



TU ELECTRIC

Log # TXX-97014  
File # 10010.1  
905.2 (clo)  
Ref. # 10CFR50.55a(g)(5)(iii)

February 7, 1997

C. Lance Terry  
Group Vice President

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

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION (CPSES) - UNIT 1  
DOCKET NO. 50-445  
RELIEF REQUESTS TO THE UNIT 1 INSERVICE INSPECTION PROGRAM  
(1986 EDITION OF ASME CODE, SECTION XI, NO ADDENDA,  
INTERVAL START DATE: AUGUST 13, 1990, FIRST INTERVAL)

REF: 1) NUREG-1482, "Guidelines for Inservice Testing at Nuclear  
Power Plants," April 1995

TU Electric has determined that certain inspection requirements of Section XI of the ASME are impractical, and is requesting relief in accordance with the requirements of 10CFR50.55a(g)(5)(iii). This request is consistent with the guidelines of NUREG-1482 (Reference 1). This transmittal submits relief requests B-9, B-10, and B-11 (Attachments 1, 2, and 3 respectively) for your approval.

If you have any questions, please contact Mr. Carl B. Corbin at  
(817) 998-0121.

Sincerely,

C. L. Terry

By:

D. R. Woodlan  
Docket Licensing Manager

CBC:cc  
Attachments

c - Mr. L. J. Callan, Region IV  
Mr. J. I. Tapia, Region IV (clo)  
Mr. T. J. Polich, NRR  
Mr. G. Bynog, TDLR  
Resident Inspectors, CPSES

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PDR ADOCK 05000445  
PDR

A047  
1/1

**RELIEF REQUEST**  
**B-9**

- A. Item(s) for which relief is requested:

TBX-1-2100-11, 12, 13, 14, 15, 16  
Pressurizer Nozzle to Vessel Welds

- B. Item(s) Code Class:

1

- C. Examination requirement from which relief is requested:

The requirement for volumetric examination of 100% of the weld length as described in Table IWB-2500-1, Examination Category B-D, Item No. B3.110.

- D. Basis for relief:

The specific examination area geometries of these nozzle to vessel welds preclude the complete ultrasonic examinations of the volume required by Fig. IWB-2500-7. Approximately 26% of each of TBX-1-2100-12, 13, 14, 15, 16, the spray, safety and relief nozzle welds, did not receive the full code required coverage. Additional pressurizer heater interferences resulted in approximately 48% of TBX-1-2100-11, the surge nozzle weld, not receiving the full code required coverage. See pages 2 through 9 for weld location and examination area configuration.

Best effort examinations consisting of two separate angel beams were performed. Full circumferential scan and 0 degree straight beam coverage was obtained for all of the subject welds and required base metal areas. Axial scan coverage was achieved in at least one beam path direction with two different beam angles for 93% of each of the spray, safety and relief nozzle welds and for 65% of the surge nozzle weld. Axial scan coverage was achieved in at least one beam path direction with one beam angle for the 96% of each of the spray, safety and relief nozzle welds and for 80% of the surge nozzle weld.

There were no recordable indications identified by the best effort examinations performed.

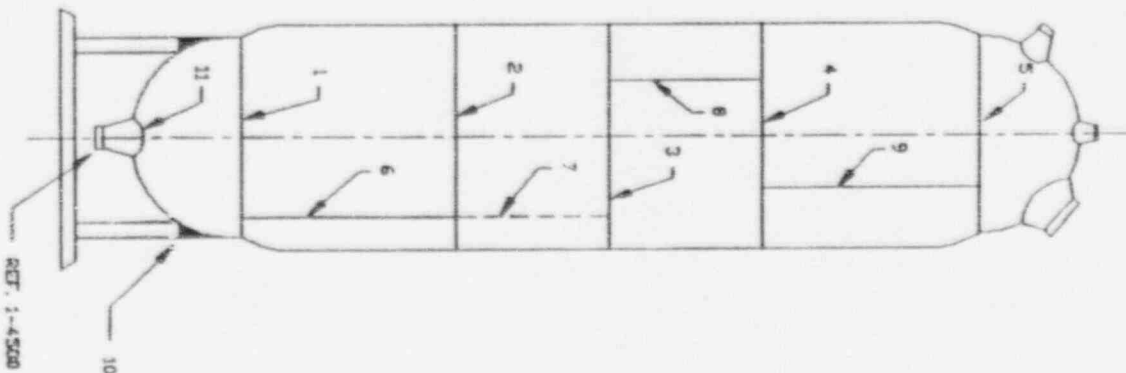
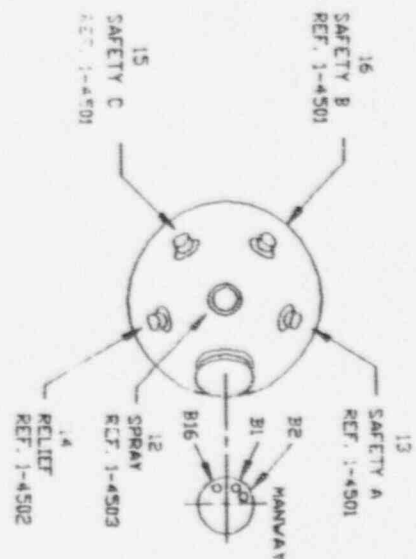
- E. Alternate examinations:

None

- F. Anticipated impact on the overall level of plant quality and safety:

None

Relief Request B-9 page 2 of 9



ILLUSTRATIVE ONLY

NOTES: (TOP HEAD) 2.0"/SA-533  
(BOTTOM HEAD) 2.55"/SA-533  
(SHELL) 4.0"/SA-533  
(SUPPORT SKIRT) 1.5"/SA-516  
(BOLTING) 1.875"DIA./16.11"LENGTH

DESCRIPTION: PRESSURIZER

T/SCH.

BRP.

FLOW.

TU ELECTRIC  
CPSES UNIT 1

INSERVICE INSPECTION  
LOCATION ISOMETRIC

TX-1-2100

REV.2

1-13-95

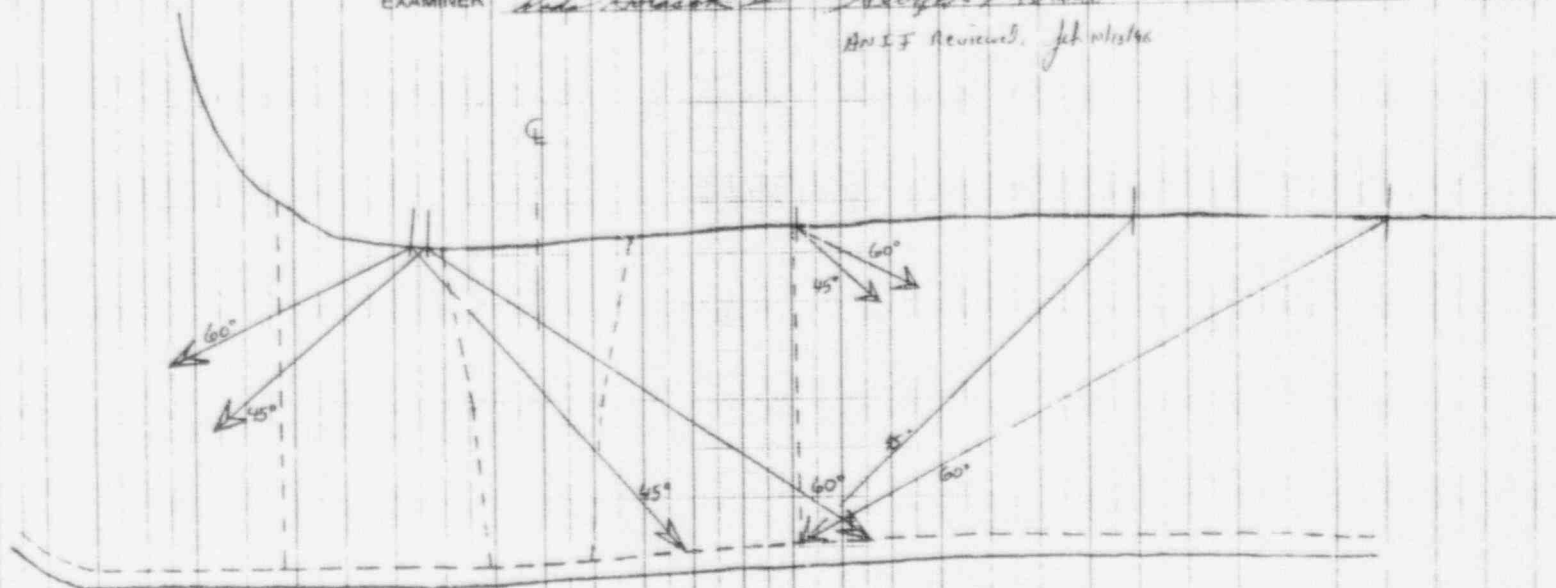
APPROVAL: *RB Mays* *RS Mays* 2-13-95

WESTINGHOUSE NUCLEAR SERVICE DIVISION  
INSPECTION SERVICES

**LIMITATION AND WELD PROFILE EXAMINATION DATA**

PLANT COMANCHE PEAK UNIT 1 SKETCH TBX-1-2100 Rev 2  
 SYST ICOMP PRESSURIZER WELD IDENT 12 RELATED TO UT PROCEDURE TX-IST-210 Rev 3  
 EXAMINER John P. Harkins II George A. Harkins DATE 10-14-96

ANIS Reviewed, JPH 10/15/96



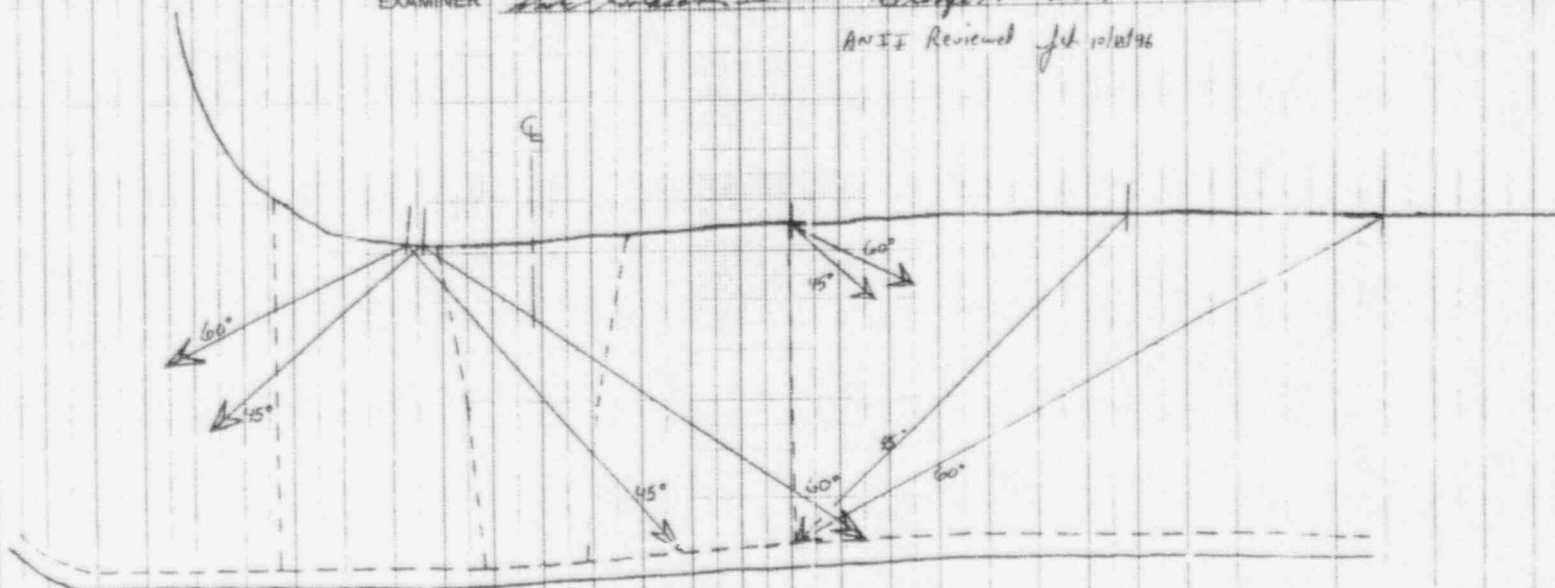
<u>26</u>	% REQUIRED EXAMINATION VOLUME NOT COVERED
<u>93</u>	% REQUIRED EXAMINATION VOLUME COVERED IN AT LEAST ONE BEAM PATH DIRECTION WITH TWO DIFFERENT BEAM ANGLES
<u>96</u>	% REQUIRED EXAMINATION VOLUME COVERED IN AT LEAST ONE BEAM PATH DIRECTION WITH ONE BEAM ANGLE

WESTINGHOUSE NUCLEAR SERVICE DIVISION  
INSPECTION SERVICES

LIMITATION AND WELD PROFILE EXAMINATION DATA

PLANT COMANCHE PEAK UNIT 1 SKETCH TBX-1-2100 Rev 2  
SYST/COMP. PRESSURIZER WELD IDENT 13 RELATED TO UT PROCEDURE TX-ISI-210 Rev 3  
EXAMINER Paul J. Hackett, III George D. Brown DATE 10-14-96

ANII Reviewed for 10/18/96



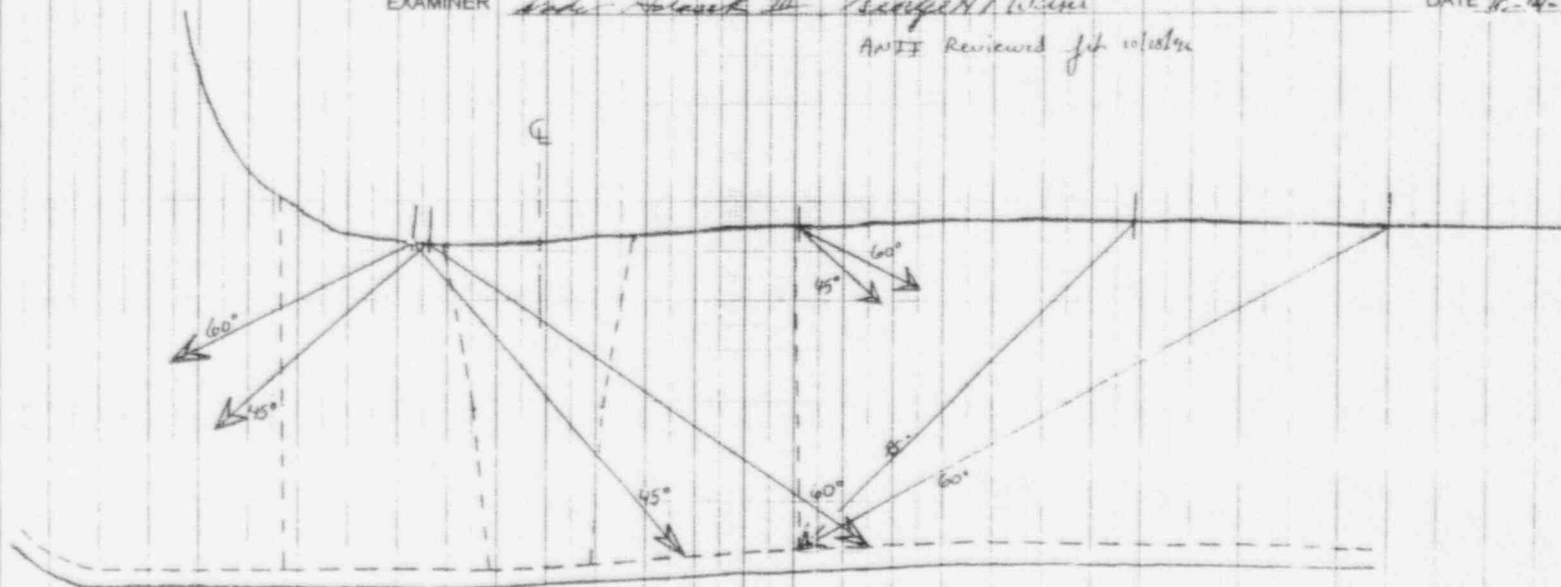
26	% REQUIRED EXAMINATION VOLUME NOT COVERED
93	% REQUIRED EXAMINATION VOLUME COVERED IN AT LEAST ONE BEAM PATH DIRECTION WITH TWO DIFFERENT BEAM ANGLES
96	% REQUIRED EXAMINATION VOLUME COVERED IN AT LEAST ONE BEAM PATH DIRECTION WITH ONE BEAM ANGLE

WESTINGHOUSE NUCLEAR SERVICE DIVISION  
INSPECTION SERVICES

LIMITATION AND WELD PROFILE EXAMINATION DATA

PLANT COMANCHE PEAK UNIT 1 SKETCH TBX-1-2100 Rev 2  
SYST COMP PRESSURIZER WELD IDENT 14 RELATED TO UT PROCEDURE TX-ISI-210 Rev 3  
EXAMINER John H. Harkins III George H. Harkins DATE 11-14-96

APR reviewed for volume



26

% REQUIRED EXAMINATION VOLUME NOT COVERED

93

% REQUIRED EXAMINATION VOLUME COVERED IN AT LEAST ONE BEAM PATH DIRECTION WITH TWO DIFFERENT BEAM ANGLES

96

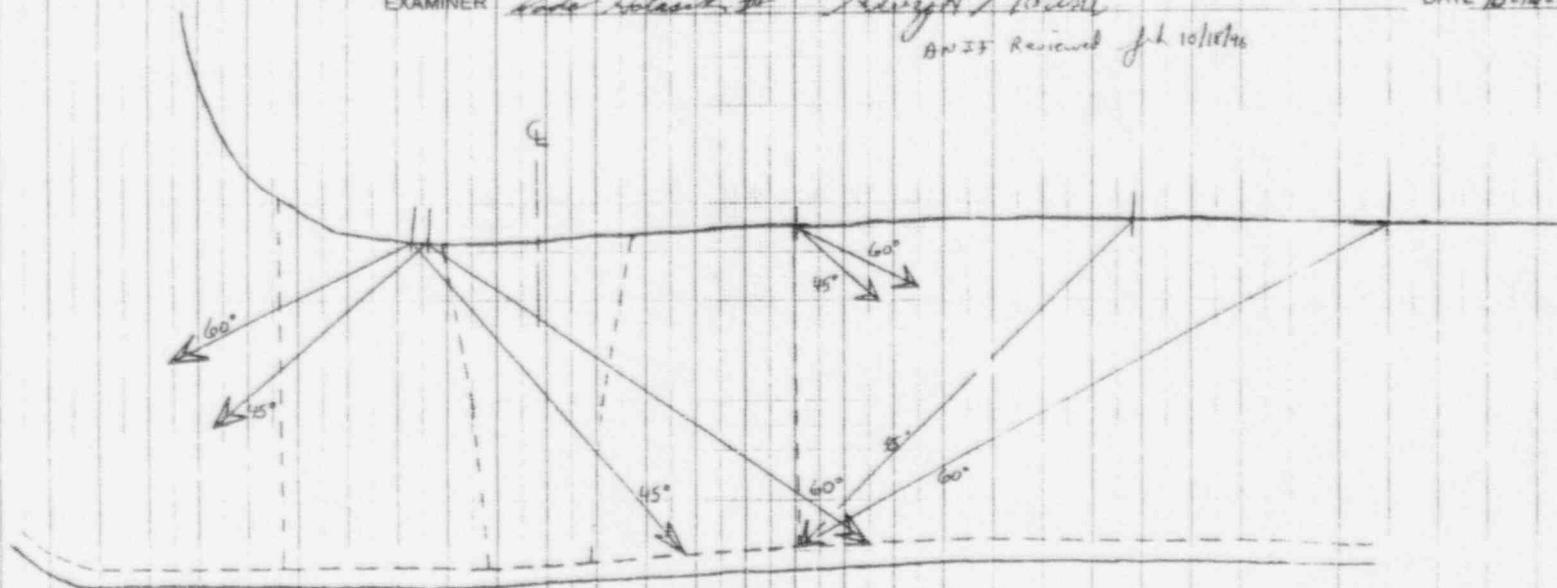
% REQUIRED EXAMINATION VOLUME COVERED IN AT LEAST ONE BEAM PATH DIRECTION WITH ONE BEAM ANGLE

WESTINGHOUSE NUCLEAR SERVICE DIVISION  
INSPECTION SERVICES

LIMITATION AND WELD PROFILE EXAMINATION DATA

PLANT COMANCHE PEAK UNIT 1 SKETCH TBX-1-2100 Rev 2  
SYST/COMP PRESSURIZER WELD IDENT 15 RELATED TO UT PROCEDURE TX-251-210 Rev 3  
EXAMINER Zade Holcomb Barry A. Moring DATE 10-14-96

ANZF Reviewed for 10/18/96



26	% REQUIRED EXAMINATION VOLUME NOT COVERED
93	% REQUIRED EXAMINATION VOLUME COVERED IN AT LEAST ONE BEAM PATH DIRECTION WITH TWO DIFFERENT BEAM ANGLES
96	% REQUIRED EXAMINATION VOLUME COVERED IN AT LEAST ONE BEAM PATH DIRECTION WITH ONE BEAM ANGLE

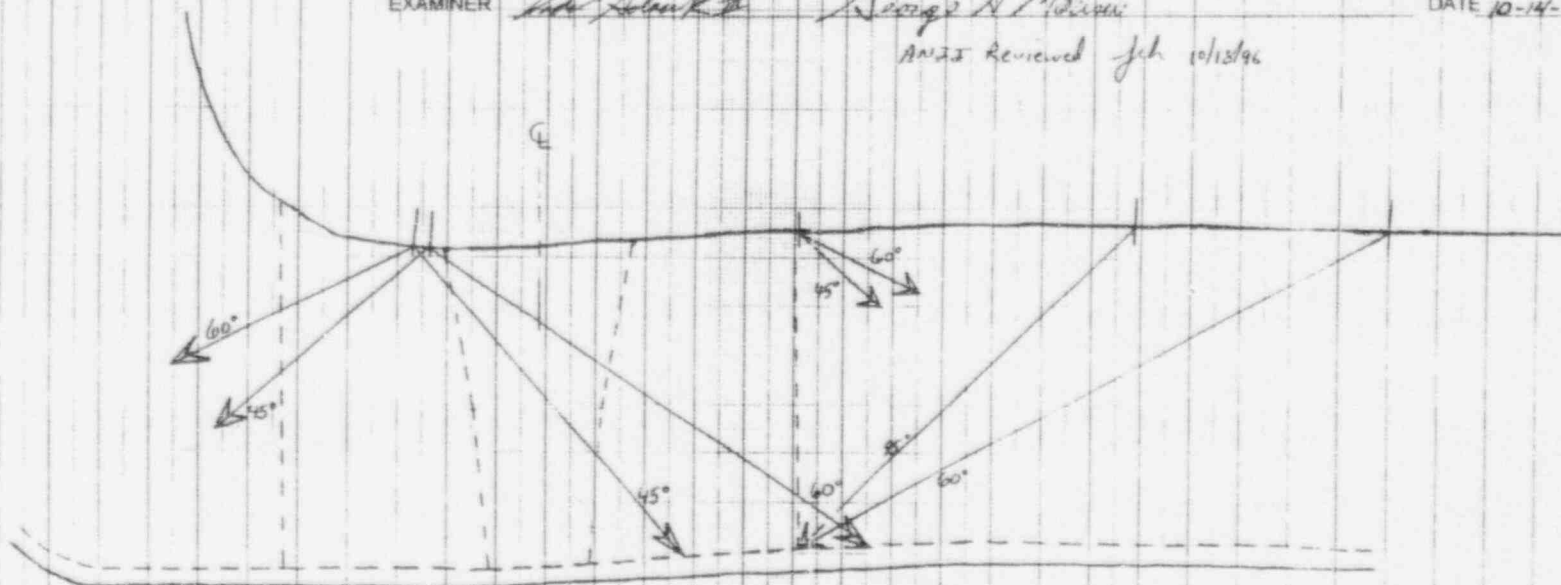


WESTINGHOUSE NUCLEAR SERVICE DIVISION  
INSPECTION SERVICES

LIMITATION AND WELD PROFILE EXAMINATION DATA

PLANT COMANCHE PEAK UNIT 1 SPEC. TBX-1-2100 Rev 2  
 SYST. COMP. PRESSURIZER WELD IDENT. 16 RELATED TO UT PROCEDURE Tx-IST-210 Rev 3  
 EXAMINER John Holmbeck George A. Horgan DATE 10-14-96

ANZI Reviewed feh 10/15/96



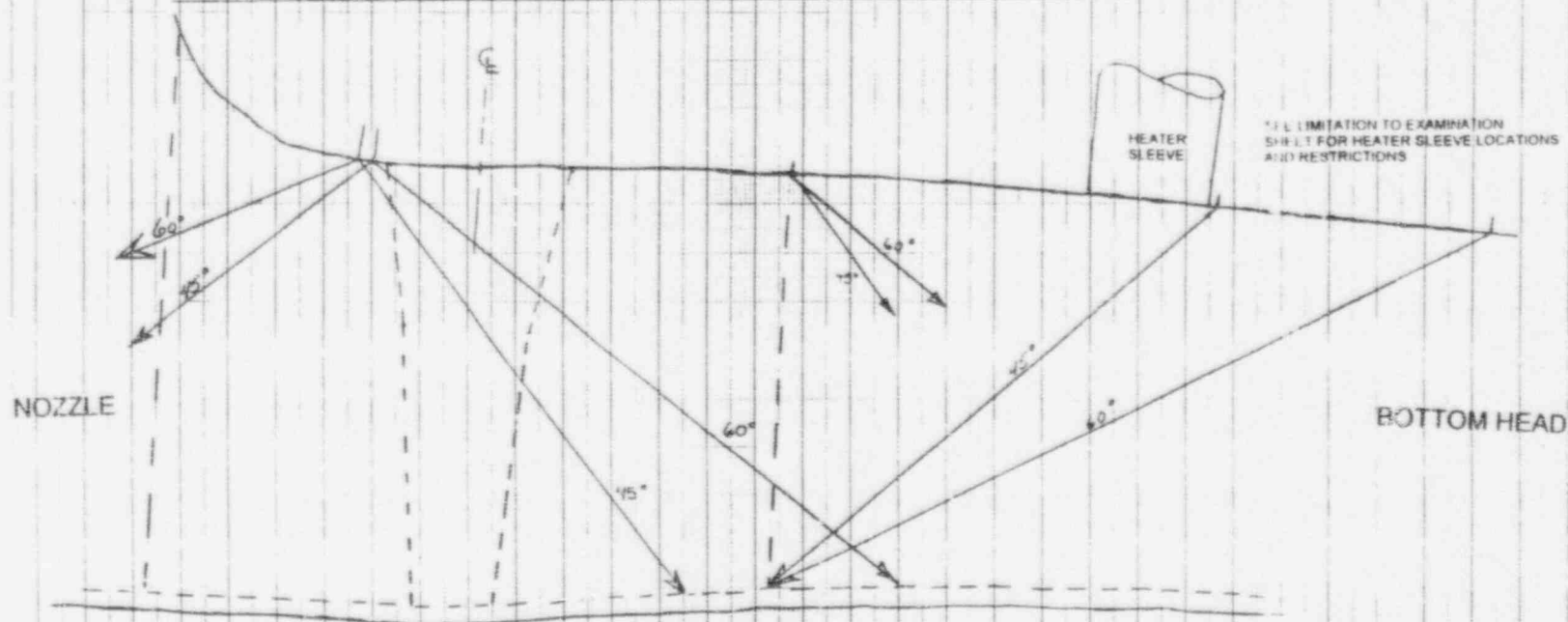
<u>26</u>	% REQUIRED EXAMINATION VOLUME NOT COVERED.
<u>93</u>	% REQUIRED EXAMINATION VOLUME COVERED IN AT LEAST ONE BEAM PATH DIRECTION WITH TWO DIFFERENT BEAM ANGLES.
<u>96</u>	% REQUIRED EXAMINATION VOLUME COVERED IN AT LEAST ONE BEAM PATH DIRECTION WITH ONE BEAM ANGLE.



WESTINGHOUSE NUCLEAR SERVICE DIVISION  
INSPECTION SERVICES

LIMITATION AND WELD PROFILE EXAMINATION DATA

PLANT	COMANCHE PEAK	UNIT	1	SKETCH	TBX-1 2100 REV 2
SYSTEM/COMPONENT	PRESSURIZER	WELD IDENTITY	11	RELATED TO	UT
EXAMINER	Paul S. Blecker				DATE 10-27-96
					PROCEDURE TX-ISI-210 REV 3



WELD CONFIGURATION LIMITS ALL SCANS, HEATER SLEEVE LIMITS 5 SCAN.

- 48 % REQUIRED EXAMINATION VOLUME NOT COVERED.
- 55 % REQUIRED EXAMINATION VOLUME COVERED IN AT LEAST ONE BEAM PATH DIRECTIN WITH TWO DIFFERENT BEAM ANGLES.
- 60 % REQUIRED EXAMINATION VOLUME COVERED IN AT LEAST ONE BEAM PATH DIRECTIN WITH ONE BEAM ANGLE.

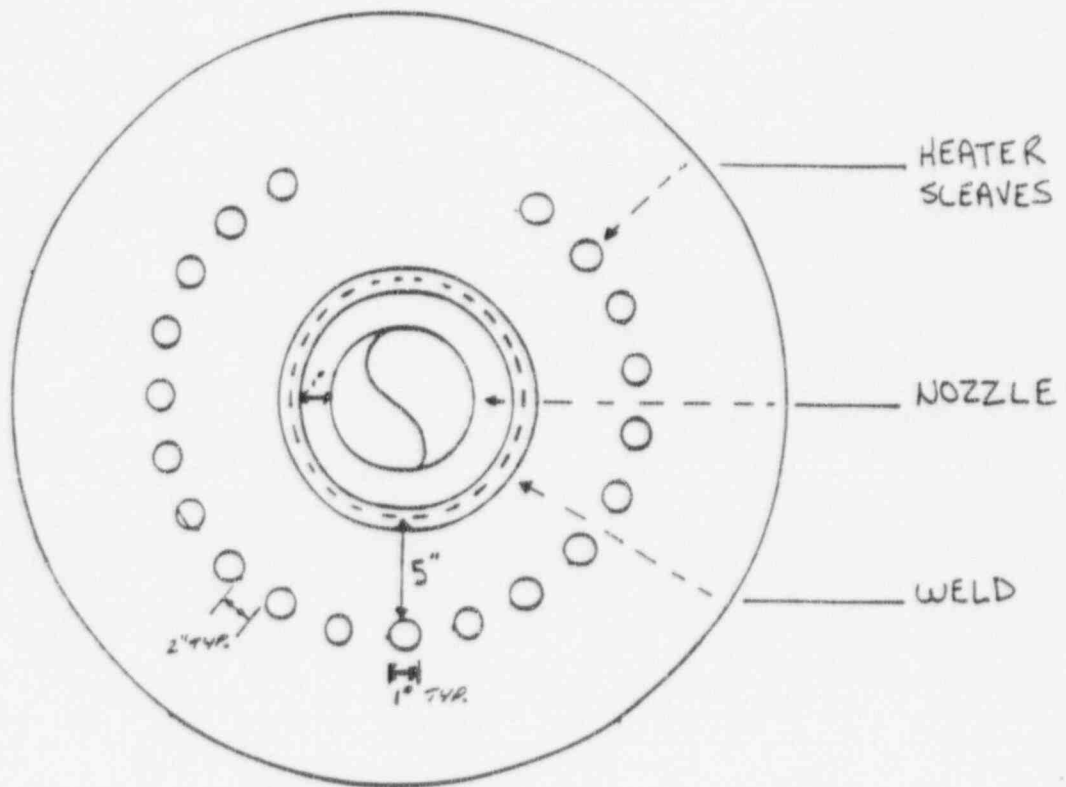
Amly Reviewed jfk 10/28/96

Relief Request B-9 page 8 of 9

## LIMITATION TO EXAMINATION

PLANT COMANCHE PEAK UNIT 1 SKETCH TBX-1-2100 REV.2SYST./COMP. PRESSURIZER PROCEDURE TX-ISI-210 REV 3EXAMINER Paul S Blecker DATE 10-27-96RELATED TO: UT X PT        MT        VT        IDENT. NO. 11

PROVIDE GENERAL INFORMATION TO DESCRIBE APPROXIMATE SIZE, LOCATION AND TYPE OF LIMITATION.



SEE LIMITATION AND WELD PROFILE EXAMINATION DATA SHEET FOR SUMMARY OF LIMITATIONS

ANI= Reviewed Feb 10/30/96

**RELIEF REQUEST  
B-10**

- A. Item(s) for which relief is requested:

TBX-1-4104-1  
Branch Pipe Connection Weld

- B. Item(s) Code Class:

1

- C. Examination requirement from which relief is requested:

The requirement for volumetric examination of 100% of the weld length as described in Table IWB-2500-1, Examination Category B-J, Item No. B9.31.

- D. Basis for relief:

The specific examination area geometry of this pipe to branch connection weld precludes the complete ultrasonic examination of the volume required by Fig. IWB-2500-10. Approximately 23% of the examination volume did not receive the full code required coverage.

A best effort examination was performed. Full circumferential scan coverage was obtained. Axial scan coverage was achieved in one beam path direction with at least one beam angle for 100% of the examination volume (see pages 2 & 3).

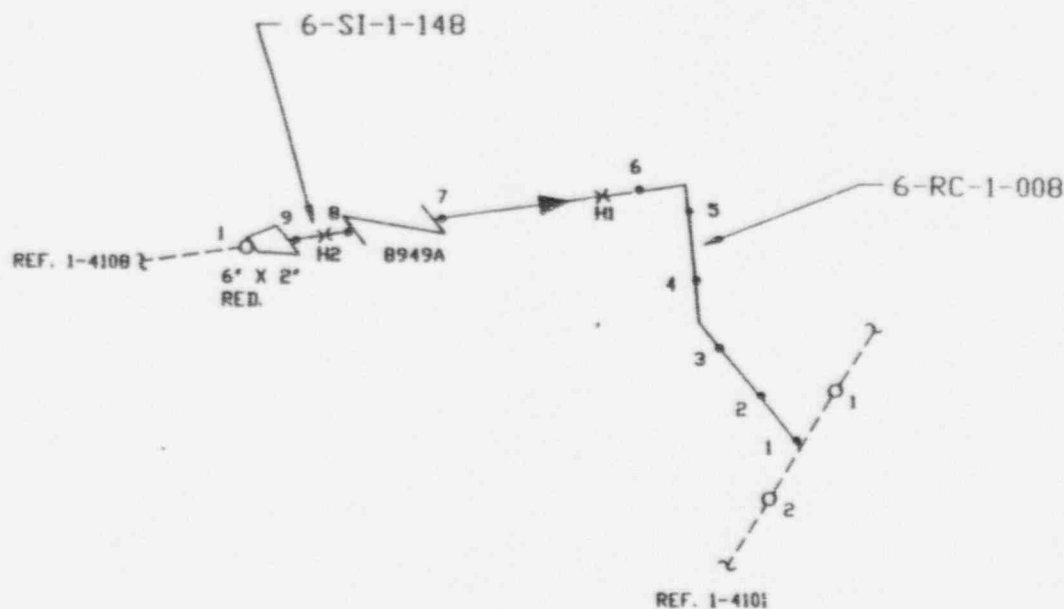
There were no recordable indications identified by the best effort volumetric examination or by the required surface examination performed.

- E. Alternate examinations:

None

- F. Anticipated impact on the overall level of plant quality and safety:

None



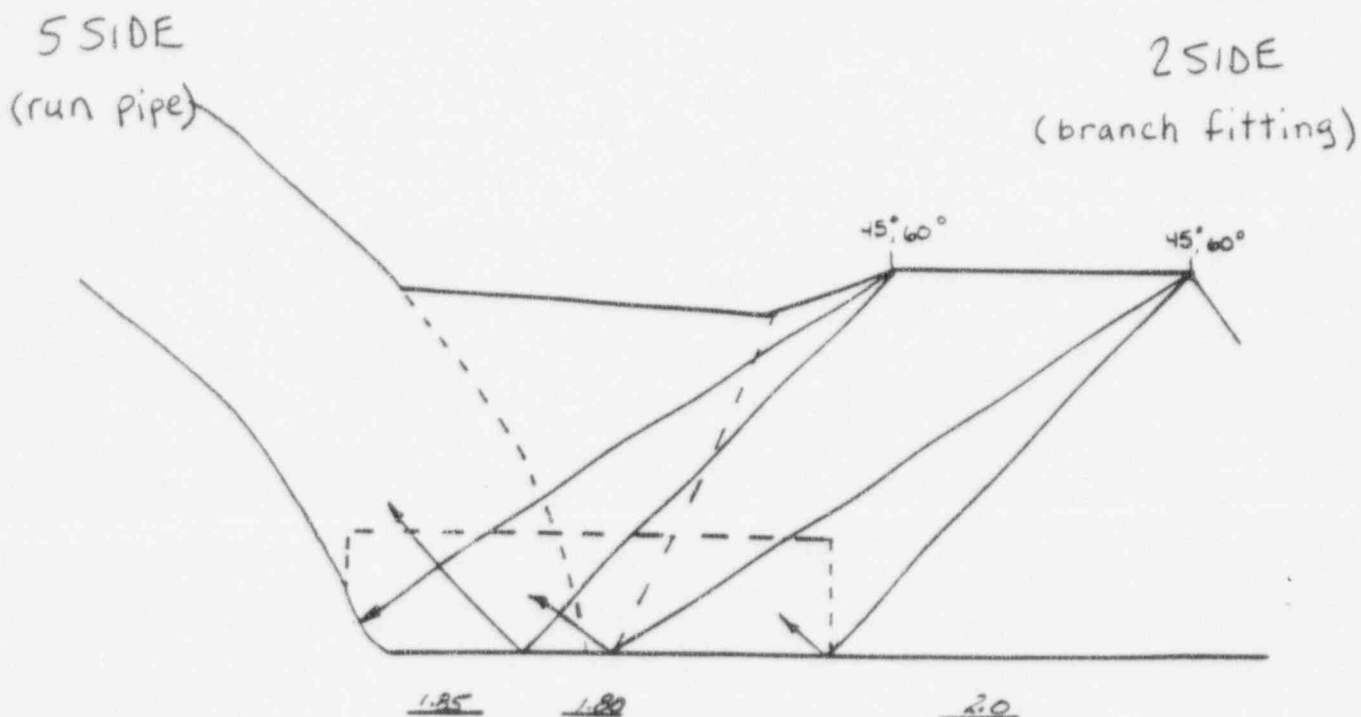
ILLUSTRATIVE ONLY

NOTES:	DESCRIPTION: SAFETY INJECTION	TU ELECTRIC		
	T/SCH: .719"/160	CPSES UNIT 1		
	BRP: RC-1-RB-05 , SI-1-RB-14	INSERVICE INSPECTION		
		LOCATION ISOMETRIC		
APPROVAL: <i>B. J. M. B.</i> 7-23-90	FLOW: MI-0263	TBX 1-4104	REV.1	7-23-90

## LIMITATION TO EXAMINATION

PLANT COMANCHE PEAK UNIT 1 SKETCH TBX-1-4104 REV 1SYST./COMP. SAFETY INJECTION PROCEDURE TX-ISI-214 REV. 1EXAMINER Paul S Blecker DATE 10-27-96RELATED TO: UT X PT      MT      VT      IDENT. NO. 1

PROVIDE GENERAL INFORMATION TO DESCRIBE APPROXIMATE SIZE, LOCATION AND TYPE OF LIMITATION



23% OF THE REQUIRED EXAMINATION VOLUME IS NOT COVERED IN 2 BEAM PATH DIRECTIONS

100% OF THE REQUIRED EXAMINATION VOLUME IS COVERED IN AT LEAST 1 BEAM PATH DIRECTION

ANIE reviewed fth 11/1/96

**RELIEF REQUEST  
B-11**

- A. Item(s) for which relief is requested:

TBX-1-4201-7  
Circumferential Piping Weld

- B. Item(s) Code Class:

1

- C. Examination requirement from which relief is requested:

The requirement for volumetric and surface examination of 100% of the weld length as described in Table IWB-2500-1, Examination Category B-J, Item No. B9.11.

- D. Basis for relief:

The specific pipe to valve examination geometry and interferences from reactor building structural steel members preclude the complete ultrasonic and liquid penetrant examinations of the volume and the surface area required by Fig. IWB-2500-8. Approximately 70% of the volume and 48% of the surface area did not receive the full code required coverage. See pages 2 through 4 for weld location and examination area configuration.

Best effort examinations were performed for the accessible areas of the weld. There were no recordable indications identified by the best effort volumetric or surface examinations performed.

- E. Alternate examinations:

None - however, welds at this same location in loops 1, 3 and 4 are included in the ISI Plan and are scheduled for examination during this interval.

- F. Anticipated impact on the overall level of plant quality and safety:

None





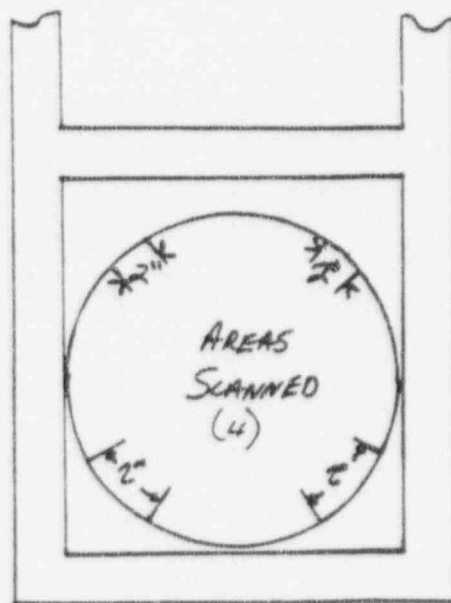
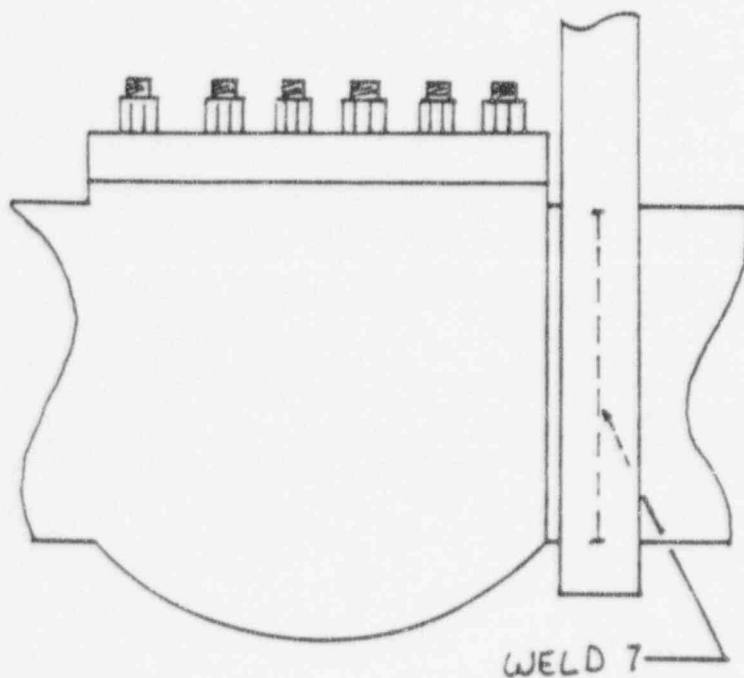
Relief Request B-11 page 3 of 4

LIMITATION TO EXAMINATION

PLANT COMANCHE PEAK UNIT 1 SKETCH TEX-1-4201 REV 1  
SYST./COMP. ACCUMULATOR DISCHARGE PROCEDURE TX-ISI-214 REV. 1  
EXAMINER *CEB/ast* DATE 10-17-96

RELATED TO: UT X PT        MT        VT        IDENT. NO. 7

PROVIDE GENERAL INFORMATION TO DESCRIBE APPROXIMATE SIZE, LOCATION AND TYPE OF LIMITATION.



SUPPORT RESTRICTS ALL SCANS FOR UT.

70% NOT COVERED UT.

ART *let 10/18/96*

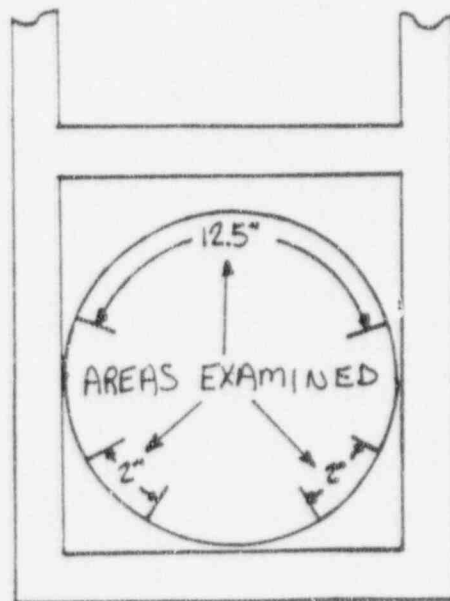
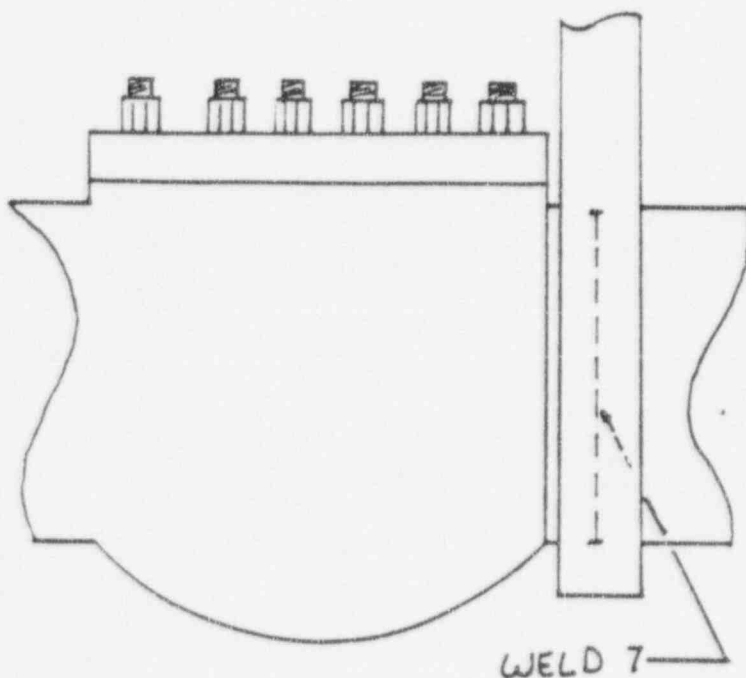
Relief Request B-11 page 4 of 4

### LIMITATION TO EXAMINATION

PLANT COMANCHE PEAK UNIT 1 SKETCH TBX-1-4201 REV 1  
SYST./COMP. ACCUMULATOR DISCHARGE PROCEDURE TX-ISI-11 REV 6  
EXAMINER Paul S Blecha DATE 10-17-96

RELATED TO: UT      PT X MT      VT      IDENT. NO. 7

PROVIDE GENERAL INFORMATION TO DESCRIBE APPROXIMATE SIZE, LOCATION AND TYPE OF LIMITATION.



SUPPORT RESTRICTS ACCESSIBILITY FOR PT EXAM.

48% NOT COVERED.

AWI reviewed *feh* 10/25/96