



TXU Electric  
Comanche Peak  
Steam Electric Station  
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C. Lance Terry  
Senior Vice President & Principal Nuclear Officer

Ref. #10CFR50.55a(g)(5)(iii)

CPSES-200101469  
Log # TXX-01110  
File # 10010.1  
905.2 (clo)

June 22, 2001

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  
REVISED RELIEF REQUESTS FOR UNIT 2 INSERVICE  
INSPECTION PROGRAM  
(1986 EDITION OF ASME CODE, SECTION XI, NO ADDENDA;  
UNIT 2 INTERVAL DATES: AUGUST 3, 1993 - AUGUST 3, 2003,  
FIRST INTERVAL)

REF: 1) TXU Electric Letter, logged TXX-01024, from Mr. C. L. Terry  
To the NRC dated February 2, 2001

Gentlemen:

TXU Electric has concluded that conformance with certain ASME Code requirements as specified in the attachment to this letter are impractical for Comanche Peak Steam Electric Station Unit 2. Pursuant to 10 CFR 50.55a(g)(5)(iii) TXU Electric requested relief from the Code requirements via Reference 1. During the Review of Reference 1, NRC staff determined that additional information was required. This transmittal submits the revised relief requests B-1 Revision 1, B-5 Revision 1 and C-5 (Attachments 1 through 3 respectively) for your approval.

Please refer to Reference 1 for previous approval of Relief Requests B-1 and B-5 by the NRC staff.


A047

TXX-01110  
Page 2 of 2

There are no new licensing based commitments in the communication. Should you have additional questions, please contact Obaid Bhatti at 254-897-5839.

Sincerely,

C. L. Terry

By:   
J. J. Kelley, Jr.  
Vice President - Nuclear Engineering & Support

OAB/oab

Attachments

cc: E. W. Merschoff, Region IV  
D. N. Graves, Region IV  
D. H. Jaffe, NRR  
Resident Inspectors, CPSES  
G. Bynog, TDLR

**CPSES UNIT 2  
RELIEF REQUEST  
B-1  
REVISION 1**

**I. System/Component for Which Relief is Requested:**

Reactor Coolant System/Reactor Vessel Closure Head Welds.

Examination Category B-A, Item Number B1.40 and B1.21

TCX-1-1300-1- Reactor Vessel Closure Head to Flange Weld

TCX-1-1300-2- Reactor Vessel Closure Head Ring to Disc Weld

**II. Code Requirement:**

1986 edition of ASME code, Section XI, no addenda, Examination Category B-A, Item number B1.40 and B1.21 require complete ultrasonic examination of the weld length, as described in Table IWB-2500-1.

**III. Code Requirement from Which Relief Is Requested.**

Pursuant to the requirements of 10 CFR 50.55a(g)(5)(iii), relief is requested from performing the volumetric examination for 100% of the weld lengths as described in Table IWB-2500-1. Examination Category B-A, Item numbers B1.40 and B1.21.

**IV. Basis for relief:**

Interferences from the reactor head flange, shroud and lifting lugs preclude the complete ultrasonic examination of the volume required by Figures IWB-2500-3 and IWB-2500-5 as applicable.

Approximately 15% of the examination volume of weld TCX-1-1300-1 and 17% of the examination volume of weld TCX-1-1300-2 did not receive the full code required coverage during the first period examinations.

**CPSES UNIT 2  
RELIEF REQUEST  
B-1  
REVISION 1 (continued)**

Approximately 15% of the examination volume of weld TCX-1-1300-1 and 17% of the examination volume of weld TCX-1-1300-2 did not receive the full code required coverage during the second period examinations.

Best effort examinations were performed. Full circumferential scan coverage was obtained for both welds. Axial scan coverage was achieved in one beam path direction with two different beam angles for 99% of the examination volume of TCX-1-1300-1 and for 97% of the examination volume of TCX-1-1300-2.

See pages 3 through 9 for weld locations and surface configurations.

There were no recordable indications identified by the best effort volumetric examination or by the required surface examination performed on TCX-1-1300-1.

**V. Alternate Examinations:**

No alternative examinations are proposed in lieu of the ultrasonic examination conducted for the subject welds.

**VI. Justification for Granting of Relief:**

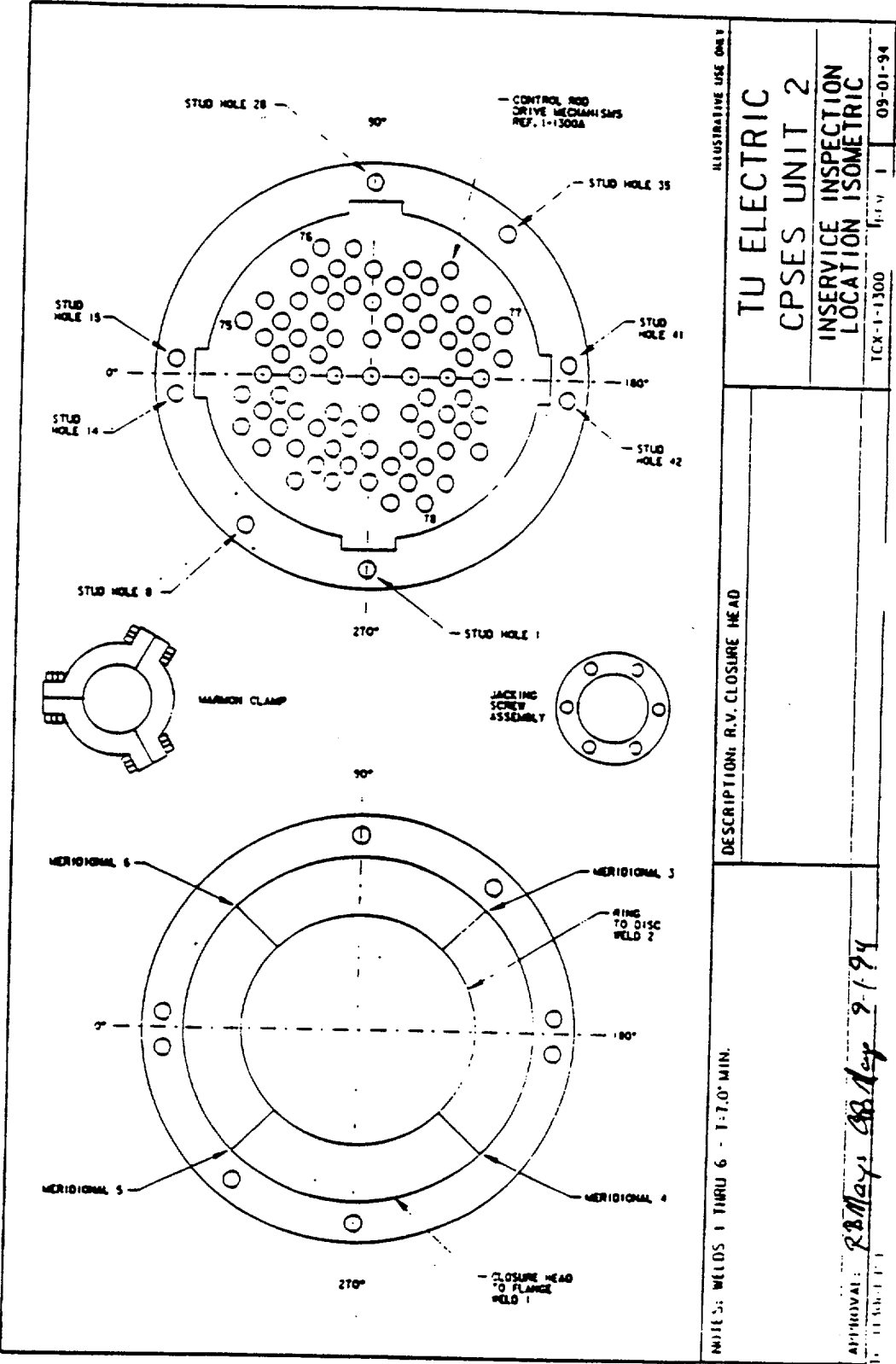
The subject welds were examined to the maximum extent possible (approximately 90% and 97 % of examination completed in all cases) and yielded no indications. Based on the high percentage of the examination volume completed, and the lack of any reportable indications, there is a high level of confidence in the continued structural integrity of the welds. There is no anticipated impact upon the overall plant quality and safety, and the health and safety of the public should not be jeopardized by the granting of relief.

**VII. Implementation Schedule:**

According to the Unit 2 ISI Program Plan, 1/3 of the weld surface and volumetric examinations are performed each period.

The subject weld examinations were performed during the 5<sup>th</sup> outage, 2<sup>nd</sup> period, of the first 10-year interval for CPSES Unit 2.

CPSES UNIT 2 - RELIEF REQUEST B-1 REVISION 1 (continued)



CPSES UNIT 2 - RELIEF REQUEST B-1 REVISION 1 (continued)

WESTINGHOUSE NUCLEAR SERVICE DIVISION  
INSPECTION SERVICES

LIMITATION TO EXAMINATION

PLANT COMANCHE PEAK UNIT NO. 2 SKETCH TCX-1-1300 REV. 1  
SYST./COMP. R. V. CLOSURE HEAD PROCEDURE TX-ISI-210 REV. 2  
EXAMINER *James A. Hillman Paul S. Miller* DATE 10-18-94  
*ANII Reviewed jkh 10/31/94*

RELATED TO: UT X PT      MT      VT      DEVT. NO. 1, 2 & 6

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

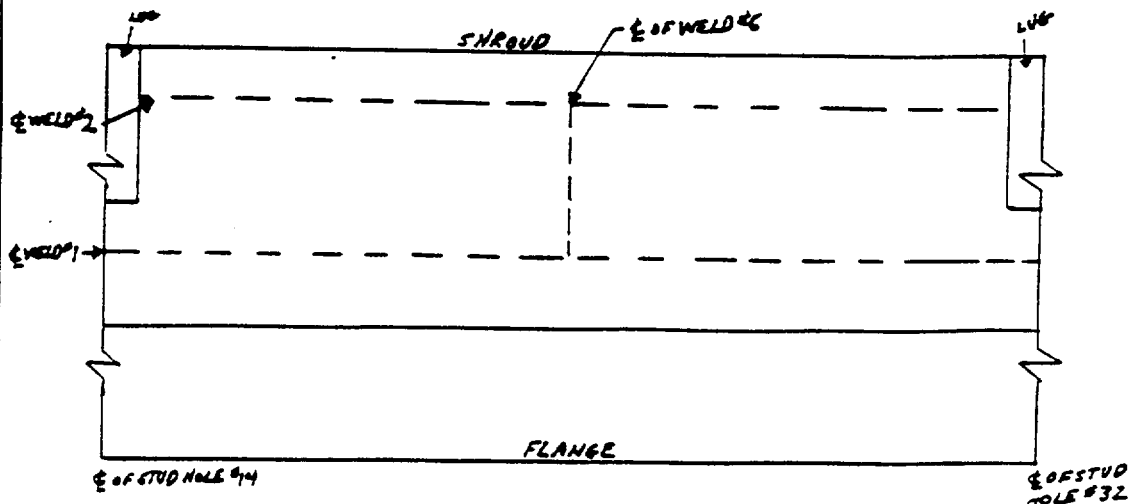
WELD # 1

15% OF REQUIRED EXAMINATION VOLUME NOT EXAMINED.  
99% EXAMINED WITH THE 45° AND 60° IN AT LEAST ONE DIRECTION.  
45°-8% NOT EXAMINED.  
60°-15% NOT EXAMINED.

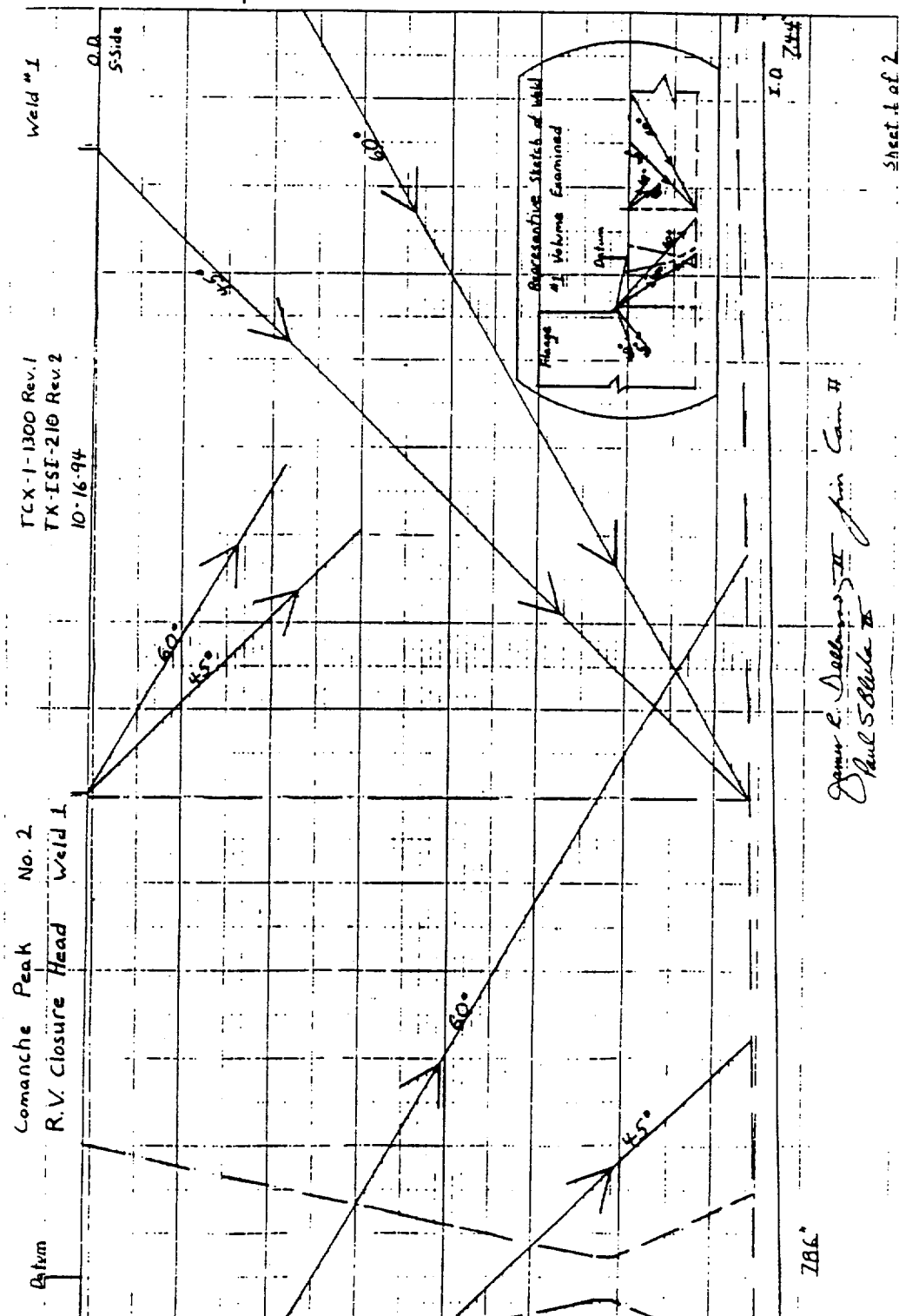
WELD # 2

17% OF REQUIRED EXAMINATION VOLUME NOT EXAMINED.  
97% EXAMINED WITH THE 45° AND 60° IN AT LEAST ONE DIRECTION.  
45°-11% NOT EXAMINED.  
60°-17% NOT EXAMINED.

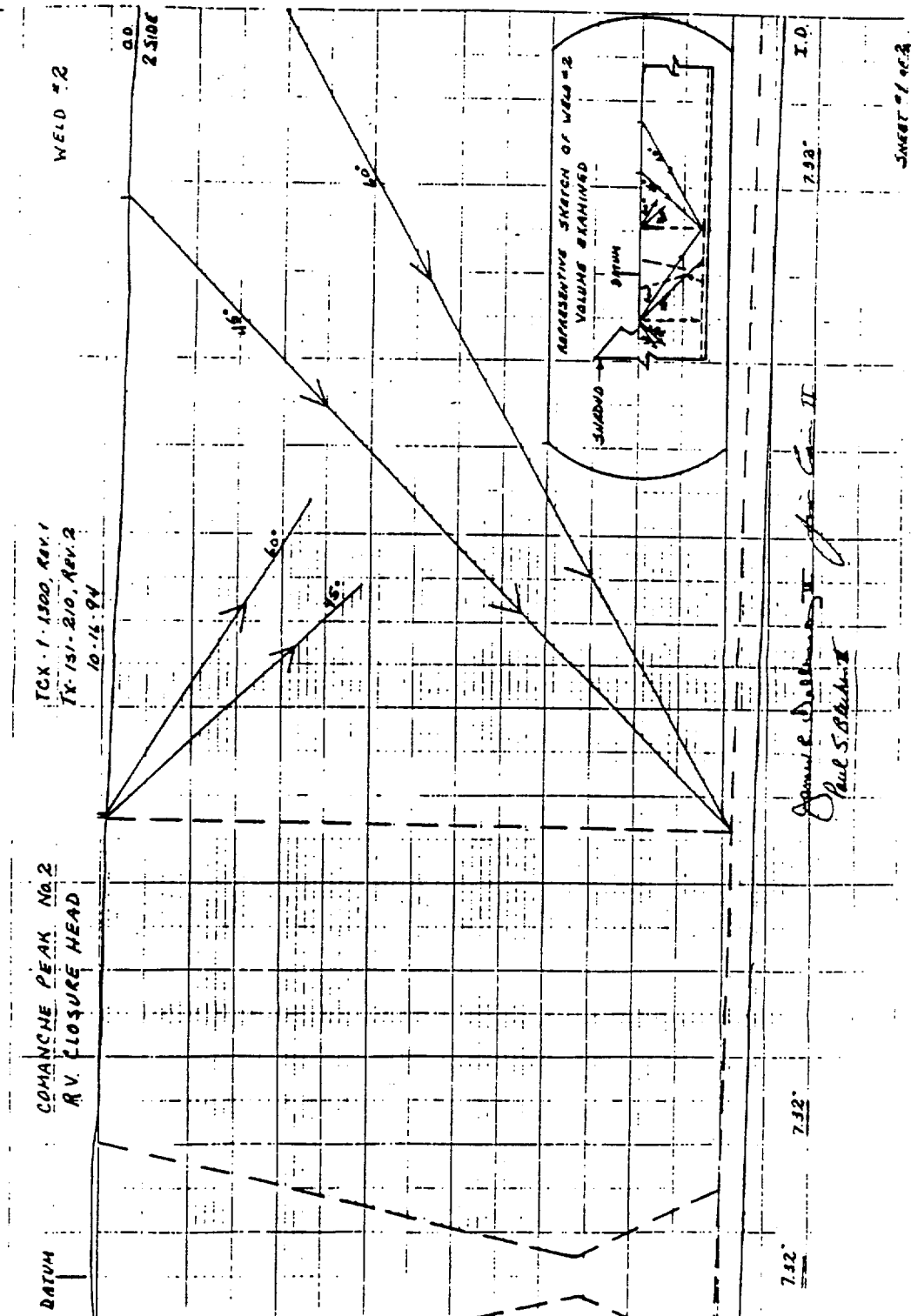
SEE WELD PROFILE SHEETS.



CPSSES UNIT 2 - RELIEF REQUEST B-1 REVISION 1 (continued)



CPSES UNIT 2 - RELIEF REQUEST B-1 REVISION 1 (continued)





**CPSES UNIT 2 - RELIEF REQUEST B-1 REVISION 1 (continued)**



WESTINGHOUSE NUCLEAR SERVICES DIVISION

REPORT NO. UT-00-028

PAGE 2 OF 2

**LIMITATION TO EXAMINATION**

PLANT	<u>Comanche Peak</u>	UNIT	<u>2</u>	SKETCH	<u>TCX-1-1300</u>
SYST/COMP	<u>REACTOR COOLANT</u>	PROCEDURE	<u>TX-ISI-210</u>	<u>Rev. 4</u>	<u>FC N/A</u>
EXAMINER	<u>Erickson, Scott</u> <i>Scott R. Erickson</i>	LEVEL	<u>II</u>	DATE	<u>10/8/2000</u>
EXAMINER	<u>N/A</u>	LEVEL	<u>N/A</u>	DATE	

COMPONENT ID TCX-1-1300-1 TCX-1-1300-2

RELATED TO ☐ MT ☐ PT ☒ UT ☐ VT

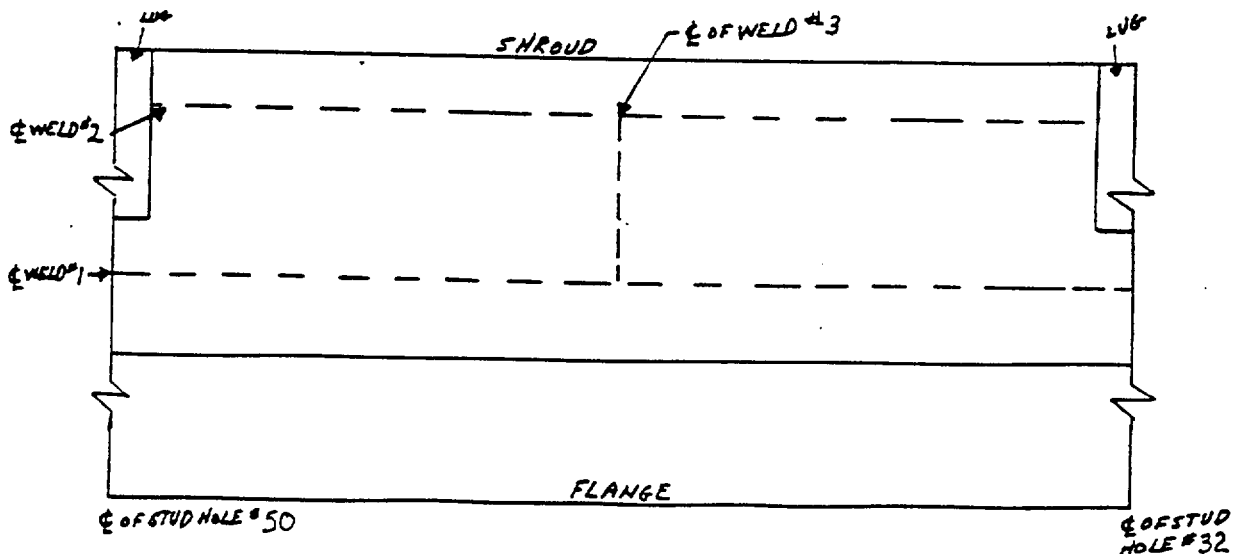
PROVIDE SUFFICIENT INFORMATION TO DESCRIBE SIZE, LOCATION AND TYPE OF LIMITATION.

COMMENTS/SKETCH/DETAILS

TCX-1-1300-1: 15% of required volume not examined. 99% examined with 45° and 60° in at least one direction. 8% of required volume not examined with 45° and 15% of required volume not examined with 60°.

TCX-1-1300-2: 17% of required volume not examined. 97% examined with 45° and 60° in at least one direction. 11% of required volume not examined with 45° and 17% of required volume not examined with 60°.

SEE WELD PROFILE SHEETS.



TU ELECTRIC REVIEW / DATE <i>Paul N. Baulgo</i> 10-9-00	TU ELECTRIC LEVEL III REVIEW / DATE <i>J. Ragan</i> 10/13/00	ANII REVIEW / DATE <i>He C. Hair</i> 10/13/00
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WESTINGHOUSE NUCLEAR SERVICES DIVISION  
INSPECTION SERVICES

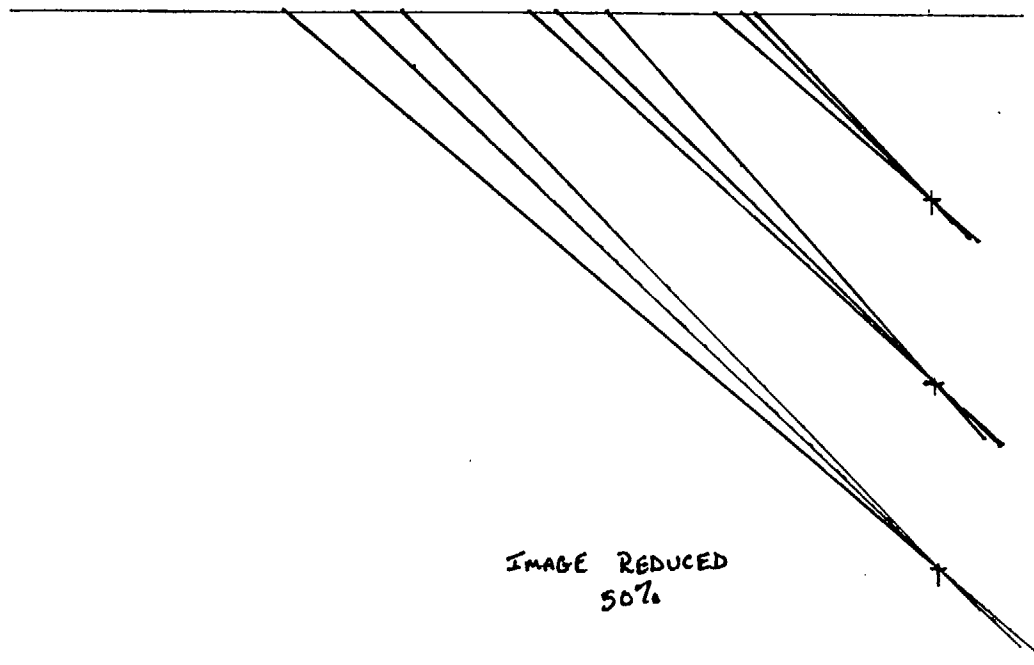
REPORT NO. BS-00003

PAGE 1 OF 1

BEAM SPREAD

PLANT	<u>Comanche Peak</u>	UNIT	<u>2</u>	SKETCH	<u>N/A</u>
SYST/COMP	<u>RC</u>			PROCEDURE	<u>TX-ISI-210</u> Rev. 4 FC N/A
EXAMINER	<u>Erickson, Scott</u> <i>Scott R. Erickson</i>	LEVEL	<u>II</u>	DATE	<u>10/8/2000</u>
EXAMINER	<u>N/A</u>	LEVEL	<u>N/A</u>	DATE	
TRANSDUCER S/N	<u>009Y45</u>	ANGLE	<u>45°</u>	CAL. BLOCK	<u>TBX-29</u>
SIZE	<u>.5"x1"</u>	FREQUENCY	<u>2.25 MHz</u>	THICKNESS	<u>8.6</u>

COMMENTS/SKETCH/DETAILS



CPSES UNIT 2 - RELIEF REQUEST B-1 REVISION 1 (continued)

TU ELECTRIC REVIEW / DATE

*Paul M. Brinkley*

10-9-00

TU ELECTRIC LEVEL III REVIEW / DATE

*J. Ragan* 10/13/00

ANII REVIEW / DATE

*Joe P. Hain*

10/13/00



WESTINGHOUSE NUCLEAR SERVICES DIVISION  
INSPECTION SERVICES

BEAM SPREAD

REPORT NO. BS-00004

PAGE 1 OF 1

PLANT	Comanche Peak	UNIT	2	SKETCH	N/A
SYST/COMP	RC			PROCEDURE	TX-ISI-210 Rev. 4 FC N/A
EXAMINER	Erickson, Scott <i>Scott R. Erickson</i>	LEVEL	II	DATE	10/8/2000
EXAMINER	N/A	LEVEL	N/A	DATE	
TRANSDUCER S/N	009Y81	ANGLE	60°	CAL. BLOCK	TBX-29
SIZE	.5"x1"	FREQUENCY	2.25 MHz	THICKNESS	8.6

COMMENTS/SKETCH/DETAILS

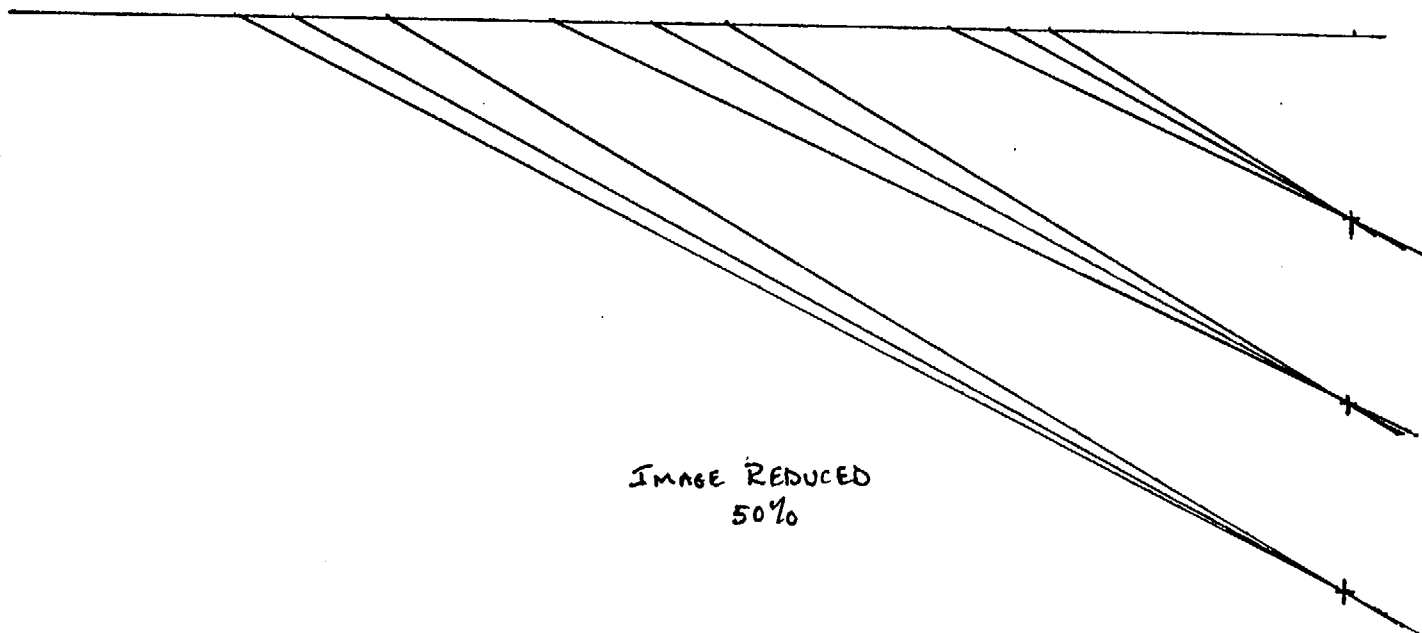


IMAGE REDUCED  
50%

CPSES UNIT 2 - RELIEF REQUEST B-1 REVISION 1 (continued)

TU ELECTRIC REVIEW / DATE

*Paul M. Benson* 10-9-00

TU ELECTRIC LEVEL III REVIEW / DATE

*J. Ragan* 10/13/00

ANII REVIEW / DATE

*Joe C. Hair* 10/13/00

**CPSES UNIT 2  
RELIEF REQUEST  
B-5  
Revision 1**

**I. System/Component for Which Relief is Requested:**

Reactor Coolant System

Examination Category B-B, Item No. B2.40

TCX-1-3100-2-1, TCX-1-3100-1-1

Steam generator tubesheet-to-channel head welds

(Note: TCX-1-3100-1-1 added in this revision of the relief request)

**II. Code Requirement:**

1986 edition of ASME code, Section XI, no addenda, Table IWB-2500-1, Examination Category B-B, Item No. B2.40 requires complete ultrasonic examinations of the volume defined by Figure IWB-2500-1.

Note: The CPSES ISI Plan requires different steam generators to be examined during each inspection period. A relief request revision is processed to document the specific limitations encountered during the examination of each of the steam generators.

**III. Code Requirement from Which Relief is Requested:**

Pursuant to the requirements of 10 CFR 50.55a(g)(5)(iii), relief is requested from performing complete ultrasonic examinations of the volume defined by Figure IWB-2500-1.

**IV. Basis for Relief:**

Interferences from the steam generator tubesheet flange (or support collar) configuration and from welded insulation support pads preclude the complete ultrasonic examination of the volume required by Fig. IWB-2500-6.

**CPSES UNIT 2  
RELIEF REQUEST  
B-5  
Revision 1 (continued)**

Approximately 31% of the examination volume of weld TCX-1-3100-2-1 did not receive the full code required coverage. See pages 2 through 5 for weld location and examination area configurations.

Approximately 31% of the examination volume of weld TCX-1-3100-1-1 did not receive the full code required examination coverage. Refer to pages 6 through 10 for weld location and examination area configurations.

There were no recordable indications identified by the volumetric examination performed on the accessible portions of the weld.

**V. Alternate Examinations:**

No alternate examinations are proposed in lieu of the Ultrasonic examinations conducted for the subject welds.

**VI. Justification for the Granting of Relief:**

The subject welds were examined to the maximum extent possible and yielded no indications. Based on the high percentage of the examination volume completed, and the lack of any reportable indications, there is a high level of confidence in the continued structural integrity of the welds. There is no anticipated impact upon the overall plant quality and safety, and the health and safety of the public should not be jeopardized by the granting of relief.

**VII. Implementation Schedule:**

TCX-1-3100-2-1 was previously examined during the third outage, 2<sup>nd</sup> period, 1<sup>st</sup> interval for CPSES Unit 2.

TCX-1-3100-1-1 was examined during the fifth outage, 2<sup>nd</sup> period, 1<sup>st</sup> interval for CPSES Unit 2.

CPSES UNIT 2 - RELIEF REQUEST B-5 Revision 1 (continued)

<p>WELD 2 DET. 2-11009</p>					<p>ILLUSTRATIVE USE ONLY</p>	
<p>NOTES:</p>					<p>TU ELECTRIC CPSES UNIT 2</p>	
<p>DESCRIPTION: STEAM GENERATORS 1, 2, 3 &amp; 4 (TUBES IDE) 5.3"/SA-508 (HEADS IDE) 5.3"/SA-216 (BOLTING) 1.815" DIA./16.11" LENGTH</p>					<p>INSERVICE INSPECTION LOCATION ISOMETRIC</p>	
<p>APPROVAL: <i>28 May 94</i></p>					<p>TCX-1-3100 REV. 1 09-01-94</p>	

STEAM GENERATOR	WELD	WELD	INSIDE RADIUS
1	1-1	1-1 TO 1-816 1-817 TO 1-832	1A 1B
2	2-1	2-1 TO 2-816 2-817 TO 2-832	2A 2B
3	3-1	3-1 TO 3-816 3-817 TO 3-832	3A 3B
4	4-1	4-1 TO 4-816 4-817 TO 4-832	4A 4B

CPSES UNIT 2 - RELIEF REQUEST B-5 Revision 1 (continued)

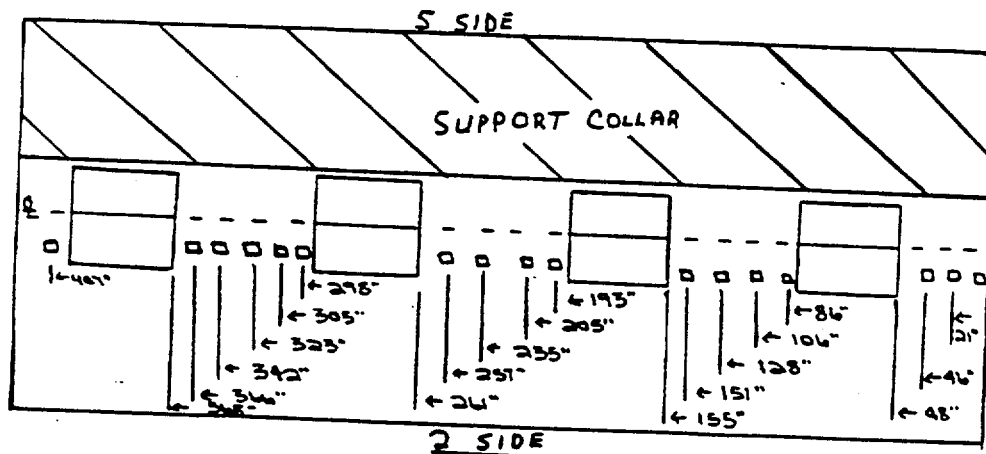
WESTINGHOUSE NUCLEAR SERVICES DIVISION

LIMITATION TO EXAMINATION

PLANT COMANCHE PEAK UNIT 2 SKETCH TCX-1-3100 REV 1  
SYST/COMP. STEAM GENERATOR 2 PROCEDURE TX-4SH-210 REV 4  
EXAMINER Mark Alan Paul S. Miller DATE 11-18-97

RELATED TO: UT X PT        MT        VT        IDENT. NO. 2-1

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

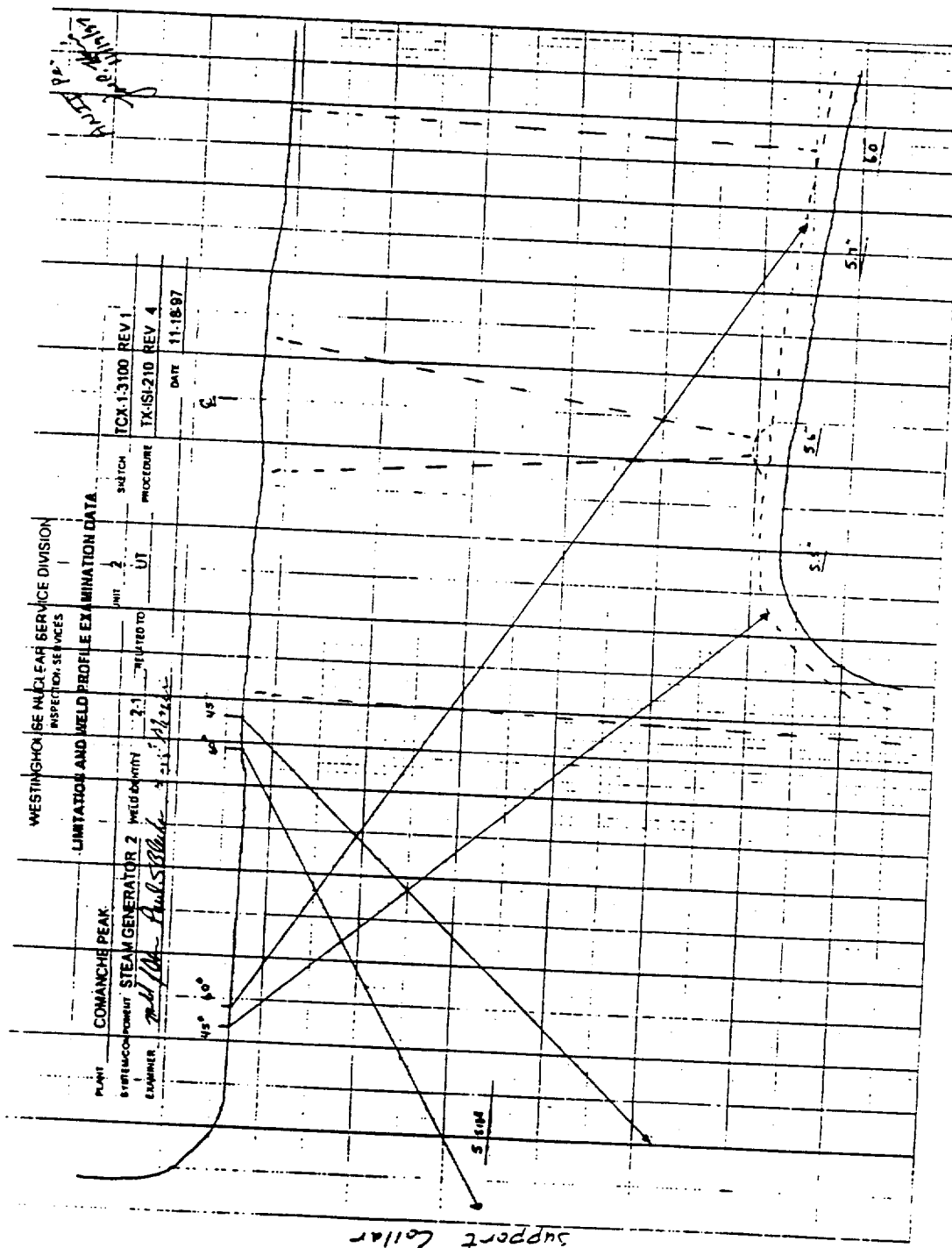


FOUR 24" X 24" SUPPORT PADS RESTRICTS ALL SCAN FOR 22%  
SEVENTEEN 2.5" X 2.5" WELDED PADS APPROXIMATELY 7" FROM THE CENTERLINE LIMITS 60° SCAN  
SUPPORT COLLAR LIMITS 60° SCAN  
0° - 22% NOT EXAMINED  
45° - 22% NOT EXAMINED  
60° - 31% NOT EXAMINED  
31% OF REQUIRED EXAMINATION VOLUME NOT EXAMINED

SEE LIMITATION AND WELD PROFILE EXAMINATION DATA SHEET

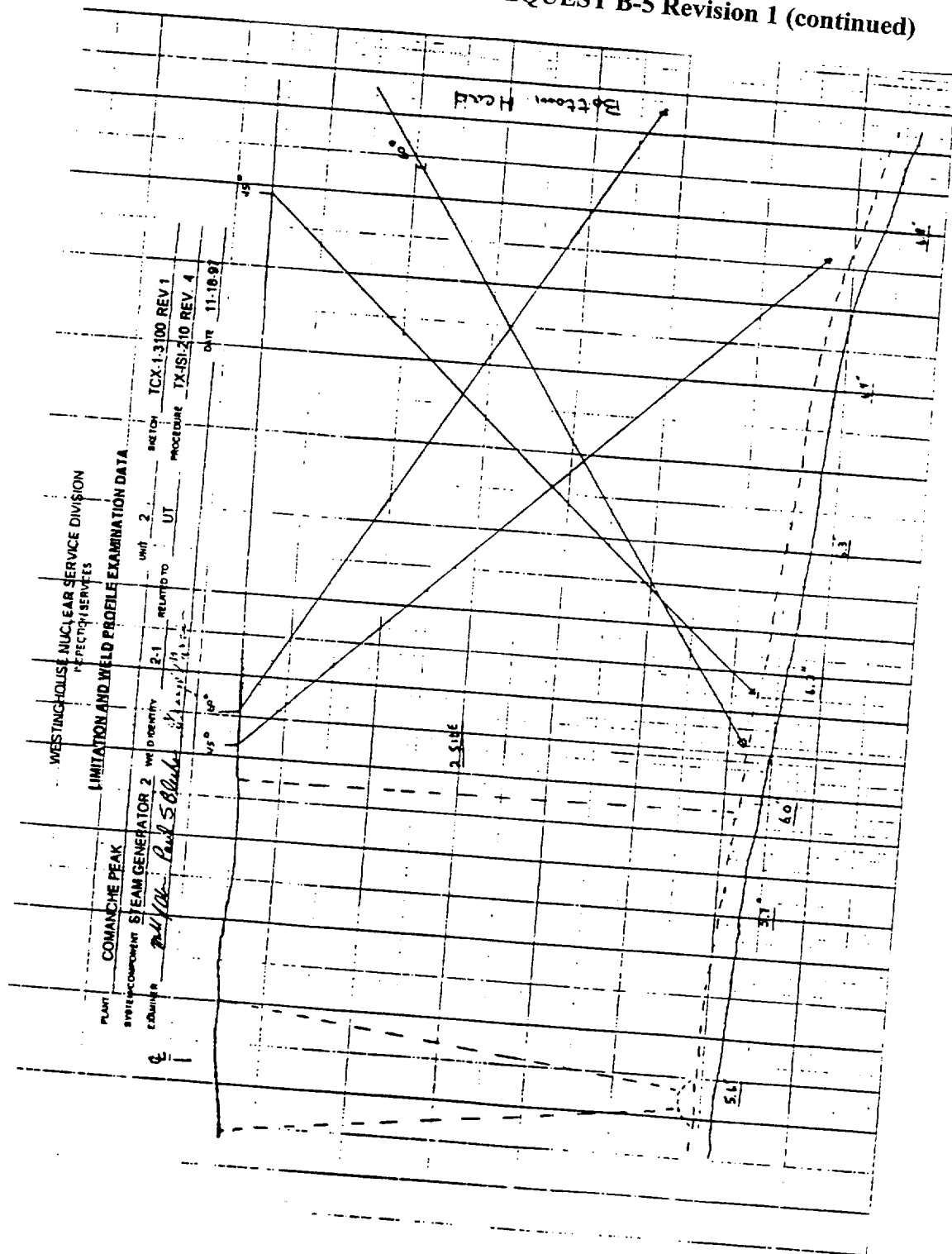
ANZI Reviewed 12/11/97

CPSES UNIT 2 - RELIEF REQUEST B-5 Revision 1 (continued)





**CPSES UNIT 2 - RELIEF REQUEST B-5 Revision 1 (continued)**



**CPSES UNIT 2 - RELIEF REQUEST B-5 Revision 1 (continued)**



WESTINGHOUSE NUCLEAR SERVICES DIVISION

REPORT NO. UT-00-021

PAGE 2 OF 2

**LIMITATION TO EXAMINATION**

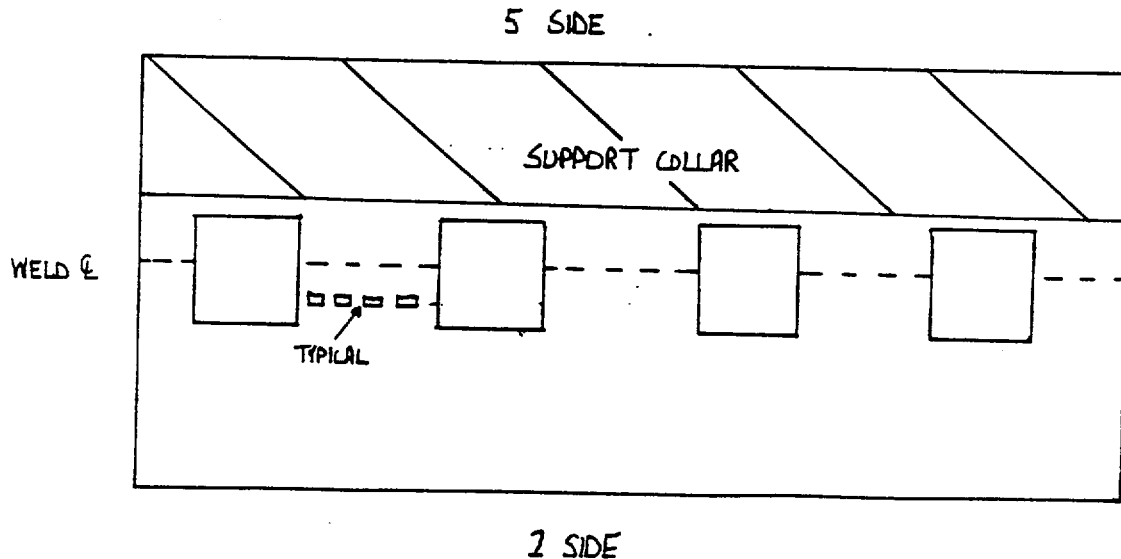
PLANT	<u>Comanche Peak</u>	UNIT	<u>2</u>	SKETCH	<u>TCX-1-3100</u>
SYST/COMP	<u>REACTOR COOLANT</u>			PROCEDURE	<u>TX-ISI-210 Rev. 4 FC N/A</u>
EXAMINER	<u>Mixon, W. Andrew</u> <i>W. Andrew</i>	LEVEL	<u>II</u>	DATE	<u>10/5/2000</u>
EXAMINER	<u>Holasek, Wade</u> <i>Wade Holasek</i>	LEVEL	<u>III</u>	DATE	<u>10/5/2000</u>
COMPONENT ID	<u>TCX-1-3100-1-1</u>				

RELATED TO MT PT ☒ UT VT

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

COMMENTS/SKETCH/DETAILS

Four 24"X 24" Support pads restricts all scan for 22%. Seventeen 2.5"X 2.5" welded pads approx. 7" from CL limits 60° scan. 0° -22% not examined. 45° -22% not examined. 60° -31% not examined. 31% of required exam volume not examined.



TU ELECTRIC REVIEW / DATE

*Paul M. Bradley* 10-9-00

TU ELECTRIC LEVEL III REVIEW / DATE

*J. Ragan* 10/12/00

ANII REVIEW / DATE

*Joe C. Hair* 10/13/00



WESTINGHOUSE NUCLEAR SERVICES DIVISION  
INSPECTION SERVICES

BEAM SPREAD

REPORT NO. BS-00001

PAGE 1 OF 1

PLANT	<u>Comanche Peak</u>	UNIT	<u>2</u>	SKETCH	<u>N/A</u>
SYST/COMP	<u>N/A</u>			PROCEDURE	<u>TX-ISI-210</u> Rev. 4 FC <u>N/A</u>
EXAMINER	<u>Erickson, Scott</u> <i>Scott R. Erickson</i>	LEVEL	<u>II</u>	DATE	<u>10/4/2000</u>
EXAMINER	<u>Musgrave, Larry</u> <i>Larry M. Musgrave</i>	LEVEL	<u>II</u>	DATE	<u>10/4/2000</u>
TRANSDUCER S/N	<u>009Y81</u>	ANGLE	<u>60°</u>	CAL. BLOCK	<u>TBX-28</u>
SIZE	<u>.5"x1"</u>	FREQUENCY	<u>2.25 MHz</u>	THICKNESS	<u>5.45</u>

COMMENTS/SKETCH/DETAILS

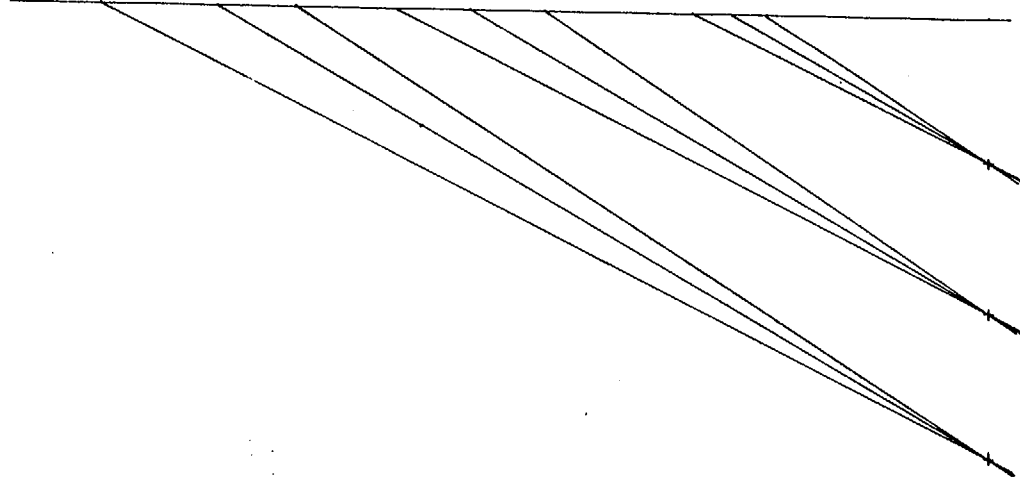


IMAGE REDUCED 64%

TU ELECTRIC REVIEW / DATE

*Paul M. [Signature]* 10-4-00

TU ELECTRIC LEVEL III REVIEW / DATE

*J. Ragan* 10/12/00

ANII REVIEW / DATE

*Joe P. Hain* 10/13/00

CPSES UNIT 2 - RELIEF REQUEST B-5 Revision 1 (continued)



WESTINGHOUSE NUCLEAR SERVICES DIVISION  
INSPECTION SERVICES

BEAM SPREAD

REPORT NO. BS-00002

PAGE 1 OF 1

PLANT Comanche Peak

UNIT 2

SKETCH N/A

SYST/COMP N/A

EXAMINER Erickson, Scott

*Scott R. Erickson*

LEVEL II

PROCEDURE TX-ISI-210

Rev. 4 FC N/A

EXAMINER Musgrave, Larry

*Larry M. Musgrave*

LEVEL II

DATE 10/4/2000

TRANSDUCER S/N

009Y45

ANGLE

45°

DATE 10/4/2000

SIZE

.5"x1"

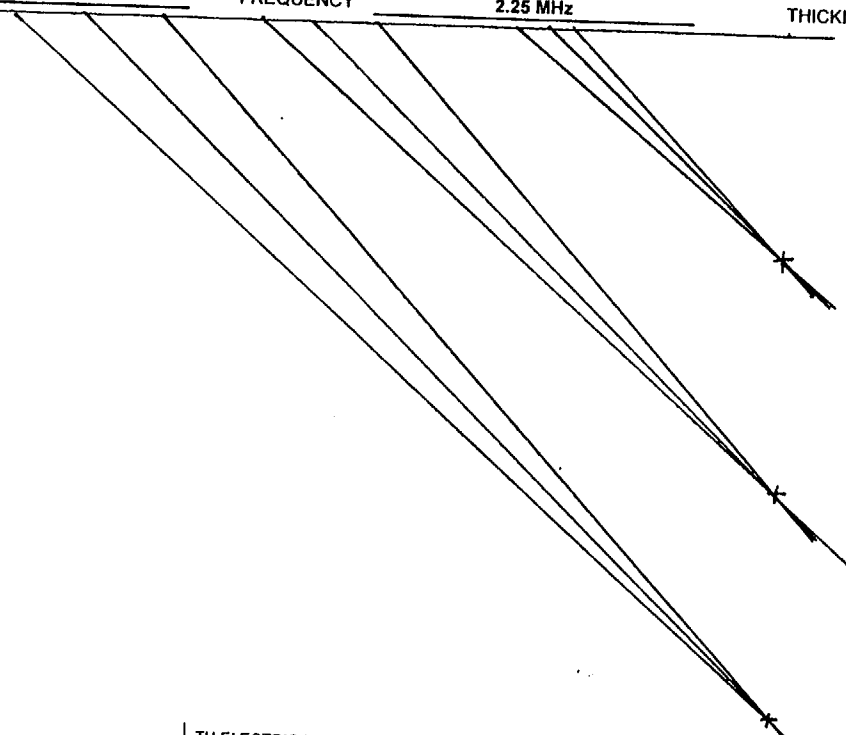
FREQUENCY

2.25 MHz

CAL. BLOCK TBX-28

THICKNESS 5.45

COMMENTS/SKETCH/DETAILS



TU ELECTRIC REVIEW / DATE

*Paul M. P... 10-9-00*

TU ELECTRIC LEVEL III REVIEW / DATE

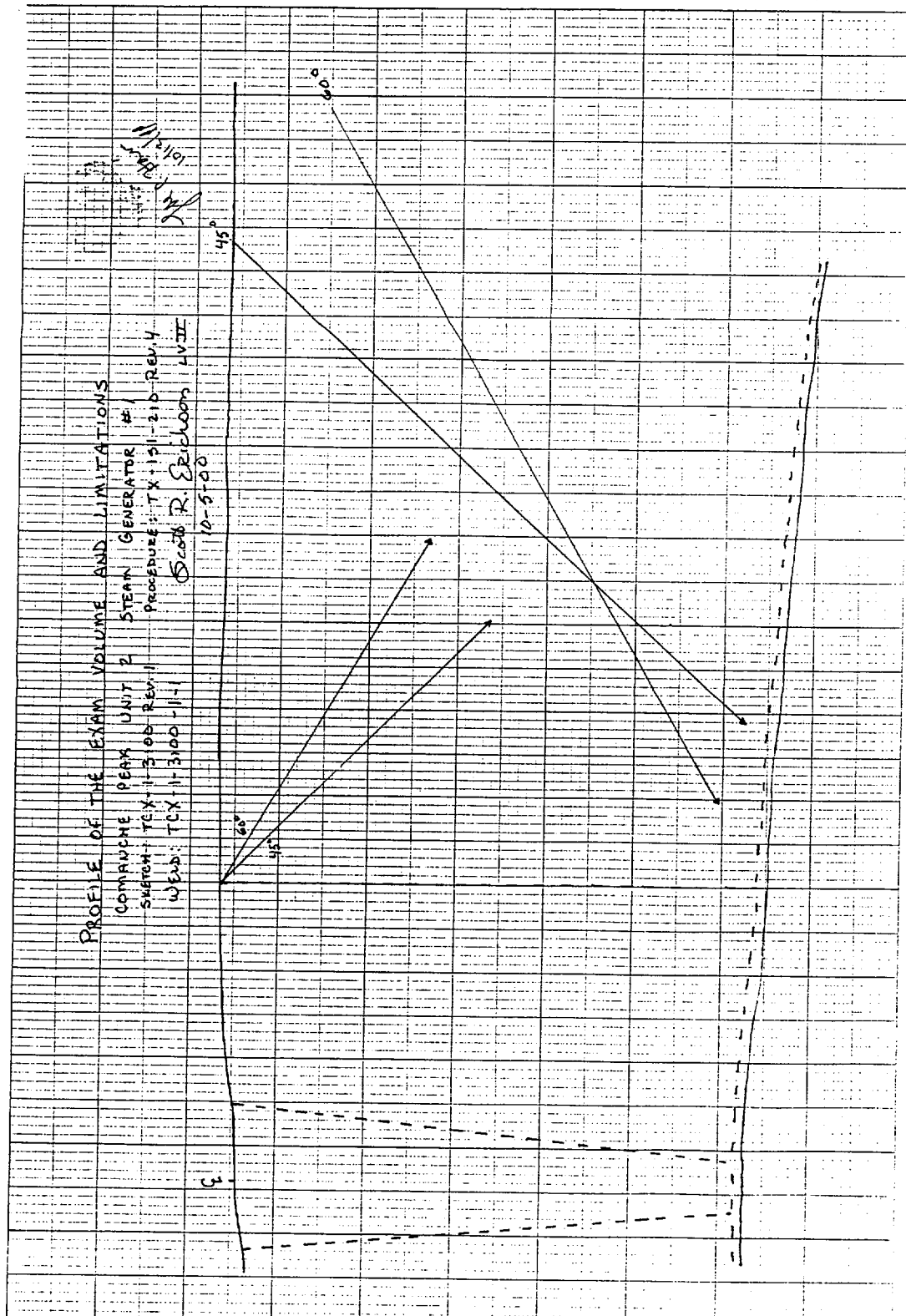
*J. Ragon 10/12/00*

ANII REVIEW / DATE

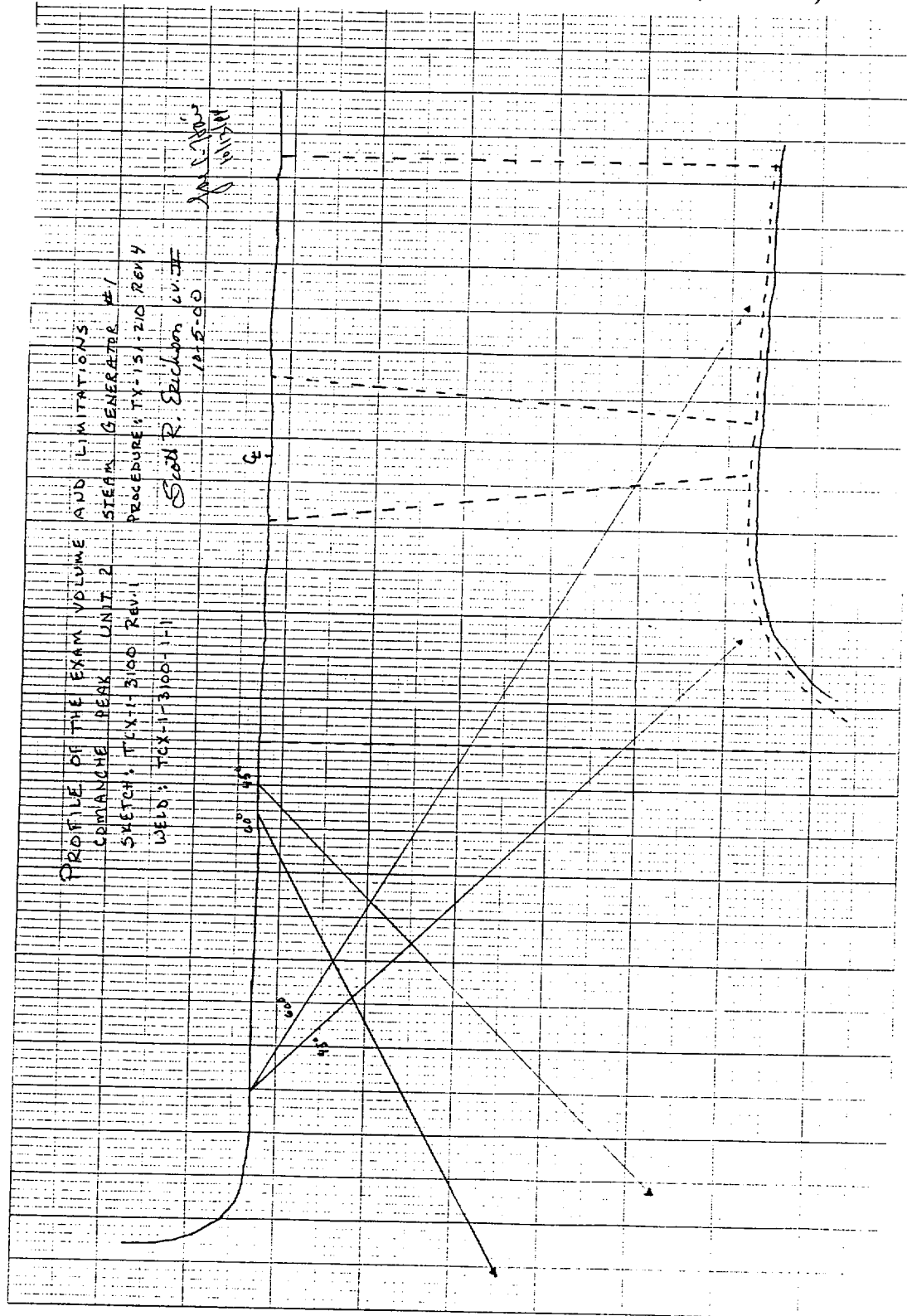
*Joe P. Hain 10/13/00*

CPSES UNIT 2 - RELIEF REQUEST B-5 Revision 1 (continued)

**CPSES UNIT 2 - RELIEF REQUEST B-5 Revision 1 (continued)**



CPSES UNIT 2 - RELIEF REQUEST B-5 Revision 1 (continued)



**CPSES UNIT 2  
RELIEF REQUEST  
C-5**

**I. System/Component for Which Relief is Requested:**

Containment Spray.

Examination Category C-F-1, Item No. C5.11

TCX-2-2577-12 pipe to valve  
TCX-2-2577-20 pipe to valve  
TCX-2-2578-35 pipe to nozzle

**II. Code Requirement:**

1986 edition of ASME code, Section XI, no addenda, Table IWB-2500-1, Examination Category C-F-1, Item No. C5.11 requires complete ultrasonic examinations.

**III. Code Requirement from Which Relief is Requested:**

Pursuant to the requirements of 10 CFR 50.55a(g)(5)(iii), relief is requested from performing complete ultrasonic examinations of the volume defined in Table IWB-2500-1, Examination Category C-F-1, Item No. C5.11.

**IV. Basis for Relief:**

Complete examination of the volume defined Table IWB-2500-1 is impractical for the subject welds because of the geometrics of the examination volume for these welds.

The specific examination area geometry of the pipe to valve welds for TCX-2-2577-12 and TCX-2-2577-20 and the pipe to nozzle weld for TCX-2-2579-35 precludes the complete ultrasonic examination of the volume required by Figure IWC-2500-7. Approximately 10% of the exam volume for each weld of TCX-2-2577-12, TCX-2-2577-20, and TCX-2-2578-35 did not receive the full code required coverage.

Best effort examinations consisting of two separate base metal angle shear and longitudinal waves were performed. Full circumferential scan coverage was obtained for both welds.

**CPSES UNIT 2  
RELIEF REQUEST  
C-5 (continued)**

Axial scan coverage was achieved in at least 1 beam path direction with two beam angles (45 and 70 degrees) for the entire exam volume of both welds. (Refer to pages 3 through 8).

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

**V. Alternate Examinations:**

No alternate examinations are proposed in lieu of the ultrasonic examinations conducted for the subject welds.

**VI. Justification for the Granting of Relief:**

The subject welds were examined to the maximum extent possible and yielded no indications. Based on the high percentage of the examination volume completed, and the lack of any reportable indications, there is a high level of confidence in the continued structural integrity of the welds. There is no anticipated impact upon the overall plant quality and safety, and the health and safety of the public should not be jeopardized by the granting of relief.

**VII. Implementation Schedule:**

The examinations for the subject welds were performed during the fifth outage, 2<sup>nd</sup> period, 1<sup>st</sup> interval for CPSES Unit 2.



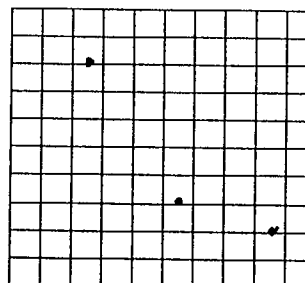
CPSES UNIT 2-RELIEF REQUEST C-5 (continued)

PDI

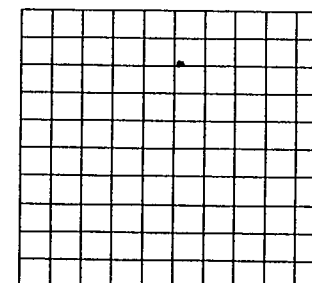
# Calibration Data Sheet

Plant/Unit CPSES / Unit 2 Date Sheet # PDI-6  
Company WesDyne Page 1 of 1  
Comp/System Cont. Spray  
Procedure No. TX-ISI-302  
Rev/Chng. No. 0 / 0  
Cal. Block No. TBX-48  
Cal. Block Temp. 73° Comp. Temp. 79°  
Therm S/N TU-2250  
Size 16"/30 Sch. 0.375 "T"  
☐ Ferritic ☒ Austenitic  
Each Maj. or CRT Div. = 0.2"  
Cal. Direction: Axial Circ. Both ☒  
Scan Area: I to Weld II to Weld  
Couplant  
Type: Ultragel II  
Batch: 97425

Cal. Checks	Time
Initial Calib.	0725
Initial Calib. Date	9-26-00
Intermediate	N/A
Intermediate	N/A
Final Calib.	1705
Final Calib. Date	9-26-00



Search Unit #1



Search Unit #2

Examination Area/Weld	Access	Recordable Indications			Exam Sens.
		Yes	No	Geom	
TCX-2-2577-12	UPS		X	NO	39.0 dB

Remarks/Reasons for incomplete Scan(s) Pipe to Valve  
10% Not Examined

Exam Sensitivity for 70° is 48.0 dB, it was reduced to a level below calibration sens. to reduce I.D. roll to a level between 5%~20% FSH as per procedure.

Examiners: [Signature] Level III Date 09-26-00  
N/A Level N/A Date N/A

Reviewers: [Signature] Further Evaluation Required? Yes No ☒

Manufacture: KBA  
Serial No.: 009R22 / 2.25Mhz  
Size: 0.250" Shape: Round  
Exam Angle: 45°S Model: Comp.  
Measured Angle: 45°S  
Wedge Style: Non Integral

Search Unit Cable  
Type: RG-174  
Length: 6' No 0

Instrument Settings  
Make/Model: Sonic 136  
Serial No: SAP 101313  
Delay: 0.247" Range: 2.00"  
M'tl Cal/Vel: 0.121"/μs Pulser: 222ns  
Damping: 500 Ω Reject: OFF  
Rep. Rate: 4K Freq: 2.25Mhz  
Filter: 1 Mode: P.E.  
Reference Sensitivity (Sens.)

Axial: 32.0 dB Circ: 34.2 dB

SDH Sensitivity: N/A

Manufacture: KBA  
Serial No.: 009R22 / 2.25Mhz  
Size: 0.250" Shape: Round  
Exam Angle: 70°S Model: Comp.  
Measured Angle: 70°S  
Wedge Style: Non Integral

Search Unit Cable  
Type: RG-174  
Length: 6' No 0

Instrument Settings  
Make/Model: Sonic 136  
Serial No: SAP 101313  
Delay: 0.433" Range: 2.00"  
M'tl Cal/Vel: 0.121"/μs Pulser: 222ns  
Damping: 500 Reject: OFF  
Rep. Rate: 4K Freq: 2.25Mhz  
Filter: 1 Mode: P.E.  
Reference Sensitivity (Sens.)

Axial: 54.2 dB Circ: NA

SDH Sensitivity: N/A

TU Electric Review / Date

[Signature] 10/14/00

TU Electric Level III Review / Date

X. Ragan 10/13/00

ANII Review / Date

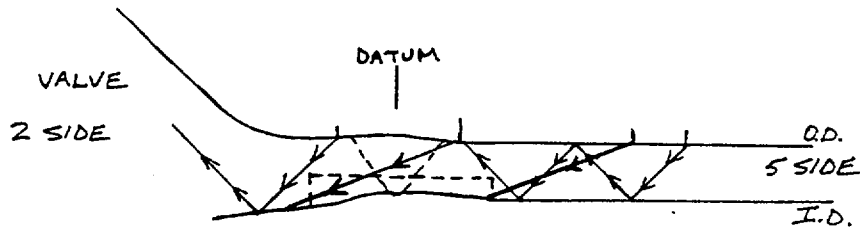
ANII witnessed Exam  
[Signature] 10/14/00

CPSES UNIT 2- RELIEF REQUEST C-5 (continued)

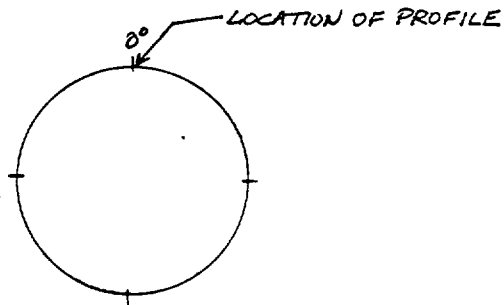
Westinghouse Nuclear Service Division  
Inspection Services

PROFILE OF THE EXAMINATION VOLUME

Plant COMANCHE PEAK Unit 2 Sketch TXX-2-2577 REV.0  
System/Comp CONTAINMENT SPRAY Procedure TX-IST-206 REV.1 FC.1 & 2  
Weld Identification 12 Date 7-3-91 Examiner RPB  
Level II



.446" .413" .366" .333" .346" .346"



CPSES UNIT 2-RELIEF REQUEST C-5 (continued)

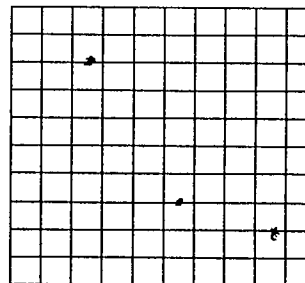
**PDI**

# Calibration Data Sheet

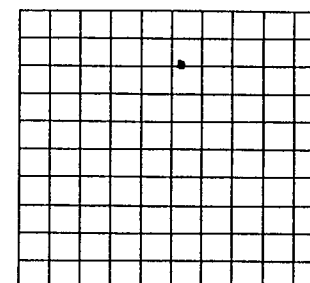
Plant/Unit CPSES / Unit 2  
Company WesDyne  
Comp/System Cont. Spray  
Procedure No. TX-ISI-302  
Rev/Chng. No. 0 / 0  
Cal. Block No. TBX-48  
Cal. Block Temp. 73° Comp. Temp. 83°  
Therm S/N TU-2250  
Size 16"/30 Sch. 0.375 "T"  
☐ Ferritic ☒ Austenitic

Date Sheet # PDI-2  
Page 1 of 1

Cal. Checks	Time
Initial Calib.	1019
Initial Calib. Date	9-26-00
Intermediate	N/A
Intermediate	N/A
Final Calib.	1422
Final Calib. Date	9-26-00



Search Unit #1



Search Unit #2

Each Maj. or CRT Div. = 0.2"

Cal. Direction: Axial Circ. Both ☒  
Scan Area: I to Weld ☒  
II to Weld

Couplant  
Type: Ultragel II  
Batch: 97425

Manufacture: KBA  
Serial No.: 009R22 / 2.25Mhz  
Size: 0.250" Shape: Round  
Exam Angle: 45°S Model: Comp.  
Measured Angle: 45°S  
Wedge Style: Non Integral

Manufacture: KBA  
Serial No.: 009R22 / 2.25MHz  
Size: 0.250" Shape: Round  
Exam Angle: 70°S Model: Comp.  
Measured Angle: 70°S  
Wedge Style: Non Integral

Examination Area/Weld	Access	Recordable Indications			Exam Sens.
		Yes	No	Geom	
TCX-2-2577-20	UPS		X	NO	44.0 dB

Search Unit Cable

Type: RG-174  
Length: 6' No 0

Instrument Settings

Make/Model: Sonic 136  
Serial No: SAP 101313  
Delay: 0.247" Range: 2.00"  
M'tl Cal/Vel: 0.121"/μs Pulser: 222ns  
Damping: 500 Ω Reject: OFF  
Rep. Rate: 4K Freq: 2.25Mhz  
Filter: 1 Mode: P.E.  
Reference Sensitivity (Sens.)

Search Unit Cable

Type: RG-174  
Length: 6' No 0

Instrument Settings

Make/Model: Sonic 136  
Serial No: SAP 101313  
Delay: 0.433" Range: 2.00"  
M'tl Cal/Vel: 0.121"/μs Pulser: 222ns  
Damping: 500 Reject: OFF  
Rep. Rate: 4K Freq: 2.25Mhz  
Filter: 1 Mode: P.E.  
Reference Sensitivity (Sens.)

Remarks/Reasons for incomplete Scan(s) Pipe to Valve  
10% Not Examined.

Exam Sensitivity for 70° is 48.0 dB, it was reduced to a level below  
calibration sens. to reduce I.D. roll to a level between 5%~20% FSH  
as per procedure.

Examiners: James E. Selbenny Level III Date 09-24-00  
N/A Level N/A Date N/A

Reviewers: [Signature] Further Evaluation Required? Yes No ☒

Axial: 32.0 dB Circ: 34.2 dB

SDH Sensitivity: N/A

Axial: 54.2 dB Circ: NA

SDH Sensitivity: N/A

TU Electric Review / Date

TU Electric Level III Review / Date

ANII Review / Date ANII witnessed Exam

Paul M. Basile 10/12/00

J. Ragan 10/13/00

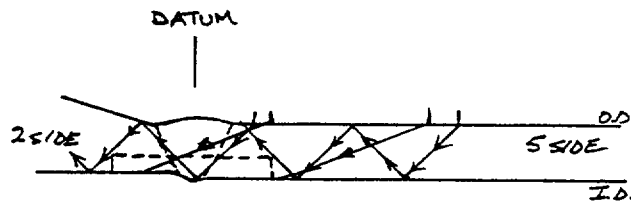
Joe C. Hair 10/14/00

**CPSES UNIT 2- RELIEF REQUEST C-5 (continued)**

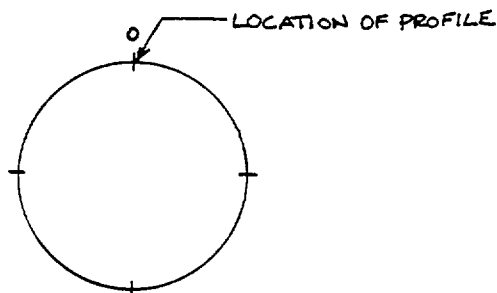
Westinghouse Nuclear Service Division  
Inspection Services

**PROFILE OF THE EXAMINATION VOLUME**

Plant COMANCHE PEAK Unit 2 Sketch TCX-2-2577 REV. 0  
System/Comp CONTAINMENT SPRAY Procedure TX-TST-206 REV. 1 FC. 1 & 2  
Weld Identification 20 Date 7-2-91 Examiner [Signature]  
Level II



.400" .386" .333" .333" .333"



PDI

## Calibration Data Sheet

Attachment 3 to TXX-011110  
Page 7 of 8

CPSES UNIT 2-RELIEF REQUEST C-5 (continued)

Plant/Unit CPSES / Unit 2  
 Company WesDyne  
 Comp/System Cont. Spray  
 Procedure No. TX-ISI-302  
 Rev/Chng. No. 0 / 0  
 Cal. Block No. TBX-11  
 Cal. Block Temp. 73° Comp. Temp. 83°  
 Therm S/N TU-2250  
 Size 12"/40 Sch. 0.375 "T"  
☐ Ferritic ☒ Austenitic  
 Each Maj. or CRT Div. = 0.2" / 0.1"  
 Cal. Direction: Axial Circ. Both ☒  
 Scan Area: I to Weld ☒ II to Weld  
 Couplant Type: Ultragel II Batch: 97425

Examination Area/Weld	Access	Recordable Indications			Exam Sens.
		Yes	No	Geom	
TCX-2-2578-35	UPS		X	NO	44.0 dB

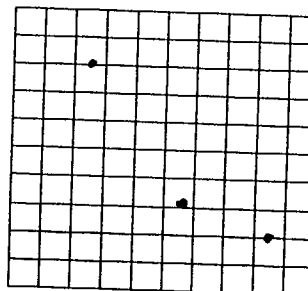
Remarks/Reasons for incomplete Scan(s) Pipe to Valve.  
 10% Not Examined.

Exam Sensitivity for 70° is 48.0 dB, it was reduced to a level below calibration sens. to reduce I.D. roll to a level between 5%~20% FSH as per procedure.

Examiners: James E. Jellison Level III Date 09-24-00  
N/A Level N/A Date N/A

Reviewers: [Signature] Further Evaluation Required? Yes No ☒

Cal. Checks	Time
Initial Calib.	1019
Initial Calib. Date	9-24-00
Intermediate	N/A
Intermediate	N/A
Final Calib.	1422
Final Calib. Date	9-24-00



Search Unit #1

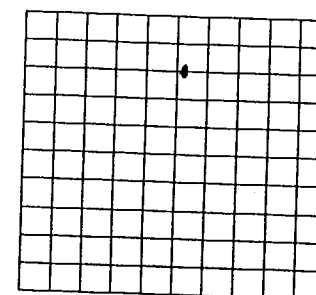
Manufacture: KBA  
 Serial No.: 009R22 / 2.25Mhz  
 Size: 0.250" Shape: Round  
 Exam Angle: 45°S Model: Comp.  
 Measured Angle: 45°S  
 Wedge Style: Non Integral  
 Search Unit Cable  
 Type: RG-174  
 Length: 6' No 0

## Instrument Settings

Make/Model: Sonic 136  
 Serial No: SAP 101313  
 Delay: 0.247" Range: 1.00"  
 M'tl Cal/Vel: 0.121"/µs Pulser: 222ns  
 Damping: 500 Ω Reject: OFF  
 Rep. Rate: 4K Freq: 2.25Mhz  
 Filter: 1 Mode: P.E.  
 Reference Sensitivity (Sens.)

Axial: 32.6 dB Circ: 34.8 dB

SDH Sensitivity: N/A



Search Unit #2

Manufacture: KBA  
 Serial No.: 009R22 / 2.25Hmz  
 Size: 0.250" Shape: Round  
 Exam Angle: 70°S Model: Comp.  
 Measured Angle: 70°S  
 Wedge Style: Non Integral  
 Search Unit Cable  
 Type: RG-174  
 Length: 6' No 0

## Instrument Settings

Make/Model: Sonic 136  
 Serial No: SAP 101313  
 Delay: 0.433" Range: 2.00"  
 M'tl Cal/Vel: 0.121"/µs Pulser: 222ns  
 Damping: 500 Reject: OFF  
 Rep. Rate: 4K Freq: 2.25Mhz  
 Filter: 1 Mode: P.E.  
 Reference Sensitivity (Sens.)

Axial: 56.4 dB Circ: NA

SDH Sensitivity: N/A

TU Electric Review / Date

Paul D. [Signature] 10/12/00

TU Electric Level III Review / Date

J. Ragan 10/13/00ANII Review / Date Antif witnessed examJoe P. Hair 10/14/00

CPSSES UNIT 2- RELIEF REQUEST C-5 (continued)

Westinghouse Nuclear Service Division  
Inspection Services

PROFILE OF THE EXAMINATION VOLUME

Plant COMANCHE PEAK Unit NO. 2 Sketch TCX-2-2578 REV. 0  
System/Comp CONTAINMENT SPRAY Procedure IX-IST-206 REV. 1 E.C. 1+2  
Weld Identification 35 Date 6-5-92 Examiner C. William Nemach  
Level II

