

AUGMENTED INSERVICE  
INSPECTION PLAN

TU ELECTRIC  
COMANCHE PEAK STEAM ELECTRIC STATION

Revision 0

Prepared: Earl L. ...  
Approved: Mrs. Nancy L. ... 10/12/90

9201290210 920124  
PDR ADOCK 05000445  
Q PDR

## AUGMENTED INSERVICE INSPECTION PLAN

The purpose of this document is to identify and describe various regulatory and 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 ASME Section XI is used in this document, the Edition and Addenda shall be as referenced in the CPSES Unit 1 Inservice Inspection Plan.

TABLE OF CONTENTS

<u>SECTION</u>		<u>PAGES</u>
1	REACTOR COOLANT PUMP FLYWHEELS	2
2	SAFETY INJECTION PUMP SHROUD	2
3	PENETRATION SEALS	1
4	FLUX THIMBLE TUBES	2
5	MAIN STEAM AND FEEDWATER BREAK EXCLUSION PIPING EXAMINATION TABLES	1 29

REACTOR COOLANT PUMP  
FLYWHEELS

Each reactor coolant pump flywheel shall be subject to the examinations described in Section C.4.b. of Regulatory Guide 1.14, Revision 1, August 1975 (Ref. FSAR R123.8 and Tech. Spec. 4.4.10). These examinations shall consist of an in-place ultrasonic examination of the areas of higher stress concentration at the bore and keyway at approximately 3-year periods. Additionally, the exposed surfaces of each flywheel shall be subject to a liquid penetrant examination along with a complete ultrasonic examination at approximately 10-year intervals. Examination procedures and personnel shall be in accordance with IWA-2200 of Section XI to the extent practical.

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. Reg. Guide 1.14 c.4.b.(5)). Records of the examinations shall be maintained with the applicable work order.

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 - An in-place ultrasonic examination of the bore and keyway at 3-year intervals and a liquid penetrant examination of exposed surfaces and a complete ultrasonic examination at 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.

AISI PLAN  
R.C. PUMP FLYWHEEL SECTION

TAG #	EXAM	INTERVAL (10-YEAR) PERIOD (40 MONTH)	1 1 3 1 2 3 1 3 3 1 4 3														
			1	2	3	1	2	3	1	2	3	1	2	3			
TBX-RCPCPC-01	UT OF BORE & KEYWAY		X	X		X	X		X	X		X	X		X	X	
	PT EXPOSED SURFACES				X				X			X					X
	UT COMPLETE VOLUME				X				X			X					X
TBX-RCPCPC-02	UT OF BORE & KEYWAY		X	X		X	X		X	X		X	X		X	X	
	PT EXPOSED SURFACES				X				X			X					X
	UT COMPLETE VOLUME				X				X			X					X
TBX-RCPCPC-03	UT OF BORE & KEYWAY		X	X		X	X		X	X		X	X		X	X	
	PT EXPOSED SURFACES				X				X			X					X
	UT COMPLETE VOLUME				X				X			X					X
TBX-RCPCPC-04	UT OF BORE & KEYWAY		X	X		X	X		X	X		X	X		X	X	
	PT EXPOSED SURFACES				X				X			X					X
	UT COMPLETE VOLUME				X				X			X					X

## SAFETY INJECTION PUMP SHROUD

Visible linear indications on the shroud that separates and supports the diffuser vanes and return guide vanes have been found on the type pump utilized as the safety injection pump at Comanche Peak. 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 is prudent to implement. 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.

### Summary Discussion

- a. Governing Document - Supplemental Safety Evaluation Report 12.
- 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 the radial direction shall be reported to Pacific Pumps.

AISI PLAN  
SI PUMP SHROUD SECTION

TAG #	INTERVAL 1ST	2ND	3RD	4TH	INDICATION NOTED?
TBX-SIAPSI-01					
TBX-SIAPSI-02					

NOTE: EXAM DATE TO BE INPUT UNDER APPROPRIATE 10-YEAR INTERVAL.

## 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 to monitor thimble tube performance be implemented 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 TU Electric 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 to be determined by the results obtained during the first examination.

Acceptance criteria for this activity is as follows:

- $W \leq 20$  : No action required
- $20 < W \leq 59$  : Evaluate repositioning of thimble tube
- $59 < W$  : Cap thimble tube location

Where W is the percent of wall loss linearly extrapolated to the end of the next fuel cycle.

$$W = \text{current \% wall loss} + \frac{\text{current \% wall loss}}{\# \text{ of previous fuel cycles}}$$

In accordance with TXX-89781 a special report shall be issued to the NRC within thirty days of completion of all thimble tube examinations conducted during an outage. Each report shall describe the tubes examined and the results, as a minimum.

### 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 during the first outage, with subsequent examinations determined by the results of the first examination.
- d. Acceptance Criteria - See above discussion.
- e. Special Reports - A special report will be issued to the NRC within 30 days of completion of each thimble tube inspection.



<u>TUBE ID</u>	<u>LAST EXAM DATE</u>	<u>W</u>	<u>COMMENTS</u>
A-9			
A-11			
B-3			
B-6			
B-8			
B-13			
C-5			
C-7			
C-8			
D-3			
D-8			
D-10			
D-12			
D-14			
E-5			
E-9			
E-11			
F-1			
F-3			
F-7			
F-8			
F-14			
G-5			
G-9			
G-12			
H-2			
H-3			
H-4			
H-6			
H-11			
H-13			
H-15			
J-1			
J-7			
J-8			
J-10			
J-14			
K-2			
K-6			
K-12			
L-5			
L-8			
L-10			
L-11			
L-13			
L-15			
M-7			
N-2			
N-4			
N-6			
N-8			
N-13			
N-14			
P-4			
P-9			
R-6			
R-8			
R-11			

MAIN STEAM AND FEEDWATER BREAK  
EXCLUSION PIPING

Main Steam and Feedwater piping located in the safeguards building which has been designated as "break exclusion piping" in FSAR Section 3.6.B, is to be examined in accordance with Auxiliary Systems Branch 3-1 (Ref. FSAR 6.6.8). This shall consist of an ultrasonic examination, to the extent practical, of all circumferential and longitudinal piping welds, except as may be exempted by ASME Section XI. ASME Section XI allows exemption from examination for piping 4" and less.

The augmented inservice inspection shall include all welds and portions thereof which meet the above criteria but which are not selected for examination as delineated in the ASME Section XI Inservice Inspection Plan. These examinations shall be distributed such that each weld or portion thereof is examined once during each 10-year inservice inspection 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 with the applicable work order.

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

Summary Discussion

- a. Governing Document - Auxiliary Systems Branch 3-1, FSAR 6.6.8
- b. Exam Items and Boundaries - All non-exempt circumferential and longitudinal welds in the Main Steam and Feedwater systems contained within the break exclusion zones, which are not scheduled to be examined as part of the Section XI inservice inspection program.
- 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



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

MAIN STEAM B-MS-1-257-1303-2

108300	TBX-2-2100-27 BRANCH CONNECTION TO PIPE R108 878SB	C-F-2 C5.51	UT	1	-	-	-	X	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-17**
--------	--	----------------	----	---	---	---	---	---	---	---	---	----	---

108400	TBX-2-2100-28 PIPE TO VALVE R108 881SB	C-F-2 C5.51	UT	1	-	-	-	X	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-17**
--------	--	----------------	----	---	---	---	---	---	---	---	---	----	---

108600	TBX-2-2100-29 VALVE TO PIPE R108 883SB	C-F-2 C5.51	UT	1	-	-	-	X	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-17**
--------	--	----------------	----	---	---	---	---	---	---	---	---	----	---

108700	TBX-2-2100-30 PIPE TO ELBOW R108 2208B	C-F-2 C5.51	UT	1	-	-	-	X	-	-	-	82	TDLR VERIFICATION BOUNDARY.  **TBX-17**
--------	--	----------------	----	---	---	---	---	---	---	---	---	----	---

108800	TBX-2-2100-31 ELBOW TO PIPE R108 885SB	C-F-2 C5.51	UT	1	-	-	-	X	-	-	-	82	TDLR VERIFICATION BOUNDARY.  **TBX-17**
--------	--	----------------	----	---	---	---	---	---	---	---	---	----	---

108900	TBX-2-2100-32 PIPE TO VALVE R108 885SB	C-F-2 C5.51	UT	1	-	-	-	X	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-17**
--------	--	----------------	----	---	---	---	---	---	---	---	---	----	---

MAIN STEAM 6-2003-2

109000	TBX-2-2100-33 BRANCH CONNECTION TO FLANGE R108 878SB	C-F-2 C5.51	UT	1	-	-	-	X	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-36**
--------	--	----------------	----	---	---	---	---	---	---	---	---	----	---

HIGH ENERGY LINE BREAK UNIT 1  
 INSERVICE INSPECTION LONG TERM PLAN  
 CLASS 2 SCHEDULED COMPONENTS

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

MAIN 11 AM 6-2003-2

109100 TBX-2-2100-34 BRANCH CONNECTION TO FLANGE R108 878SB	C-F-2 UT	1	-	-	-	X	-	-	-	88	TDLR VERIFICATION BOUNDARY.
	C5.51	2	-	-	-	-	-	-	-		
		3	-	-	-	-	-	-	-		
		4	-	-	-	-	-	-	-		**TBX-36**

109200 TBX-2-2100-35 BRANCH CONNECTION TO FLANGE R108 878SB	C-F-2 UT	1	-	-	-	X	-	-	-	88	TDLR VERIFICATION BOUNDARY.
	C5.51	2	-	-	-	-	-	-	-		
		3	-	-	-	-	-	-	-		
		4	-	-	-	-	-	-	-		**TDX-36**

109300 TBX-2-2100-36 BRANCH CONNECTION TO FLANGE R108 878SB	C-F-2 UT	1	-	-	-	X	-	-	-	88	TDLR VERIFICATION BOUNDARY.
	C5.51	2	-	-	-	-	-	-	-		
		3	-	-	-	-	-	-	-		
		4	-	-	-	-	-	-	-		**TBX-36**

MAIN STEAM 32-MS-1-001-1303-2

111000 TBX-2-2100-48 VALVE 1J MOMENT RESTRAINT R108 877SB	C-F-2 U:	1	-	-	-	X	-	-	-	86	
	C5.51	2	-	-	-	-	-	-	-		
		3	-	-	-	-	-	-	-		
		4	-	-	-	-	-	-	-		**TBX-33**

FEEDWATER 18-F 1303-2

112300 TBX-2-2101-13 PIPE TO PIPE R100A856SB	C-F-2 UT	1	-	-	-	X	-	-	-	88	TDLR VERIFICATION BOUNDARY.
	C5.51	2	-	-	-	-	-	-	-		
		3	-	-	-	-	-	-	-		
		4	-	-	-	-	-	-	-		**TBX-21**

112400 TBX-2-2101-14 PIPE TO PIPE R100A856SB	C-F-2 UT	1	-	-	-	X	-	-	-	88	TDLR VERIFICATION BOUNDARY.
	C5.51	2	-	-	-	-	-	-	-		
		3	-	-	-	-	-	-	-		
		4	-	-	-	-	-	-	-		**TBX-21**

HIGH ENERGY LINE BREAK UNIT 1  
 INSERVICE INSPECTION LONG TERM PLAN  
 CLASS 2 SCHEDULED COMPONENTS

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	INSPECTION INTERVAL ASME SEC. XI CATGY NDE ITEM NO METH	PLAN STATUS									PRESERVICE YEAR	INSTRUCTIONS **CALIBRATION BLOCK**		
		FIRST PERIOD			SECOND PERIOD			THIRD PERIOD						
		1	2	3	1	2	3	1	2	3				
<u>FEEDWATER 18-FW-1-036-2003-2</u>														
112500	TBX-2-2101-15 PIPE TO VALVE R100A856SB	C-F-2 C5.51	UT	1	-	-	X	-	-	-	-	-	82	TDLR VERIFICATION BOUNDARY.  **TBX-38**
112700	TBX-2-2101-16 VALVE TO PIPE R100A856SB	C-F-2 C5.51	UT	1	-	-	X	-	-	-	-	-	82	  **TBX-38**
112800	TBX-2-2101-17 PIPE TO VALVE R100A856SB	C-F-2 C5.51	UT	1	-	-	X	-	-	-	-	-	86	  **TBX-38**
112900	TBX-2-2101-18 VALVE TO PIPE R100A856SB	C-F-2 C5.51	UT	1	-	-	X	-	-	-	-	-	88	  **TBX-38**
113000	TBX-2-2101-19 PIPE TO MOMENT RESTRAINT R100A856SB	C-F-2 C5.51	UT	1	-	-	X	-	-	-	-	-	86	  **TBX-38**
<u>FEEDWATER 6-FW-1-091-2003-2</u>														
113200	TBX-2-2102-2 BRANCH CONNECTION TO PIPE R100A575B	C-F-2 C5.51	UT	1	-	-	X	-	-	-	-	-	88	  **TBX-34**
113300	TBX-2-2102-3 PIPE TO VALVE R100A860SB	C-F-2 C5.51	UT	1	-	-	X	-	-	-	-	-	82	  **TBX-34**

HIGH ENERGY LINE BREAK UNIT 1  
 INSERVICE INSPECTION LONG TERM PLAN  
 CLASS 2 SCHEDULED COMPONENTS

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	INSPECTION INTERVAL		PLAN STATUS									PRESERVICE YEAR	INSTRUCTIONS **CALIBRATION BLOCK**	
	ASME SEC. XI	CATGY NDE ITEM NO METH	FIRST PERIOD			SECOND PERIOD			THIRD PERIOD					
			1	2	3	1	2	3	1	2	3			
<u>FEEDWATER 6-FW-1-091-2003-2</u>														
13500	TBX-2-2102-4 VALVE TO P1-Z R100A861SB	C-F-2 C5.51	UT	1	-	-	X	-	-	-	-	-	82	**TBX-34**
113600	TBX-2-2102-5 PIPE TO ELBOW R100A861SB	C-F-2 C5.51	UT	1	-	-	X	-	-	-	-	-	88	**TBX-34**
113700	TBX-2-2102-6 ELBOW TO PIPE R100A862SB	C-F-2 C5.51	UT	1	-	-	X	-	-	-	-	-	88	**TBX-34**
113800	TBX-2-2102-7 PIPE TO ELBOW R100A862SB	C-F-2 C5.51	UT	1	-	-	X	-	-	-	-	-	88	**TBX-34**
113900	TBX-2-2102-8 ELBOW TO PIPE R100A862SB	C-F-2 C5.51	UT	1	-	-	X	-	-	-	-	-	88	**TBX-34**
114000	TBX-2-2102-9 PIPE TO VALVE R100A862SB	C-F-2 C5.51	UT	1	-	-	X	-	-	-	-	-	88	**TBX-34**
114100	TBX-2-2102-10 VALVE TO PIPE R100A862SB	C-F-2 C5.51	UT	1	-	-	X	-	-	-	-	-	82	TDLR VERIFICATION BOUNDARY, **TBX-34**

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	INSPECTION INTERVAL ASME SEC. XI CATGY NDE ITEM NO METH	PLAN STATUS									PRESERVICE YEAR	INSTRUCTIONS **CALIBRATION BLOCK**	
		FIRST PERIOD			SECOND PERIOD			THIRD PERIOD					
.....													
<u>FEEDWATER 6-FW-1-095-1303-2</u>													
114200	TBX-2-2102-11 PIPE TO PIPE R100AB62SB	C-F-2 UT C5.51	1	-	-	X	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
114300	TBX-2-2102-12 PIPE TO VALVE R100AB62SB	C-F-2 UT C5.51	1	-	-	X	-	-	-	-	-	82	TDLR VERIFICATION BOUNDARY.  **TBX-35**
114500	TBX-2-2102-13 VALVE TO PIPE R100AB62SB	C-F-2 UT C5.51	1	-	-	X	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
114600	TBX-2-2102-14 PIPE TO TEE R100AB62SB	C-F-2 UT C5.51	1	-	-	X	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
114700	TBX-2-2102-15 TEE TO PIPE R100AB62SB	C-F-2 UT C5.51	1	-	-	X	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
114800	TBX-2-2102-16 PIPE TO ELBOW R100AB62SB	C-F-2 UT C5.51	1	-	-	X	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
114900	TBX-2-2102-17 ELBOW TO PIPE R100AB63SB	C-F-2 UT C5.51	1	-	-	X	-	-	-	-	-	82	TDLR VERIFICATION BOUNDARY.  **TBX-35**







HIGH ENERGY LINE BREAK UNIT 1  
 INSERVICE INSPECTION LONG TERM PLAN  
 CLASS 2 SCHEDULED COMPONENTS

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	INSPECTION INTERVAL		PLAN STATUS									PRESERVICE YEAR	INSTRUCTIONS **CALIBRATION BLOCK**	
	ASME SEC. XI CATGY NDE ITEM NO METH		FIRST PERIOD			SECOND PERIOD			THIRD PERIOD					
-----														
<u>MAIN STEAM MS-24 (DRIP POT)</u>														
123500	TBX-1-2200-24	C-F-2	UT	1	-	-	-	-	-	-	X	-	88	TDLR VERIFICATION BOUNDARY.
	BRANCH CONNECTION TO PIPE	C5.51		2	-	-	-	-	-	-	-	-		
	R10B 8765B			3	-	-	-	-	-	-	-	-		
				4	-	-	-	-	-	-	-	-		**TBX-22**
<u>MAIN STEAM B-MS-1-240-103-2</u>														
123700	TBX-1-2200-26	C-F-2	UT	1	-	-	-	-	-	-	X	-	88	TDLR VERIFICATION BOUNDARY.
	BRANCH CONNECTION TO PIPE	C5.51		2	-	-	-	-	-	-	-	-		
	R10B 8765B			3	-	-	-	-	-	-	-	-		
				4	-	-	-	-	-	-	-	-		**TBX-17**
123800	TBX-1-2200-27	C-F-2	UT	1	-	-	-	-	-	-	X	-	88	TDLR VERIFICATION BOUNDARY.
	PIPE TO VALVE	C5.51		2	-	-	-	-	-	-	-	-		
	R10B 8815B			3	-	-	-	-	-	-	-	-		
				4	-	-	-	-	-	-	-	-		**TBX-17**
124000	TBX-1-2200-28	C-F-2	UT	1	-	-	-	-	-	-	X	-	88	TDLR VERIFICATION BOUNDARY.
	VALVE TO PIPE	C5.51		2	-	-	-	-	-	-	-	-		
	R10B 8835B			3	-	-	-	-	-	-	-	-		
				4	-	-	-	-	-	-	-	-		**TBX-17**
124100	TBX-1-2200-29	C-F-2	UT	1	-	-	-	-	-	-	X	-	85	TDLR VERIFICATION BOUNDARY.
	PIPE TO ELBOW	C5.51		2	-	-	-	-	-	-	-	-		
	R10B 8835B			3	-	-	-	-	-	-	-	-		
				4	-	-	-	-	-	-	-	-		**TBX-17**
124200	TBX-1-2200-30	C-F-2	UT	1	-	-	-	-	-	-	X	-	88	TDLR VERIFICATION BOUNDARY.
	ELBOW TO PIPE	C5.51		2	-	-	-	-	-	-	-	-		
	R10B 8855B			3	-	-	-	-	-	-	-	-		
				4	-	-	-	-	-	-	-	-		**TBX-17**
124300	TBX-2-2200-31	C-F-2	UT	1	-	-	-	-	-	-	X	-	88	TDLR VERIFICATION BOUNDARY.
	PIPE TO VALVE	C5.51		2	-	-	-	-	-	-	-	-		
	R10B 8855B			3	-	-	-	-	-	-	-	-		
				4	-	-	-	-	-	-	-	-		**TBX-17**

HIGH ENERGY LINE BREAK UNIT 1  
 INSERVICE INSPECTION LONG TERM PLAN  
 CLASS 2 SCHEDULED COMPONENTS

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

MAIN STEAM 6-2003-2

124500	TBX-2-2200-33 BRANCH CONNECTION TO FLANGE R108 8785B	C-F-2 UT C5.51	1 - - - 2 - - - 3 - - - 4 - - -	- - - - - - - - - - - -	- - - - - - - - - - - -	- X - - - - - - - - - -	88	TDLR VERIFICATION BOUNDARY.  **TBX-36**
--------	--	-------------------	--	----------------------------------	----------------------------------	----------------------------------	----	---

124600	TBX-2-2200-34 BRANCH CONNECTION TO FLANGE R108 8785B	C-F-2 UT C5.51	1 - - - 2 - - - 3 - - - 4 - - -	- - - - - - - - - - - -	- - - - - - - - - - - -	- X - - - - - - - - - -	88	TDLR VERIFICATION BOUNDARY.  **TBX-36**
--------	--	-------------------	--	----------------------------------	----------------------------------	----------------------------------	----	---

124700	TBX-2-2200-35 BRANCH CONNECTION TO FLANGE R108 8785B	C-F-2 UT C5.51	1 - - - 2 - - - 3 - - - 4 - - -	- - - - - - - - - - - -	- - - - - - - - - - - -	- X - - - - - - - - - -	88	TDLR VERIFICATION BOUNDARY.  **TBX-36**
--------	--	-------------------	--	----------------------------------	----------------------------------	----------------------------------	----	---

124800	TBX-2-2200-36 BRANCH CONNECTION TO FLANGE R108 8785B	C-F-2 UT C5.51	1 - - - 2 - - - 3 - - - 4 - - -	- - - - - - - - - - - -	- - - - - - - - - - - -	- X - - - - - - - - - -	88	TDLR VERIFICATION BOUNDARY.  **TBX-36**
--------	--	-------------------	--	----------------------------------	----------------------------------	----------------------------------	----	---

MAIN STEAM 32-MS-1-002-1303-2

126300	TBX-2-2200-47 VALVE TO MOMENT RESTRAINT R108 8775B	C-F-2 UT C5.51	1 - - - 2 - - - 3 - - - 4 - - -	- - - - - - - - - - - -	- - - - - - - - - - - -	- X - - - - - - - - - -	86	   **TBX-33**
--------	--	-------------------	--	----------------------------------	----------------------------------	----------------------------------	----	------------------------

FEEDWATER 18-FW-1-018-1303-2

129100	TBX-2-2201-28 PIPE TO PIPE R100A8563B	C-F-2 UT C5.51	1 X - - 2 - - - 3 - - - 4 - - -	- - - - - - - - - - - -	- - - - - - - - - - - -	- - - - - - - - - - - -	88	TDLR VERIFICATION BOUNDARY.  **TBX-21**
--------	---	-------------------	--	----------------------------------	----------------------------------	----------------------------------	----	---

HIGH ENERGY LINE BREAK UNIT 1  
 INSERVICE INSPECTION LONG TERM PLAN  
 CLASS 2 SCHEDULED COMPONENTS

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

FEEDWATER 18-FW-1-018-1303-2

129200	TBX-2-2201-29	C-F-2	UT	1	X	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.
	PIPE TO PIPE	C5.51		2	-	-	-	-	-	-	-		
	R100A856SB			3	-	-	-	-	-	-	-		
				4	-	-	-	-	-	-	-		**TBX-21**

FEEDWATER 18-1-FW-035-2003-2

129300	TBX-2-2201-30	C-F-2	UT	1	X	-	-	-	-	-	-	82	TDLR VERIFICATION BOUNDARY.
	PIPE TO VALVE	C5.51		2	-	-	-	-	-	-	-		
	R100A856SB			3	-	-	-	-	-	-	-		
				4	-	-	-	-	-	-	-		**TBX-38**

129400	TBX-2-2201-31	C-F-2	UT	1	X	-	-	-	-	-	-	82	
	VALVE TO PIPE	C5.51		2	-	-	-	-	-	-	-		
	R100A856SB			3	-	-	-	-	-	-	-		
				4	-	-	-	-	-	-	-		**TBX-38**

129500	TBX-2-2201-32	C-F-2	UT	1	X	-	-	-	-	-	-	82	
	PIPE TO VALVE	C5.51		2	-	-	-	-	-	-	-		
	R100A856SB			3	-	-	-	-	-	-	-		
				4	-	-	-	-	-	-	-		**TBX-38**

129600	TBX-2-2201-33	C-F-2	UT	1	X	-	-	-	-	-	-	88	
	VALVE TO PIPE	C5.51		2	-	-	-	-	-	-	-		
	R100A856SB			3	-	-	-	-	-	-	-		
				4	-	-	-	-	-	-	-		**TBX-38**

FEEDWATER 6-FW-1-092-2003-2

129900	TBX-2-2202-2	C-F-2	UT	1	X	-	-	-	-	-	-	88	
	BRANCH CONNECTION TO PIPE	C5.51		2	-	-	-	-	-	-	-		
	R100A857SB			3	-	-	-	-	-	-	-		
				4	-	-	-	-	-	-	-		**TBX-34**

HIGH ENERGY LINE BREAK UNIT 1  
 INSERVICE INSPECTION LONG TERM PLAN  
 CLASS 2 SCHEDULED COMPONENTS

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	INSPECTION INTERVAL		PLAN STATUS									PRESERVICE YEAR	INSTRUCTIONS **CALIBRATION BLOCK**
	ASME SEC. XI CATGY NDE ITEM NO METH		FIRST PERIOD			SECOND PERIOD			THIRD PERIOD				
-----													
<u>FEEDWATER 6-FW-1-092-2003-2</u>													
130000 TBX-2-2202-3 PIPE TO VALVE R100A8605B	C-F-2 C5.51	UT	1 X - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	88	**TBX-34**	
130200 TBX-2-2202-4 VALVE TO PIPE R100A8615B	C-F-2 C5.51	UT	1 X - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	88	**TBX-34**	
130300 TBX-2-2202-5 PIPE TO ELBOW R100A8625B	C-F-2 C5.51	UT	1 X - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	82	**TBX-34**	
130400 TBX-2-2202-6 ELBOW TO PIPE R100A8635B	C-F-2 C5.51	UT	1 X - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	88	**TBX-34**	
130500 TBX-2-2202-7 PIPE TO ELBOW R100A8635B	C-F-2 C5.51	UT	1 X - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	88	**TBX-34**	
130600 TBX-2-2202-8 ELBOW TO PIPE R100A8635B	C-F-2 C5.51	UT	1 X - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	88	**TBX-34**	
130800 TBX-2-2202-10 VALVE TO PIPE R100A8635B	C-F-2 C5.51	UT	1 X - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	88	TDLR VERIFICATION BOUNDARY.  **TBX-34**	

HIGH ENERGY LINE BREAK UNIT 1  
 INSERVICE INSPECTION LONG TERM PLAN  
 CLASS 2 SCHEDULED COMPONENTS

SUMMARY NUMBER	EXAMINATION AREA IDENTIFICATION	INSPECTION INTERVAL		PLAN STATUS									PRESERVICE YEAR	INSTRUCTIONS
		ASME SEC. XI	CATGY NDE	FIRST PERIOD			SECOND PERIOD			THIRD PERIOD				
			ITEM NO METH	1	2	3	1	2	3	1	2	3		**CALIBRATION BLOCK**
<u>FEEDWATER 6-FW-1-096-1303-2</u>														
130900	TBX-2-2202-11 PIPE TO PIPE R100A8635B	C-F-2 CS.51	UT	1	X	-	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY,  **TBX-35**
131000	TBX-2-2202-12 PIPE TO VALVE R100A8635B	C-F-2 CS.51	UT	1	X	-	-	-	-	-	-	-	82	TDLR VERIFICATION BOUNDARY,  **TBX-35**
131100	TBX-2-2202-13 VALVE TO PIPE R100A8635B	C-F-2 CS.51	UT	1	X	-	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY,  **TBX-35**
131200	TBX-2-2202-14 PIPE TO TEE R100A8635B	C-F-2 CS.51	UT	1	X	-	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY,  **TBX-35**
131300	TBX-2-2202-15 TEE TO PIPE R100A8635B	C-F-2 CS.51	UT	1	X	-	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY,  **TBX-35**
131400	TBX-2-2202-16 PIPE TO ELBOW R100A8635B	C-F-2 CS.51	UT	1	X	-	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY,  **TBX-35**
131500	TBX-2-2202-17 ELBOW TO PIPE R100A8645B	C-F-2 CS.51	UT	1	X	-	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY,  **TBX-35**

HIGH ENERGY LINE BREAK UNIT 1  
 INSERVICE INSPECTION LONG TERM PLAN  
 CLASS 2 SCHEDULED COMPONENTS

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION		INSPECTION INTERVAL ASME SEC. XI CATGY NDE ITEM NO METH		PLAN STATUS									PRESERVICE YEAR	INSTRUCTIONS **CALIBRATION BLOCK**
				FIRST PERIOD			SECOND PERIOD			THIRD PERIOD				
				1	2	3	1	2	3	1	2	3		
<u>FEEDWATER 6-FW-1-096-1303-2</u>														
131600	TBX-2-2202-18 PIPE TO ELBOW R100A8685B	C-F-2 C5.51	UT	1	X	-	-	-	-	-	-	-	82	TDLR VERIFICATION BOUNDARY.  **TBX-35**
131700	TBX-2-2202-19 ELBOW TO PIPE R100A8705B	C-F-2 C5.51	UT	1	X	-	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
131800	TBX-2-2202-20 PIPE TO ELBOW R100A8705B	C-F-2 C5.51	UT	1	X	-	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
131900	TBX-2-2202-21 ELBOW TO PIPE R100A8685B	C-F-2 C5.51	UT	1	X	-	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
132000	TBX-2-2202-22 PIPE TO ELBOW R100A8655B	C-F-2 C5.51	UT	1	X	-	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
132100	TBX-2-2202-23 ELBOW TO PIPE R100A8645B	C-F-2 C5.51	UT	1	X	-	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
132200	TBX-2-2202-24 PIPE TO ELBOW R100A8645B	C-F-2 C5.51	UT	1	X	-	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**





HIGH ENERGY LINE BREAK UNIT 1  
 INSERVICE INSPECTION LONG TERM PLAN  
 CLASS 2 SCHEDULED COMPONENTS

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	INSPECTION INTERVAL		PLAN STATUS									PRESERVICE YEAR	INSTRUCTIONS **CALIBRATION BLOCK**
	ASME SEC. XI CATGY NDE ITEM NO METH		FIRST PERIOD			SECOND PERIOD			THIRD PERIOD				
			1	2	3	1	2	3	1	2	3		
<u>MAIN STEAM MS-023 (DRIP POT)</u>													
142600 TBX-2-2300-34 BRANCH CONNECTION TO PIPE R108 B76SB	C-F-2 C5.51	UT	1 - - -	- X -	- - -	2 - - -	- - -	- - -	3 - - -	- - -	- - -	88	TDLR VERIFICATION BOUNDARY.  **TBX-22**
142700 TBX-2-2300-35 PIPE TO CAP R108 B73SB	C-F-2 C5.51	UT	1 - - -	- X -	- - -	2 - - -	- - -	- - -	3 - - -	- - -	- - -	82	TDLR VERIFICATION BOUNDARY.  **TBX-22**
<u>MAIN STEAM B-MS-1-223-1303-2</u>													
142900 TBX-2-2300-37 PIPE TO VALVE R108 B80B	C-F-2 C5.51	UT	1 - - -	- X -	- - -	2 - - -	- - -	- - -	3 - - -	- - -	- - -	88	TDLR VERIFICATION BOUNDARY.  **TBX-17**
143100 TBX-2-2300-38 VALVE TO PIPE R108 B83SB	C-F-2 C5.51	UT	1 - - -	- X -	- - -	2 - - -	- - -	- - -	3 - - -	- - -	- - -	88	TDLR VERIFICATION BOUNDARY.  **TBX-17**
143200 TBX-2-2300-39 PIPE TO ELBOW R108 B84SB	C-F-2 C5.51	UT	1 - - -	- X -	- - -	2 - - -	- - -	- - -	3 - - -	- - -	- - -	88	TDLR VERIFICATION BOUNDARY.  **TBX-17**
143300 TBX-2-2300-40 ELBOW TO PIPE R108 B85SB	C-F-2 C5.51	UT	1 - - -	- X -	- - -	2 - - -	- - -	- - -	3 - - -	- - -	- - -	88	TDLR VERIFICATION BOUNDARY.  **TBX-17**
143400 TBX-2-2300-41 PIPE TO VALVE R108 B85SB	C-F-2 C5.51	UT	1 - - -	- X -	- - -	2 - - -	- - -	- - -	3 - - -	- - -	- - -	88	TDLR VERIFICATION BOUNDARY.  **TBX-17**

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

MAIN STEAM 6-2003-2

143500	TBX-2-2300-42 BRANCH CONNECTION TO FLANGE R108 8785B	C-F-2 C5.51	UT	1	-	-	-	X	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-36**
--------	--	----------------	----	---	---	---	---	---	---	---	---	----	---

143600	TBX-2-2300-43 BRANCH CONNECTION TO FLANGE R108 8785B	C-F-2 C5.51	UT	1	-	-	-	X	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-36**
--------	--	----------------	----	---	---	---	---	---	---	---	---	----	---

143700	TBX-2-2300-44 BRANCH CONNECTION TO FLANGE R108 8785B	C-F-2 C5.51	UT	1	-	-	-	X	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-36**
--------	--	----------------	----	---	---	---	---	---	---	---	---	----	---

143800	TBX-2-2300-45 BRANCH CONNECTION TO FLANGE R108 8785B	C-F-2 C5.51	UT	1	-	-	-	X	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-36**
--------	--	----------------	----	---	---	---	---	---	---	---	---	----	---

143900	TBX-2-2300-46 BRANCH CONNECTION TO FLANGE R108 8785B	C-F-2 C5.51	UT	1	-	-	-	X	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-36**
--------	--	----------------	----	---	---	---	---	---	---	---	---	----	---

MAIN STEAM 32-MS-1-003-1303-2

146200	TBX-2-2300-68 VALVE TO MOMENT RESTRAINT R108 8775B	C-F-2 C5.51	UT	1	-	-	-	X	-	-	-	86	  **TBX-33**
--------	--	----------------	----	---	---	---	---	---	---	---	---	----	--------------------

FEEDWATER 18-FW-1-017-1303-2

148800	TBX-2-2301-24 PIPE TO PIPE R100A8565B	C-F-2 C5.51	UT	1	X	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-21**
--------	---	----------------	----	---	---	---	---	---	---	---	---	----	---

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

FEEDWATER 1B-FW-1-017-1804-7

148900	TBX-2-2301-25 PIPE TO PIPE R100A856SB	C-F-2 CS.51	UT	1	X	-	-	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-21**
--------	---	----------------	----	---	---	---	---	---	---	---	---	---	---	----	---

FEEDWATER 1B-FW-1-034-2003-7

149000	TBX-2-2301-26 PIPE TO VALVE R100A856SB	C-F-2 CS.51	UT	1	X	-	-	-	-	-	-	-	-	82	TDLR VERIFICATION BOUNDARY.  **TBX-30**
--------	--	----------------	----	---	---	---	---	---	---	---	---	---	---	----	---

149100	TBX-2-2301-27 VALVE TO PIPE R100A856SB	C-F-2 CS.51	UT	1	X	-	-	-	-	-	-	-	-	82	  **TBX-38**
--------	--	----------------	----	---	---	---	---	---	---	---	---	---	---	----	--------------------

149300	TBX-2-2301-28 PIPE TO VALVE R100A856SB	C-F-2 CS.51	UT	1	X	-	-	-	-	-	-	-	-	82	  **TBX-30**
--------	--	----------------	----	---	---	---	---	---	---	---	---	---	---	----	--------------------

149400	TBX-2-2301-29 VALVE TO PIPE R100A856SB	C-F-2 CS.51	UT	1	X	-	-	-	-	-	-	-	-	86	  **TBX-38**
--------	--	----------------	----	---	---	---	---	---	---	---	---	---	---	----	--------------------

149500	TBX-2-2301-30 PIPE TO MOMENT RESTRAINT R100A856SB	C-F-2 CS.51	UT	1	X	-	-	-	-	-	-	-	-	82	  **TBX-38**
--------	---	----------------	----	---	---	---	---	---	---	---	---	---	---	----	--------------------

FEEDWATER 6-FW-1-093-2003-2

149700	TBX-2-2302-2 BRANCH CONNECTION TO PIPE R100A857SB	C-F-2 CS.51	UT	1	X	-	-	-	-	-	-	-	-	88	  **TBX-34**
--------	---	----------------	----	---	---	---	---	---	---	---	---	---	---	----	--------------------



SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	INSPECTION INTERVAL ASME SEC. XI CATGY NDE ITEM NO METH	PLAN STATUS									PRESERVICE YEAR	
		FIRST PERIOD			SECOND PERIOD			THIRD PERIOD				
												INSTRUC: NS **CALIBRATION BLOCK**
<u>FEEDWATER 6-FW-1-097-1303-2</u>												
150600	TBX-2-2302-11 PIPE TO PIPE R100A863SB	C-F-2 UT CS.51	1	X	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
150700	TBX-2-2302-12 PIPE TO VALVE R100A863SB	C-F-2 UT CS.51	1	X	-	-	-	-	-	-	82	TDL VERIFICATION BOUNDARY.  **TBX-35**
150800	TBX-2-2302-13 VALVE TO PIPE R100A863SB	C-F-2 UT CS.51	1	X	-	-	-	-	-	-	82	TDLR VERIFICATION BOUNDARY.  **TBX-35**
150900	TBX-2-2302-14 PIPE TO TEE R100A863SB	C-F-2 UT CS.51	1	X	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
151000	TBX-2-2302-15 TEE TO PIPE R100A863SB	C-F-2 UT CS.51	1	X	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
151100	TBX-2-2302-16 PIPE TO ELBOW R100A863SB	C-F-2 UT CS.51	1	X	-	-	-	-	-	-	82	TDLR VERIFICATION BOUNDARY.  **TBX-35**
151200	TBX-2-2302-17 ELBOW TO PIPE R100A864SB	C-F-2 UT CS.51	1	X	-	-	-	-	-	-	82	TDLR VERIFICATION BOUNDARY.  **TBX-35**

		INSPECTION INTERVAL		PLAN STATUS									PRESERVICE YEAR	INSTRUCTIONS
				FIRST PERIOD			SECOND PERIOD			THIRD PERIOD				
SUMMARY EXAMINATION AREA		ASME	NDE	O U T A G E									INSTRUCTIONS	
NUMBER	IDENTIFICATION	SEC. XI	ITEM NO METH	1	2	3	1	2	3	1	2	3		**CALIBRATION BLOCK**
<u>FEEDWATER 6-FW-1-097-1303-2</u>														
151300	TBX-2-2302-18 PIPE TO ELBOW R100A869SB	C-F-2 CS.51	UT	1	X	-	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
151400	TBX-2-2302-19 ELBOW TO PIPE R100A870SB	C-F-2 CS.51	UT	1	X	-	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
151500	TBX-2-2302-20 PIPE TO ELBOW R100A870SB	C-F-2 CS.51	UT	1	X	-	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
151600	TBX-2-2302-21 ELBOW TO PIPE R100A869SB	C-F-2 CS.51	UT	1	X	-	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
151700	TBX-2-2302-22 PIPE TO ELBOW R100A865SB	C-F-2 CS.51	UT	1	X	-	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
151800	TBX-2-2302-23 ELBOW TO PIPE R100A864SB	C-F-2 CS.51	UT	1	X	-	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
151900	TBX-2-2302-24 PIPE TO ELBOW R100A864SB	C-F-2 CS.51	UT	1	X	-	-	-	-	-	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	INSPECTION INTERVAL		PLAN STATUS									PRESERVICE YEAR	INSTRUCTIONS **CALIBRATION BLOCK**
	ASME SEC. XI	CMTY NDE ITEM NO METH	FIRST PERIOD			SECOND PERIOD			THIRD PERIOD				
			1	2	3	1	2	3	1	2	3		
<u>FEEDWATER 6-FW-1-097-1303-2</u>													
1*2000 TBX-2-2302-25 ELBOW TO PIPE R100AB645B	C-F-2 C5.51	UT	1	X	-	-	-	-	-	-	-	BB	TDLR VERIFICATION BOUNDARY.  **TBX-35**
152100 TBX-2-2302-26 PIPE TO PIPE R100AB645B	C-F-2 C5.51	UT	1	X	-	-	-	-	-	-	-	BB	TDLR VERIFICATION BOUNDARY.  **TBX-35**
<u>MAIN STEAM 32-MS-1-004-1303-2</u>													
160500 TBX-2-2400-1B PIPE TO PIPE R10B 8775B	C-F-2 C5.51	UT	1	-	-	-	-	-	-	X	-	BB	TDLR VERIFICATION BOUNDARY.  **TBX-33**
160550 TBX-2-2400-18L LONG. SEAM R10B 8778B	C-F-2 C5.52	UT	1	-	-	-	-	-	-	X	-	BB	100% FROM WELD 18 TO 22. TDLR VERIFICATION BOUNDARY.  **TBX-33**
160900 TBX-2-2400-22 PIPE TO PIPE R10B 8775B	C-F-2 C5.51	UT	1	-	-	-	-	-	-	X	-	BB	TDLR VERIFICATION BOUNDARY.  **TBX-33**
161350 TBX-2-2400-26L LONG. SEAM R10B 8778B	C-F-2 C5.52	UT	1	-	-	-	-	-	-	X	-	BB	100% FROM 22 TO 26. TDLR VERIFICATION BOUNDARY.  **TBX-33**
<u>MAIN STEAM MS-26 (DRIP POT)</u>													
161400 TBX-2-2400-27 BRANCH CONNECTION TO PIPE R10B 8765B	C-F-2 C5.51	UT	1	-	-	-	-	-	-	X	-	BB	TDLR VERIFICATION BOUNDARY.  **TBX-22**



HIGH ENERGY LINE BREAK UNIT 1  
 INSERVICE INSPECTION LONG TERM PLAN  
 CLASS 2 SCHEDULED COMPONENTS

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	INSPECTION INTERVAL		PLAN STATUS									PRE-SERVICE YEAR	INSTRUCTIONS **CALIBRATION BLOCK**
	ASME SEC. XI CATGY NDE ITEM NO METH		FIRST PERIOD			SECOND PERIOD			THIRD PERIOD				
			1	2	3	1	2	3	1	2	3		
<u>MAIN STEAM MS-26 (DRIP POT)</u>													
161500 TBX-2-2400-28 PIPE TO CAP R108 8745B	C-F-2 C5.51	UT	1	-	-	-	-	-	-	X	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-22**
<u>MAIN STEAM B-MS-1-274-1303-2</u>													
161700 TBX-2-2400-30 PIPE TO VALVE R108 8815B	C-F-2 C5.51	UT	1	-	-	-	-	-	-	X	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-17**
161900 TBX-2-2400-31 VALVE TO PIPE R108 8835B	C-F-2 C5.51	UT	1	-	-	-	-	-	-	X	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-17**
162000 TBX-2-2400-32 PIPE TO ELBOW R108 8845B	C-F-2 C5.51	UT	1	-	-	-	-	-	-	X	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-17**
162100 TBX-2-2400-33 ELBOW TO PIPE R108 8855B	C-F-2 C5.51	UT	1	-	-	-	-	-	-	X	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-17**
162200 TBX-2-2400-34 PIPE TO VALVE R108 8855B	C-F-2 C5.51	UT	1	-	-	-	-	-	-	X	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-17**
<u>MAIN STEAM 6-2003-2</u>													
162300 TBX-2-2400-35 BRANCH CONNECTION TO FLANGE R108 8795B	C-F-2 C5.51	UT	1	-	-	-	-	-	-	X	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-36**

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

MAIN STEAM 6-2003-2

162400	TBX-2-2400-36 BRANCH CONNECTION TO FLANGE R10B 879SB	C-F-2 C5.51	UT	1	-	-	-	-	-	X	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-36**
--------	--	----------------	----	---	---	---	---	---	---	---	---	----	---

162500	TBX-2-2400-37 BRANCH CONNECTION TO FLANGE R10B 879SB	C-F-2 C5.51	UT	1	-	-	-	-	-	X	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-36**
--------	--	----------------	----	---	---	---	---	---	---	---	---	----	---

162600	TBX-2-2400-38 BRANCH CONNECTION TO FLANGE R10B 879SB	C-F-2 C5.51	UT	1	-	-	-	-	-	X	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-36**
--------	--	----------------	----	---	---	---	---	---	---	---	---	----	---

162700	TBX-2-2400-39 BRANCH CONNECTION TO FLANGE R10B 879SB	C-F-2 C5.51	UT	1	-	-	-	-	-	X	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-36**
--------	--	----------------	----	---	---	---	---	---	---	---	---	----	---

MAIN STEAM 32-MS-1-004-1303-2

163900	TBX-2-2400-51 PIPE TO MOMENT RESTRAINT R10B 877SB	C-F-2 C5.51	UT	1	-	-	-	-	-	X	-	86	  **TBX-33**
--------	---	----------------	----	---	---	---	---	---	---	---	---	----	--------------------

FEEDWATER 18-FW-1-020-1303-2

165100	TBX-2-2401-11 PIPE TO PIPE R1001856RB	C-F-2 C5.51	UT	1	-	-	-	-	-	X	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-21**
--------	---	----------------	----	---	---	---	---	---	---	---	---	----	---

HIGH ENERGY LINE BREAK UNIT 1  
INSERVICE INSPECTION LONG TERM PLAN  
CLASS 2 SCHEDULED COMPONENTS

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

FEEDWATER 1B-FW-1-020-1303-2

165200	TBX-2-2401-12 PIPE TO PIPE R100AB55RB	C-F-2 UT CS.51	1 - - -	- - -	X - -	BB	TDLR VERIFICATION BOUNDARY.
			2 - - -	- - -	- - -		
			3 - - -	- - -	- - -		
			4 - - -	- - -	- - -		**TBX-21**

FEEDWATER 1B-FW-1-037-2003-2

165500	TBX-2-2401-15 PIPE TO VALVE R100AB56RB	C-F-2 UT CS.51	1 - - -	- - -	X - -	BB	
			2 - - -	- - -	- - -		
			3 - - -	- - -	- - -		
			4 - - -	- - -	- - -		**TBX-38**

165600	TBX-2-2401-16 VALVE TO PIPE R100AB56RB	C-F-2 UT CS.51	1 - - -	- - -	X - -	BB	
			2 - - -	- - -	- - -		
			3 - - -	- - -	- - -		
			4 - - -	- - -	- - -		**TBX-38**

165700	TBX-2-2401-17 PIPE TO MOMENT RESTRAINT R100AB56RB	C-F-2 UT CS.51	1 - - -	- - -	X - -	BB	
			2 - - -	- - -	- - -		
			3 - - -	- - -	- - -		
			4 - - -	- - -	- - -		**TBX-38**

FEEDWATER 6-FW-1-094-2003-2

165900	TBX-2-2402-2 BRANCH CONNECTION TO PIPE R100AB57SB	C-F-2 UT CS.51	1 - - -	- - -	X - -	BB	
			2 - - -	- - -	- - -		
			3 - - -	- - -	- - -		
			4 - - -	- - -	- - -		**TBX-34**

166000	TBX-2-2402-3 PIPE TO VALVE R100AB59SB	C-F-2 UT CS.51	1 - - -	- - -	X - -	BB	
			2 - - -	- - -	- - -		
			3 - - -	- - -	- - -		
			4 - - -	- - -	- - -		**TBX-34**

HIGH ENERGY LINE BREAK UNIT 1  
 INSERVICE INSPECTION LONG TERM PLAN  
 CLASS 2 SCHEDULED COMPONENTS

SUMMARY EXAMINATION AREA NUMBL IDENTIFICATION	INSPECTION INTERVAL ASME SEC. XI CATGY NDE ITEM NO METH	PLAN STATUS									PRESERVICE YEAR	INSTRUCTIONS **CALIBRATION BLOCK**
		FIRST PERIOD			SECOND PERIOD			THIRD PERIOD				
		1	2	3	1	2	3	1	2	3		
<u>FEEOWATER 6-FW-1-094-2003-2</u>												
166100 TBX-2-2402-4 VALVE TO PIPE R100AB615B	C-F-2 UT C5.51	1	-	-	-	-	-	X	-	-	88	**TBX-34**
166200 TBX-2-2402-5 PIPE TO ELBOW R100AB625B	C-F-2 UT C5.51	1	-	-	-	-	-	X	-	-	82	**TBX-34**
166300 TBX-2-2402-6 ELBOW TO PIPE R100AB635B	C-F-2 UT C5.51	1	-	-	-	-	-	X	-	-	88	**TBX-34**
166400 TBX-2-2402-7 PIPE TO ELBOW R100AB615B	C-F-2 UT C5.51	1	-	-	-	-	-	X	-	-	88	**TBX-34**
166500 TBX-2-2402-8 ELBOW TO PIPE R100AB635B	C-F-2 UT C5.51	1	-	-	-	-	-	X	-	-	88	**TBX-34**
166600 TBX-2-2402-9 PIPE TO VALVE R100AB635B	C-F-2 UT C5.51	1	-	-	-	-	-	X	-	-	88	**TBX-34**
166700 TBX-2-2402-10 VALVE TO PIPE R100AB635B	C-F-2 UT C5.51	1	-	-	-	-	-	X	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-34**

HIGH ENERGY LINE BREAK UNIT 1  
 INSERVICE INSPECTION LONG TERM PLAN  
 CLASS 2 SCHEDULED COMPONENTS

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	INSPECTION INTERVAL ASME SEC. XI CATGY NDE ITEM NO METH	PLAN STATUS									PRESERVICE YEAR	INSTRUCTIONS **CALIBRATION BLOCK**
		FIRST PERIOD			SECOND PERIOD			THIRD PERIOD				
-----												
<u>FEEDWATER 6-FW-1-09B-1303-2</u>												
166800 TBX-2-2402-11 PIPE TO PIPE R100A8625B	C-F-2 UT C5.51	1	-	-	-	-	-	X	-	-	88	TDLR VERIFICATION BOUNDARY,  **TBX-35**
166900 TBX-2-2402-12 PIPE TO VALVE R100A8625B	C-F-2 UT C5.51	1	-	-	-	-	-	X	-	-	82	TDLR VERIFICATION BOUNDARY,  **TBX-35**
167000 TBX-2-2402-13 VALVE TO PIPE R100A8625B	C-F-2 UT C5.51	1	-	-	-	-	-	X	-	-	82	TDLR VERIFICATION BOUNDARY,  **TBX-35**
167100 TBX-2-2402-14 PIPE TO TEE R100A8625B	C-F-2 UT C5.51	1	-	-	-	-	-	X	-	-	88	TDLR VERIFICATION BOUNDARY,  **TBX-35**
167200 TBX-2-2402-15 TEE TO PIPE R100A8625B	C-F-2 UT C5.51	1	-	-	-	-	-	X	-	-	88	TDLR VERIFICATION BOUNDARY,  **TBX-35**
167300 TBX-2-2402-16 PIPE TO ELBOW R100A8625B	C-F-2 UT C5.51	1	-	-	-	-	-	X	-	-	88	TDLR VERIFICATION BOUNDARY,  **TBX-35**
167400 TBX-2-2402-17 ELBOW TO PIPE R100A8635B	C-F-2 UT C5.51	1	-	-	-	-	-	X	-	-	88	TDLR VERIFICATION BOUNDARY,  **TBX-35**

HIGH ENERGY LINE BREAK UNIT 1  
 INSERVICE INSPECTION LONG TERM PLAN  
 CLASS 2 SCHEDULED COMPONENTS

SUMMARY EXAMINATION AREA NUMBER IDENTIFICATION	INSPECTION INTERVAL		PLAN STATUS									PRESERVICE YEAR	INSTRUCTIONS **CALIBRATION BLOCK**	
	ASME SEC. Y1	CATGY NDE ITEM NO METH	FIRST PERIOD			SECOND PERIOD			THIRD PERIOD			88		
			1	2	3	1	2	3	1	2	3			
<u>FEEDWATER 6-FW-1-098-1303-2</u>														
167500 TBX-2-2402-18 PIPE TO ELBOW R100A869SB	C-F-2 C5.51	UT	1	-	-	-	-	-	-	X	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
167600 TBX-2-2402-19 ELBOW TO PIPE R100A870SB	C-F-2 C5.51	UT	1	-	-	-	-	-	-	X	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
167700 TBX-2-2402-20 PIPE TO ELBOW R100A870SB	C-F-2 C5.51	UT	1	-	-	-	-	-	-	X	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
167800 TBX-2-2402-21 ELBOW TO PIPE R100A869SB	C-F-2 C5.51	UT	1	-	-	-	-	-	-	X	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
167900 TBX-2-2402-22 PIPE TO ELBOW R100A865SB	C-F-2 C5.51	UT	1	-	-	-	-	-	-	X	-	-	88	TDLR VERIFICATION BOUNDARY.  **TBX-35**
168000 TBX-2-2402-23 ELBOW TO PIPE R100A864SB	C-F-2 C5.51	UT	1	-	-	-	-	-	-	X	-	-	82	TDLR VERIFICATION BOUNDARY.  **TBX-35**
168100 TBX-2-2402-24 PIPE TO ELBOW R100A864SB	C-F-2 C5.51	UT	1	-	-	-	-	-	-	X	-	-	82	TDLR VERIFICATION BOUNDARY.  **TBX-35**

HIGH ENERGY LINE BREAK UNIT 1  
 INSERVICE INSPECTION LONG TERM PLAN  
 CLASS 2 SCHEDULED COMPONENTS

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

FEEDWATER 6-FW-1-09B-1303-2

168200	TBX-2-2402-25 ELBOW TO PIPE R100AB64SB	C-F-2 UT CS.51	1	-	-	-	-	-	X	-	-	82	TDLR VERIFICATION BOUNDARY.
			2	-	-	-	-	-	-	-	-		
			3	-	-	-	-	-	-	-	-		
			4	-	-	-	-	-	-	-	-		**TBX-35**
168300	TBX-2-2402-26 PIPE TO PIPE R100AB64SB	C-F-2 UT CS.51	1	-	-	-	-	-	X	-	-	82	TDLR VERIFICATION BOUNDARY.
			2	-	-	-	-	-	-	-	-		
			3	-	-	-	-	-	-	-	-		
			4	-	-	-	-	-	-	-	-		**TBX-35**

<u>Discussion</u>	8
Refer to Appendix 1A(B).	8
<u>Regulatory Guide 1.145</u>	8
Atmospheric Dispersion Models for Potential Accident Consequence Assessments at Nuclear Power Plants	8
<u>Discussion</u>	8
Refer to Appendix 1A(B).	8
<u>Regulatory Guide 1.146</u>	14
Qualification of Quality Assurance Program Audit Personnel for Nuclear Power Plants	14
<u>Discussion</u>	14
Refer to Appendix 1A(B).	14
<u>Regulatory Guide 1.150</u>	46
Ultrasonic Testing of Reactor Vessel Welds During Preservice and Inservice Examinations	46
<u>Discussion</u>	46
The CPSES position on Revision 1 (2/83) of this guide is as follows:	46
Preservice Inspection	46
A partial R.G. 1.150 inspection was performed on Units 1 and 2 reactor vessels in accordance with Reference [21].	46





**Westinghouse  
Nuclear  
Service  
Division**

— Enclosure 3 to TXX-92030

**Technical Bulletin**



An advisory notice of a recent technical development pertaining to the installation or operation of Westinghouse-supplied Nuclear Plant equipment. Recipients should evaluate the information and recommendation, and initiate action where appropriate.

P.O. Box 2728, Pittsburgh, PA 15230

Subject	Reactor Coolant Pump Thermal Barrier	Number	NSD-TB-75-1
System(s)	Reactor Coolant	Date	1/31/75
Affected Plants	All (Construction and Operating)	S.O.(s)	125
References	J. A. Fickling ltr. dtd. 12/27/74 (partially quoted below)	Sheet	1 Of 1

The reactor coolant pump manufacturer (Westinghouse Electro-Mechanical Division) has advised that the maximum allowable thermal barrier heat exchanger internal (component cooling water side) field hydrostatic test pressure is 225 psi.

"Although we recognize the necessity of testing the adjacent system to high pressures, we must point out that there is no specified or known operating condition where the cooling water pressure inside of the thermal barrier can be more than 150 psi. In fact, for all acceptable pump operating modes, the primary system pressure is greater than the cooling water pressure. For this reason, the thermal barrier heat exchanger is designed for high differential pressures in the direction opposite from that which is imposed by a cooling water side hydro test. To meet conditions which could exist in the event of a heat exchanger leak inside of the pump, the external connections of the heat exchanger are treated as parts of the primary system pressure boundary and are designed for 2500 psi internal pressure in accordance with the ASME Code and subjected to a shop hydro at the appropriate pressure (3750 to 4100 psi depending on the applicable ASME Code Addenda)."

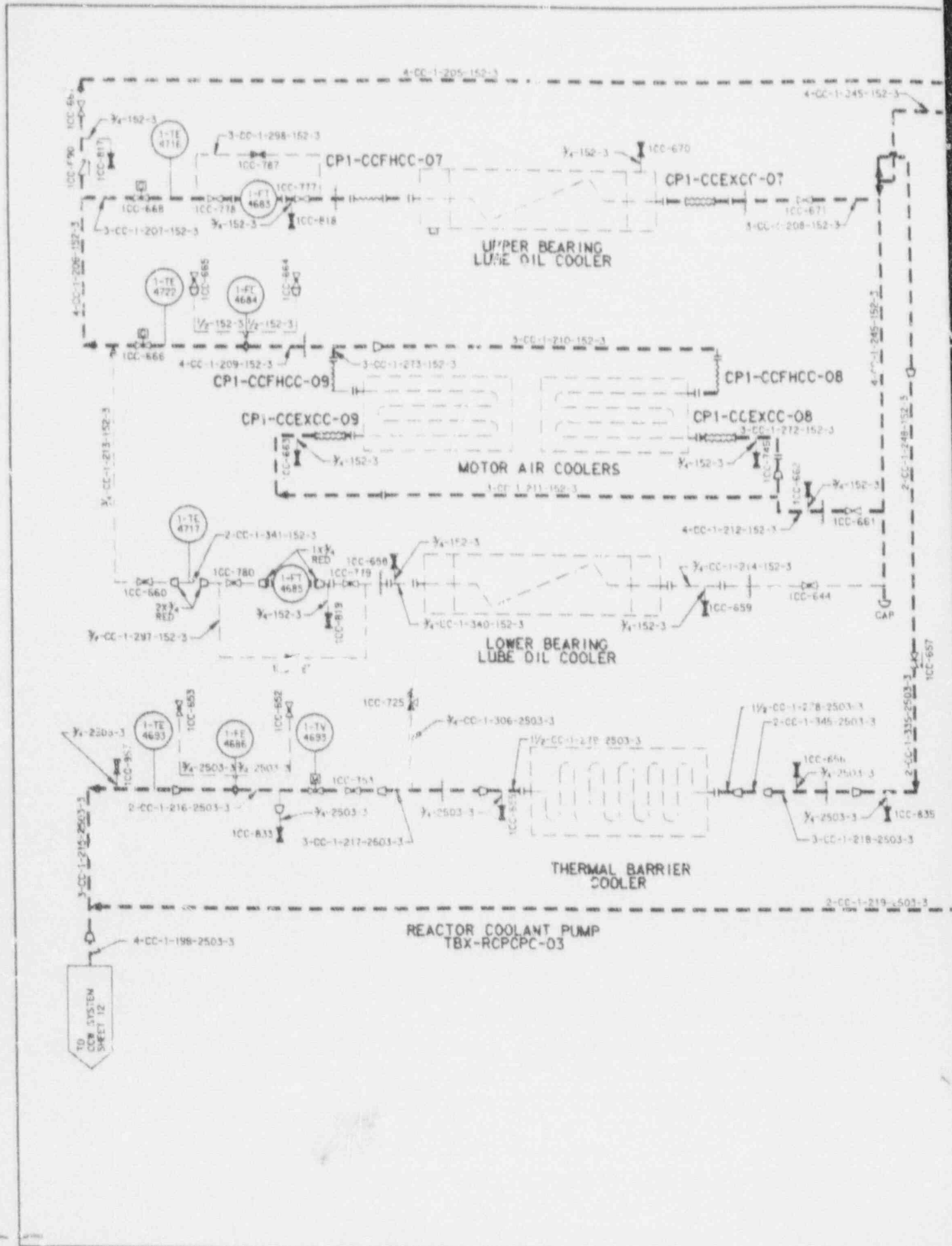
Thus, "Hydrostatic testing of components in the attached cooling system to higher pressures should be performed only with the heat exchanger isolated or disconnected and bypassed"

Additional Information, If Required, may be Obtained from the Originator. Telephone 412 - 256-4646 or (WNI) 236 -4646

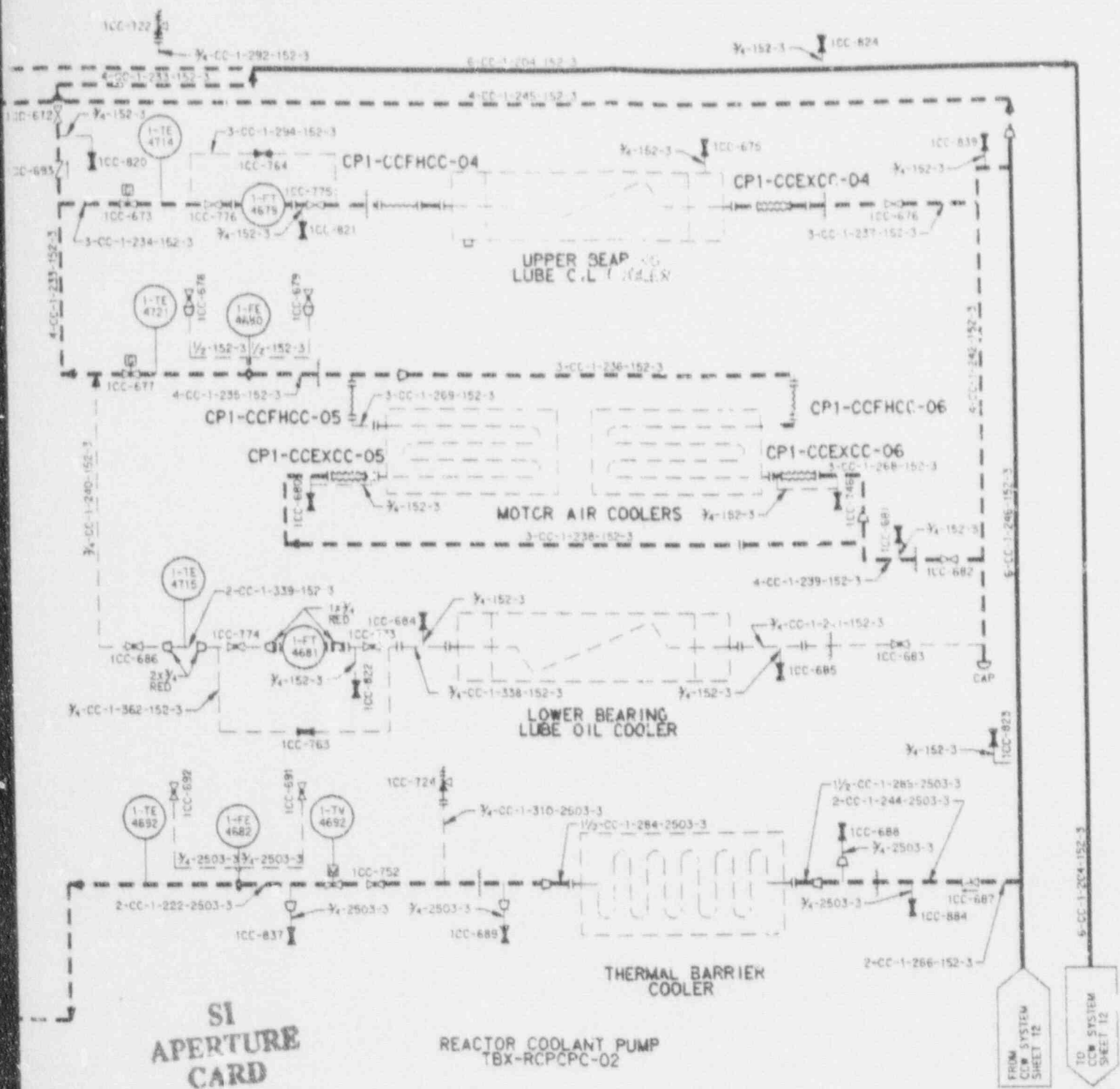
*V. W. Doust*  
Originator  
\_\_\_\_\_  
V. W. Doust  
\_\_\_\_\_  
Mechanical Technology  
\_\_\_\_\_

*F. C. Wellhofer*  
Approver  
\_\_\_\_\_  
F. C. Wellhofer, Manager  
\_\_\_\_\_  
Mechanical Technology  
\_\_\_\_\_

Neither Westinghouse Electric Corporation nor its employees make any warranty or representation with respect to the accuracy, completeness or usefulness of the information contained in this report or assume any responsibility for liability or damage which may result from the use of such information.



TO  
CON. SYSTEM  
SHEET 12

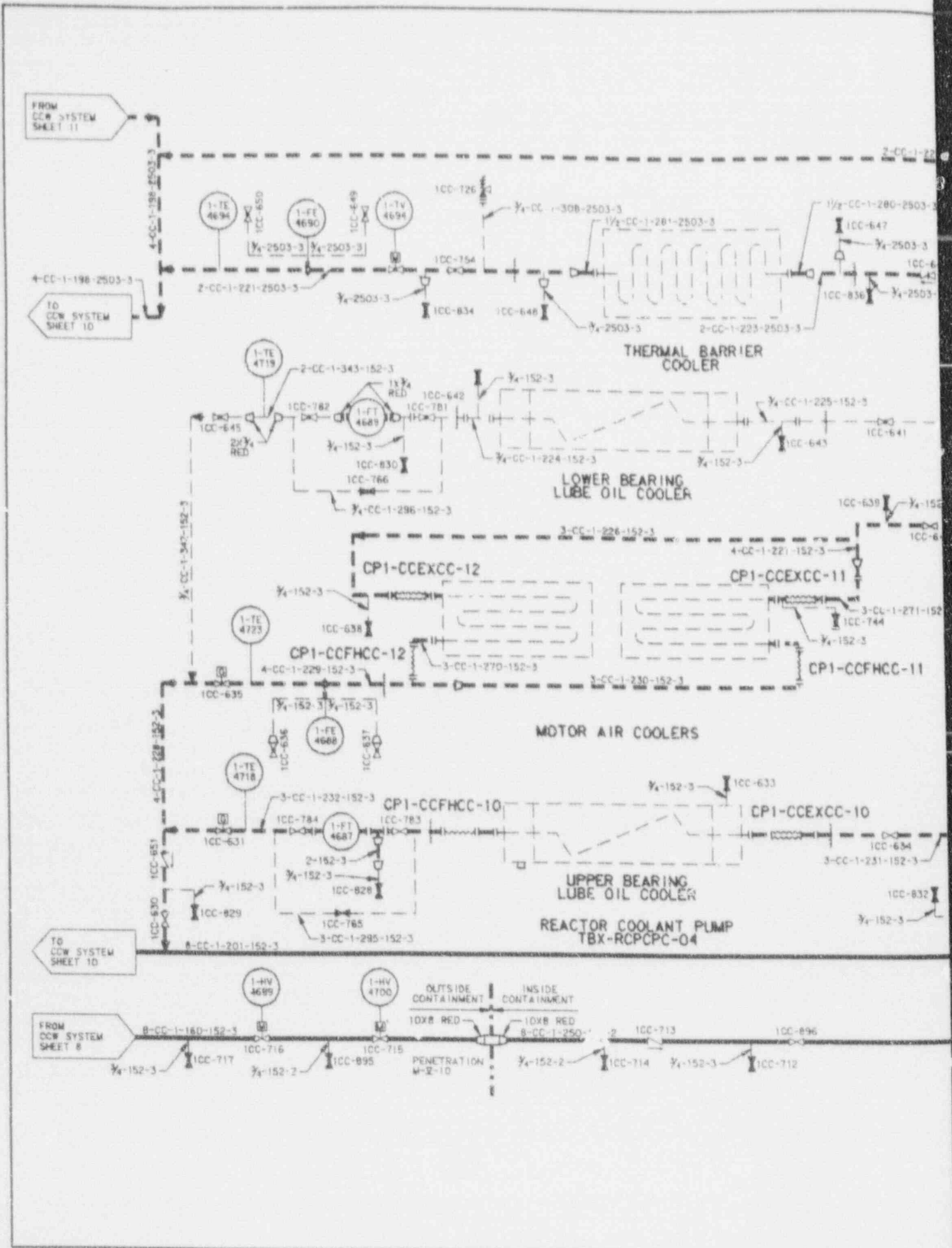


Also Available On  
Aperture Card

REACTOR COOLANT PUMP  
TBX-RCPCPC-02

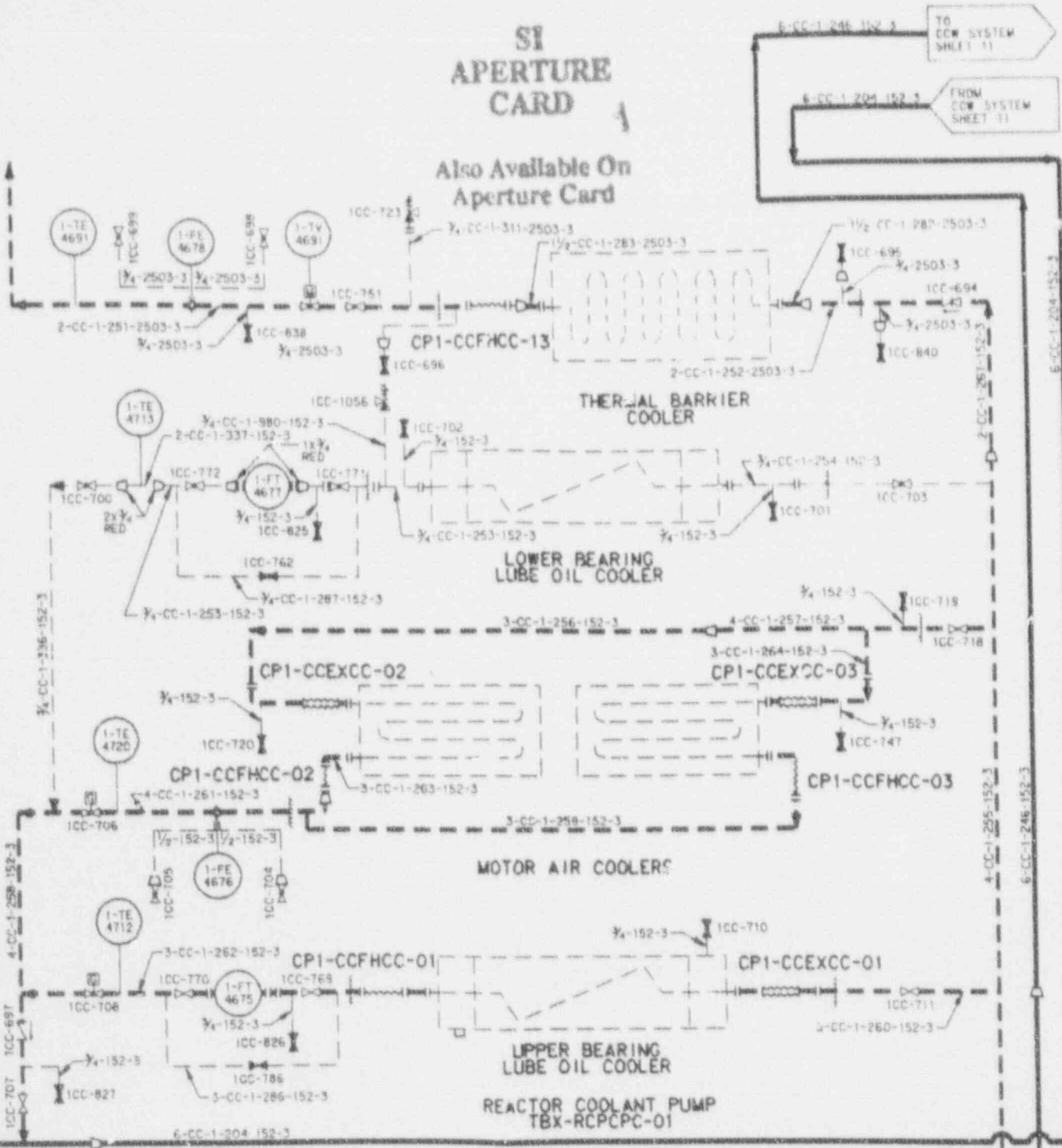
ILLUSTRATIVE USE ONLY THIS DIAGRAM DEVELOPED FROM FLOW DIAGRAM M1-0231-A REV CP-2
TU ELECTRIC CPSES UNIT 1
INSERVICE INSPECTION BOUNDARY DIAGRAM
COMPONENT COOLING WATER SYSTEM SHEET 11 OF 12

9201290210-01



# SI APERTURE CARD

Also Available On Aperture Card



ILLUSTRATIVE USE ONLY

THIS DIAGRAM DEVELOPED FROM FLOW DIAGRAM M1-0231 SH A REV. CP-2

TU ELECTRIC  
CPSES UNIT 1

INSERVICE INSPECTION  
BOUNDARY DIAGRAM

COMPONENT COOLING  
WATER SYSTEM  
SHEET 12 OF 12

9201290210-02