEAR	
				FIRST		SECOND		THIRD			
				PERIOD		PERIOD		PERIOD			
SEC. XI				-----							
SUMMARY	EXAMINATION AREA	CATGY	NDE	O U T A G E						INSTRUCTIONS	
NUMBER	IDENTIFICATION	ITEM NO	METH	1	2	1	2	3	1	2	**CALIBRATION BLOCK**

FEEDWATER 6-FW-2-098-1303-2											
155800	TCX-2-2403-13 VALVE TO PIPE 862SB	C-F-2 C5.51	UT	1	-	-	-	-	X	-	TDLR VERIFICATION BOUNDARY. **TBX-35**
155900	TCX-2-2403-14 PIPE TO TEE 862SB	C-F-2 C5.51	UT	1	-	-	-	-	X	-	TDLR VERIFICATION BOUNDARY. **TBX-35**
156000	TCX-2-2403-15 TEE TO PIPE 862SB	C-F-2 C5.51	UT	1	-	-	-	-	X	-	TDLR VERIFICATION BOUNDARY. **TBX-35**
156100	TCX-2-2403-16 PIPE TO ELBOW 862SB	C-F-2 C5.51	UT	1	-	-	-	-	X	-	TDLR VERIFICATION BOUNDARY. **TBX-35**
156200	TCX-2-2403-17 ELBOW TO PIPE 863SB	C-F-2 C5.51	UT	1	-	-	-	-	X	-	TDLR VERIFICATION BOUNDARY. **TBX-35**
156300	TCX-2-2403-18 PIPE TO ELBOW 869SB	C-F-2 C5.51	UT	1	-	-	-	-	X	-	TDLR VERIFICATION BOUNDARY. **TBX-35**
156400	TCX-2-2403-19 ELBOW TO PIPE 870SB	C-F-2 C5.51	UT	1	-	-	-	-	X	-	TDLR VERIFICATION BOUNDARY. **TBX-35**

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INSPECTION INTERVAL				PLAN STATUS						PRESERVICE YEAR	
				FIRST		SECOND		THIRD			
				PERIOD		PERIOD		PERIOD			
SEC. XI				-----		-----		-----			
CATGY NDE				- - - - -		O U T A G E		- - - - -		INSTRUCTIONS	
ITEM NO METH				1 2		1 2 3		1 2		**CALIBRATION BLOCK**	

FEEDWATER 6-FW-2-098-1303-2											
156500	TCX-2-2403-20	C-F-2	UT	1	-	-	-	-	X	-	TDLR VERIFICATION BOUNDARY.
	PIPE TO ELBOW	C5.51									
	870SB										**TBX-35**
156600	TCX-2-2403-21	C-F-2	UT	1	-	-	-	-	X	-	TDLR VERIFICATION BOUNDARY.
	ELBOW TO PIPE	C5.51									
	869SB										**TBX-35**
156700	TCX-2-2403-22	C-F-2	UT	1	-	-	-	-	X	-	TDLR VERIFICATION BOUNDARY.
	PIPE TO ELBOW	C5.51									
	865SB										**TBX-35**
156800	TCX-2-2403-23	C-F-2	UT	1	-	-	-	-	X	-	TDLR VERIFICATION BOUNDARY.
	ELBOW TO PIPE	C5.51									
	864SB										**TBX-35**
156900	TCX-2-2403-24	C-F-2	UT	1	-	-	-	-	X	-	92 TDLR VERIFICATION BOUNDARY.
	PIPE TO ELBOW	C5.51									
	864SB										**TBX-35**
157000	TCX-2-2403-25	C-F-2	UT	1	-	-	-	-	X	-	TDLR VERIFICATION BOUNDARY.
	ELBOW TO PIPE	C5.51									
	864SB										**TBX-35**
157100	TCX-2-2403-26	C-F-2	UT	1	-	-	-	-	X	-	TDLR VERIFICATION BOUNDARY.
	PIPE TO PIPE	C5.51									
	864SB										**TBX-35**

		INSPECTION INTERVAL		PLAN STATUS			PRESERVICE YEAR
		ASME	SEC. XI	FIRST PERIOD	SECOND PERIOD	THIRD PERIOD	
SUMMARY	EXAMINATION AREA	CATGY	NDE	O U T A G E			INSTRUCTIONS
NUMBER	IDENTIFICATION	ITEM NO	METH	1 2	1 2 3	1 2	**CALIBRATION BLOCK**

FEEDWATER 6-FW-2-098-1303-2

157920	TCX-2-2403-35	C-F-2	UT	1 - -	- - -	X -	TDLR VERIFICATION BOUNDARY.
	PIPE TO PIPE	C5.51					
	864SB						**TBX-35**
157940	TCX-2-2403-36	C-F-2	UT	1 - -	- - -	X -	TDLR VERIFICATION BOUNDARY.
	PIPE TO PIPE	C5.51					
	864SB						**TBX-35**

SUPPLEMENTARY CONTAINMENT SPRAY AND RESIDUAL HEAT REMOVAL PIPING WELDS

The containment spray (CT) system piping on the discharge side of the four CT pumps contains 80 welds (15-25 each loop) that are 10-inch NPS Schedule 40 with a wall thickness of 0.365 inch. Furthermore, the residual heat removal (RHR) system piping on the discharge side of RHR pumps 1 and 2 contains a total of 166 welds on 8-inch and 10-inch NPS Schedule 40 piping with wall thicknesses of 0.322 inch and 0.365 inch, respectively.

Resulting from SSER-26, the augmented inservice inspection shall include a volumetric examination (i.e., ultrasonic examination) on 7.5 percent of the aforementioned welds. These examinations shall be distributed such that each weld or portion thereof is examined once during each 10-year interval.

Examination procedures and personnel shall be in accordance with the rules of ASME Section XI.

No special reports are required for this activity. Records of the examinations shall be maintained according to procedures.

Results of these examinations shall be evaluated against the acceptance criteria provided in ASME Section XI, IWC-3000.

Summary Discussion

- a. Governing Document - SSER-26
- b. Exam Items and Boundaries - 7.5 percent of the welds discussed above.
- c. NDE Method and Schedule - Ultrasonic examination once per 10-year interval. The specific schedule by refueling outage is attached..
- d. Acceptance Criteria - ASME Section XI, IWC-3000.
- e. Special Reports - None

INSERVICE INSPECTION PLAN
CLASS 2 SCHED/COMPL COMPONENTS

INSPECTION INTERVAL				PLAN STATUS						PRESERVICE YEAR	
				FIRST		SECOND		THIRD			
ASME				PERIOD		PERIOD		PERIOD			
SEC. XI				-----		-----		-----			
SUMMARY EXAMINATION AREA				CATGY		NDE		O U T A G E		INSTRUCTIONS	
NUMBER		IDENTIFICATION		ITEM NO		METH		1 2 3		1 2	
-----				1 2		1 2 3		1 2		**CALIBRATION BLOCK**	

RESIDUAL HEAT REMOVAL 10-RH-2-061-601R-2

170700	TCX-2-2520-35 REDUCER TO PIPE 787SB	C-F-1	UT	1	C	-	-	-	-	-	**TBX-10**
170750	TCX-2-2520-35L LONG. SEAM 787SB	C-F-1	UT	1	C	-	-	-	-	-	**TBX-10**
170800	TCX-2-2520-36 PIPE TO VALVE 787SB	C-F-1	UT	1	C	-	-	-	-	-	**TBX-10**
170850	TCX-2-2520-36L LONG. SEAM 787SB	C-F-1	UT	1	C	-	-	-	-	-	**TBX-10**
170900	TCX-2-2520-37 VALVE TO PIPE 787SB	C-F-1	UT	1	C	-	-	-	-	-	**TBX-10**
170950	TCX-2-2520-37L LONG. SEAM 787SB	C-F-1	UT	1	C	-	-	-	-	-	**TBX-10**

RESIDUAL HEAT REMOVAL 8-RH-2-064-601R-2

178000	TCX-2-2521-48 PIPE TO FLANGE 781SB	C-F-1	UT	1	-	-	-	-	-	X	**TBX-7**
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DATE: 03/24/02

RESIDUAL HEAT REMOVAL/CONTAINMENT SPRAY UNIT 2

PAGE : 2

INSERVICE INSPECTION PLAN
CLASS 2 SCHED/COMPL COMPONENTS

		INSPECTION INTERVAL		PLAN STATUS			PRESERVICE YEAR
		ASME		FIRST PERIOD	SECOND PERIOD	THIRD PERIOD	
		SEC. XI		-----			
SUMMARY	EXAMINATION AREA	CATGY	NDE	O U T A G E			INSTRUCTIONS
NUMBER	IDENTIFICATION	ITEM NO	METH	1	2	3	**CALIBRATION BLOCK**

<u>RESIDUAL HEAT REMOVAL 8-RH-2-064-601R-2</u>							
178050	TCX-2-2521-48L	C-F-1	UT	1	-	-	- X
	LONG. SEAM	C5.12					
	781SB						
***TBX-7**							
178100	TCX-2-2521-49	C-F-1	UT	1	-	-	- X
	FLANGE TO PIPE	C5.11					
	781SB						
***TBX-7**							
178150	TCX-2-2521-49L	C-F-1	UT	1	-	-	- X
	LONG. SEAM	C5.12					
	781SB						
***TBX-7**							
178200	TCX-2-2521-50	C-F-1	UT	1	-	-	- X
	PIPE TO ELBOW	C5.11					
	781SB						
***TBX-7**							
178250	TCX-2-2521-50L	C-F-1	UT	1	-	-	- X
	LONG. SEAM	C5.12					
	781SB						
***TBX-7**							
178300	TCX-2-2521-51	C-F-1	UT	1	-	-	- X
	ELBOW TO PIPE	C5.11					
	781SB						
***TBX-7**							
178350	TCX-2-2521-51L	C-F-1	UT	1	-	-	- X
	LONG. SEAM	C5.12					
	781SB						
***TBX-7**							

INSERVICE INSPECTION PLAN
CLASS 2 SCHED/COMPL COMPONENTS

INSPECTION INTERVAL				PLAN STATUS						PRESERVICE YEAR	
				FIRST		SECOND		THIRD			
ASME				PERIOD		PERIOD		PERIOD			
SEC. XI				-----		-----		-----			
SUMMARY EXAMINATION AREA		CATGY	NDE	O U T A G E						INSTRUCTIONS	
NUMBER	IDENTIFICATION	ITEM NO	METH	1	2	1	2	3	1	2	**CALIBRATION BLOCK**

RESIDUAL HEAT REMOVAL 10-RH-2-026-601R-2

185100	TCX-2-2531-4 PIPE TO ELBOW 789SB	C-F-1 C5.11	UT	1	C	-	-	-	-	-	**TBX-10**
185150	TCX-2-2531-4L LONG. SEAM 789SB	C-F-1 C5.12	UT	1	C	-	-	-	-	-	**TBX-10**
185200	TCX-2-2531-5 ELBOW TO PIPE 789SB	C-F-1 C5.11	UT	1	C	-	-	-	-	-	**TBX-10**
185300	TCX-2-2531-6 PIPE TO FLANGE 800SB	C-F-1 C5.11	UT	1	C	-	-	-	-	-	**TBX-10**

RESIDUAL HEAT REMOVAL 8-RH-2-027-601R-2

190100	TCX-2-2532-36 PIPE TO ELBOW 797SB	C-F-1 C5.11	UT	1	-	-	-	-	-	X	**TBX-7**
190150	TCX-2-2532-36L LONG. SEAM 797SB	C-F-1 C5.12	UT	1	-	-	-	-	-	X	**TBX-7**
190200	TCX-2-2532-37 ELBOW TO PIPE 797SB	C-F-1 C5.11	UT	1	-	-	-	-	-	X	**TBX-7**

INSERVICE INSPECTION PLAN
CLASS 2 SCHED/COMPL COMPONENTS

				INSPECTION INTERVAL		PLAN STATUS						PRESERVICE YEAR	
						FIRST		SECOND		THIRD			
				ASME		PERIOD		PERIOD		PERIOD			
				SEC. XI		-----		-----		-----			
SUMMARY EXAMINATION AREA				CATGY NDE		- - - - -		O U T A G E		- - - - -		INSTRUCTIONS	
NUMBER		IDENTIFICATION		ITEM NO METH		1 2		1 2 3		1 2		**CALIBRATION BLOCK**	
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RESIDUAL HEAT REMOVAL 8-RH-2-027-601R-2

190250 TCX-2-2532-37L C-F-1 UT 1 - - - - - X
LONG. SEAM C5.12
797SB

TBX-7

190300 TCX-2-2532-38 C-F-1 UT 1 - - - - - X
PIPE TO ELBOW C5.11
797SB

TBX-7

190350 TCX-2-2532-38L C-F-1 UT 1 - - - - - X
LONG. SEAM C5.12
797SB

TBX-7

190400 TCX-2-2532-39 C-F-1 UT 1 - - - - - X
ELBOW TO PIPE C5.11
798SB

TBX-7

190450 TCX-2-2532-39L C-F-1 UT 1 - - - - - X
LONG. SEAM C5.12
798SB

TBX-7

CONTAINMENT SPRAY 10-CT-2-011-301R-2

203800 TCX-2-2539-2 C-F-1 UT 1 - - - - - C
ELBOW TO PIPE C5.11
776SB

TBX-10

203850 TCX-2-2539-2L C-F-1 UT 1 - - - - - C
LONG. SEAM C5.12
776SB

TBX-10

INSERVICE INSPECTION PLAN
CLASS 2 SCHED/COMPL COMPONENTS

		INSPECTION INTERVAL		PLAN STATUS			PRESERVICE YEAR
				FIRST PERIOD	SECOND PERIOD	THIRD PERIOD	
SUMMARY EXAMINATION AREA		ASME					
		SEC. XI					
		CATGY NDE					INSTRUCTIONS
NUMBER	IDENTIFICATION	ITEM NO METH		1 2	1 2 3	1 2	***CALIBRATION BLOCK**

CONTAINMENT SPRAY 10-CT-2-011-301R-2

203900	TCX-2-2539-3 PIPE TO ELBOW 776SB	C-F-1 C5.11	UT	1 - -	- - C	- -	***TBX-10**
203950	TCX-2-2539-3L LONG. SEAM 776SB	C-F-1 C5.12	UT	1 - -	- - C	- -	***TBX-10**
204000	TCX-2-2539-4 ELBOW TO PIPE 776SB	C-F-1 C5.11	UT	1 - -	- - C	- -	***TBX-10**
204050	TCX-2-2539-4L LONG. SEAM 776SB	C-F-1 C5.12	UT	1 - -	- - C	- -	***TBX-10**
204900	TCX-2-2539-13 VALVE TO PIPE 787SB	C-F-1 C5.11	UT	1 - -	- - C	- -	***TBX-10**
204950	TCX-2-2539-13L LONG. SEAM 787SB	C-F-1 C5.12	UT	1 - -	- - C	- -	***TBX-10**
205000	TCX-2-2539-14 PIPE TO ELBOW 787SB	C-F-1 C5.11	UT	1 - -	- - C	- -	***TBX-10**

PAGE: 6

INSPECTION INTERVAL	PLAN STATUS	PRESERVICE YEAR
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		ASME	PERIOD		PERIOD	PERIOD	
		SEC. XI	-----		-----	-----	
SUMMARY	EXAMINATION AREA	CATGY	NDE	O U T A G E			INSTRUCTIONS
NUMBER	IDENTIFICATION	ITEM NO	METH	1	2	3	1 2
-----				1	2	3	1 2
							CALIBRATION BLOCK

CONTAINMENT SPRAY 10-CT-2-011-301R-2

205050 TCX-2-2539-14L C-F-1 UT 1 - - - - C - -
LONG. SEAM C5.12
787SB

TBX-10

205100	TCX-2-2539-15	C-F-1	UT	1 - -	- - C	- -
	ELBOW TO PIPE	C5.11				
	787SB					

****TBX-10****

205150	TCX-2-2539-15L	C-F-1	UT	1 - -	- - C	- -
	LONG. SEAM	C5.12				
	787SB					

TBX-10

REACTOR VESSEL HEAD AND INTERNALS LIFTING DEVICES

ANSI N14.6-1978 provides detailed requirements for the design, fabrication, testing, maintenance, and quality assurance of special lifting devices at nuclear power stations. To address the control of heavy loads and to ensure against and mitigate the consequences of postulated accidental load drops, the Nuclear Regulatory Commission (NRC) issued NUREG 0612.

Westinghouse Electric Corporation conducted an evaluation and documented the results under WCAP-10156, Rev. 1 to determine the acceptability of the reactor vessel head and internals lifting devices to meet the requirements of NUREG 0612. As a result of this effort, recommendations were made to perform periodic non-destructive examinations on prescribed critical welds and/or parts once every ten years as part of an inservice inspection outage.

Therefore volumetric, surface and or visual examinations shall be performed as described in the attached pages at approximately 10-year intervals coinciding with Inservice Inspection schedules as required by ASME Section XI. The acceptance criteria shall be in accordance with ASME Section XI, IWC-3000. Examinations shall be performed by written procedures and by personnel qualified in accordance with the rules in ASME Section XI.

No special reports are required for this activity. Records of the examinations shall be maintained with the applicable work control document.

Summary Discussion

- a. Governing Document - ANSI N14.6-1978, NUREG 0612, TXX-4226 and TXX-99172.
- b. Exam Items and Boundaries - Reactor vessel head and internal lifting rigs' critical welds and/or parts as described in the attached pages.
- c. NDE Method and Schedule -Volumetric, surface and or visual examinations at approximately 10-year intervals coinciding with Inservice Inspection schedules as required by ASME Section XI.
- d. Acceptance Criteria - ASME Section XI, IWC-3000.
- e. Special Reports - None

REACTOR VESSEL HEAD LIFT RIG, CRITICAL ITEMS LIST

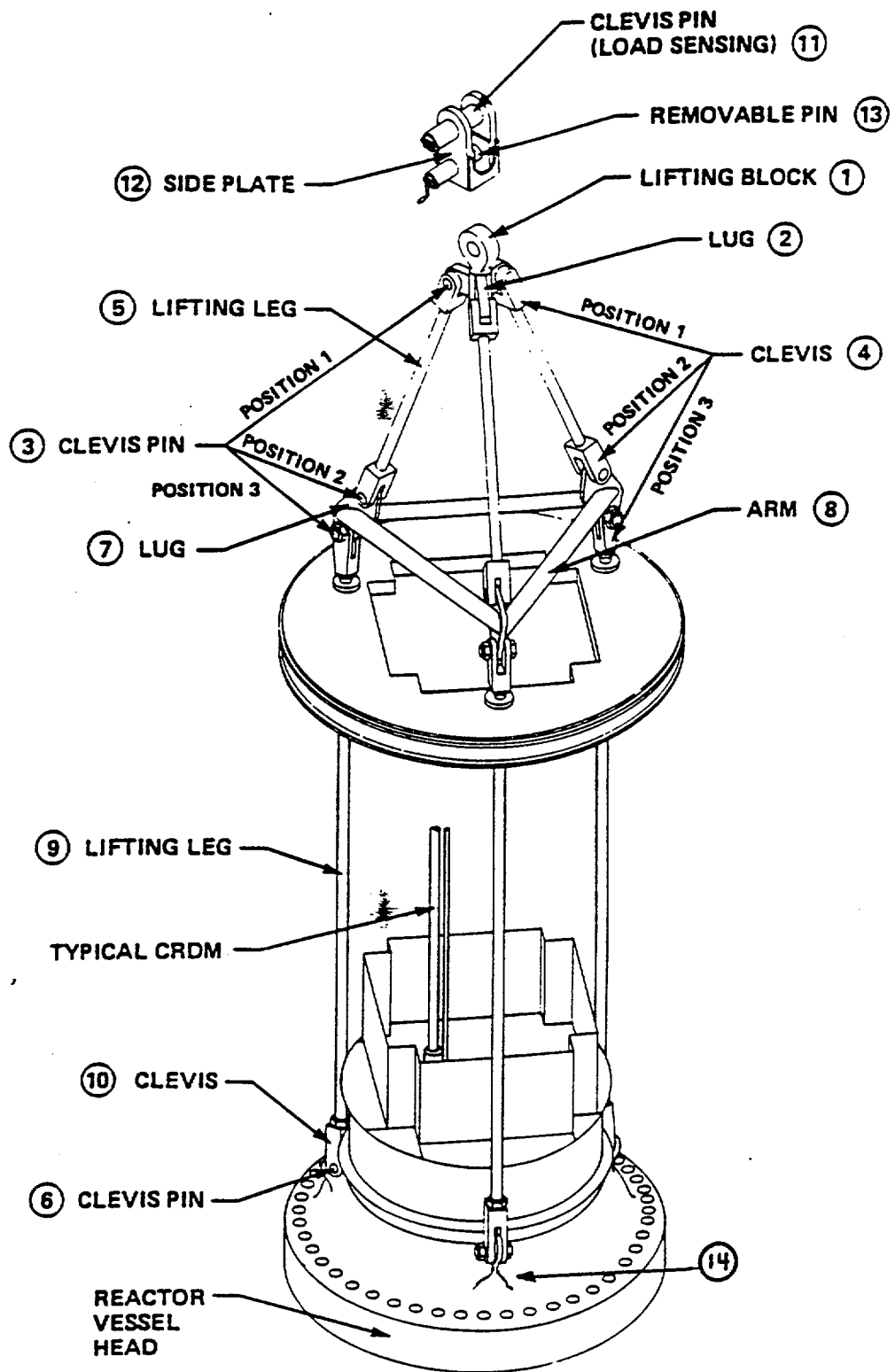
<u>Item ^(a)</u>	<u>Description</u>	<u>Material</u>	<u>Non-Destructive Examination Method</u>
1	Lifting Block	ASTM A350 GR, LF	Visual
2	Lug	ASTM A516 Grade 70	Visual
3,6	Clevis Pin	ASTM A434 AISI 4340 Steel Class BD	Volumetric
4,10	Clevis	ASTM A668 Forging and Class L AISI 4340	Visual
5,9	Lifting Leg	ASTM A434 Class BC AISI 4340	Visual
11	Clevis Pin (load sensing)	ASTM A564 Type XM12	Volumetric
12	Side Plates	ASTM 533 Type B Class 1	Visual
13	Removable Pin	ASTM A564 Type 63O	Volumetric
14	RV Head Lifting Lug	SA-533 Gr B Class 1	Visual

^(a) See Page 4

REACTOR VESSEL HEAD LIFT RIG, CRITICAL ITEMS LIST OF WELDS

<u>Item</u> ^(a)	<u>Description</u>	<u>Non-Destructive Examination</u> <u>Method</u>
1,2	Lugs to Lifting Block (Full Penetration)	Surface
7,8	Spreader Arm Lug to Spreader Arm (fillet)	Surface
14	RV Head Lifting Lug (integral attachment area)	Surface

^(a) See Page 4



Reactor Vessel Head Lift Rig

**REACTOR VESSEL INTERNALS LIFT RIG
CRITICAL ITEMS LIST**

<u>Item ^(a)</u>	<u>Description</u>	<u>Material</u>	<u>Non-Destructive Examination Method</u>
1	Lifting Block	ASTM A350 GR. LF 2	Visual
2	Lifting Block Lug	ASTM A516 Grade 70	Visual
3,7	Clevis Pin	ASTM A564 Grade 70 Precipitation Hardening SST Age treated @ 1150° F / 4 Hrs. Air cooled RC 28-31	Volumetric
4,6	Clevis	ASTM A471 Class 3 Steel Forging	Visual
5	Sling Rod	ASTM A434 Class BC AISI 4340 or (ASTM A588)	Visual
8,11	Spread Lug Leg Lug	ASTM A516 Gr. 70 STL Plate Normalized	Visual
13	Mounting Block	ASTM 350 LFI Forging Steel	Visual
12	Leg Channels	ASTM A36 CS, HR	Visual

^(a) See Page 8

**REACTOR VESSEL INTERNALS LIFT RIG
CRITICAL ITEMS LIST**

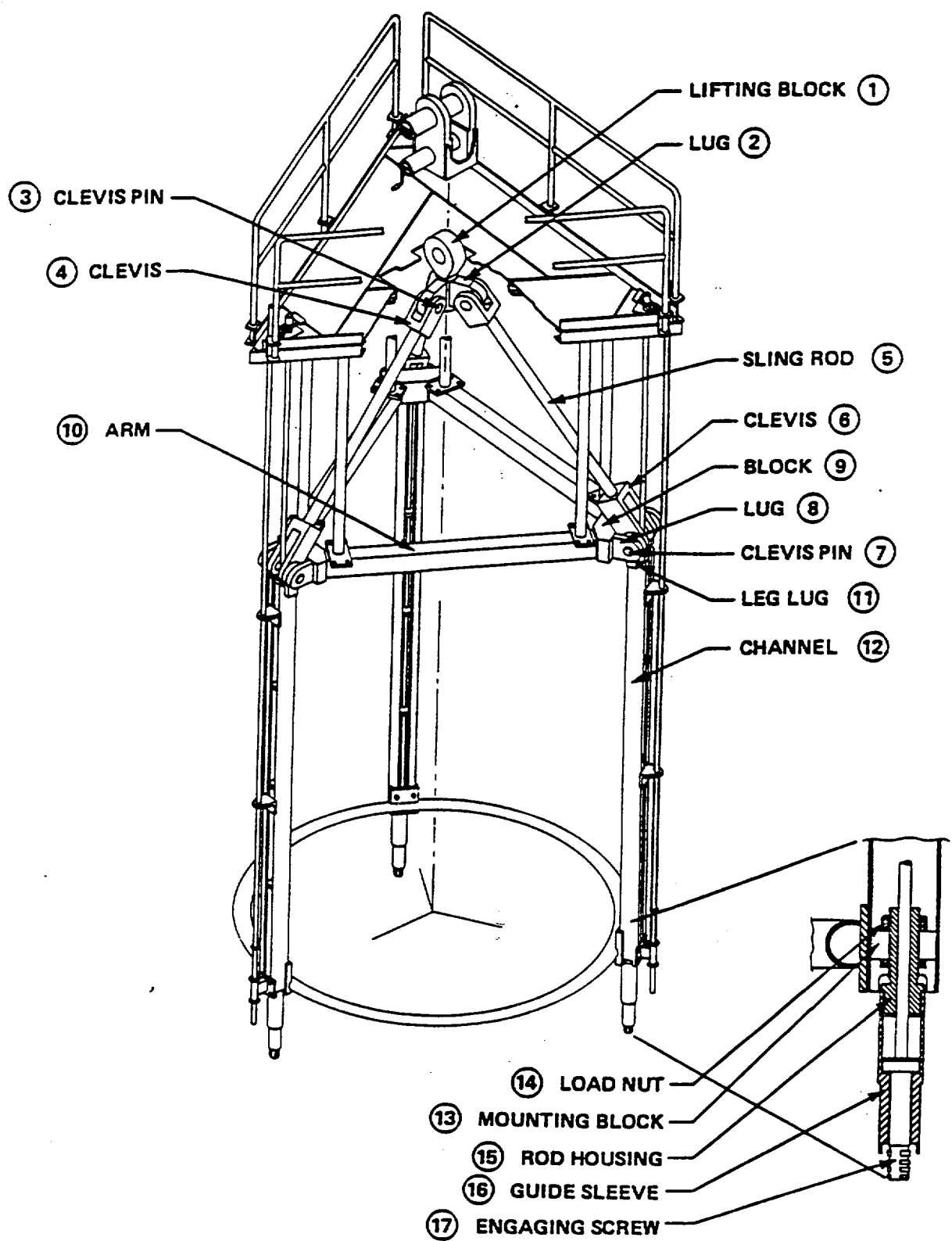
<u>Item</u> ^(a)	<u>Description</u>	<u>Material</u>	<u>Non-Destructive Examination Method</u>
14,15	Load Nuts Rod Housing	ASTM A276 Type 304 SST, Hot Rolled, Condition A	Visual
16	Guide Sleeve	ASTM A276 Type 304 SST, Hot Rolled, Annealed & Pickled, Condition A	Visual
17	Engaging Screw	ASTM A564 Type 630, 17-4 pH Steel @ 1100°F for 4 hours	Visual

^(a) See Page 8

**REACTOR VESSEL INTERNALS LIFT RIG
CRITICAL ITEMS LIST OF WELDS**

<u>Item</u> ^(a)	<u>Description</u>	Non-Destructive Examination <u>Method</u>
1,2	Lugs to Lifting Block (Full Penetration)	Surface
8,9	Lug to Spreader Block (Full Penetration)	Surface
11,12	Leg Lug to Channel Leg (fillet)	Surface
12,13	Mounting Block to Channel Leg (fillet)	Surface

^(a) See Page 8



Reactor Vessel Internals Lift Rig

Appendix A SUMMARY OF REVISIONS

<u>Rev. No.</u>	<u>Rev. Summary</u>
0	- Original issue
1	- Incorporation of ICR 1 to Rev. 0 (schedule lifting rig exams at the 10 year ISI outage)
	- Incorporation of ICR 2 to Rev. 0 (adopted wear method, acceptance criteria from WCAP 12866 and documented wear found during 2RF01)
	- Incorporation of ICR 3 to Rev. 0 (removed inaccessible exam items from the table)
	- Incorporation of ICR 4 to Rev. 0 (adopted wear method calculation from WCAP 12866 and documented wear found during 2RF02)
	- Incorporation of ICR 5 to Rev. 0 (removed inaccessible exam items from the table)
	- Incorporation of ICR 6 to Rev. 0 (removed inaccessible exam items from the table)
	- Incorporation of ICR 7 to Rev.0 (incorporated 2RF04 wear data)
	- Revised Section 6 - Reactor Vessel Head and Internals Lifting Devices
	- Revised the piping tables in Sections 3 and 4 (Main Steam and Feedwater Break Exclusion and Containment and Residual Heat Removal) to show completed exams during 2RF01, 2RF02, 2RF03, 2RF04, and 2RF05.
	- Removed an inaccessible exam (summary number 131200) from the table that was identified in 2RF04 and not included in ICR 7
	- Re-instated exams (summary numbers 103000, 131000, 132000, 147500, 149000, 154800, 155200, and 156900) to AISI that were originally selected for the ISI program , but were deleted because of implementing RI-ISI for selected piping welds
	- Editorial changes made to summary numbers 099200, 139100, 139700, and 147750.

Appendix B
INDEX OF INTERIM CHANGE REQUEST (ICRs)

<u>ICR No.</u>	<u>AFFECTED PAGES</u>	<u>CHANGE</u>
AISI-2R0-01	Section 6 Page 1	Schedule lifting rig exams at the 10 year ISI outage.
AISI-2R0-02	Section 3 Pages 1 and 2	Adopted wear method and acceptance criteria from WCAP 12866. Documented wear found during 2RF01.
AISI-2R0-03	Section 4	Removed inaccessible exam items from table.
AISI-2R0-04	Section 3	Adopted wear method calculation from WCAP 12866. Document wear found during 2RF02.
AISI-2R0-05	Section 4	Removed inaccessible exam items from table.
AISI-2R0-06	Section 4 Pages 10 and 18	Removed inaccessible exam items from table.
AISI-2R0-07	Section 3 Page 2	Incorporated 2RF04 data.