Entergy

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July 16, 2001
IPN-01-053

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Mail Stop O-P1-17
Washington, DC 20555-0001

SUBJECT: Indian Point 3 Nuclear Generating Unit No. 3
Docket No. 50-286
Second 10-Year ISI Interval Closeout and Associated Relief Requests

REFERENCE:
1. Safety Evaluation of Second Ten-Year Interval Inservice Inspection Plan and Associated Relief Requests for Indian Point Nuclear Generating Unit No. 3 (TAC NO. 72247), dated November 7, 1991
2. Evaluation of the Second 10-Year Interval Inservice Inspection Plan and Associated Requests for Relief - Indian Point Nuclear Generating Unit No. 3 (TAC NO. M82269), dated December 21, 1994

Dear Sir:

This letter submits the Second 10-Year Inservice Inspection (ISI) Closeout and Associated Relief Requests (Attachment I) for Indian Point Generating Unit No. 3. The Second 10-Year ISI Interval Program was based on Section XI, 1983 Edition with the Summer 1983 Addenda of the ASME Boiler and Pressure Vessel Code, as modified for relief requests approved by the NRC. This Interval ended on July 20, 2000.

Six (6) relief requests (RR 2-Closeout-1 through RR 2-Closeout-6) for the 2nd 10-Year ISI Interval Closeout are included in Attachment I. These relief requests apply to selected welds/components where code-required examination could not be performed, or the code-required volume/area could not be achieved.

A047

There are no new commitments made in this letter. If you have any questions, please contact Ms. Charlene Faison at 914-272-3378.

Very truly yours,

Michael R. Kansler
Senior Vice President and
Chief Operating Officer

cc: Next page.

cc: Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road
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Resident Inspector's Office
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U.S. Nuclear Regulatory Commission
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Buchanan, NY 10511

Mr. Patrick Milano, Project Manager
Project Directorate I
Division of Licensing Project Management
U.S. Nuclear Regulatory Commission
Mail Stop 8E20
Washington, DC 20555

List of Attachments:

I. Indian Point Nuclear Generating Unit No. 3, Second 10-Year Inservice Inspection Interval Closeout and Associated Relief Requests, Rev. 0

ATTACHMENT I TO IPN-01-053

INDIAN POINT NUCLEAR GENERATING UNIT NO. 3

Second 10-YEAR Inservice Inspection Interval Closeout and Associated Relief Requests, Rev. 0

ENTERGY NUCLEAR OPERATIONS, INC.
INDIAN POINT NUCLEAR GENERATING UNIT NO. 3
DOCKET NO. 50-286
DPR-64

IPN-01-053

Entergy

Nuclear Northeast

INDIAN POINT NUCLEAR GENERATING UNIT NO. 3

Second 10-Year Inservice Inspection Interval Closeout and Associated Relief Requests

Rev. 0

Entergy Nuclear Operations, Inc.
Indian Point Nuclear Generating Unit No. 3
Docket No. 50-286

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INTRODUCTION

The 2nd Ten Year Inservice Inspection Interval, August 30, 1986 through July 20, 2000, was completed and fulfilled the requirements of ASME Boiler and Pressure Vessel Code, 1983 Edition including the 1983 Summer Addenda, Code of Federal Regulations 10CFR50.55a, United States Nuclear Regulatory Commission Guidelines, Indian Point No. 3 FSAR, Indian Point Unit No.3 Technical Specifications and United States Nuclear Regulatory Commission SER dated December 21, 1994.

Indian Point Unit 3 was designed prior to the implementation of ASME Boiler and Pressure Codes resulting in unforeseen difficulties during the 2nd Interval that determined conformance with certain code requirements to be impractical for this facility. Throughout the 2nd Interval, changes in technology were employed to adhere to the necessities of the code. Examinations were conducted to inspect as much of the specified volume and or surface as reasonably practical. In some cases, examinations were limited by geometric, metallurgical, or design access restrictions and may have been impeded by scanning limitations.

Relief Requests are being submitted pursuant to 10 CFR 50.55a (a)(3)(i), 10 CFR 50.55a (a)(3)(ii), 10 CFR 50.55a (g)(5)(iii) and/or in accordance with an approved Relief Request as stipulated in a Safety-Evaluation (SE) by the Office of Nuclear Reactor Regulation. The requests, along with their specific regulatory basis, are described in detail along with supporting technical discussion, documentation and referenced SE. Included in the Tables and Enclosures are welds examined during the 2nd Ten-Year Interval (8/86 -7/00) whose inspections have **not** met the code required coverage as defined in Code Case N-460, Alternative Examination Coverage for Class 1 and Class 2 Welds, along with sketches and/or drawings that depict the limiting condition.

A number of code items with limitations had been granted relief during the initial 2nd Interval Program Plan submittal and subsequent SER phase. These items are identified in the enclosures with a specific reference to the document granting the relief.

CLASS 1 COMPONENTS

Relief Request RR 2-Closeout-1, Rev. 0

Code Category B-A: **Pressure Retaining Welds in Reactor Vessel**

Item No. B1.10 **Shell Welds**
Item No. B1.12 **Longitudinal**

Relief is requested in accordance with the provisions of 10 CFR 50.55a (g)(5)(iii) from the full Code-required extent of volumetric examination for the following longitudinal weld in the Reactor Vessel Shell Weld listed in Table 1.

Examination Requirements

ASME Section XI, 1983 Edition through Summer 1983 Addenda, requires 100% volumetric examination of one longitudinal shell weld in the beltline region at a design structural discontinuity, if any.

Basis for Relief

Inspections of the Code-required accessible length of one weld was conducted on the RPV Shell Longitudinal Weld #5 where a design structural discontinuity is present with limitations which restricted access. Access to the area is limited because of the cutout for the outlet nozzle centered at 22 degrees. The effective length of the long seam weld is 70 inches. Scanning of the portions of the long seam weld #5 near the nozzle is limited due to interference from the nozzle boss. Coverage is estimated at 76%. (Ref. Technique drawings sheets 1, 14, & 15 attached).

Proposed Alternative Examinations

1. No additional volumetric examinations will be performed. The RPV Shell Longitudinal Weld #5 has been examined to the maximum extent practical from the inside surface.

2. A visual examination (VT-2) has been performed in conjunction with the pressure testing conducted on these components every refuel outage (with no evidence of leakage detected) in accordance with IWA-5000 and IWB-5000, which provides reasonable assurance of component integrity.

RPV Pressure Retaining Weld addressed by this Relief Request is listed in Table 1. Drawings highlighting component design, configuration of interferences, and limitations associated with the examinations are included in Enclosure 1.

Table 1

Code Category B-A / Item No. B1.12					
INT No.	**Weld ID**	**System / Component**	**Extent Examined**	**Limitation**	**Remarks**
1-1100	Weld #5	RPV Shell Weld – Longitudinal	76%	Restricted Access due to interference from the nozzle boss.	10" Accumulator Discharge Line 351

ENCLOSURE 1

B-A, B1.12
(6 pages)

INDIAN POINT UNIT 3

R. V. COVERAGE ESTIMATE BREAKDOWNS

DIRECTION / ORIENTATION

PARALLEL SCANS UP / DN

PERP. SCANS CW / CCW

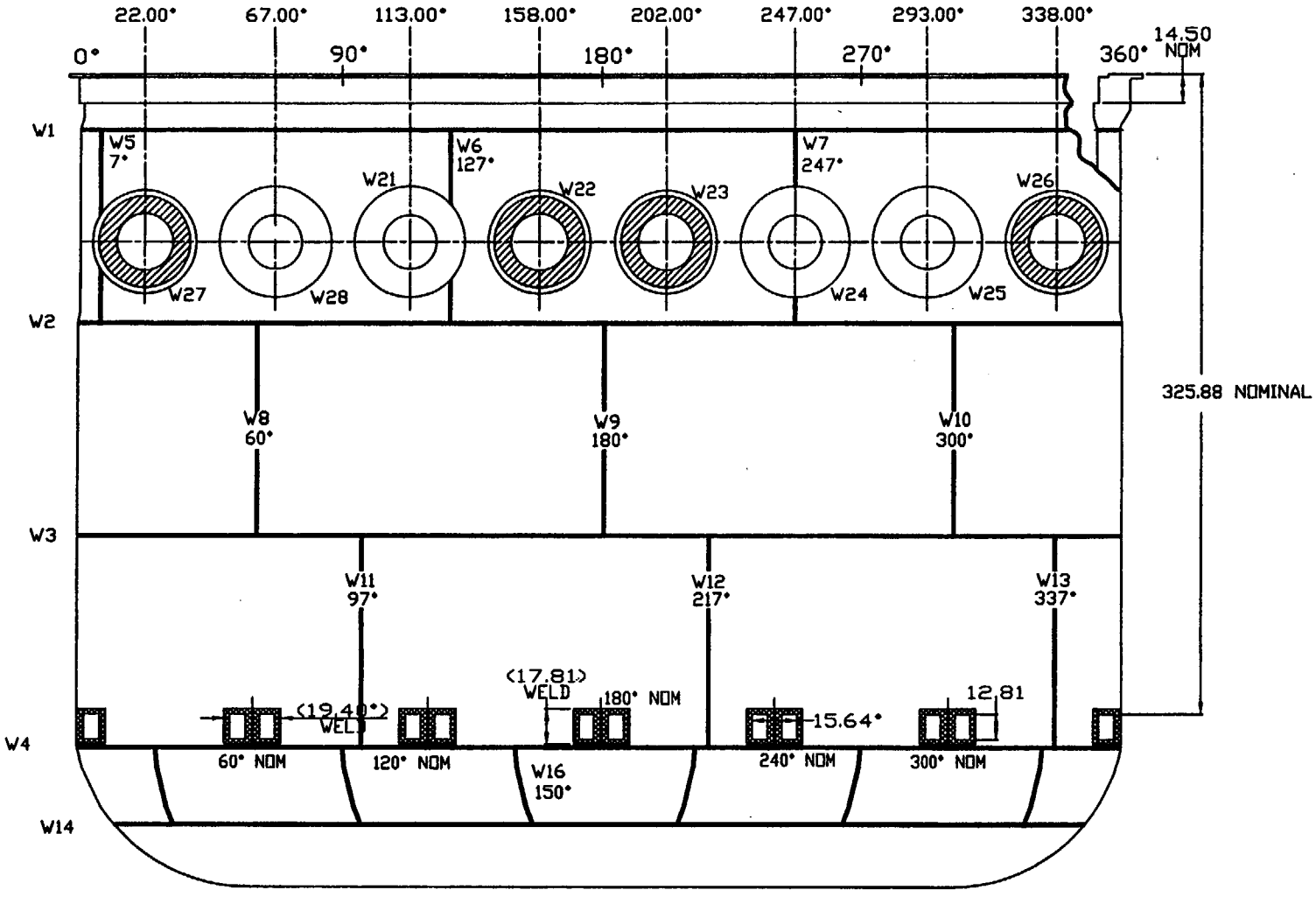
ITEM / AREA Upper Shell Course Long Seam at 7°

WELD NO. 5

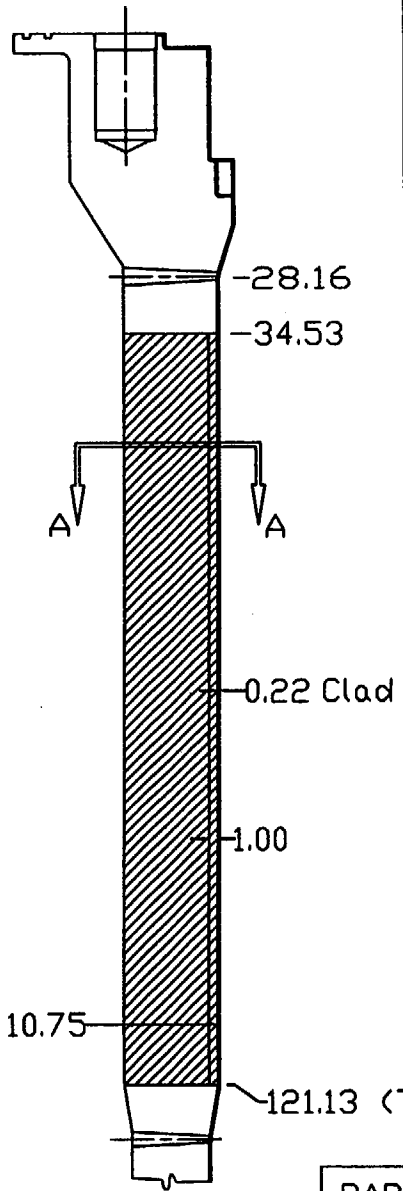
BEAM ANGLES

BEAM DIRECTION	45°		60°		70°		0°			
	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME
CCW	78	78	78	78	76	76	75	75		
CW	78	78	78	78	76	76				
UP (IN)	75	75	75	75	75	75				
DOWN (OUT)	75	75	75	75	75	75				
BORE AXIAL										

ANALYST 

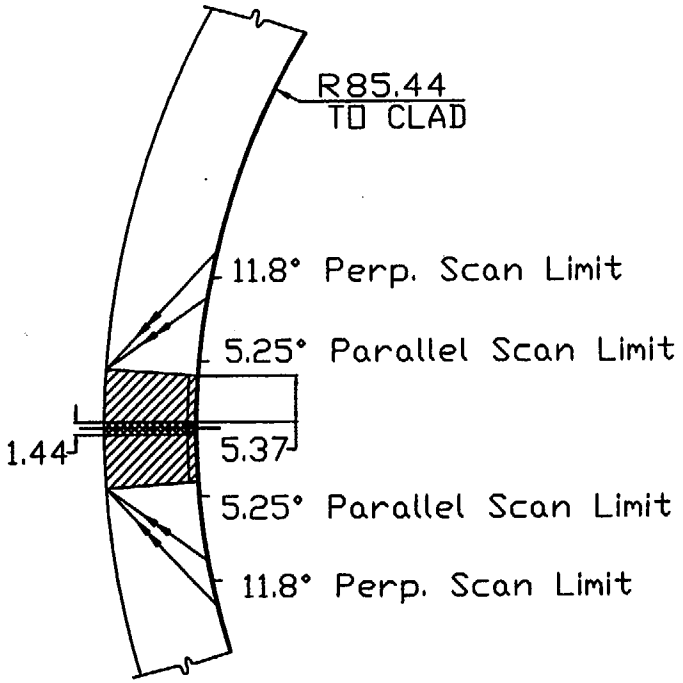


INDIAN POINT 3	
WesDyne International	
SHEET TITLE	Vessel Rollout
WesDyne Drawing # INT-99	
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED	SHEET 1 OF 23



Upper Long. Welds
W5 @ 7°
W6 @ 127°
W7 @ 247°

See next sheet for specific scan areas due to limitations



SECTION A-A

PARALLEL INDEX = 0.33°
PERP INDEX = 0.5°

INDIAN POINT 3	
WesDyne International	
SHEET TITLE:	UPPER LONG SEAMS
NUMBER:	WesDyne Drawing # INT-99
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED	SHEET 14 OF 23

PARALLEL SCANS

Weld No.	Dtop	Dbottom	Dstart	Dstop
W5	49.5	59.25	1.75°	12.25°
W5	110.0	115.0	1.75°	12.25°
W6	49.5	67.9	121.75°	132.25°
W6	94.25	115.0	121.75°	132.25°
W6	89.0	94.5	126.75°	138.8°
W7	49.5	61.75	276°	288°
W7	109.0	115.0	241.75°	252.25°

PERPENDICULAR SCANS

Weld No.	Dtop	Dbottom	Dstart	Dstop
W5	35.25	62.25	355.2° (-4.8°)	18.8°
W5	112.0	119.0	355.2° (-4.8°)	18.8°
W6	35.25	65.25	115.2°	138.8°
W6	106.0	119.0	115.2°	138.8°
W7*	35.25	52.0	235.2°	258.8°

* Note: Coverage of the lower portion of W7 accomplished with inlet nozzle Tan scan and scans of W2.

UPPER LONG. WELDS
W5 @ 7°
W6 @ 127°
W7 @ 247°

INDIAN POINT 3

WesDyne International

SHEET TITLE: UPPER LONG SEAMS

WesDyne Drawing # INT-99

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED

NEW YORK POWER AUTHORITY

INDIAN POINT UNIT 3

REACTOR VESSEL EXAMINATION

SITE EXIT SUMMARY

09-27-99

Introduction

The Indian Point Unit 3 reactor vessel was examined by WesDyne International in conjunction with the Westinghouse Electric Company, Nuclear Services Division from Sept. 22 through Sept. 27, 1999. Examinations were governed by the Indian Point Unit 3 Plant Technical Specifications, The ASME Boiler and Pressure Vessel Code, Section XI and Section V, 1983 Ed. including summer 1983 Addenda, USNRC Regulatory Guide 1.150 Revision 1 and operating procedure INT-ISI-254, Revision 0.
Manual examinations of the flange to shell weld were conducted per procedure INT-ISI_54 Rev. 0 . Manual examinations of the threads in flange were conducted per procedure INT-ISI-55 Rev. 0.

Examinations and related activities including calibrations were witnessed by the Indian Point Unit 3 technical staff, the Authorized Nuclear Inservice Inspector and representatives from the USNRC.

Remote Examinations

Instructions for calibrations, examinations and assessment of recorded data is contained in procedure INT-ISI-254 Revision 0. Considered an integral part of the procedure is the Examination Program Plan, Rev. 0. The program plan is a plant specific document detailing the calibration blocks, beam angles, arrangement of transducers on the various end-effectors and twenty-three drawings depicting the reactor vessel section profiles and scanning paths. The scanning paths depicted in the technique drawings served as the input data for the models generated in the Supreem robot motion control software.

Examinations were conducted completely in the contact technique using two WesDyne Paragon multi-channel data acquisition systems, one interfaced to each Supreem scanning platform. The exam plan specified the use of 45, and 60 degree shear wave single element, 0 degree L wave single element and 70 degree L-wave triple element transducers for all vessel shell weld exams. All shell welds were and specified adjacent examination volumes were examined in both parallel and perpendicular scanning directions.

Limitations

Certain areas of a Westinghouse design 4-loop reactor vessel have obstructions which do not allow for transducer movement thereby limiting the coverage of the volumes. Following is a summary of areas where coverage cannot be calculated by any method as being at least 90%.

Weld 4, lower head to lower shell weld.

A total of 6 core support lugs occupying a space of about 20 degrees each are positioned in elevation about 4 inches above the lower shell to lower head circumferential weld. Scans were conducted between core lugs in the perpendicular and parallel directions and the scanning boundaries were maximized by visually assisted positioning of the exam head at the starting and stopping points. Examinations were also conducted beneath the core support lugs to the extent practical in the parallel and perpendicular scanning direction. Complete coverage is not practical even with additional scans and re-positioning of transducers. Coverage is estimated at 66%. (Ref. Technique drawings sheets 1,20 and 21)

Weld 5, upper shell course long seam at 7 degrees vessel axis.

Upper shell long weld No. 5 is located in the vessel upper shell course at an angular location where it intersects the cutout for the outlet nozzle centered at 22 degrees. The effective length of the long seam is 70 inches. Scanning of the portions of the long seam near the nozzle is limited due to interference from the nozzle boss. Coverage is estimated at 76%. (Ref. technique drawings, sheets 1, 14 and 15)

Outlet nozzle to shell weld, tangential scans. Welds 22,23,26 and 27

Nozzle to shell welds are examined from the bore in axial scans and from the vessel inside diameter surface to examine for transverse defects. For the outlet nozzles, the nozzle boss or protrusion completely obstructs scanning of the portion of the examination volume in the nozzle barrel. Coverage is estimated at 100% from the bore, 43% from the vessel ID. (Ref. technique drawings, sheet 12)

D. Kurek
WesDyne International
9-27-99

Code Category B-A:	Pressure Retaining Welds in Reactor Vessel
Item No. B1.20	**RPV Bottom Head Welds**
Item No. B1.21	**Circumferential**

- Relief Request RR 2-2, rev. 0 for Item B1.21 previously granted via SER (TAC No. 72247, dated November 7, 1991)

Code Category B-A: **Pressure Retaining Welds in Reactor Vessel**

Item No. B1.30 **Shell to Flange Weld**

- Relief Request RR 2-4, rev. 0 for Item B1.30 previously granted via SER (TAC No. 72247, dated November 7, 1991)

Code Category B-A: **Pressure Retaining Welds in Reactor Vessel**

Item No. B1.40 **Head to Flange Weld**

- Relief Request RR 2-5, rev. 1 for item B1.40 previously approved via SER (TAC No. M82269, dated December 21, 1994)

Code Category B-B:	Pressure Retaining Welds in Vessels other than Reactor Vessel
Item No. B2.11	**Pressurizer Shell-to-Head – Circumferential**
Item No. B2.12	**Pressurizer Shell-to-Head – Longitudinal**

- Relief Request RR 2-8, rev. 0 for item B2.11 & 2.12 previously granted (Ref. TAC No. 72247, dated November 7, 1991).

Relief Request RR 2-Closeout-2, Rev. 0

Code Category B-D: **Full Penetration Welds of Nozzles in Vessels**

Item No. B3.90 **Reactor Vessel Nozzle -to-Vessel Welds**

Relief is requested in accordance with the provisions of 10 CFR 50.55a (g)(5)(iii) from the full Code-required extent of volumetric examination for the following Nozzle-to-Vessel welds listed in Table 2.

Examination Requirements

ASME Section XI, 1983 Edition through Summer 1983 Addenda, requires 100% volumetric examination of all nozzle-to-vessel welds.

Basis for Relief

Inspections of the Code-required accessible length of all nozzle-to-vessel welds were conducted from the bore in axial scans and from the vessel inside diameter surface to examine for transverse defects in accordance with RG 1.150, rev. 1 and the Westinghouse Position Paper (Reference SER, TAC No. 72247, Page 8, dated November 7, 1991, Relief Request RR 2-1, rev. 0 for which the NRC staff had previously determined no relief is required).

For the outlet nozzles, the nozzle boss or protrusion completely obstructs scanning of the portion of the examination volume in the nozzle barrel. Coverage is estimated at 100% from the bore, 43% from the vessel ID (Ref. technique drawings, sheets 1 and 12, and data sheets for Welds #22, 23, 26, 27 attached).

Proposed Alternative Examinations

1. No additional volumetric examinations will be performed. The RPV Nozzle-to-Vessel Welds #22, #23, #26, and #27 have been examined to the maximum extent practical from the inside surface.

2. A visual examination (VT-2) has been performed in conjunction with the pressure testing conducted on these components every refuel outage (with no evidence of leakage detected) in accordance with IWA-5000 and IWB-5000, which provides reasonable assurance of component integrity.

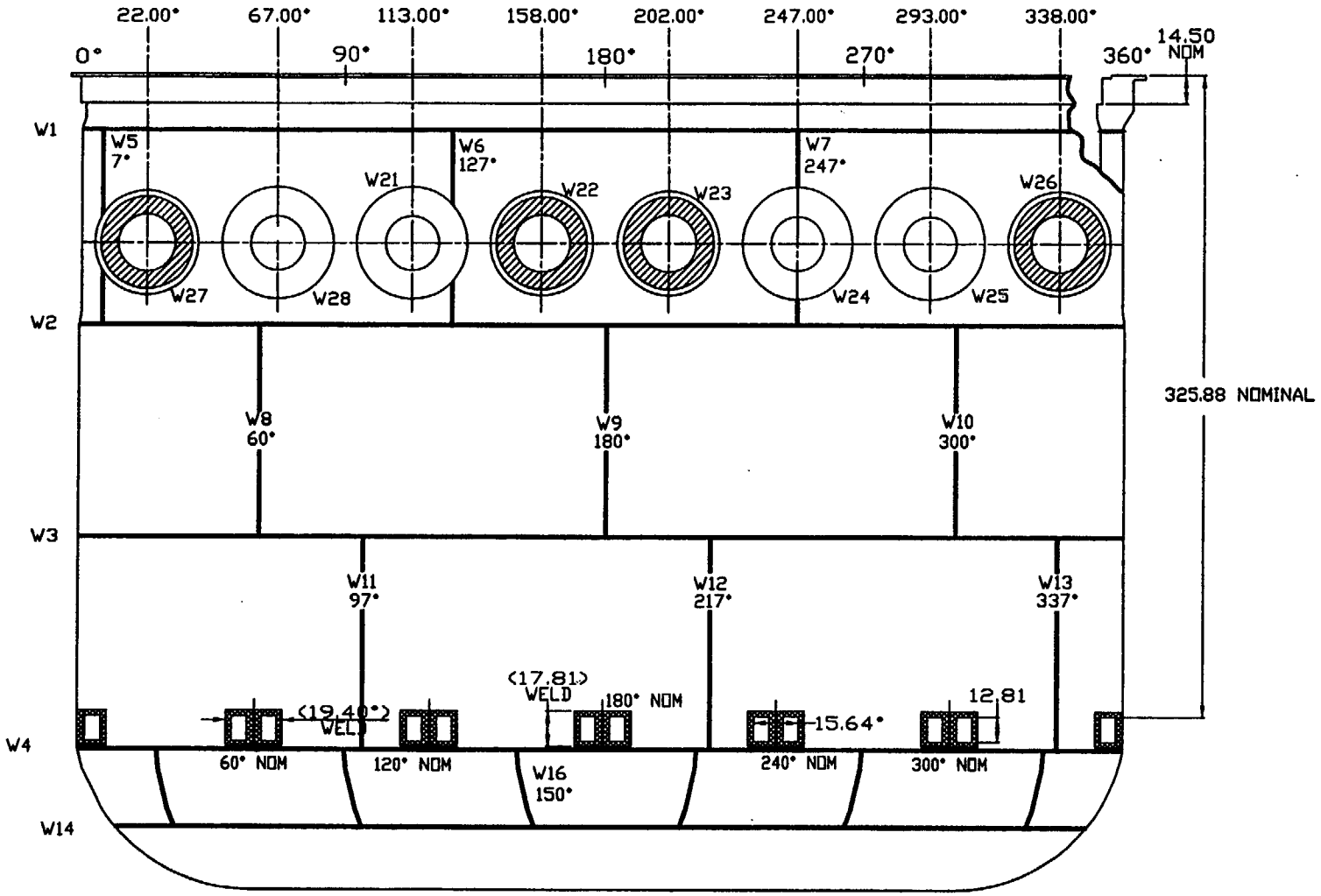
RPV Pressure Retaining Welds addressed by this Relief Request are listed in Table 2. Drawings and data sheets highlighting component design, configuration of interference, and limitations associated with the examinations are included in Enclosure 2.

Table 2

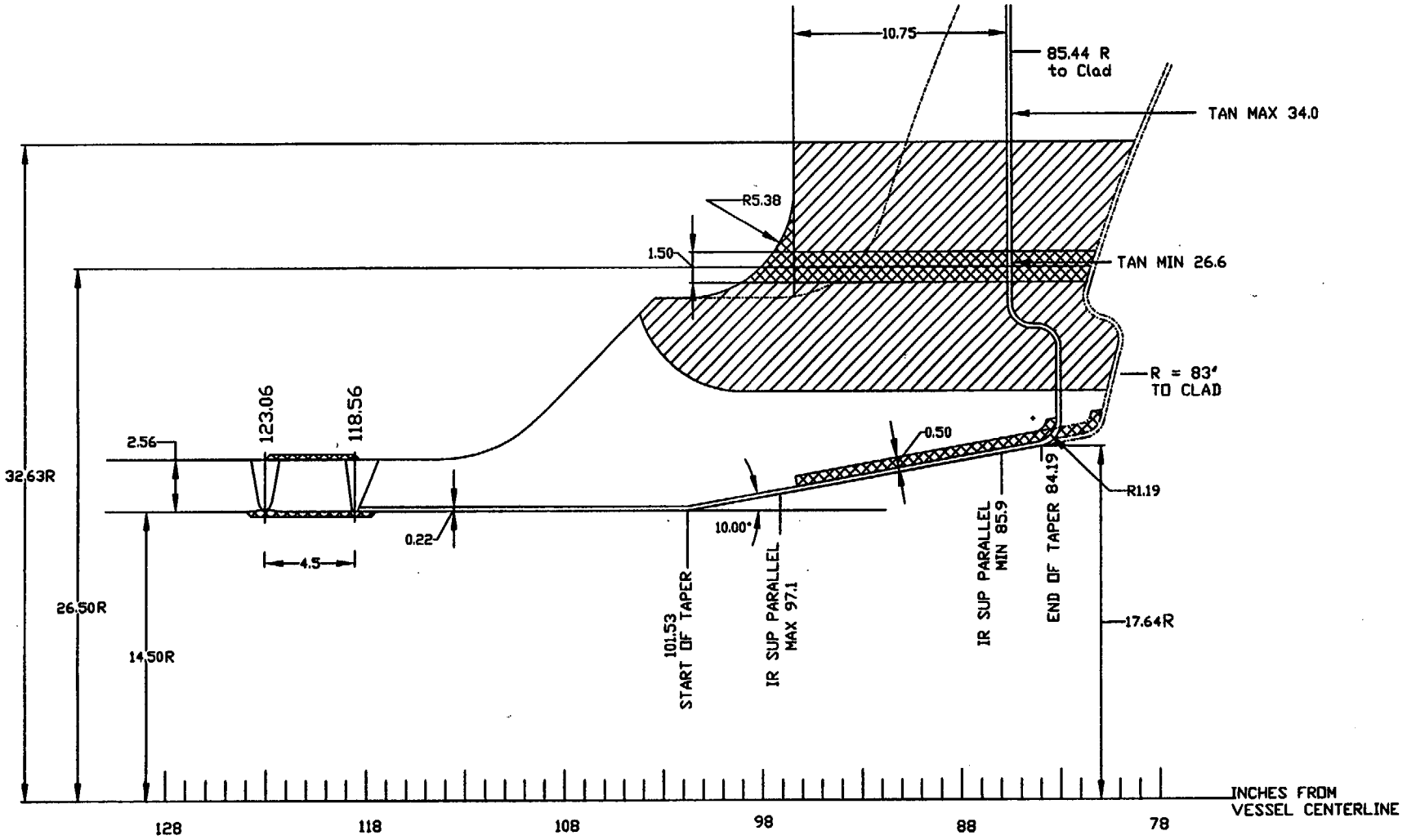
Code Category B-D / Item No. B3.90					
INT No.	**Weld ID**	**System / Component**	**Extent Examined**	**Limitation**	**Remarks**
1-1100	Weld #22	RPV Nozzle-to-Vessel Weld	100 % from the bore, 43% from the vessel ID	Restricted Access due to interference from the nozzle boss.	
1-1100	Weld #23	RPV Nozzle-to-Vessel Weld	100 % from the bore, 43% from the vessel ID	Restricted Access due to interference from the nozzle boss.	
1-1100	Weld #26	RPV Nozzle-to-Vessel Weld	100 % from the bore, 43% from the vessel ID	Restricted Access due to interference from the nozzle boss.	
1-1100	Weld #27	RPV Nozzle-to-Vessel Weld	100 % from the bore, 43% from the vessel ID	Restricted Access due to interference from the nozzle boss.	

ENCLOSURE 2

B-D, B3.90
(8 pages)



INDIAN POINT 3	
WesDyne International	
SHEET TITLE	Vessel Rollout
WesDyne Drawing # INT-99	
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED	SHEET 1 OF 23



IR SUP INDEX INCREMENT = 0.3"

TAN SCAN INDEX INCREMENT = 0.5"

INDIAN POINT 3	
WesDyne International	
SHEET TITLE:	Outlet IR - TAN
WesDyne Drawing # INT-99	
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED	SHEET 12 OF 23

INDIAN POINT UNIT 3

R. V. COVERAGE ESTIMATE BREAKDOWNS

DIRECTION / ORIENTATION

PARALLEL SCANS Tangential

PERP. SCANS Bore IN/OUT

ITEM / AREA Outlet Nozzle to Shell at 158°

WELD NO. 22

BEAM ANGLES

BEAM DIRECTION	45°S (1)		60°S (1)		70°L (1)		10°L (2)		50°L (2)	
	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME
CCW		43		43		43				
CW		43		43		43				
UP (IN)										
DOWN (OUT)										
BORE AXIAL							89.3	89.3	89.4	89.4

(1) Nozzle Boss Limitation, Tangential Scan
(2) 10°L and 50°L Designed to work together
Combined Coverage – 98.5%

ANALYST

INDIAN POINT UNIT 3

R. V. COVERAGE ESTIMATE BREAKDOWNS

DIRECTION / ORIENTATION

PARALLEL SCANS Tangential

PERP. SCANS Bore IN/OUT

ITEM / AREA Outlet Nozzle to Shell at 202°

WELD NO. 23

BEAM ANGLES

BEAM DIRECTION	45°S (1)		60°S (1)		70°L (1)		10°L (2)		50°L (2)	
	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME
CCW		43		43		43				
CW		43		43		43				
UP (IN)										
DOWN (OUT)										
BORE AXIAL							89.3	89.3	89.4	89.4

(1) Nozzle Boss Limitation, Tangential Scan
(2) 10°L and 50°L Designed to work together
Combined Coverage – 98.5%

ANALYST 9/29/99

INDIAN POINT UNIT 3

R. V. COVERAGE ESTIMATE BREAKDOWNS

DIRECTION / ORIENTATION

PARALLEL SCANS Tangential

PERP. SCANS Bore IN/OUT

ITEM / AREA Outlet Nozzle to Shell at 338°

WELD NO. 26

BEAM ANGLES

BEAM DIRECTION	45°S (1)		60°S (1)		70°L (1)		10°L (2)		50°L (2)	
	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME
CCW		43		43		43				
CW		43		43		43				
UP (IN)										
DOWN (OUT)										
BORE AXIAL							89.3	89.3	89.4	89.4

(1) Nozzle Boss Limitation, Tangential Scan
(2) 10°L and 50°L Designed to work together
Combined Coverage – 98.5%

ANALYST 9/29/98

INDIAN POINT UNIT 3

R. V. COVERAGE ESTIMATE BREAKDOWNS

DIRECTION / ORIENTATION

PARALLEL SCANS Tangential

PERP. SCANS Bore IN/OUT

ITEM / AREA Outlet Nozzle to Shell at 22°

WELD NO. 27

BEAM ANGLES

BEAM DIRECTION	45°S (1)		60°S (1)		70°L (1)		10°L (2)		50°L (2)	
	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME	WELD	VOLUME
CCW		43		43		43				
CW		43		43		43				
UP (IN)										
DOWN (OUT)										
BORE AXIAL							89.3	89.3	89.4	89.4

(1) Nozzle Boss Limitation, Tangential Scan
(2) 10°L and 50°L Designed to work together
Combined Coverage – 98.5%

ANALYST 9/29/98

NEW YORK POWER AUTHORITY

INDIAN POINT UNIT 3

REACTOR VESSEL EXAMINATION

SITE EXIT SUMMARY

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Manual examinations of the flange to shell weld were conducted per procedure INT-ISI_54 Rev. 0 . Manual examinations of the threads in flange were conducted per procedure INT-ISI-55 Rev. 0.

Examinations and related activities including calibrations were witnessed by the Indian Point Unit 3 technical staff, the Authorized Nuclear Inservice Inspector and representatives from the USNRC.

Remote Examinations

Instructions for calibrations, examinations and assessment of recorded data is contained in procedure INT-ISI-254 Revision 0. Considered an integral part of the procedure is the Examination Program Plan, Rev. 0. The program plan is a plant specific document detailing the calibration blocks, beam angles, arrangement of transducers on the various end-effectors and twenty-three drawings depicting the reactor vessel section profiles and scanning paths. The scanning paths depicted in the technique drawings served as the input data for the models generated in the Supreem robot motion control software.

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Limitations

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Weld 4, lower head to lower shell weld.

A total of 6 core support lugs occupying a space of about 20 degrees each are positioned in elevation about 4 inches above the lower shell to lower head circumferential weld. Scans were conducted between core lugs in the perpendicular and parallel directions and the scanning boundaries were maximized by visually assisted positioning of the exam head at the starting and stopping points. Examinations were also conducted beneath the core support lugs to the extent practical in the parallel and perpendicular scanning direction. Complete coverage is not practical even with additional scans and re-positioning of transducers. Coverage is estimated at 66%. (Ref. Technique drawings sheets 1,20 and 21)

Weld 5, upper shell course long seam at 7 degrees vessel axis.

Upper shell long weld No. 5 is located in the vessel upper shell course at an angular location where it intersects the cutout for the outlet nozzle centered at 22 degrees. The effective length of the long seam is 70 inches. Scanning of the portions of the long seam near the nozzle is limited due to interference from the nozzle boss. Coverage is estimated at 76%. (Ref. technique drawings, sheets 1, 14 and 15)

Outlet nozzle to shell weld, tangential scans. Welds 22,23,26 and 27

Nozzle to shell welds are examined from the bore in axial scans and from the vessel inside diameter surface to examine for transverse defects. For the outlet nozzles, the nozzle boss or protrusion completely obstructs scanning of the portion of the examination volume in the nozzle barrel. Coverage is estimated at 100% from the bore, 43% from the vessel ID. (Ref. technique drawings, sheet 12)

D. Kurek
WesDyne International
9-27-99

Code Category B-D: **Full Penetration Welds of Nozzles in Vessels**

Item No. B3.120 **Pressurizer Nozzle Inside Radius Sections**

- Relief Request RR 2-9, rev. 1 for item B3.120 previously submitted and approved (Ref. TAC No. 72247, page 18, dated November 7, 1991)

Relief Request RR 2-Closeout-3, Rev. 0

Code Category B-D: **Full Penetration Welds of Nozzles in Vessels**

Item No. B3.140 **Steam Generators (Primary Side) Nozzle Inside Radius Sections**

Relief is requested in accordance with the provisions of 10 CFR 50.55a (g)(5)(iii) from the full Code-required extent of volumetric examination for the Steam Generator (Primary Side) Nozzle Inside Radius Sections listed in Table 3.

Examination Requirements

ASME Section XI, 1983 Edition through Summer 1983 Addenda, requires 100% of the Steam Generator Nozzle Inside Radius Sections be volumetrically examined.

Basis for Relief

Complete inspection of the Code-required volume is not possible due to restriction caused by Support Lugs on the Nozzle configuration (see attached sketch and data sheets, Enclosure 3). These welds have been examined to the maximum extent practical in accordance with the standard industry practices.

Proposed Alternative Examinations

1. No additional volumetric examinations will be performed on these welds. The components listed in this relief request have been examined to the maximum extent practical.

2. A visual inspection (VT-2) is performed in conjunction with the pressure testing conducted on these components every refuel outage (with no leakage detected) in accordance with IWA-5000 and IWB-5000, which provides reasonable assurance of component integrity.

Drawings and sketches that illustrate the restricted conditions encountered which limit examination coverage are included in Enclosure 3.

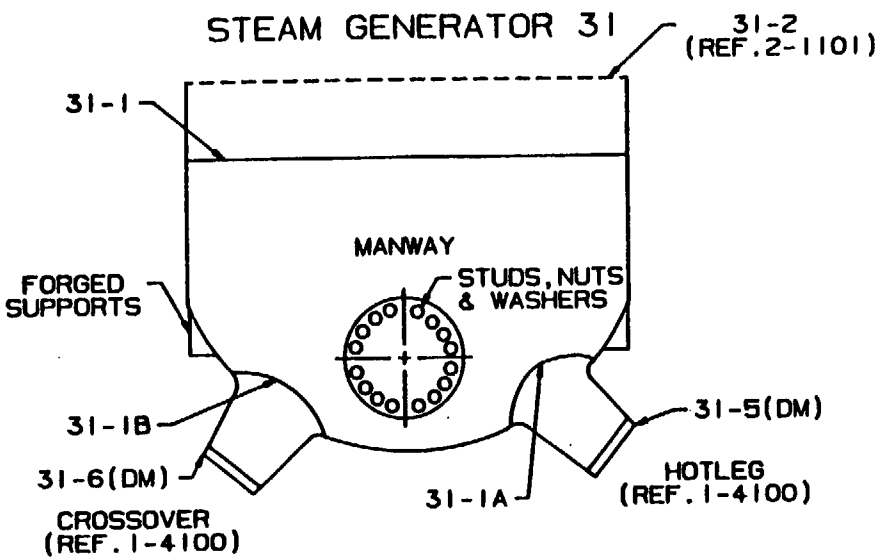
Table 3

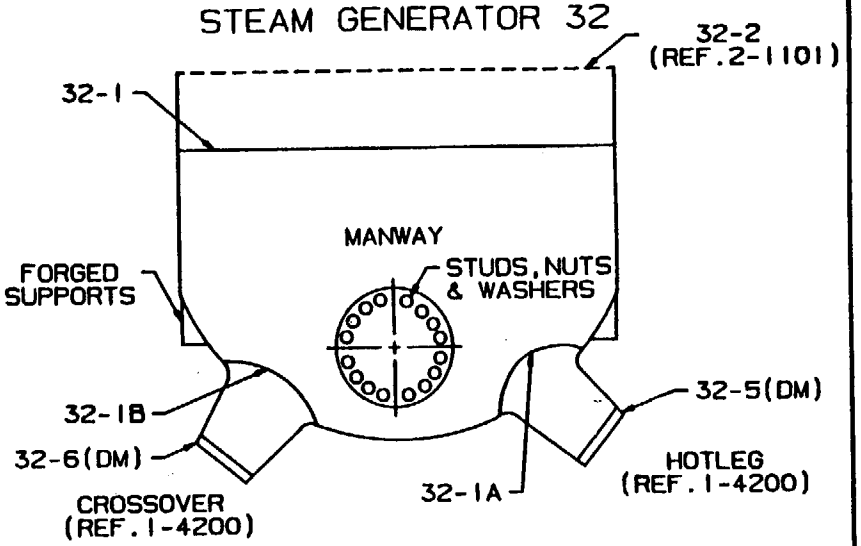
Code Category B-D /Item No.B3.140					
INT No.	**Weld ID**	**System / Component**	**Extent Examined**	**Limitation**	**Remarks**
1-3101	Weld 31-1A	RCS – Steam Generator	50% (1)	Support Lugs on the Nozzle Configuration	
1-3101	Weld 31-1B	RCS – Steam Generator	50% (1)	Support Lugs on the Nozzle Configuration	
1-3101	Weld 32-1A	RCS – Steam Generator	50% (1)	Support Lugs on the Nozzle Configuration	
1-3101	Weld 32-1B	RCS – Steam Generator	50% (1)	Support Lugs on the Nozzle Configuration	
1-3101	Weld 33-1A	RCS – Steam Generator	50% (1)	Support Lugs on the Nozzle Configuration	

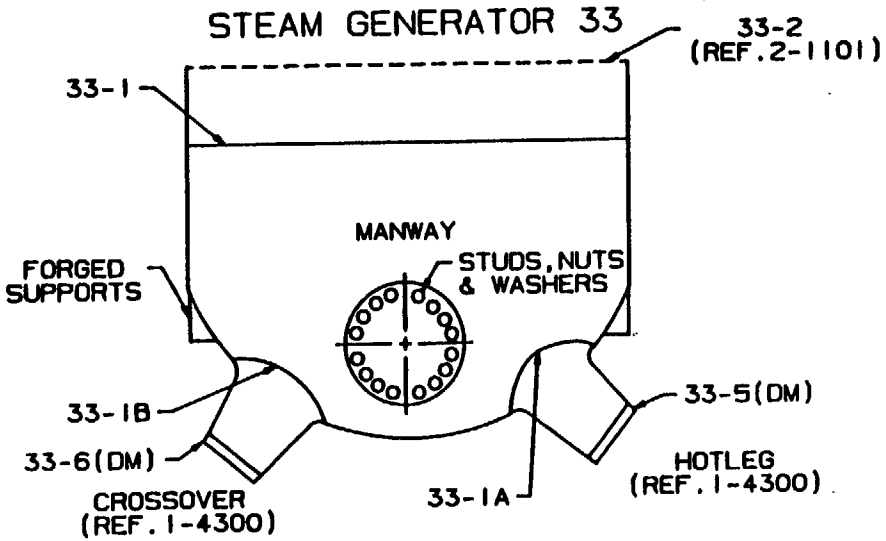
NOTES:
(1) A 50% exam coverage credit is taken for these types of geometry limitations.

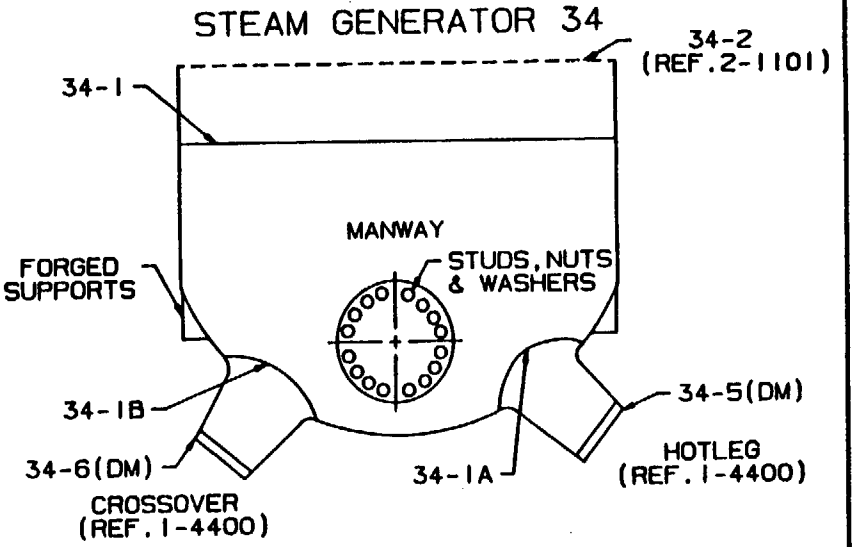
ENCLOSURE 3

B-D, B3.140
(11 pages)









CHANNEL HEAD TO TUBESHEET WELDS 31-1,32-1,33-1 & 34-1:
5.65"T SA508 CLASS 3 CARBON STEEL:
DIAMETER: 129.25"; CIRCUMFERENCE: 405.84"
0 REFERENCE:TOP CENTERLINE OF HOTLEG MANWAY
NOZZLE TO VESSEL WELDS: NOT APPLICABLE
NOZZLE INSIDE RADIUS SECTIONS 31-1A,31-1B,32-1A,32-1B,
33-1A,33-1B,34-1A & 34-1B: SA 508 CLASS 3 CARBON STEEL
NOZZLE TO SAFE-ENDS 31-5(DM),31-6(DM),32-5(DM),32-6(DM),33-5(DM),
33-6(DM),34-5(DM) & 34-6(DM): 31" I.D.
SA508 CLASS 3 CARBON STEEL WITH TYPE 308L STAINLESS STEEL
MANWAY STUDS,NUTS & WASHERS:HOTLEG AND COLDLEG:16 STUDS(DIA.1.88"),
16 NUTS AND 32 WASHERS EACH MANWAY
INTEGRALLY WELDED ATTACHMENTS: NOT APPLICABLE

NEW YORK POWER AUTHORITY INDIAN POINT UNIT NO.3	
REPLACEMENT STEAM GENERATORS RCPCSG1-31,RCPCSG2-32, RCPCSG3-33 & RCPCSG4-34	
INT-1-3101	REV. 1

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WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT	UNIT	SKETCH
INDIAN POINT	NO. 3	INT-1-3101
SYST/COMP. REPLACEMENT STEAM GENERATOR RCPCSG1-31		PROCEDURE INT-ISI-248 REV. 0
EXAMINER (LEVEL II) [signatures] I		DATE 10-28-90

EQUIPMENT	TRANSDUCER		STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5					CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8					CALIBRATION CHECK
INST. S/N SONIC MARK 1 11222E	S/N									B14656					INITIAL TIME
	SIZE									0.5" x 1.0"					IC: 1120
	FREQ.									2.25 MHz					CC: 1400
	ANGLE									30°L					
	CALIBRATION REFLECTOR LOCATION		SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	50% DAC LOCATIONS		SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	50% DAC LOCATIONS		
REP. RATE 1K															
REJECT OFF	NOTCH D									80%	5.0	5.3"	4.8"	5.7"	
													4.9S	5.2S	
DAMPING MIN	NOTCH E									48%	6.5	6.0"	5.5"	6.5"	
													6.4S	6.8S	
FILTER HI	NOTCH F									48%	8.0	6.7"	6.25"	7.1"	FINAL TIME 1610
													7.8S	8.1S	
LIN. CHECK SAT															
SU CABLE 12' BNC-BNC															CAL. BLOCK INT-51
COUPLANT SONOTRACE 40 BATCH # 8979	CAL. GAIN									82 dB					THICKNESS 13.5" TEMP. 76°F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	NRI	RI	REMARKS
31-1A	82°F				YES		SUPPORT LUG, SEE ATTACHED LIMITATION TO EXAMINATION SHEET	ROUNDED (BLENDED RADIUS)	X			
31-1B	82°F				YES		SUPPORT LUG, SEE ATTACHED LIMITATION TO EXAMINATION SHEET	ROUNDED (BLENDED RADIUS)	X			NOTE: SCRIBE/REF. LINE MEASUREMENTS TAKEN FROM NOTCHED END OF CAL. BLOCK.
												SURFACE THERMOMETER S/N 1979

[signature] 10/31/90
SITE NDE LEVEL III

ADS/HBB 11-2-90

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WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT: INDIAN POINT | UNIT: No.3 | SKETCH: INT-1-3101
SYST/COMP.: REPLACEMENT STEAM GENERATOR RCPCSG1-31 | PROCEDURE: INT-ISI-248 REV. 0
EXAMINER (LEVEL II): William H Talley, Robert Grant, Bill Ast | DATE: 10-28-90

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5					CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8					CALIBRATION CHECK
INST. S/N: SONIC MARK 1 05940E	S/N								B14653					INITIAL TIME
	SIZE								0.5" X 1.0"					IC: 1027
	FREQ.								2.25 MHz					CC: 1350
	ANGLE								30°L					
REP. RATE: 1K	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	DISTANCE FROM SCRIBE/REF. LINE TO 50% DAC LOCATIONS		SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	DISTANCE FROM SCRIBE/REF. LINE TO 50% DAC LOCATIONS		
REJECT: OFF	NOTCH A								80%	5.0	5.8"	4.9"	6.45"	
												4.6S	5.5S	
DAMPING: MIN	NOTCH B								80%	6.5	6.6"	5.6"	7.3"	
												6.1S	6.9S	
FILTER: HI	NOTCH C								70%	8.0	7.6"	6.7"	8.75"	FINAL TIME 1619
LIN. CHECK: SAT												7.8S	8.8S	
SU CABLE: 12' BNC-BNC														CAL. BLOCK INT-51
COUPLANT: SONOTRACE 40 BATCH #8979	CAL. GAIN								77dB					THICKNESS 13.5"
														TEMP. 76°F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	NRI	RI	REMARKS
31-1A	82°F				YES		6 WELDED PADS (2"X2½") & SUPPORT LUG, SEE ATTACHED LIMITATION TO EXAMINATION SHEET	FLAT TRANSITION (SMOOTH)	X			
31-1B	82°F				YES		6 WELDED PADS (2"X2½") & SUPPORT LUG, SEE ATTACHED LIMITATION TO EXAMINATION SHEET	FLAT TRANSITION (SMOOTH)	X			REFERENCE ATTACHED ULTRASONIC DATA SHEET NOTE: SCRIBE/REF. LINE MEASUREMENTS TAKEN FROM NOTCHED EDGE OF CAL. BLOCK. SURFACE THERMOMETER S/N 1979

APS/HBB 11-2-90

10/31/90
SITE NDE LEVEL III

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WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

ULTRASONIC INDICATION DATA

PLANT: INDIAN POINT | UNIT: NO. 3 | SKETCH: INT-1-3101

SYST/COMP: REPLACEMENT STEAM GENERATOR RCPCSG1-31 | PROCEDURE: INT-ISI-248 REV. 0

EXAMINER (LEVEL II): William E Kelly Robert St Coast Bill Ast | DATE: 10-28-90

LINEARITY AND CAL. CHECK: SAT | CAL. BLOCK THICKNESS: 13.5"

WELD NUMBER	INDICATION LENGTH FROM	INDICATION LENGTH TO	MIN. 50% SWP.	MIN. 50% IN. TO REF.	MIN. 100% SWP.	MIN. 100% IN. TO REF.	PEAK SWP.	PEAK IN. TO REF.	PEAK ± DAC AMPL.	MAX. 100% SWP.	MAX. 100% IN. TO REF.	MAX. 50% SWP.	MAX. 50% IN. TO REF.	BEAM ANGLE	BEAM DIR.	THICKNESS SURF. 2	THICKNESS WELD	THICKNESS SURF. 5	REMARKS
31-1B	(1) 1 1/2"	7"					1.6	50 1/2"	100% +18dB					30°L	7	(2) 7.09"	NA	(3) 8.94"	(4)
31-1B	(1) 1 1/2"	7"					4.5	52"	100% +4dB					30°L	7	(2) 7.09"	NA	(3) 8.94"	(4)
31-1B	(1) 1 1/2"	7"					1.6	54 1/2"	100% +18dB					30°L	8	(2) 7.09"	NA	(3) 8.94"	(4)
31-1B	(1) 1 1/2"	7"					4.5	55 3/4"	100% +4dB					30°L	8	(2) 7.09	NA	(3) 8.94"	(4)

NOTE (1) FROM AND TO MEASUREMENTS TAKEN FROM CENTERLINE OF 5" BLENDED RADIUS. FOR 0" DATUM POINT REFERENCE LIMITATION TO EXAMINATION SHEET.

NOTE (2) THICKNESS AT 6" FROM CENTERLINE OF BLENDED RADIUS.

NOTE (3) THICKNESS AT 1 1/2" FROM CENTERLINE OF BLENDED RADIUS.

NOTE (4) GEOMETRIC REFLECTOR FROM 0.64" DIA. DRAIN TUBE.

10/29/90

CITE NDE LEVEL III

APS 11-2-90

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

LIMITATION TO EXAMINATION

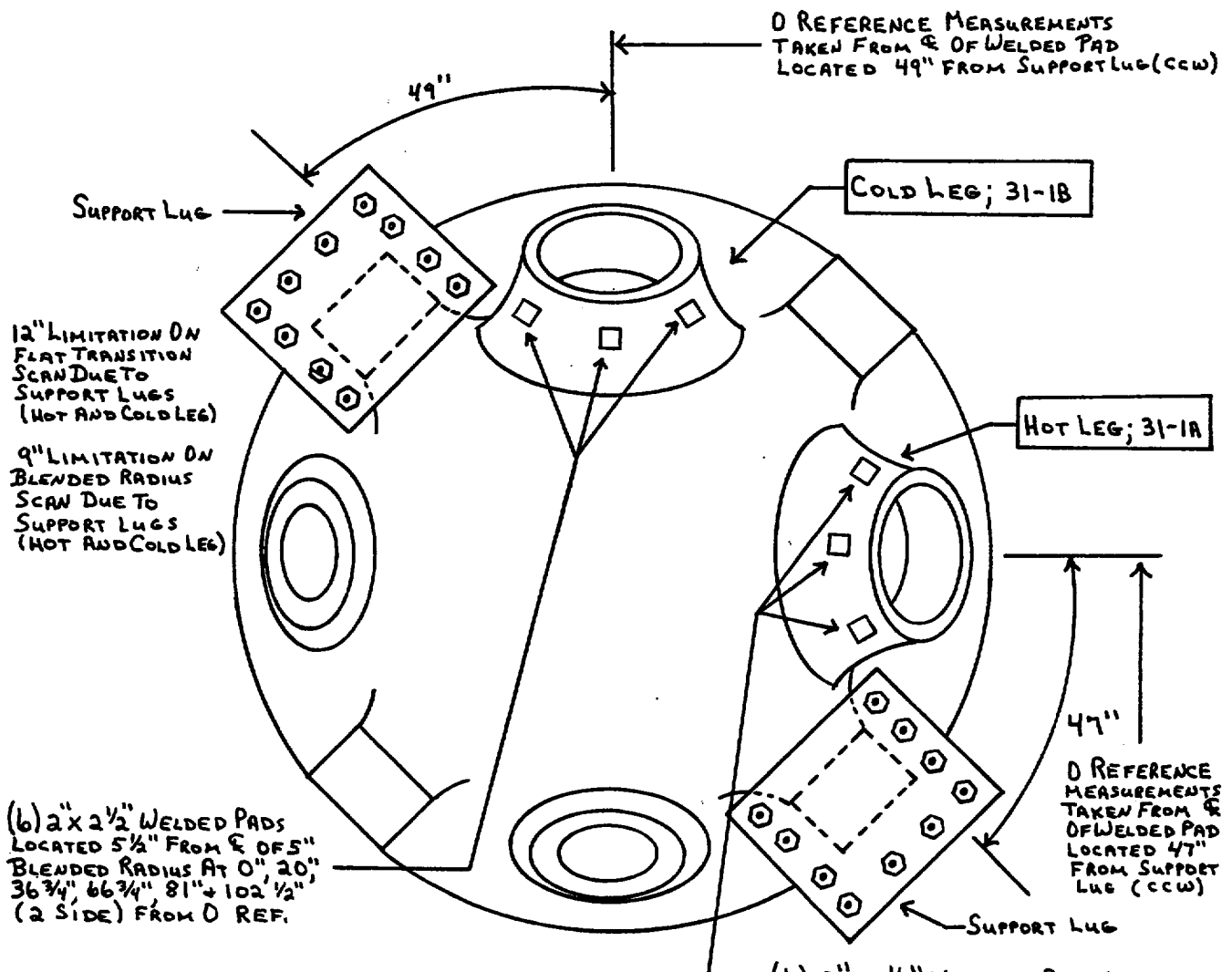
PLANT INDIAN POINT UNIT No.3 SKETCH INT-1-3101

SYST/COMP REPLACEMENT STEAM GENERATOR RCPCSG1-31 PROCEDURE INT-ISI-248 REV.0

EXAMINER [signature] LEVEL II DATE 10-28-90

RELATED TO: U/T ✓ P/T _____ M/T _____ V/T _____ ITEM(S): 31-1A + 31-1B

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



NOTE: ALL MEASUREMENTS TAKEN AT ℄ OF WELDED PADS.

10/31/90

APS/IKB 11-2-90

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CITE INDEX RUEL III

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT	UNIT	SKETCH
INDIAN POINT	NO. 3	INT-1-3101 REV. 1
SYST. / COMP.		**PROCEDURE**
REPLACEMENT STEAM GENERATOR RCPCSG2-32		INT-ISI-248, REV. 0
EXAMINER (LEVEL II) William G. Holley		**DATE** 5-31-97

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5					CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8					CALIBRATION CHECK
INST. S / N STAVELEY SONIC/136-904K	S / N								B14653					INITIAL TIME 0939
REP. RATE 1K	SIZE								0.5"X1.0"					
REJECT OFF	FREQ.								2.25 MHz					
DAMPING 500 OHMS	ANGLE								30° L					
FILTER 1	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE / REF. LINE TO PEAK	50% DAC LOCATIONS		SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE / REF. LINE TO PEAK	50% DAC LOCATIONS		
LIN. CHECK SAT	NOTCH A								80%	5.0	4.0"	3.7" / 4.8s	4.4" / 5.2s	
S. U. CABLE RG-174 12' BNC-BNC	NOTCH B								50%	6.5	4.6"	4.2" / 6.3s	5.1" / 6.6s	
COUPLANT SONOTRACE 40 96343	NOTCH C								50%	8.0	5.45"	4.85" / 7.9s	5.95" / 8.3s	FINAL TIME 1133
														CAL. BLOCK INT-51
	CAL. GAIN								65.4dB					THICKNESS 13.5"
														TEMPERATURE 86°F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	NRI	RI	REMARKS
32-1A	105°F				YES		(6) WELDED PADS (2" X 2 1/2") AND SUPPORT PLATE, SEE LIMITATION TO EXAMINATION SHEET	SMOOTH (FLAT TRANSITION)	X			SURFACE THERMOMETER S/N 10080
							9% NOT EXAMINED					
32-1B	105°F				YES		(6) WELDED PADS (2" X 2 1/2") AND SUPPORT PLATE, SEE LIMITATION TO EXAMINATION SHEET	SMOOTH (FLAT TRANSITION)	X			SURFACE THERMOMETER S/N 10080
							9% NOT EXAMINED					NOTE: SCRIBE/REF. LINE MEASUREMENTS TAKEN FROM NOTCHED EDGE OF CAL. BLOCK.

NEW YORK POWER AUTHORITY LEVEL III REVIEW / DATE: [signature] LIII 6/17/97

ANII REVIEW / DATE: [signature] ASB 6-18-97

FORM 4000

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT: INDIAN POINT | UNIT: NO. 3 | SKETCH: INT-1-3101 REV. 1
SYST. / COMP.: REPLACEMENT STEAM GENERATOR RCPCSG2-32 | PROCEDURE: INT-ISI-248, REV. 0
EXAMINER (LEVEL II): William H. Holley | DATE: 5-31-97

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5					CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8					CALIBRATION CHECK
INST. S / N STAVELEY SONIC/136-904K	S / N								B14656					INITIAL TIME 0935
REP. RATE 500 Hz	SIZE								0.5"X1.0"					
REJECT OFF	FREQ.								2.25 MHz					
DAMPING 500 OHMS	ANGLE								30° L					
	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE / REF. LINE TO PEAK	50% DAC LOCATIONS		SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE / REF. LINE TO PEAK	50% DAC LOCATIONS		
FILTER 1	NOTCH D								80%	5.0	5.3"	4.9" / 4.9s	5.8" / 5.2s	
LIN. CHECK SAT	NOTCH E								50%	6.5	6.0"	5.5" / 6.4s	6.5" / 6.8s	
	NOTCH F								50%	8.0	6.85"	6.3" / 7.9s	7.3" / 8.2s	FINAL TIME 1135
S. U. CABLE RG-174 12' BNC-BNC														
COUPLANT SONOTRACE 40 96343														CAL. BLOCK INT-51
	CAL. GAIN								66dB					THICKNESS 13.5"
														TEMPERATURE 85°F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	NRI	RI	REMARKS
32-1A	105°F				YES		SUPPORT LUG & PLATE, SEE LIMITATION TO EXAMINATION SHEET, 4.7% NOT EXAMINED	ROUNDED (BLENDED RADIUS)	X			SURFACE THERMOMETER S/N 10080
32-1B	105°F				YES		SUPPORT LUG & PLATE, SEE LIMITATION TO EXAMINATION SHEET, 4.7% NOT EXAMINED	ROUNDED (BLENDED RADIUS)	X			SURFACE THERMOMETER S/N 10080
												NOTE: SCRIBE/REF. LINE MEASUREMENTS TAKEN FROM NOTCHED EDGE OF CAL. BLOCK.

NEW YORK POWER AUTHORITY LEVEL III REVIEW / DATE: [signature] LIII 6/17/97

ANII REVIEW / DATE: [signature] ISB 6-18-97

FORM 10001

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

LIMITATION TO EXAMINATION

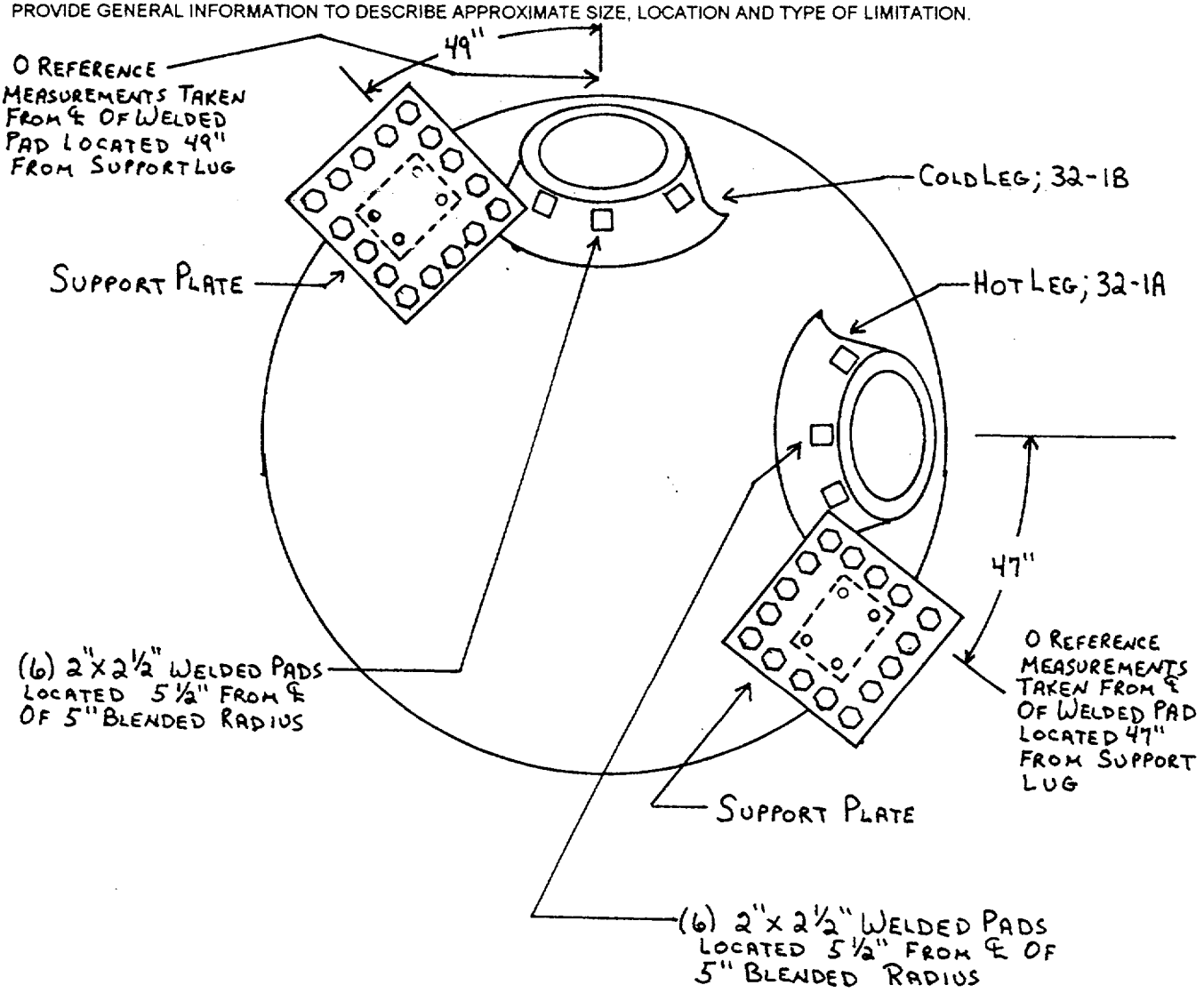
PLANT INDIAN POINT UNIT NO. 3 SKETCH INT-1-3101 REV. 1

SYST./COMP. REPLACEMENT STEAM GENERATOR RCPCSG2-32 PROCEDURE INT-ISI-248, REV. 0

EXAMINER William G. Kelley LEVEL II DATE 5-31-97

RELATED TO: U/T X P/T ____ M/T ____ V/T ____ ITEM(S) 32-1A & 32-1B

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



NEW YORK POWER AUTHORITY LEVEL III REVIEW / DATE CIII 6/17/97

ANII REVIEW / DATE HSB 6-18 97

F4907

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT	UNIT	SKETCH
INDIAN POINT	NO. 3	INT-1-3101 REV. 1
SYST. / COMP.		**PROCEDURE**
REPLACEMENT STEAM GENERATOR RCPCSG3-33		INT-ISI-248, REV. 0
EXAMINER (LEVEL II) William G. Kelly		**DATE** 5-31-97

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5				CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8					CALIBRATION CHECK
INST. S / N STAVELEY SONIC/136-904K	S / N							B14656					INITIAL TIME 0935
REP. RATE 500 Hz	SIZE							0.5"X1.0"					
REJECT OFF	FREQ.							2.25 MHz					
DAMPING 500 OHMS	ANGLE							30° L					
FILTER 1	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE / REF. LINE TO PEAK	DISTANCE FROM SCRIBE / REF. LINE TO 50% DAC LOCATIONS	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE / REF. LINE TO PEAK	DISTANCE FROM SCRIBE / REF. LINE TO 50% DAC LOCATIONS		
LIN. CHECK SAT	NOTCH D							80%	5.0	5.3"	4.9"	5.8"	
											4.9s	5.2s	
	NOTCH E							50%	6.5	6.0"	5.5"	6.5"	
											6.4s	6.8s	
	NOTCH F							50%	8.0	6.85"	6.3"	7.3"	FINAL TIME 1135
S. U. CABLE RG-174 12' BNC-BNC											7.9s	8.2s	
COUPLANT SONOTRACE 40 96343													CAL. BLOCK INT-51
	CAL. GAIN							66dB					THICKNESS 13.5"
													TEMPERATURE 85°F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	NRI	RI	REMARKS
33-1A	105°F				YES		SUPPORT LUG & PLATE, SEE LIMITATION TO EXAMINATION SHEET, 4.7% NOT EXAMINED	ROUNDED (BLENDED RADIUS)	X			SURFACE THERMOMETER S/N 10080
												NOTE: SCRIBE/REF. LINE MEASUREMENTS TAKEN FROM NOTCHED EDGE OF CAL. BLOCK.

NEW YORK POWER AUTHORITY LEVEL III REVIEW / DATE — 6/17/97

ANII REVIEW / DATE — HSB 6-18-97

FORM 1901

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT	UNIT	SKETCH
INDIAN POINT	NO. 3	INT-1-3101 REV. 1
SYST. / COMP.		**PROCEDURE**
REPLACEMENT STEAM GENERATOR RCPCSG3-33		INT-ISI-248, REV. 0
EXAMINER (LEVEL II) William G. Hallam		**DATE** 5-31-97

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5					CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8					CALIBRATION CHECK
INST. S / N STAVELEY SONIC/136-904K	S / N								B14653					INITIAL TIME 0939
REP. RATE 1K	SIZE								0.5"X1.0"					
REJECT OFF	FREQ.								2.25 MHz					
DAMPING 500 OHMS	ANGLE								30° L					
	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE / REF. LINE TO PEAK	50% DAC LOCATIONS		SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE / REF. LINE TO PEAK	50% DAC LOCATIONS		
FILTER 1	NOTCH A								80%	5.0	4.0"	3.7"	4.4"	
												4.8s	5.2s	
LIN. CHECK SAT	NOTCH B								50%	6.5	4.6"	4.2"	5.1"	
												6.3s	6.6s	
S. U. CABLE RG-174 12' BNC-BNC	NOTCH C								50%	8.0	5.45"	4.85"	5.95"	FINAL TIME 1133
												7.9s	8.3s	
COUPLANT SONOTRACE 40 96343														CAL. BLOCK INT-51
	CAL. GAIN								65.4dB					THICKNESS 13.5"
														TEMPERATURE 85°F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS RI	NRI	RI	REMARKS
33-1A	105°F				YES		(6) WELDED PADS (2" X 2 1/2") AND SUPPORT PLATE, SEE LIMITATION TO EXAMINATION SHEET	SMOOTH (FLAT TRANSITION)	X			SURFACE THERMOMETER S/N 10080
							9% NOT EXAMINED					
												NOTE: SCRIBE/REF. LINE
												MEASUREMENTS TAKEN
												FROM NOTCHED EDGE
												OF CAL. BLOCK.

NEW YORK POWER AUTHORITY LEVEL III REVIEW / DATE — 6/17/97

ANII REVIEW / DATE — HSB 6-18-97

FORM 49001

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

LIMITATION TO EXAMINATION

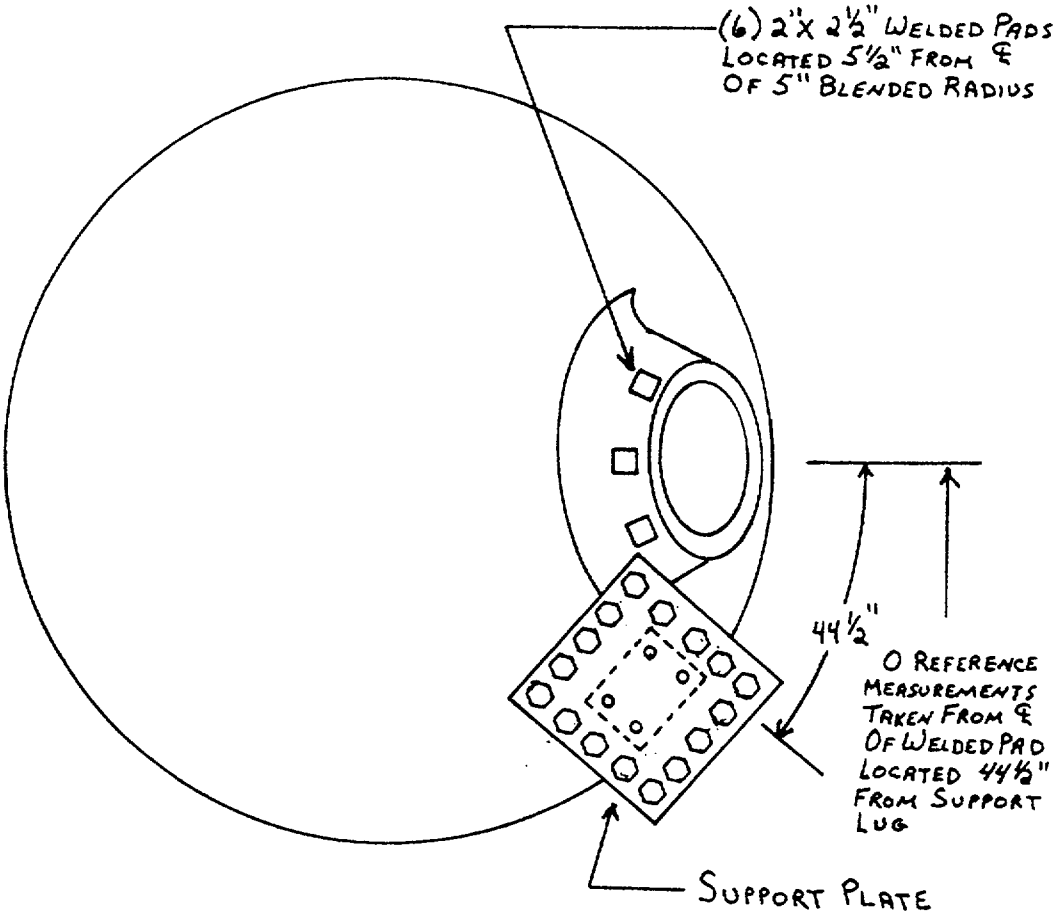
PLANT INDIAN POINT UNIT NO. 3 SKETCH INT-1-3101 REV. 1

SYST./COMP. REPLACEMENT STEAM GENERATOR RCPCSG3-33 PROCEDURE INT-ISI-248, REV. 0

EXAMINER William H. Talley LEVEL II DATE 5-31-97

RELATED TO: U/T X P/T _____ M/T _____ V/T _____ ITEM(S) 33-1A

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



NEW YORK POWER AUTHORITY LEVEL III REVIEW / DATE 6/17/97

ANII REVIEW / DATE ISB 6-15-97

F49077

Code Category B-F: **Pressure Retaining Dissimilar Metal Welds**

Item No. B5.10 **Reactor Vessel Nozzle to Safe End Butt Welds, Nominal Pipe Size ≥ 4"**

- Relief Request RR 2-6, rev. 0 for item B5.10 previously submitted and approved with Conditions (Ref. TAC No. 72247, pages 20-22, dated November 7, 1991). Examination of the Reactor Vessel Nozzle-to-Safe End Butt Welds were performed in accordance with the conditions as stipulated in the approved Relief Request.

Code Category B-F: **Pressure Retaining Dissimilar Metal Welds**

Item No. B5.40 **Pressurizer Nozzle-to-Safe End Butt Welds**
Nominal Pipe Size ≥ 4"

- Relief Request RR 2-23, rev. 0 for item B5.40 previously submitted and approved (Ref. TAC No. M82269, dated December 21, 1994).

Code Category B-F: **Pressure Retaining Dissimilar Metal Welds**

Item No. B5.70 **Steam Generator Nozzle-to-Safe End Butt Welds**
Nominal Pipe Size ≥ 4"

- Relief Request RR 2-24, rev. 0 for item B5.70 previously approved (Ref. TAC No. M82269, pages 16-17, dated December 21, 1994)

Code Category B-J: **Pressure Retaining Welds in Piping**

Item No. B9.10 **Nominal Pipe Size ≥ 4 in.**
Item No. B9.11 **Circumferential Welds**

Two Relief Requests were previously submitted and approved:

- Relief Request RR 2-10, rev. 0 for item B9.11 previously approved with conditions (Ref. TAC No. 72247, pages 20-22, dated November 7, 1991) for 8 Reactor Coolant Pipe Circumferential Welds off the Hotleg and Coldleg. Examination of the Reactor Vessel Nozzle-to-Safe End Butt Welds were performed in accordance with the conditions as stipulated in the approved Relief Request.

- Relief Request RR 2-25, rev. 0 for item B9.11 previously approved for 17 piping welds (Ref. TAC No. M82269, pages 17-19, dated December 21, 1994)

Relief Request RR 2-Closeout-4, Rev. 0

Code Category B-J: **Pressure Retaining Welds in Piping**

Item No. B9.30 **Branch Pipe Connection Welds**
Item No. B9.31 **Nominal Pipe Size ≥ 4"**

Relief is requested in accordance with the provisions of 10 CFR 50.55a (g)(5)(iii) from the full Code-required extent of volumetric examination for Branch Pipe Connection Welds (Nominal Pipe Size ≥ 4").

Examination Requirements

ASME Section XI, 1983 Edition through Summer 1983 Addenda, requires the lower 1/3t of the weld examined volumetrically up to and including adjacent base metal 1/4" from the weld toe on either side of the weld.

Basis for Relief

Complete inspection of the Code-required volume for components listed in Table 4 was not possible due to restricted access caused by various design and geometry limitations. Approximately two thirds (2/3) of the required examinations were performed during the 1st and 2nd Periods of the Interval (from 1989 to 1992) and do not have the detailed measurements necessary to estimate the percentage of examination coverage. This was standard practice in the Industry at that time. The examinations were performed to the maximum extent possible using the available technologies. The type and location of limitations are also recorded on the data sheets, as approved for other B-J welds referenced in Tables 5A thru 5C. In most cases, the limitation is caused by the weld's proximity to other components such as a valve, integrally welded support, or an adjacent nozzle. When a one-sided exam is recorded or a limited exam is confirmed as a one-sided exam (no other restrictions) through the review of examination data and drawing verification, a 50% exam coverage credit is taken. If a limited or restricted exam is noted but not enough information exists to derive a percentage of coverage, it will be so noted.

Proposed Alternative

1. No additional volumetric and/or surface examinations will be performed on these welds. The components listed in this relief request have been examined to the maximum extent practical.

2. A visual inspection (VT-2) is performed in conjunction with the pressure testing conducted on these components every refuel outage (with no leakage detected) in accordance with IWA-5000 and IWB-5000, which provides reasonable assurance of component integrity.

Drawings and sketches which illustrate the restricted conditions encountered, (in some cases typical for a given configuration), that limited examination coverage are in Enclosure 4.

Table 4

Code Category B-J / Item No. B9.31					
INT No.	**Weld ID**	**System / Component**	**Extent Examined**	**Limitation**	**Remarks**
1-4101	16BC	Accumulator Discharge	50% (1)	Nozzle Configuration restricts 7&8 scan	10" Accumulator Discharge Line 351
1-4302	33BC	Reactor Coolant Pipe	50% (1)	Weld configuration limits 2 scan	Loop 33 10" PLOCAP
1-4401	13BC	Accumulator Discharge	50% (1)	Branch connection weld configuration limtis 2, 7 & 8 scans. Nozzle configuration limits 5 scan.	10" Accumulator Discharge Line 350

NOTES:
(1) A 50% exam coverage credit is taken for these types of geometry limitations.

ENCLOSURE 4

B-J, B9.31
(7 pages)

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WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT: INDIAN POINT | UNIT: No. 3 | SKETCH: INT-1-4101

SYST/COMP.: ACCUMULATOR DISCHARGE 10" LINE 351 | PROCEDURE: INT-ISI-206 REV.0

EXAMINER (LEVEL II): James R. Dellinger II Clyde W Kidd I | DATE: 2-14-89

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5				CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8				CALIBRATION CHECK
INST. S/N: SONIC MK 1 06210E	S/N			G17034				G17034				INITIAL TIME 1341
	SIZE			1.0"				1.0"				
	FREQ			1.0 MHz				1.0 MHz				
	ANGLE			41° RL				41° RL				
REP. RATE: 200	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	DISTANCE FROM SCRIBE/REF. LINE TO 50% DAC LOCATIONS	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	DISTANCE FROM SCRIBE/REF. LINE TO 50% DAC LOCATIONS	
REJECT: OFF	1/4T			80% 80%@11db	2.0			80% 80%@11db	2.0			
DAMPING: MIN	3/4T			22% 80%	6.0			22% 80%	6.0			
FILTER: HI												FINAL TIME 1611
LIN. CHECK: SAT												
SU CABLE: 12' BNC - BNC												CAL. BLOCK INT-2
COUPLANT: SONOTRACE 40 BATCH # 8767	CAL GAIN			57db / 68db				57db / 68db				THICKNESS 2.625"
												TEMP. 68°F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	NRI	RI	REMARKS
16(BC)	85°F		YES	NO	YES		NOZZLE CONFIGURATION	SMOOTH	X			BASEMETAL EXAM ONLY
							NYPA NDE LEVEL III	2/17/89				

JRD/WKB 2-23-89

FORM 49001

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

LIMITATION TO EXAMINATION

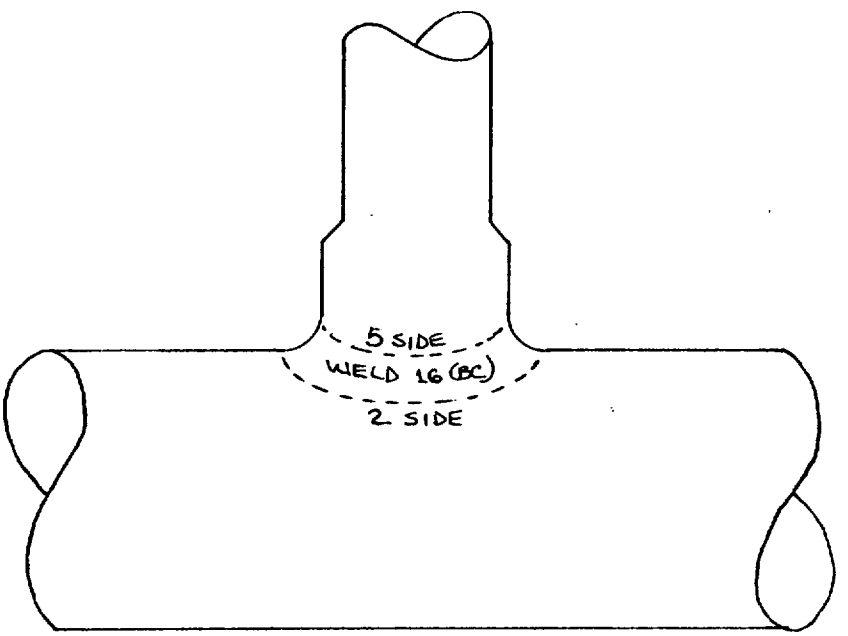
PLANT INDIAN POINT UNIT NO. 3 SKETCH INT-1-4101

SYST/COMP 10" LINE 351 ACCUMULATOR DISCHARGE PROCEDURE INT-ISI-206, REV. 0

EXAMINER James R. Dellmuth LEVEL II DATE 2-14-89

RELATED TO: U/T ✓ P/T _____ M/T _____ V/T _____ ITEM(S): WELD 16 (BC)

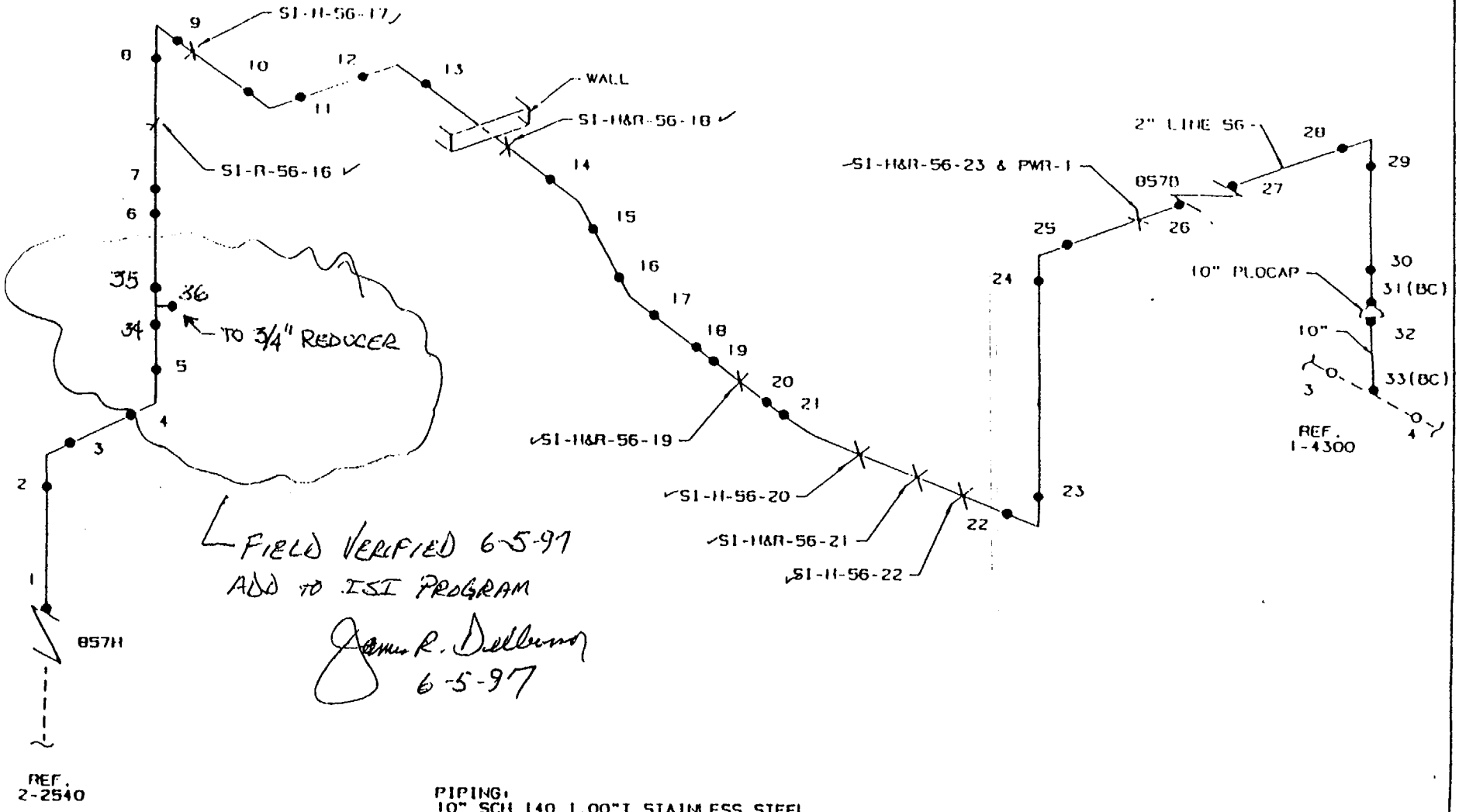
PROVIDE GENERAL INFORMATION TO DESCRIBE APPROXIMATE SIZE, LOCATION AND TYPE OF LIMITATION.



NOZZLE CONFIGURATION RESTRICTS 7 & 8 SCANS

APS/WSB 2-23-89

F49077



PIPING:
10" SCH 140 1.00"T STAINLESS STEEL
2" SCH 160 .344"T STAINLESS STEEL

VALVE BONNET BOLTING:
857B:NOT APPLICABLE
857H:NOT APPLICABLE

VALVE MANUFACTURER:
857B:NOT APPLICABLE
857H:NOT APPLICABLE

INTEGRALLY WELDED ATTACHMENTS:
PWR-1: 0.250"T

NEW YORK POWER AUTHORITY INDIAN POINT UNIT NO.3	
LOOP 33 10" PLOCAP LOOP 33 2" LINE 56 SIS HOTLEG	
INT-I-4302	REV. 5

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT: INDIAN POINT | UNIT: NO. 3 | SKETCH: INT-1-4302 REV. 5

SYST. / COMP.: LOOP 33 10" PLOCAP | PROCEDURE: INT-ISI-206 REV. 1 F.C. 01

EXAMINER (LEVEL II): [signature] [signature] | DATE: 5-28-97

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5				CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8				CALIBRATION CHECK
INST. S / N STAVELEY SONIC/136-896K	S / N			58946				58946				INITIAL TIME 1232
REP. RATE 1K	SIZE			0.5" X 1.0"				0.5" X 1.0"				
REJECT OFF	FREQ.			1.0 MHz				1.0 MHz				
DAMPING 500 OHMS	ANGLE			45°L 12-11-97				45°L 12-11-97				
	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE / REF. LINE TO PEAK	DISTANCE FROM SCRIBE / REF. LINE TO 50% DAC LOCATIONS	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE / REF. LINE TO PEAK	DISTANCE FROM SCRIBE / REF. LINE TO 50% DAC LOCATIONS	
FILTER 2	1/4T			80%	2.0			80%	2.0			
LIN. CHECK SAT	3/4T			42%	4.0			42%	4.0			
S. U. CABLE RG-174 12' BNC-BNC	1 1/4T			20%	6.0			20%	6.0			FINAL TIME 1555
COUPLANT SONOTRACE 40 96343	1 3/4T			15%	8.0			15%	8.0			
												CAL. BLOCK INT-2
	CAL. GAIN			29dB				29dB				THICKNESS 2.625"
												TEMPERATURE 85°F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	NRI	RI	REMARKS
33(BC)	92°F		NO	YES	YES		WELD CONFIGURATION LIMITS 2 SCAN, SEE LIMITATION TO EXAMINATION SHEET.	SMOOTH	X			SURFACE THERMOMETER S/N 2272

NEW YORK POWER AUTHORITY / LEVEL III REVIEW / DATE: [signature] III 6/9/97 [signature] 12/18/97

ANII REVIEW / DATE: [signature] 6-13-97 OE Tilley 12-19-97

FORM 41001

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

LIMITATION TO EXAMINATION

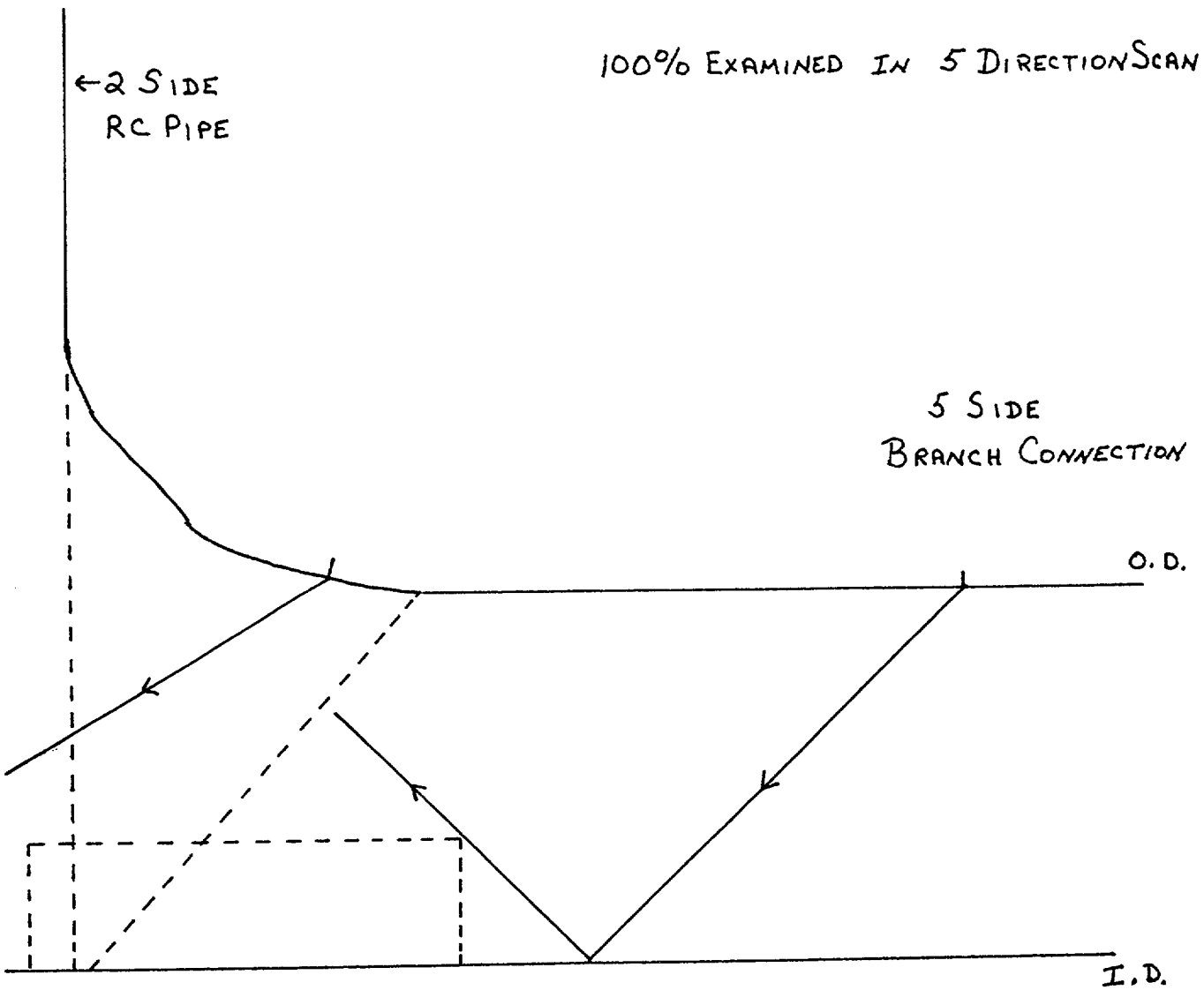
PLANT INDIAN POINT UNIT NO. 3 SKETCH INT-1-4302 REV. 5

SYST./COMP. LOOP 33 10" PLOCAP PROCEDURE INT-ISI-206, REV. 1, F.C. 01

EXAMINER [signature] LEVEL II DATE 5-28-97

RELATED TO: U/T X P/T ____ M/T ____ V/T ____ ITEM(S) 33 (BC)

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



NEW YORK POWER AUTHORITY LEVEL III REVIEW / DATE [signature] 6/9/97

ANII REVIEW / DATE [signature] 6-13-97

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT: INDIAN POINT | UNIT: No. 3 | SKETCH: INT-1-4401

SYST/COMP.: 10" ACCUMULATOR DISCHARGE LINE 350 | PROCEDURE: INT-ISI-206 REV. 1

EXAMINER (LEVEL II): James R. Delbrusso, William L. Valley | DATE: 10-2-90

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5					CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8					CALIBRATION CHECK
INST. S/N: SONIC MARK 1 08079E	S/N			B10276					B10276					INITIAL TIME 0909
	SIZE			1.0"					1.0"					
	FREQ.			1.0 MHz					1.0 MHz					
	ANGLE			41° RL					41° RL					
REP. RATE: 3K	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE		SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO		SIGNAL AMPLITUDE		SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO		
							PEAK	50% DAC LOCATIONS				PEAK	50% DAC LOCATIONS	
REJECT: OFF	1/4T			80%	80+8db	2.0			80%	80+8dB	2.0			
DAMPING: MIN	3/4T			35%	80%	6.0			35%	80%	6.0			
FILTER: HI														FINAL TIME 1148
LIN. CHECK: SAT														
SU CABLE: 12' BNC-BNC														CAL. BLOCK INT-2
COUPLANT: SONOTRACE 40 BATCH # 8979	CAL. GAIN			29db	37db				29db	37db				THICKNESS 2.625"
														TEMP. 64°F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	NRI	RI	REMARKS
13(BC)	84°F		YES	NO	YES		BRANCH CONNECTION WELD CONFIGURATION AND NOZZLE CONFIGURATION SEE ATTACHED LIMITATION TO EXAMINATION SHEET	SMOOTH	X			EXAMINED BASE METAL BENEATH BRANCH CONNECTION ON REACTOR COOLANT PIPE ONLY SURFACE THERMOMETER S/N 1971

10/13/90
SITE NDE LEVEL III

ADS/HSB 10-15-90

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

LIMITATION TO EXAMINATION

PLANT INDIAN POINT UNIT No 3 SKETCH INT-1-4401

SYST/COMP 10" ACCUMULATOR LINE 350 PROCEDURE INT-ISI-206, REV 1

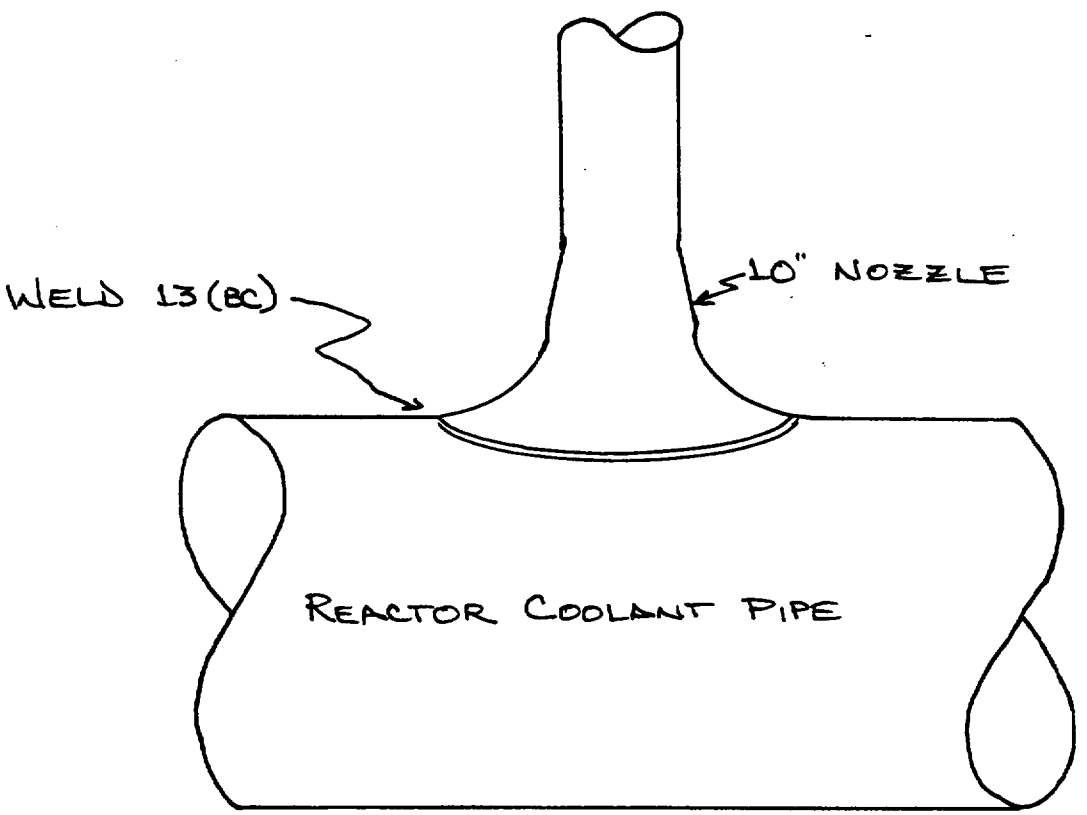
EXAMINER James R. Dellwo LEVEL II William F. Talley DATE 10-2-90

RELATED TO: U/T ✓ P/T _____ M/T _____ V/T _____ ITEM(S): WELD 13 (BC)

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

BRANCH CONNECTION WELD CONFIGURATION LIMITS 2,7 & 8 SCANS

NOZZLE CONFIGURATION RESTRICTS 5 SCAN.



APS/HSB
10-15-90

10/13/90
SITE NDE LEVEL III

F49077

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Relief Request RR 2-Closeout-5, Rev. 0

Code Category B-K-1: **Integral Attachments for Piping, Pumps, and Valves**

Item No. B10.20 **Pump Integrally Welded Attachments**

Relief is requested pursuant to the provisions of 10 CFR 50.55a (g)(5)(iii), and 10 CFR 50.55a (a)(3)(ii) from the ASME Boiler and Pressure Vessel Code surface or volumetric examination requirements of three (3) pump integrally welded attachments listed in Table 5.

Examination Requirements

ASME Code Section XI, 1983 Edition through Summer 1983 Addenda requires examinations to include the welded attachment of pumps to be examined by Examination Category B-K-1, and includes essentially 100% of the weld length, for those attachments whose base material design thickness is 5/8 in. and greater.

Basis For Relief

Code Case N-509, which was approval by USNRC through Reg. Guide 1.147, Rev. 12 was applied in selection of the examination population size. Integrally welded attachments (3 total) to the 32 Reactor Coolant Pump was examined. Due to restrictions from the lower support structure, portions of the weld (about 15") cannot be examined by the required surface examination method.

Proposed Alternative Examinations

1. No additional volumetric and/or surface examinations will be performed on these welds. The components listed in Table 8 of this relief request have been examined to the maximum extent practical.

2. A visual inspection (VT-2) is performed in conjunction with the pressure testing conducted on these components every refuel outage (with no leakage detected) in accordance with IWA-5000 and IWB-5000, which provides reasonable assurance of component integrity.

Table 5

Code Category B-K-1 / Item No. B10.20					
INT No.	**Weld ID**	**System / Component**	**Extent Examined**	**Limitation**	**Remarks**
1-5100	32-1SC	Reactor Coolant	50% (1)	Lower support structure limits exam on bottom of weld	32 RCP
1-5100	32-2SC	Reactor Coolant	50% (1)	Lower support structure limits exam on bottom of weld	32 RCP
1-5100	32-3SC	Reactor Coolant	50% (1)	Lower support structure limits exam on bottom of weld	32 RCP

Note: 1. Surface examination was limited by the lower support structure which limits access to about 15" of the bottom of the weld. Examination was performed to the maximum extent possible and a 50% credit for coverage is taken.

ENCLOSURE 5

B-K-1, B10.20
(3 pages)

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

SURFACE EXAMINATION DATA

PLANT INDIAN POINT UNIT NO.3 SKETCH INT-1-5100

SYST/COMP. REACTOR COOLANT PUMP RCPCP 2-32 PROCEDURE INT-ISI-11 REV. 1

EXAMINER [signature] LEVEL II [signature] DATE 10-27-90

P/T		BATCH NOS.	M/T	
CLEANER	MAGNAFLUX	90C09P/89B02K	EQUIPMENT	
PENETRANT	MAGNAFLUX	88E038		
DEVELOPER	MAGNAFLUX	85M035	EXAM. MEDIUM	
REMOVER	MAGNAFLUX	90C09P/89B02K	BLACK-LIGHT CHECK TIME	

IDENT. NUMBER	RESULTS NI	RESULTS NRI	RESULTS RI	REMARKS
32-1 SC			X	TEMP. 74°F SEE ATTACHED GENERAL INDICATION
				DATA SHEET
32-2SC			X	TEMP. 74°F SEE ATTACHED GENERAL INDICATION
				DATA SHEET
				SURFACE THERMOMETER S/N 1971
				SEE ATTACHED LIMITATION TO EXAMINATION
				SHEET FOR 32-1SC + 32-2SC

[signature] 10/31/90
SITE NDE LEVEL III

[initials] 11-2-90

FORM 45935C

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WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

SURFACE EXAMINATION DATA

PLANT INDIAN POINT UNIT NO.3 SKETCH INT-1-5100

SYST/COMP. REACTOR COOLANT PUMP RCPCP 2-32 PROCEDURE INT-ISI-11 REV. 1

EXAMINER Bill Astra LEVEL II DATE 10-28-90

P/T		BATCH NOS.	M/T	
CLEANER	MAGNAFLUX	89B02K	EQUIPMENT	
PENETRANT	MAGNAFLUX	88E038		
DEVELOPER	MAGNAFLUX	85M035	EXAM. MEDIUM	
REMOVER	MAGNAFLUX	89B02K	BLACK-LIGHT CHECK TIME	

IDENT. NUMBER	RESULTS NI	NRI	RI	REMARKS
32-35C	X			TEMP. 74°F SURFACE THERMOMETER S/N 1971
				SEE ATTACHED LIMITATION TO EXAMINATION
				SHEET FOR 32-35C

10/31/90
SITE NDE LEVEL III

10-31-90
11-2-90

FORM 45935C

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WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

LIMITATION TO EXAMINATION

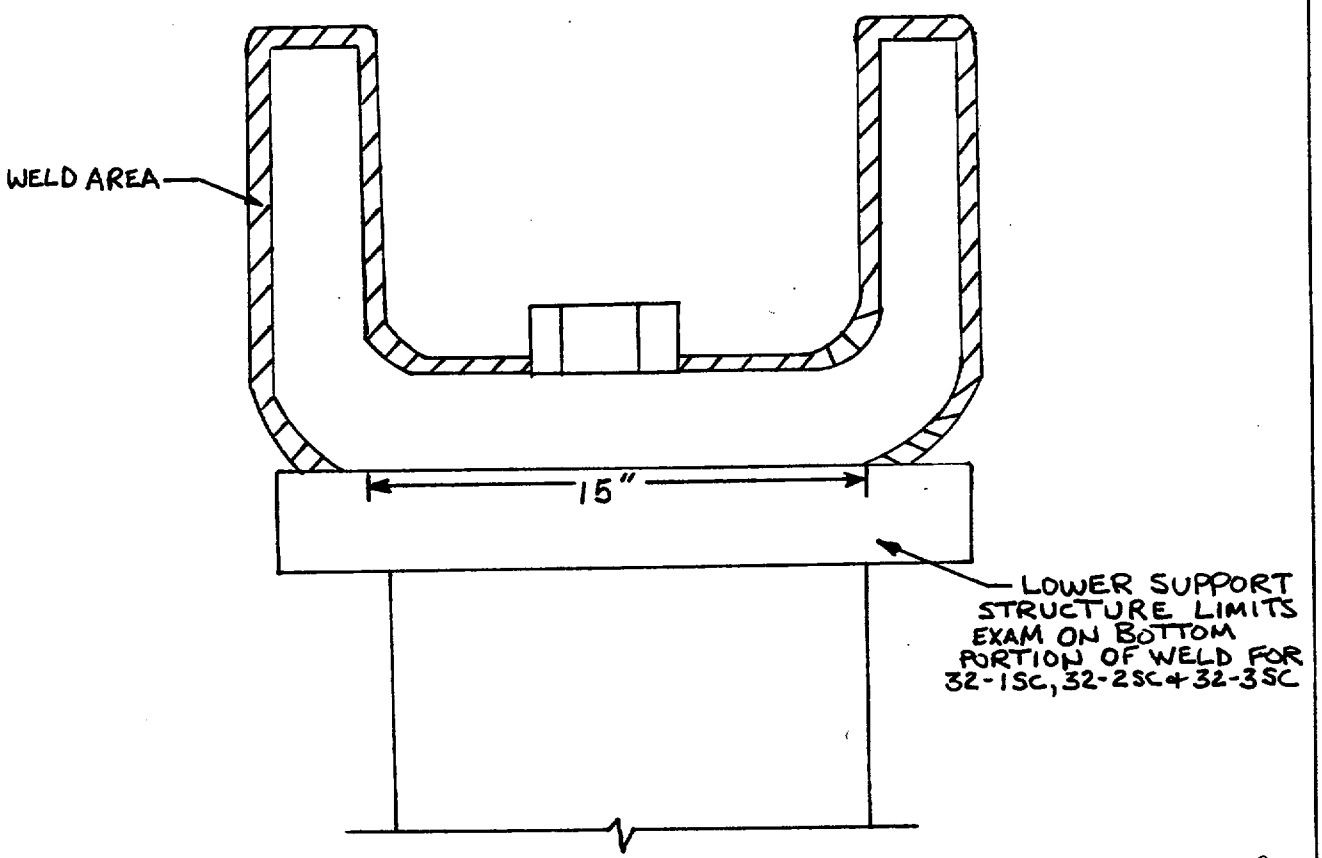
PLANT INDIAN POINT UNIT NO. 3 SKETCH INT-1-5100

SYST/COMP REACTOR COOLANT PUMP RCPCP232 PROCEDURE INT-ISI-11 REV. 1

EXAMINER Robert Count Bill Ast LEVEL II DATE 10-27-90 / 10-28-90

RELATED TO: U/T ____ P/T ✓ M/T ____ V/T ____ ITEM(S): 32-1SC, 32-2SC & 32-3SC

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



APS/HBB 11-2-90

10/31/90

SITE NDE LEVEL III

F49077

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CLASS 2 COMPONENTS

Relief Request RR 2-Closure-6, Rev. 0

Code Category C-A:	**Pressure Retaining Welds in Pressure Vessels**
Item No. C1.10	**Shell Circumferential Welds**
Item No. C1.20	**Head Circumferential Welds**
Item No. C1.30	**Tubesheet-to-Shell Welds**

Relief is requested in accordance with the provisions of 10 CFR 50.55a (g)(5)(iii) from the full Code-required extent of volumetric examination for the component welds listed in Tables 6A through 6C.

Examination Requirements

ASME Section XI requires 100% volumetric examination of this weld once per interval.

Basis For Relief

Complete inspection of the Code-required volume is not possible based on restricted access caused by interference due to the close proximity of the vessel flange bolting, nozzles and support clamps. Drawings and sketches which illustrate the restricted conditions encountered that limit examination coverage are included in Enclosure 6.

Examination Alternative

1. No additional volumetric examinations will be performed on these welds. The component listed in this relief request has been examined to the maximum extent practical.

2. A visual inspection (VT-2) was performed during the pressure testing which is conducted on this component every refuel outage (no leakage detected) in accordance with IWA-5000 and IWC-5000, which provides reasonable assurance of component integrity.

Table 6A

Code Category C-A / Item No. C1.10					
INT No.	**Weld ID**	**System / Component**	**Extent Examined**	**Limitation**	**Remarks**
2-1210	32-3	32 Accumulator Tank	50% (1)	Weld crown, welded lug, nozzle, head to shell configuration and long seam	32 Accum. Tank
2-1320	2	Seal Water Return Filter	50% (1)	Welded support and lower head configuration	SW Return Filter

NOTES: (1) A 50% exam coverage credit is taken for these types of geometry limitations.

Table 6B

Code Category C-A / Item No. C1.20					
INT No.	**Weld ID**	**System / Component**	**Extent Examined**	**Limitation**	**Remarks**
2-1110	9	31 Regen Heat Exchanger	50% (1)	2 adjacent nozzles	Regen HX
2-1200	2	Volume Control Tank	50% (1)	Head Configuration, weld crown manway, nozzle	VCT
2-1210	32-4	32 Accumulator Tank	50% (1)	Weld crown, welded lug, nozzle, head to shell configuration and long seam	32 Accum. Tank
2-1320	1	Seal Water Return Filter	50% (1)	Weld crown and flange configuration	SW Return Filter
2-1320	3	Seal Water Return Filter	50% (1)	Weld tag and flange configuration	SW Return Filter

NOTES: (1) A 50% exam coverage credit is taken for these types of geometry limitations.

Table 6C

Code Category C-A / Item No. C1.30					
INT No.	**Weld ID**	**System / Component**	**Extent Examined**	**Limitation**	**Remarks**
2-1101	31-2	31 Steam Generator	50% (1)	1 handholes and 2 nozzles	S/G
2-1110	10	31 Regen Heat Exchanger	50% (1)	2 adjacent nozzles and support clamp	Regen HX
2-1110	11	31 Regen Heat Exchanger	92% - 45° 93% - 2 scan 73% - 5 scan	1 adjacent nozzle and support clamp	Regen HX

NOTES: (1) A 50% exam coverage credit is taken for these types of geometry limitations.

ENCLOSURE 6

C-A, C1.10, C1.20, C1.30
(34 pages)

29J

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT: INDIAN POINT | UNIT: No. 3 | SKETCH: INT-2-1101
SYST/COMP.: REPLACEMENT STEAM GENERATOR RCPCSG1-31 | PROCEDURE: INT-ISI-47 REV. 1
EXAMINER (LEVEL II): William D. Walley | DATE: 10-24-90

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5					CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8					CALIBRATION CHECK
INST. S/N: SONIC MK1 SN: 11222E	S/N: C26673													INITIAL TIME: 0940
	SIZE: 1.0"													
	FREQ.: 2.25 MHZ													
	ANGLE: 0°													
REP. RATE: 1K	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	DISTANCE FROM SCRIBE/REF. LINE TO 50% DAC LOCATIONS		SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	DISTANCE FROM SCRIBE/REF. LINE TO 50% DAC LOCATIONS		
REJECT: OFF	1/4T	80%	1.5											
DAMPING: MIN	1/2T	80%	3.0											
FILTER: OFF	3/4T	70%	4.5											FINAL TIME: 1114
LIN. CHECK: SAT	1T		6.0											
SU CABLE: 12' BNC-BNC														CAL. BLOCK: IP-3
COUPLANT: SONOTRACE 40 BATCH # 8979	CAL. GAIN	33 dB												THICKNESS: 3.5"
														TEMP.: 80°F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	NRI	RI	REMARKS
31-2	87°F					YES	1 HANDHOLE - SEE ATTACHED LIMITATION TO EXAMINATION SHEET	SLIGHTLY ROUNDED	X			AREA EXAMINED 0" CLOCKWISE TO 135" FROM 0 REFERENCE
31-3	87°F					YES	2 HANDHOLES AND TRANSITION SEE ATTACHED LIMITATION TO EXAMINATION SHEET	SLIGHTLY ROUNDED	X			EXAMINED 100%

10/31/90
SITE NDE LEVEL III

APS/HED 11-2-90

SURFACE THERMOMETER SN: 1979

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WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT: INDIAN POINT | UNIT: No.3 | SKETCH: INT-2-1101

SYST/COMP.: REPLACEMENT STEAM GENERATOR RCPCSG1-31 | PROCEDURE: INT-ISI-47, Rev 1

EXAMINER (LEVEL II): James R. Dellinger, William G. Talley, Paul Dashnaw I | DATE: 10-24-90

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5					CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8					CALIBRATION CHECK
INST. S/N: SONIC MARK 1 08079E	S/N			B14656					B14656					INITIAL TIME: 0845
	SIZE			0.5"x1.0"					0.5"x1.0"					
	FREQ.			2.25 MHZ					2.25 MHZ					
	ANGLE			45°					45°					
REP. RATE: 3K	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	DISTANCE FROM SCRIBE/REF. LINE TO 50% DAC LOCATIONS		SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	DISTANCE FROM SCRIBE/REF. LINE TO 50% DAC LOCATIONS		
REJECT: OFF	¼T			80%	1.5	0.9"	0.75"	1.05"	80%	1.5	0.9"	0.75"	1.05"	CC: 1108
							1.4s	1.6s				1.4s	1.6s	
DAMPING: MIN	½T			56%	3.0	1.8"	1.55"	2.05"	56%	3.0	1.8"	1.55"	2.05"	
							2.8s	3.2s				2.8s	3.2s	
FILTER: Hi	¾T			35%	4.5	2.75"	2.4"	3.1"	35%	4.5	2.75"	2.4"	3.1"	FINAL TIME: 1219
							4.2s	4.8s				4.2s	4.8s	
LIN. CHECK: SAT	1T (NOTCH)			53%	6.0	3.55"			53%	6.0	3.55"			
SU CABLE: 12' BNC TO BNC														CAL. BLOCK: IP-3
	1¼T			22%	7.5				22%	7.5				THICKNESS: 3.5"
COUPLANT: SONOTRACE 40 BATCH# 8979	CAL. GAIN			36dB					36 dB					TEMP.: 80°F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS RI	REMARKS
31-2	87°F		YES	YES	YES		4" NOZZLE, 2" NOZZLE AND HANDHOLE	SLIGHTLY ROUNDED	X	EXAMINED FROM 0" CLOKWISE
							SEE ATTACHED LIMITATION TO EXAMINATION SHEET			TO 135" FROM 0 REFERENCE
31-3	87°F		YES	YES	YES		2 HANDHOLES, TRANSITION	SLIGHTLY ROUNDED	X	EXAMINED 100 %
							SEE ATTACHED LIMITATION TO EXAMINATION SHEET			
										SURFACE THERMOMETER
										SN # 1979
							12/31/90			
							SITE NDE LEVEL III			

ASME/ANB 12-90

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WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT: INDIAN POINT | UNIT: NO. 3 | SKETCH: INT-2-1101

SYST/COMP.: REPLACEMENT S/G RCPCSG 1-31 | PROCEDURE: INT-ISI-47 REV. 1

EXAMINER (LEVEL II): Robert L Cassat James R. Sellers Clyde W Kelly | DATE: 10-24-90

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5					CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8					CALIBRATION CHECK
INST. S/N: SONIC MK 1 S/N 05940E	S/N			B06627					B06627					INITIAL TIME 0910
	SIZE			0.5"X 1.0"					0.5"X 1.0"					
	FREQ.			2.25 MHZ					2.25 MHZ					
	ANGLE			60°					60°					
REP. RATE: 3 K	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	DISTANCE FROM SCRIBE/REF. LINE TO 50% DAC LOCATIONS		SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	DISTANCE FROM SCRIBE/REF. LINE TO 50% DAC LOCATIONS		
REJECT: OFF	1/4 T			80 %	1.5	1.55"	1.25"	1.9"	80 %	1.5	1.55"	1.25"	1.9"	
							1.3 s	1.8 s				1.3 s	1.8 s	
DAMPING: MIN	1/2 T			42 %	3.0	3.15"	2.55"	3.7"	42 %	3.0	3.15"	2.55"	3.7"	
							2.6 s	3.5 s				2.6 s	3.5 s	
FILTER: HI	3/4 T			26 %	4.5	4.6"	3.9"	5.55"	26 %	4.5	4.6"	3.9"	5.55"	FINAL TIME 1218
							4.1 s	5.3 s				4.1 s	5.3 s	
LIN. CHECK: SAT	1 T (NOTCH)			10 %	6.1	6.05"			10 %	6.1	6.05"			
SU CABLE: 12' BNC-BNC														CAL. BLOCK IP-3
	1 1/4 T			15 %	7.5				15 %	7.5				THICKNESS 3.5"
COUPLANT: SONOTRACE 40 BATCH # 8979	CAL. GAIN			48dB					48dB					TEMP. 80°F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	NRI	RI	REMARKS
31-2	87°F		YES	YES	YES		4" NOZZLE, 2" NOZZLE + HANDHOLE.	SLIGHTLY ROUNDED	X			EXAMINED AREA FROM 0" CLOCKWISE TO 135" FROM 0 REFERENCE.
31-3	87°F		YES	YES	YES		2 HANDHOLES + TRANSITION	SLIGHTLY ROUNDED	X			EXAMINED 100%
							SEE ATTACHED LIMITATION TO EXAMINATION SHEET FOR WELDS 31-2 + 31-3					SURFACE THERMOMETER S/N 1979

10/31/90
SITE NDE LEVEL III

AS/KB 11-2-90

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

LIMITATION TO EXAMINATION

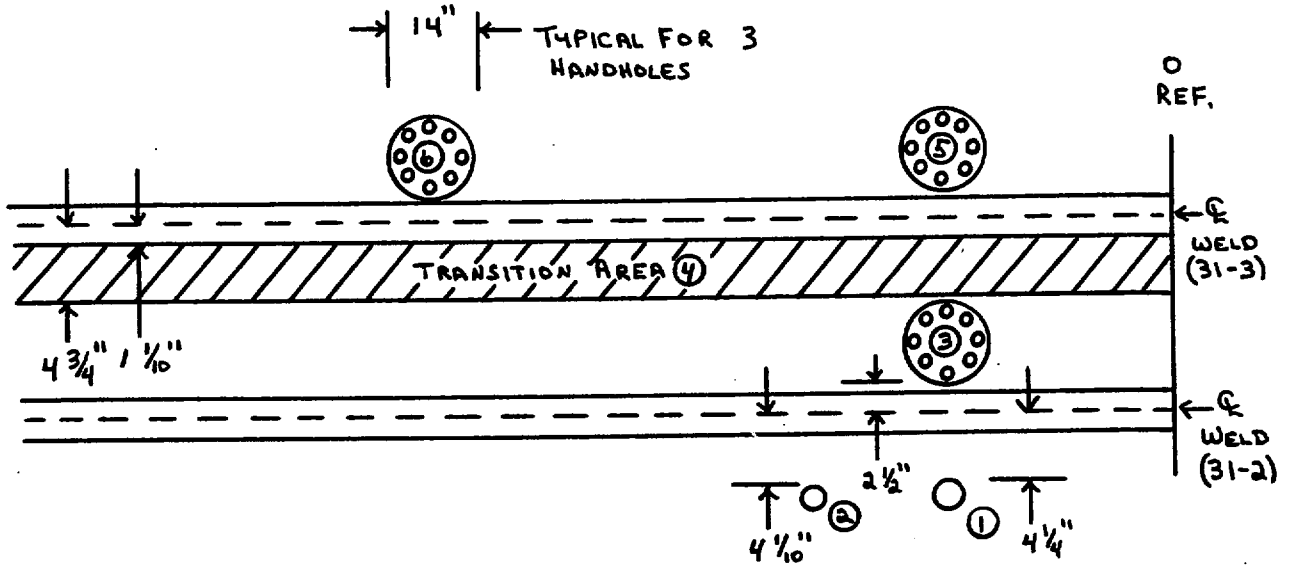
PLANT INDIAN POINT UNIT No. 3 SKETCH INT-2-1101

SYST/COMP REPLACEMENT STEAM GENERATOR RCPCSG1-31 PROCEDURE INT-ISI-47 REV. 1

EXAMINER William G. Kelley LEVEL II James C. Dellorusso Robert A. Cassat DATE 10-24-90

RELATED TO: U/T ✓ P/T _____ M/T _____ V/T _____ ITEM(S): 31-2 ; 31-3

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



① 4" NOZZLE 4'5" FROM 0 REF; LIMITS 45°+60° 2 SCANS (WELD 2)
② 2" NOZZLE 9'5 1/2" FROM 0 REF; LIMITS 45°+60° 2 SCANS (WELD 2)
③ HANDHOLE 4'5" FROM 0 REF; LIMITS 0°, 45°+60° 5, 7+8 SCANS (WELD 2)
④ TRANSITION LIMITS 0°, 45°+60° 2, 7+8 SCANS (WELD 3)
⑤ HANDHOLE 4'5" FROM 0 REF; LIMITS 0°, 45°+60° 5, 7+8 SCANS (WELD 3)
⑥ HANDHOLE 21'2 1/2" FROM 0 REF; LIMITS 0°, 45°+60° 5, 7+8 SCANS (WELD 3)

APS/HSB 11-2-90

12/31/90

SITE NDE LEVEL III

F49077

251

3/1

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT: INDIAN POINT | UNIT: NO. 3 | SKETCH: INT-2-1110

SYST/COMP.: REGENERATIVE HEAT EXCHANGER CSAHRG1-31 | PROCEDURE: INT-ISI-206, REV. C

EXAMINER (LEVEL II): James R. DeRusso | DATE: 2-14-89

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5					CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8					CALIBRATION CHECK
INST. S/N: SONIC MARK 1 05940E	S/N			20180					20180					INITIAL TIME: 0810
	SIZE			0.25"					0.25"					
	FREQ.			2.25 MHZ					2.25 MHZ					
	ANGLE			45°					45°					
REP. RATE: 3K	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	DISTANCE FROM SCRIBE/REF. LINE TO 50% DAC LOCATIONS		SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	DISTANCE FROM SCRIBE/REF. LINE TO 50% DAC LOCATIONS		
REJECT: OFF	1T			80%	2.0				80%	2.1				
DAMPING: MIN	2T			34%	4.0				38%	4.2				
FILTER: Hi	3T			22%	6.0									FINAL TIME: 0956
LIN. CHECK: SAT	4T			12%	8.0									
SU CABLE: 12' BNC TO MCD														CAL. BLOCK: INT-17
COUPLANT: SONOTRACE 40 BATCH #8767	CAL. GAIN			34 dB					40 dB					THICKNESS 0.906"
														TEMP. 76° F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	NRI	RI	REMARKS
9	78°F		YES	YES	YES		2-3" NOZZLES	FLUSH	X			
10	78°F		YES	YES	YES		SUPPORT CLAMP AND 2-3" NOZZLES	SLIGHTLY ROUNDED	X			

NYPA, NDE LEVEL III 2/17/89

APS/HBD 2-23-89

FORM 49001

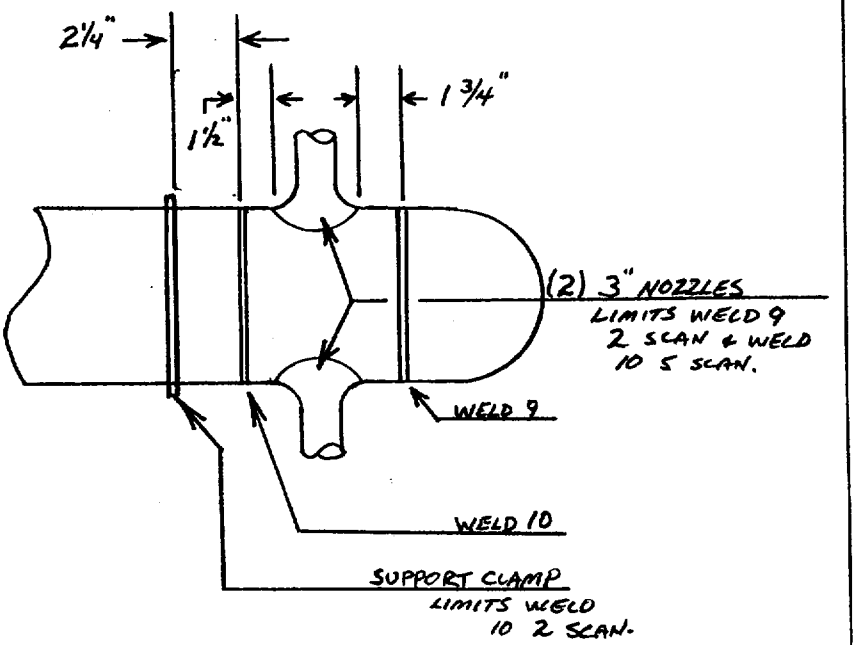
WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

LIMITATION TO EXAMINATION

PLANT INDIAN POINT UNIT No. 3 SKETCH INT-2-1110
CSAHRG1-31
SYST/COMP REGENERATIVE HEAT EXCHANGER PROCEDURE INT-151-206 REV. 0
EXAMINER Kevin J. Kostelny / James R. Dellburn DATE 2-14-89
LEVEL II

RELATED TO: U/T ✓ P/T _____ M/T _____ V/T _____ ITEM(S): 9 & 10

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



APS/TKB
2-23-89

F49077

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT	UNIT	SKETCH
INDIAN POINT	NO. 3	INT-2-1110 REV. 4
SYST. / COMP		**PROCEDURE**
REGENERATIVE HEAT EXCHANGER CSAHRG1-31		INT-ISI-206 REV. 1 F.C. 01
EXAMINER (LEVEL II)		**DATE**
James R. DeLuzio		6-28-97

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5					CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8					CALIBRATION CHECK
INST. S / N STAVELEY SONIC/136-896K	S / N	59698												INITIAL TIME 0748
REP. RATE 1K	SIZE	0.5"												
REJECT OFF	FREQ.	5.0 MHz												
DAMPING 500 OHMS	ANGLE	0°												
	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE / REF. LINE TO PEAK	DISTANCE FROM SCRIBE / REF. LINE TO 50% DAC LOCATIONS		SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE / REF. LINE TO PEAK	DISTANCE FROM SCRIBE / REF. LINE TO 50% DAC LOCATIONS		
FILTER 1	1/4T	80%	3.0											
LIN. CHECK SAT	3/4T	40%	6.0											FINAL TIME 1110
S. U. CABLE RG-174 6' DUAL														
COUPLANT SONOTRACE 40 96343	CAL. GAIN	46.6dB												CAL. BLOCK INT-17
														THICKNESS 0.906"
														TEMPERATURE 80°F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS RI	NRI	RI	REMARKS
11	74°F	Y-A				YES	SEE LIMITATION TO EXAMINATION SHEET	FLAT	X			SURFACE THERMOMETER S/N 10063

NEW YORK POWER AUTHORITY LEVEL III REVIEW / DATE
W. D. Mabry LIII 6/30/97

ANII REVIEW / DATE
7-1-97

FORM 20001

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT	UNIT	SKETCH
INDIAN POINT	NO. 3	INT-2-1110 REV. 4
SYST. / COMP		**PROCEDURE**
REGENERATIVE HEAT EXCHANGER CSAHRG1-31		INT-ISI-206 REV. 1 F.C. 01
EXAMINER (LEVEL II)		**DATE**
James R. Dellarco		6-28-97

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5					CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8					CALIBRATION CHECK
INST. S / N STAVELEY SONIC/136-896K	S / N			002MB6					002MB6					INITIAL TIME 0749
REP. RATE 1K	SIZE			0.5"					0.5"					
REJECT OFF	FREQ.			2.25 MHz					2.25 MHz					
DAMPING 500 OHMS	ANGLE			45°					45°					
	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE / REF. LINE TO PEAK	50% DAC LOCATIONS		SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE / REF. LINE TO PEAK	50% DAC LOCATIONS		
FILTER 1	1T			80%	3.0				80%	3.3				
LIN. CHECK SAT	2T			46%	6.0				50%	6.2				
	3T			28%	9.0									FINAL TIME 1112
S. U. CABLE RG-174 12' BNC-MCD														
COUPLANT SONOTRACE 40 96343														CAL. BLOCK INT-17
	CAL. GAIN			19dB					28.4dB					THICKNESS 0.906"
														TEMPERATURE 80°F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	NRI	RI	REMARKS
11	74°F		YES	NO	YES		SEE LIMITATION TO EXAMINATION SHEET	FLAT	X			SURFACE THERMOMETER S/N 10063

NEW YORK POWER AUTHORITY LEVEL III REVIEW / DATE
6/30/97

ANII REVIEW / DATE
7-1-97

FORM 49111

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT	UNIT	SKETCH
INDIAN POINT	NO. 3	INT-2-1110 REV. 4
SYST. / COMP		**PROCEDURE**
REGENERATIVE HEAT EXCHANGER CSAHRG1-31		INT-ISI-206 REV. 1 F.C. 01
EXAMINER (LEVEL II)		**DATE**
James R. Dellinger		6-28-97

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5					CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8					CALIBRATION CHECK
INST. S / N STAVELEY SONIC/136-896K	S / N			94 - 528										INITIAL TIME 0750
REP. RATE 1K	SIZE			2(4X7)mm										
REJECT OFF	FREQ.			4.0 MHz										
DAMPING 500 OHMS	ANGLE			60° L										
	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE / REF. LINE TO PEAK	DISTANCE FROM SCRIBE / REF. LINE TO 50% DAC LOCATIONS		SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE / REF. LINE TO PEAK	DISTANCE FROM SCRIBE / REF. LINE TO 50% DAC LOCATIONS		
FILTER 1	1/4T			80%	1.8									
LIN. CHECK SAT	3/4T			65%	5.7									
	NOTCH			20%	8.6									FINAL TIME 1114
S. U. CABLE RG-174 12' BNC-MCD														
														CAL. BLOCK INT-17
COUPLANT SONOTRACE 40 96343	CAL. GAIN			67dB										THICKNESS 0.906"
														TEMPERATURE 80°F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	NRI	RI	REMARKS
11	74°F		YES	NO			SEE LIMITATION TO EXAMINATION SHEET	FLAT	X			SURFACE THERMOMETER S/N 10063

NEW YORK POWER AUTHORITY LEVEL III REVIEW / DATE: LTW 6/30/97

ANII REVIEW / DATE: 7-1-97

FORM 20001

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

LIMITATION TO EXAMINATION

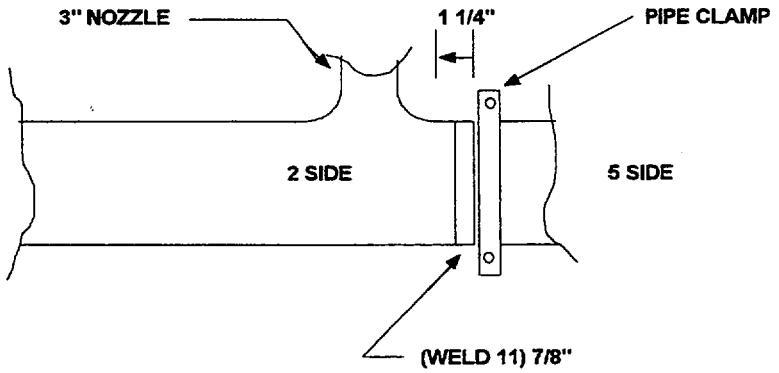
PLANT INDIAN POINT UNIT NO. 3 SKETCH INT-2-1110 REV. 4

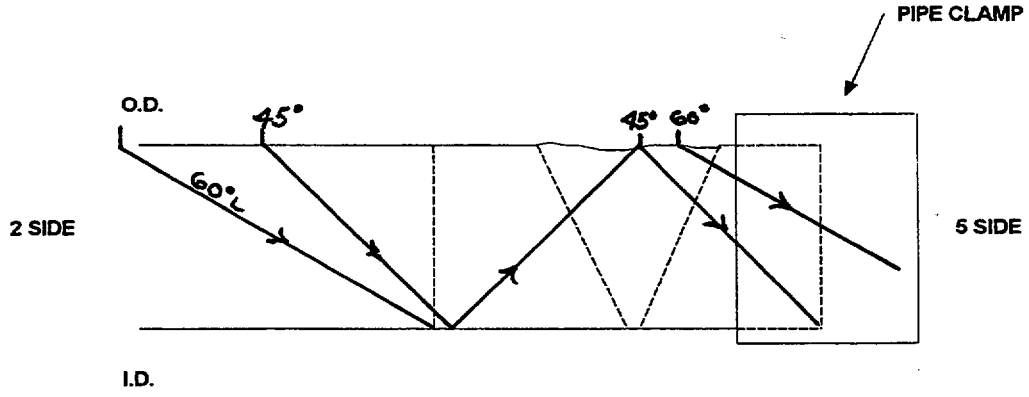
SYST./COMP. REGENERATIVE HEAT EXCHANGER CSAHRG1-31 PROCEDURE INT-ISI-206, REV. 1 F.C. 01

EXAMINER James R. Dellburg LEVEL II DATE 6-28-97

RELATED TO: U/T X P/T ____ M/T ____ V/T ____ ITEM(S) 11

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





NOZZLE CONFIGURATION LIMITS 2 SCAN FOR 2.5" FOR 45°, AND 2" FOR 60°L
PIPE CLAMP RESTRICTS ALL SCANS

92% EXAMINED 45°
93° IN 2 DIRECTION FOR 60° L
27% (BASE METAL 5 SIDE) NOT EXAMINED 0°

NEW YORK POWER AUTHORITY LEVEL III REVIEW / DATE	ANII REVIEW / DATE
LIII 6/30/97	7-1-97

F4907

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WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT: INDIAN POINT | UNIT: NO.3 | SKETCH: INT-2-1200
SYST/COMP.: VOLUME CONTROL TANK CSATVC1-31 | PROCEDURE: INT-ISI-206 REV.0
EXAMINER (LEVEL II): Robert H Cline Tim E Baker I | DATE: 2-27-89

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5					CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8					CALIBRATION CHECK
INST. S/N	S/N	K01412 PC		21153					21153					INITIAL TIME
SONIC MK.I	SIZE	.25" DIA.		.25" DIA.					.25" DIA.					0°-0908
S/N 791303	FREQ.	2.25 MHZ		2.25 MHZ					2.25 MHZ					
	ANGLE	0°		45°					45°					45°-1000
REP. RATE 1K	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	DISTANCE FROM SCRIBE/REF. LINE TO 50% DAC LOCATIONS		SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	DISTANCE FROM SCRIBE/REF. LINE TO 50% DAC LOCATIONS		
REJECT OFF	½ T	80%	5.0											
DAMPING MIN	1 T		8.0	80%	2.0				80%	2.0				
FILTER 0° HI/45° OFF	2 T			60%	4.0				60%	4.0				FINAL TIME
LIN. CHECK SAT	3 T			40%	6.0				40%	6.0				0°-0935
SU CABLE 12'BNC-MCD	4 T			32%	8.0				32%	8.0				45°-1100
COUPLANT SONOTRACE 40 BATCH#8767	CAL. GAIN	33 dB		19 dB					19 dB					CAL. BLOCK INT-36
														THICKNESS .25"
														TEMP. 78°F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7.8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	NRI	R	REMARKS
1	74°F	NO	YES	YES	YES	YES	HEAD CONFIGURATION, WELD CROWN	ROUNDED	X			EXAMINED 0" TO 100" CLOCK-
							MANWAY, 2" NOZZLE, WELDED SUPPORT					WISE FROM 0" REFERENCE
2	74°F	NO	YES	YES	YES	YES	HEAD CONFIGURATION, WELD CROWN	ROUNDED	X			EXAMINED 0" TO 100" CLOCK-
							2" NOZZLE					WISE FROM 0" REFERENCE

NYPA NDE LEVEL III 3/4/89

APS/HSB 3-4-89

FORM 49001

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WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT: INDIAN POINT | UNIT: NO. 3 | SKETCH: INT-2-1200

SYST/COMP.: VOLUME CONTROL TANK CSATVC1-31 | PROCEDURE: INT-ISI-206 REV. 1

EXAMINER (LEVEL II): Robert J Cassat Clyde W Kiehl I | DATE: 10-2-90

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5					CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8					CALIBRATION CHECK
INST. S/N SONIC MK 1 S/N 06208E	S/N	E09490												INITIAL TIME 1505
	SIZE	0.25"												
	FREQ.	5.0 MHZ												
	ANGLE	0° PC												
REP. RATE 3K	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO			SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO			
						PEAK	50% DAC LOCATIONS				PEAK	50% DAC LOCATIONS		
REJECT OFF	½ T	80%	4.4											
DAMPING MIN	1 T		6.0											
FILTER HI														
LIN. CHECK SAT														FINAL TIME 1610
SU CABLE 6' BNC TO PC														CAL. BLOCK INT-36
COUPLANT SONOTRACE 40 BATCH # 8979	CAL. GAIN	80 dB												THICKNESS .250"
														TEMP. 80°F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	NRI	RI	REMARKS
1	81°F					YES	WELD CONFIGURATION + WELDED SUPPORTS	ROUNDED	X			EXAMINED 100" CLOCKWISE TO 200" FROM 0 REFERENCE.
2	81°F					YES	WELD CONFIGURATION	ROUNDED	X			EXAMINED 100" CLOCKWISE TO 200" FROM 0 REFERENCE.
							SEE ATTACHED LIMITATION TO EXAMINATION SHEET FOR WELDS 1+2					SURFACE THERMOMETER S/N 1973

10/15/90

SITE NDE LEVEL III

APS/HCB 10-15-90

FORM 49001

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WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT: INDIAN POINT | UNIT: No. 3 | SKETCH: INT-2-1200
SYST/COMP.: VOLUME CONTROL TANK CSAT VC1-31 | PROCEDURE: INT-ISI-206 REV. 1
EXAMINER (LEVEL II): Bill Ash Paul Deshotels I | DATE: 10-2-90

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5					CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8					CALIBRATION CHECK
INST. S/N Sonic MARK I 112216	S/N			23796					23796					INITIAL TIME
	SIZE			.25					.25					IC-1435
	FREQ.			2.25 MHZ					2.25 MHZ					
	ANGLE			45°					45°					
REP. RATE 3K	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	DISTANCE FROM SCRIBE/REF. LINE TO 50% DAC LOCATIONS		SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	DISTANCE FROM SCRIBE/REF. LINE TO 50% DAC LOCATIONS		
REJECT OFF	1T			80%	2.0				80%	2.0				
DAMPING MIN	2T			50%	4.0				50%	4.0				
FILTER HI	3T			40%	6.0				40%	6.0				FINAL TIME
LIN. CHECK SAT	4T			30%	8.0				30%	8.0				FC-1620
SU CABLE 12' BNC-MCD														CAL. BLOCK INT-36
COUPLANT SONOTRACE 40 BATCH #8979	CAL. GAIN			37dB					37dB					THICKNESS .250"
														TEMP. 80°F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	NRI	RI	REMARKS
1	81°F		YES	YES	YES		WELD CONFIGURATION AND	ROUNDED	X			SURFACE THERMOMETER
							WELDED SUPPORTS					S/N 1973
2	81°F		YES	YES	YES		WELD CONFIGURATION	ROUNDED	X			SURFACE THERMOMETER
												S/N 1973
							REFERENCE ATTACHED					EXAMINED 100° CLOCKWISE
							LIMITATION TO EXAMINATION					TO 200" FROM 0
							SHEET FOR WELDS 1 & 2					REFERENCE FOR
												WELDS 1 & 2

10/13/90
SITE NDE LEVEL III

RS HSB 10-15-90

FORM 49001

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

LIMITATION TO EXAMINATION

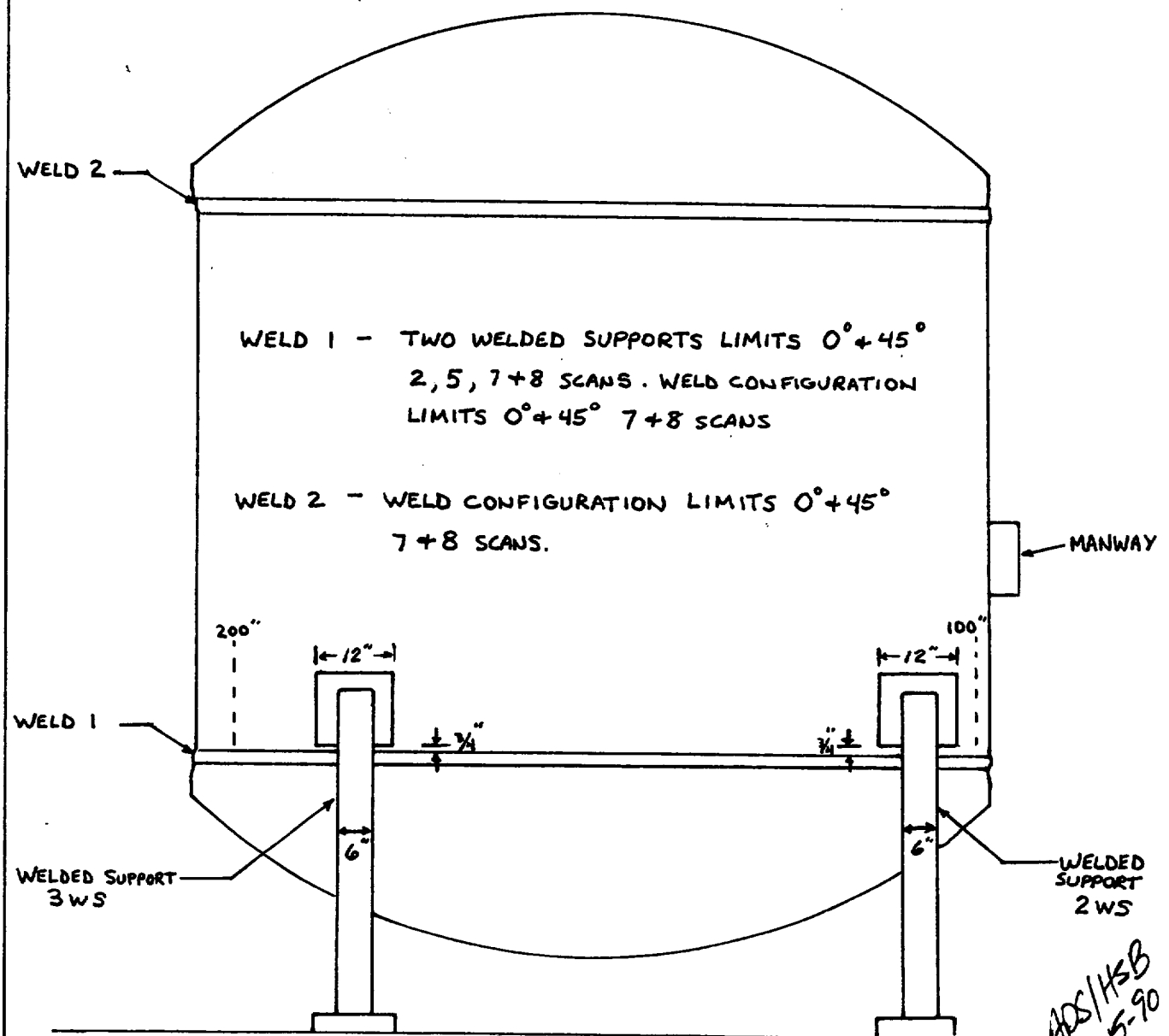
PLANT INDIAN POINT UNIT No. 3 SKETCH INT-2-1200

SYST/COMP VOLUME CONTROL TANK CSATVC1-31 PROCEDURE INT-ISI-206 REV. 1

EXAMINER Robert Stewart Bill Hall LEVEL II DATE 10-2-90

RELATED TO: U/T ✓ P/T _____ M/T _____ V/T _____ ITEM(S): 1 & 2

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



HPS/HSB 10-15-90

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SITE MGR. [illegible]

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WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT	UNIT	SKETCH
INDIAN POINT	NO. 3	INT-2-1200 REV. 3
SYST. / COMP		**PROCEDURE**
VOLUME CONTROL TANK CSATVC1-31		INT-ISI-206 REV. 1 F.C. 01
EXAMINER (LEVEL II)		**DATE**
William R. Halley		6-13-97

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5					CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8				
						DISTANCE FROM SCRIBE / REF. LINE TO					DISTANCE FROM SCRIBE / REF. LINE TO		
	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	PEAK	50% DAC LOCATIONS		SIGNAL AMPLITUDE	SWEEP POSITION	PEAK	50% DAC LOCATIONS	
INST. S / N STAVELEY SONIC/136-904K	S / N	56199		187440					187440				
REP. RATE 1K	SIZE	0.25"		0.25"					0.25"				
REJECT OFF	FREQ.	5.0 MHz		2.25 MHz					2.25 MHz				
DAMPING 500 OHMS	ANGLE	0°		45°					45°				
FILTER 0° - FULLWAVE 45° - 1	1/2T	80%	4.0										
LIN. CHECK SAT	1T			80%	2.0				80%	2.0			
S. U. CABLE RG-174 12' BNC-MCD	2T			64%	4.0				64%	4.0			
COUPLANT SONOTRACE 40 96343	3T			50%	6.0				50%	6.0			
	CAL. GAIN	38.2dB		43dB					43dB				

CALIBRATION CHECK

INITIAL TIME	45° - 0946
	0° - 1134
FINAL TIME	45° - 1133
	0° - 1150
CAL. BLOCK	INT-36
THICKNESS	0.250"
TEMPERATURE	80°F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	NRI	RI	REMARKS
1	86°F		YES	YES	YES	YES	SEE LIMITATION TO EXAMINATION SHEET 14% NOT EXAMINED	ROUNDED	X			EXAMINED FROM 200" CW THRU 284.17" (0 REFERENCE) SURFACE THERMOMETER S/N 2271

NEW YORK POWER AUTHORITY LEVEL III REVIEW / DATE

6/26/97

ANII REVIEW / DATE

6-26-97

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

LIMITATION TO EXAMINATION

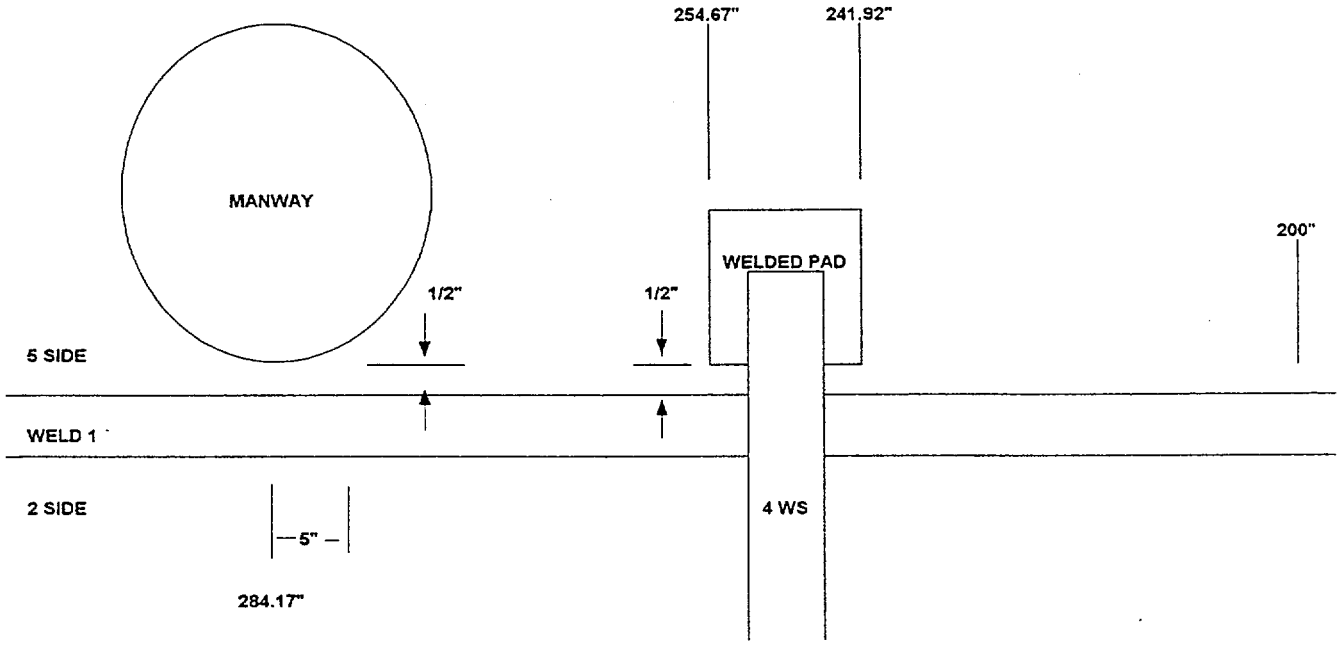
PLANT INDIAN POINT UNIT NO. 3 SKETCH INT-2-1200 REV. 3

SYST./COMP. VOLUME CONTROL TANK CSATVC1-31 PROCEDURE INT-ISI-206, REV. 1 F.C. 01

EXAMINER William H. Holley LEVEL II DATE 6-13-97

RELATED TO: U/T X P/T _____ M/T _____ V/T _____ ITEM(S) 1

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



LIMITATION: MANWAY, SUPPORT (4 WS) AND WELDED PAD. 14% NOT EXAMINED

NEW YORK POWER AUTHORITY LEVEL III REVIEW / DATE LIII 6/26/97

ANII REVIEW / DATE 6-26-97

F49077

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WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT: INDIAN POINT | UNIT: No. 3 | SKETCH: INT-2-1210

SYST/COMP.: ACCUMULATOR TANK INTSIATAT2-32 | PROCEDURE: INT-151-47 REV.0

EXAMINER (LEVEL II): Kevin J Kostelny Clyde W Kiehl II | DATE: 2-24-89

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5					CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8					CALIBRATION CHECK
INST. S N: SONIC MK I 11221E	S/N	CZ6682												INITIAL TIME: 0924
	SIZE	1.0"												
	FREQ	2.25 MHz												
	ANGLE	0°												
REP. RATE: 1K	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO: PEAK	50% DAC LOCATIONS		SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO: PEAK	50% DAC LOCATIONS		
REJECT: OFF	1/4T	70%	1.5											
DAMPING: MIN.	1/2T	80%	3.0											
FILTER: OFF	3/4T	80%	4.5											FINAL TIME: 1045
LIN. CHECK: SAT	1T		6.9											
SU CABLE: 12' BNC-BNC														CAL. BLOCK: INT-42
COUPLANT: SONOTRACE 40 @ 8767	CAL. GAIN	25 db												THICKNESS 2.6"
														TEMP. 75°F

WELD NUMBER	TEMP	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	NRI	RI	REMARKS
32-3	70°F	No				Yes	WELD CROWN (32-3) AND	GROUND	X			EXAMINED FROM 0" CW TO
							WELD 32-4					126" FROM 0 REF.
32-4	70°F	No				Yes	WELD CROWN (32-4) AND	GROUND	X			EXAMINED FROM 0" CW TO
							WELD 32-3					126" FROM 0 REF.
							NYPA NDE LEVEL		III	2/27/87		

KRS/HBB 3-4-89

FORM 49001

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WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT	UNIT	SKETCH
INDIAN POINT	No. 3	INT-2-1210
SYST/COMP.		**PROCEDURE**
ACCUMULATOR TANK INTSIATAT2-32		INT-ISI-47 REV. 0
EXAMINER (LEVEL II)		**DATE**
Kevin T Kertoling Clyde W Kidd I		2-24-89

EQUIPMENT	TRANSDUCER		STRAIGHT BEAM SCAN DIRECTION 0	AXIAL SCANS DIRECTIONS 2 & 5	CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8	CALIBRATION CHECK
INST. S/N: Sonic MK I SN: 05940E	S/N			D15535	D15535	INITIAL TIME: 0918
	SIZE			0.5" x 1.0"	0.5" x 1.0"	
	FREQ.			2.25 MHZ	2.25 MHZ	
	ANGLE			45°	45°	

EQUIPMENT	CALIBRATION REFLECTOR LOCATION	STRAIGHT BEAM SIGNAL AMPLITUDE	STRAIGHT BEAM SWEEP POSITION	AXIAL SIGNAL AMPLITUDE	AXIAL SWEEP POSITION	AXIAL DISTANCE FROM SCRIBE/REF. LINE TO PEAK	AXIAL 50% DAC LOCATIONS		CIRC. SIGNAL AMPLITUDE	CIRC. SWEEP POSITION	CIRC. DISTANCE FROM SCRIBE/REF. LINE TO PEAK	CIRC. 50% DAC LOCATIONS		CALIBRATION CHECK
REP. RATE: 1K														
REJECT: OFF	1/4 T			80%	1.5	1/2"	3/8"	5/8"	80%	1.5	1/2"	3/8"	5/8"	
							1.4 s	1.7 s				1.4 s	1.7 s	
DAMPING: MIN	1/2 T			72%	3.0	1 3/8"	1 1/4"	1 9/16"	72%	3.0	1 3/8"	1 1/4"	1 9/16"	
							2.8 s	3.2 s				2.8 s	3.2 s	
FILTER: OFF	3/4 T			50%	4.5	2 1/8"	1 7/8"	2 1/2"	50%	4.5	2 1/8"	1 7/8"	2 1/2"	FINAL TIME
							4.2 s	4.8 s				4.2 s	4.8 s	1050
LIN. CHECK: SAT	1 T			18%	6.8				18%	6.8				
SU CABLE: 12' BNC-BNC	1 1/4 T			25%	8.5				25%	8.5				CAL. BLOCK: INT-42
COUPLANT: Sonotrace 40 Batch 8767	CAL. GAIN			45dB					45dB					THICKNESS: 2.6"; TEMP.: 75°F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	SCAN DIRECTION 5	SCAN DIRECTION 7/8	SCAN DIRECTION 0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	RESULTS NRI	RESULTS RI	REMARKS
32-3	70°F		YES	YES	YES		WELD CROWN (32-3) AND	GROUND	X			EXAMINED FROM 0" CW
							WELDS 32-4 AND 6LS					TO 126" FROM O REF.
32-4	70°F		YES	YES	YES		WELD CROW (32-4) AND WELDS	GROUND	X			EXAMINED FROM 0" CW
							32-3 AND 32-1WS					TO 126" FROM O REF.

[signature] NYPA NDE LEVEL III 2/27/89

ADS/HSB 3-4-89

FORM 49001

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WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT	UNIT	SKETCH
INDIAN POINT	No. 3	INT-2-1210

SYST/COMP.	PROCEDURE
ACCUMULATOR TANK INTS1ATAT2-32	INT-151-47 REV. 0

EXAMINER (LEVEL II)	DATE
Kevin J Kostolny, Clyde W Kiehl I	2-24-89

EQUIPMENT		TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0	AXIAL SCANS DIRECTIONS 2 & 5	CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8	CALIBRATION CHECK	
INST. S/N	SONIC MK I 06210E	S/N		B06917	B06917	INITIAL TIME	0936
		SIZE		.5"X1.0"	.5"X1.0"	FINAL TIME	1100
		FREQ.		2.25 MHZ	2.25 MHZ	CAL. BLOCK	INT-42
		ANGLE		60°	60°	THICKNESS	2.6"
REP. RATE	1K					TEMP.	75°F
REJECT	OFF						
DAMPING	MIN.						
FILTER	OFF						
LIN CHECK	SAT.						
SU CABLE	24' BNC-BNC						
COUPLANT #8767	SONOTRACE 40						

CALIBRATION REFLECTOR LOCATION	STRAIGHT BEAM SIGNAL AMPLITUDE	STRAIGHT BEAM SWEEP POSITION	AXIAL SIGNAL AMPLITUDE	AXIAL SWEEP POSITION	AXIAL DISTANCE FROM SCRIBE/REF. LINE TO PEAK	AXIAL 50% DAC LOCATIONS		CIRC. SIGNAL AMPLITUDE	CIRC. SWEEP POSITION	CIRC. DISTANCE FROM SCRIBE/REF. LINE TO PEAK	CIRC. 50% DAC LOCATIONS	
1/4T			80%	1.5	1 3/16"	7/8"	1 1/2"	80%	1.5	1 3/16"	7/8"	1 1/2"
						1.3(s)	1.8(s)				1.3(s)	1.8(s)
1/2T			40%	3.0	2 7/16"	1 15/16"	3 1/16"	40%	3.0	2 7/16"	1 15/16"	3 1/16"
						2.7(s)	3.5(s)				2.7(s)	3.5(s)
3/4T			28%	4.5	4 1/16"	3 1/4"	4 1/2"	28%	4.5	4 1/16"	3 1/4"	4 1/2"
						3.9(s)	5.2(s)				3.9(s)	5.2(s)
1T			18%	6.8				18%	6.8			
1 1/4T			12%	8.5				12%	8.5			
CAL. GAIN			56db					56db				

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	NRI	RI	REMARKS
32-3	70°F		YES	YES	YES		WELD CROWN (32-3), WELD 32-4, WELD 32-1WS, WELD 6LS (1) 1 1/2" NOZZLE + (1) 3" NOZZLE	GROUND	X			EXAMINED FROM 0" CW TO 126" FROM 0 REF.
32-4	70°F		YES	YES	YES		WELD CROWN (32-4), WELD 32-3, WELD 32-1WS	GROUND	X			EXAMINED FROM 0" CW TO 126" FROM 0 REF.

NYPA NDE LEVEL III 2/27/89

APS/HSB 3-1-89

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

LIMITATION TO EXAMINATION

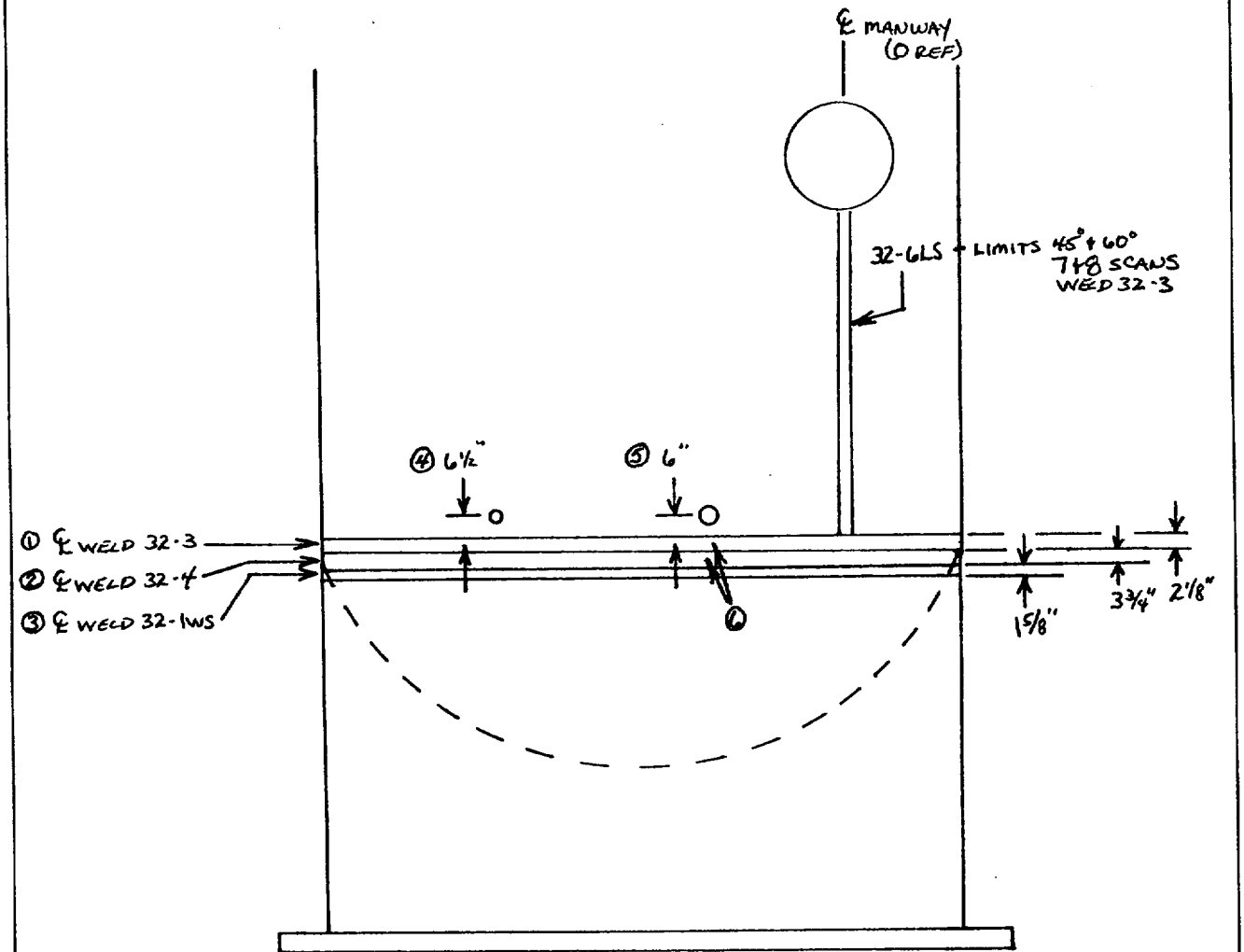
PLANT INDIAN POINT UNIT No. 3 SKETCH INT-2-1210

SYST/COMP Accumulator Tank INTSIATAT2-32 PROCEDURE INT-ISI-47 Rev.0

EXAMINER Kevin T Hockley LEVEL II DATE 2-24-89

RELATED TO: U/T ✓ P/T _____ M/T _____ V/T _____ ITEM(S): 32-3; 32-4

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



① WELD 32-3 - LIMITS WELD 32-4 EXAM 0°, 45° & 60° 5, 7 & 8 SCANS.
② WELD 32-4 - LIMITS WELD 32-3 EXAM 0°, 45 & 60° 2, 7 & 8 SCANS.
③ WELD 32-1WS LIMITS WELD 32-4 EXAM, 0°, 45 & 60° 2, 7 & 8 SCANS.
④ 1½" NOZZLE, LIMITS WELD 32-3 EXAM, 5 SCAN (60°)
⑤ 3" NOZZLE, LIMITS WELD 32-3 EXAM 5 SCAN (60°)
Ⓒ WELD CROWNS ON BOTH 32-3 & 32-4 LIMIT ALL SCANS.

APS/MAB 4-89

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WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT: INDIAN POINT | UNIT: NO.3 | SKETCH: INT-2-1210
SYST/COMP.: ACCUMULATOR TANK INTSIATAT 2-32 | PROCEDURE: INT-ISI-47 REV.1
EXAMINER (LEVEL II): Robert J Cassat Bill Peters | DATE: 9-30-90

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5					CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8					CALIBRATION CHECK
INST. S/N: SONIC MK 1 S/N 08079 E	S/N: C26682													INITIAL TIME 0917
	SIZE: 1.0"													
	FREQ.: 2.25 MHZ													
	ANGLE: 0°													
REP. RATE: 3K	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	DISTANCE FROM SCRIBE/REF. LINE TO 50% DAC LOCATIONS		SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	DISTANCE FROM SCRIBE/REF. LINE TO 50% DAC LOCATIONS		
REJECT: OFF	1/4 T	70%	2.0											
DAMPING: MIN	1/2 T	70%	4.0											
FILTER: HI	3/4 T	80%	6.0											
LIN. CHECK: SAT	1 T		9.0											FINAL TIME 1128
SU CABLE: 10' BNC TO BNC														
COUPLANT: SONOTRACE 40 BATCH # 8979	CAL. GAIN	18 dB												CAL. BLOCK INT-42
														THICKNESS 2.6"
														TEMP. 79°F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	NRI	RI	REMARKS
32-1	78°F					YES	WELD CONFIGURATION	SLIGHTLY ROUNDED	X			EXAMINED FROM 126" CLOCKWISE TO 252" FROM 0 REFERENCE.
32-3	78°F					YES	WELD CONFIGURATION AND ADJACENT WELD 32-4	SLIGHTLY ROUNDED	X			EXAMINED FROM 126" CLOCKWISE TO 252" FROM 0 REFERENCE.
32-4	78°F					YES	WELD CONFIGURATION AND ADJACENT WELDS 32-3 + 32-1WS SEE ATTACHED LIMITATION TO EXAMINATION SHEET FOR WELDS 32-1, 32-3 & 32-4	ROUNDED	X			EXAMINED FROM 126" CLOCKWISE TO 252" FROM 0 REFERENCE. SURFACE THERMOMETER S/N 1979

10/13/90
SITE NDE LEVEL III

MPS 10-15-90

FORM 49001

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WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT: INDIAN POINT | UNIT: NO. 3 | SKETCH: INT-2-1210

SYST/COMP.: ACCUMULATOR TANK INTSIATAT2-32 | PROCEDURE: INT-ISI-47, REV 1

EXAMINER (LEVEL II): James R. Delbusso | DATE: 9-30-90

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5					CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8					CALIBRATION CHECK
INST. S/N: SONIC MARK 1 05940E	S/N			D25351					D25351					INITIAL TIME: 0837
	SIZE			0.5"X1.0"					0.5"X1.0"					
	FREQ.			2.25 MHZ					2.25 MHZ					
	ANGLE			45°					45°					
REP. RATE: 3K	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	DISTANCE FROM SCRIBE/REF. LINE TO 50% DAC LOCATIONS		SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	DISTANCE FROM SCRIBE/REF. LINE TO 50% DAC LOCATIONS		
REJECT: OFF	1/4T			80%	2.0	11/16"	9/16"	13/16"	80%	2.0	11/16"	9/16"	13/16"	
DAMPING: MIN							1.8s	2.2s				1.8s	2.2s	
	1/2T			74%	4.0	1 3/8"	1 7/32"	1 9/16"	74%	4.0	1 3/8"	1 7/32"	1 9/16"	
FILTER: OFF							3.7s	4.3s				3.7s	4.3s	
	3/4T			48%	6.0	2 1/32"	1 13/16"	2 9/32"	48%	6.0	2 1/32"	1 13/16"	2 9/32"	FINAL TIME
LIN. CHECK: SAT							5.6s	6.4s				5.6s	6.4s	1049
	1T (NOTCH)			16%	8.7				16%	8.7				
SU CABLE: 12' BNC TO BNC														
	1 1/4T			26%	10.0				26%	10.0				CAL. BLOCK INT-42
COUPLANT: SONOTRACE 40 BATCH # 8979	CAL. GAIN			44 dB					44 dB					THICKNESS 2.6"
														TEMP. 79° F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	NRI	RI	REMARKS
32-1	78°F		YES	YES	YES		WELD AND HEAD CONFIGURATION	SLIGHTLY ROUNDED		X		EXAMINED FROM 126"
												CLOCKWISE TO 252"
												FROM 0 REFERENCE
32-3	78°F		YES	YES	YES		WELD CONFIGURATION, WELDS 32-4 & 32-5 LS	SLIGHTLY ROUNDED	X			EXAMINED FROM 126"
												CLOCKWISE TO 252"
												FROM 0 REFERENCE
32-4	78°F		YES	YES	YES		WELD CONFIGURATION, WELDS 32-3 & 32-1WS, AND SUPPORT SKIRT	ROUNDED	X			EXAMINED FROM 126"
												CLOCKWISE TO 252"
	SEE LIMITATION TO EXAMINATION						SHEET FOR WELDS 32-1, 32-3 & 32-4					FROM 0 REFERENCE
												SURFACE THERMOMETER
												SN 1979

10/13/90
SITE NDE LEVEL III

RRS 11/8/90 10-15-90

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT: INDIAN POINT | UNIT: No. 3 | SKETCH: INT-2-1210
SYST/COMP.: ACCUMULATOR TANK | INTSIATAT2-32 | PROCEDURE: INT-ISI-47 REV. 1
EXAMINER (LEVEL II): William R Kelley Clyde W Kichline I | DATE: 9-30-90

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5					CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8					CALIBRATION CHECK
INST. S/N: SONIC MARK 1 11222E	S/N			D15542					D15542					INITIAL TIME
	SIZE			0.5"X1.0"					0.5"X1.0"					IC: 0902
	FREQ.			2.25 MHz					2.25 MHz					CC: 1152
	ANGLE			60°					60°					CC: 1405
REP. RATE: 3K	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	DISTANCE FROM SCRIBE/REF. LINE TO 50% DAC LOCATIONS		SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE/REF. LINE TO PEAK	DISTANCE FROM SCRIBE/REF. LINE TO 50% DAC LOCATIONS		
REJECT: OFF	1/4T			80%	2.0	1 3/16"	1 1/32"	1 1/2"	80%	2.0	1 3/16"	1 1/32"	1 1/2"	
							1.8S	2.4S				1.8S	2.4S	
DAMPING: MIN	1/2T			45%	4.0	2 3/8"	2 1/16"	2 13/16"	45%	4.0	2 3/8"	2 1/16"	2 13/16"	
							3.6S	4.6S				3.6S	4.6S	
FILTER: HI	3/4T			28%	6.0	3 17/32"	3 5/32"	4 3/16"	28%	6.0	3 17/32"	3 5/32"	4 3/16"	FINAL TIME
LIN. CHECK: SAT							5.5S	6.9S				5.5S	6.9S	FC: 1649
	1T			8%	8.5				8%	8.5				
SU CABLE: 12' BNC-BNC														CAL. BLOCK INT-42
	1 1/4T			11%	10.0				11%	10.0				
COUPLANT: SONOTRACE 40 BATCH # 8979	CAL. GAIN			56dB					56dB					THICKNESS 2.6"
														TEMP. 79°F

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	NRI	RI	REMARKS
32-1	78°F		YES	YES	YES		WELD CONFIGURATION + HEAD	SLIGHTLY ROUNDED			X	EXAMINED FROM 126"
							CONFIGURATION					CLOCKWISE TO 252"
												FROM 0 REFERENCE
32-3	78°F		YES	YES	YES		WELD CONFIGURATION, WELD 32-4,	SLIGHTLY ROUNDED	X			EXAMINED FROM 126"
							WELD 32-5 LS + SUPPORT SKIRT					CLOCKWISE TO 252"
												FROM 0 REFERENCE
32-4	78°F		YES	YES	YES		WELD CONFIGURATION, WELD 32-3,	ROUNDED	X			EXAMINED FROM 126"
							WELD 32-1 WS + SUPPORT SKIRT					CLOCKWISE TO 252"
							SEE ATTACHED LIMITATION TO					FROM 0 REFERENCE
							EXAMINATION SHEET FOR WELD 32-1,					SURFACE THERMOMETER
							WELD 32-3, WELD 32-4					S/N 1979

10/15/90
SITE NDE LEVEL III

APS 1450 10-15-90

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

LIMITATION TO EXAMINATION

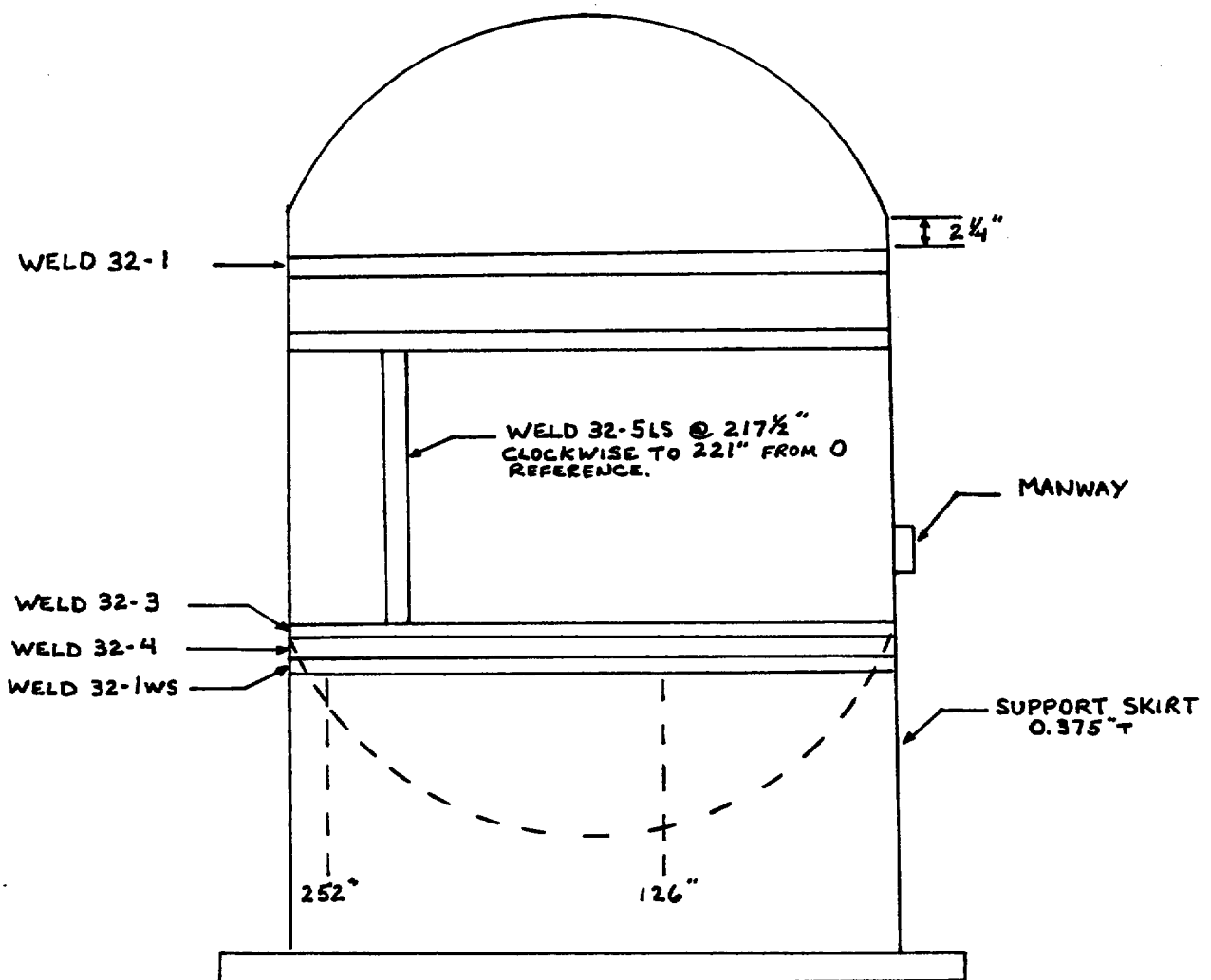
PLANT INDIAN POINT UNIT NO. 3 SKETCH INT-2-1210

SYST/COMP ACCUMULATOR TANK INTSIATAT 2-32 PROCEDURE INT-ISI-47 REV. 1

EXAMINER Robert J Cassat William E Kelly DATE 9-30-90
LEVEL II
James R. Dellinno

RELATED TO: U/T ✓ P/T _____ M/T _____ V/T _____ ITEM(S): 32-1, 32-3 + 32-4

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



WELD 32-1 HEAD CONFIGURATION LIMITS 45°+60° 5 SCANS. WELD CONFIGURATION LIMITS 0°, 45°+60° 2, 5, 7+8 SCANS.

WELD 32-3 WELD 32-5LS LIMITS 45°+60° 5, 7+8 SCANS. WELD CONFIGURATION LIMITS 0°, 45°+60° 2, 5, 7+8 SCANS. WELD 32-4 LIMITS 0°, 45°+60° 2, 7+8 SCANS. SUPPORT SKIRT LIMITS 60° 2 SCAN.

WELD 32-4 WELD CONFIGURATION LIMITS 0°, 45°+60° 2, 5, 7+8 SCANS. WELD 32-3 LIMITS 0°, 45°+60° 5, 7+8 SCANS. WELD 32-1WS LIMITS 0°, 45°+60° 2, 7+8 SCANS. SUPPORT SKIRT LIMITS 45°+60° 2 SCANS.

F49077

SITE NDE LEVEL III 10/17/90

335

ABS 11-15-90

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

WELD ULTRASONIC EXAMINATION INSERVICE

PLANT	UNIT	SKETCH
INDIAN POINT	NO. 3	INT-2-1210, REV. 1
SYST. / COMP.		PROCEDURE
ACCUMULATOR TANK INTSIATAT2-32		INT-ISI-47, REV 1
EXAMINER (LEVEL II) James R Delbrosso		DATE 9-23-99

EQUIPMENT	TRANSDUCER	STRAIGHT BEAM SCAN DIRECTION 0		AXIAL SCANS DIRECTIONS 2 & 5					CIRCUMFERENTIAL SCANS DIRECTIONS 7 & 8					CALIBRATION CHECK
INST. S / N STAVELEY 136 W16498	S / N	C26672		H30049					H30049					INITIAL TIME 0° - 1110 45° - 1150
REP. RATE 4K	SIZE	1.0"		0.5" X 1.0"					0.5" X 1.0"					
REJECT OFF	FREQ.	2.25 MHz		2.25 MHz					2.25 MHz					
DAMPING 500 OHMS	ANGLE	0°		45°					45°					
FILTER FULLWAV	CALIBRATION REFLECTOR LOCATION	SIGNAL AMPLITUDE	SWEEP POSITION	SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE / REF. LINE TO PEAK	50% DAC LOCATIONS		SIGNAL AMPLITUDE	SWEEP POSITION	DISTANCE FROM SCRIBE / REF. LINE TO PEAK	50% DAC LOCATIONS		
LIN. CHECK SAT	1/4 T	80%	2.0	80%	2.0	0.68"	0.5" 1.7s	0.85" 3.3s	80%	2.0	0.68"	0.5" 1.7s	0.85" 3.3s	
S. U. CABLE 12' BNC to BNC	1/2 T	80%	4.0	72%	4.0	1.4"	1.25" 3.7s	1.5" 4.3s	72%	4.0	1.4"	1.25" 3.7s	1.5" 4.3s	
COUPLANT SONOTRACE 40 95343D	3/4 T	62%	6.0	40%	6.0	2.05"	1.8" 5.7s	2.25" 6.4s	40%	6.0	2.05"	1.8" 5.7s	2.25" 6.4s	FINAL TIME 0° - 1530 45° - 1535
	1 T NOTCH			15%	8.7				15%	8.7				
	1-1/4 T			10%	10.0				10%	10.0				CAL. BLOCK INT-42
	CAL. GAIN	46.6 dB		37 dB					37 dB					THICKNESS 2.6"
														TEMPERATU 76°

WELD NUMBER	TEMP.	BASE METAL SCAN	SCAN DIRECTION 2	5	7/8	0	EXAMINATION LIMITATIONS	CROWN CONFIGURATION	RESULTS NI	NRI	RI	REMARKS
32-3	80°	NO	YES	YES	YES	YES	SEE LIMITATION DATA SHEET	ROUNDED	X			SEE NOTE BELOW
32-4	80°	NO	YES	YES	YES	YES	SEE LIMITATION DATA SHEET	ROUNDED	X			SEE NOTE BELOW
												NOTE: EXAMINED FROM 252" THRU 376.8" CLOCKWISE FROM 0 REFERENCE
												SURFACE THERMOMETER SN 38081

NEW YORK POWER AUTHORITY LEVEL III REVIEW / DATE
P E Deed 10/4/99

ANII REVIEW / DATE
J Wm Evans 10/04/99

FORM 19001

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

LIMITATION TO EXAMINATION

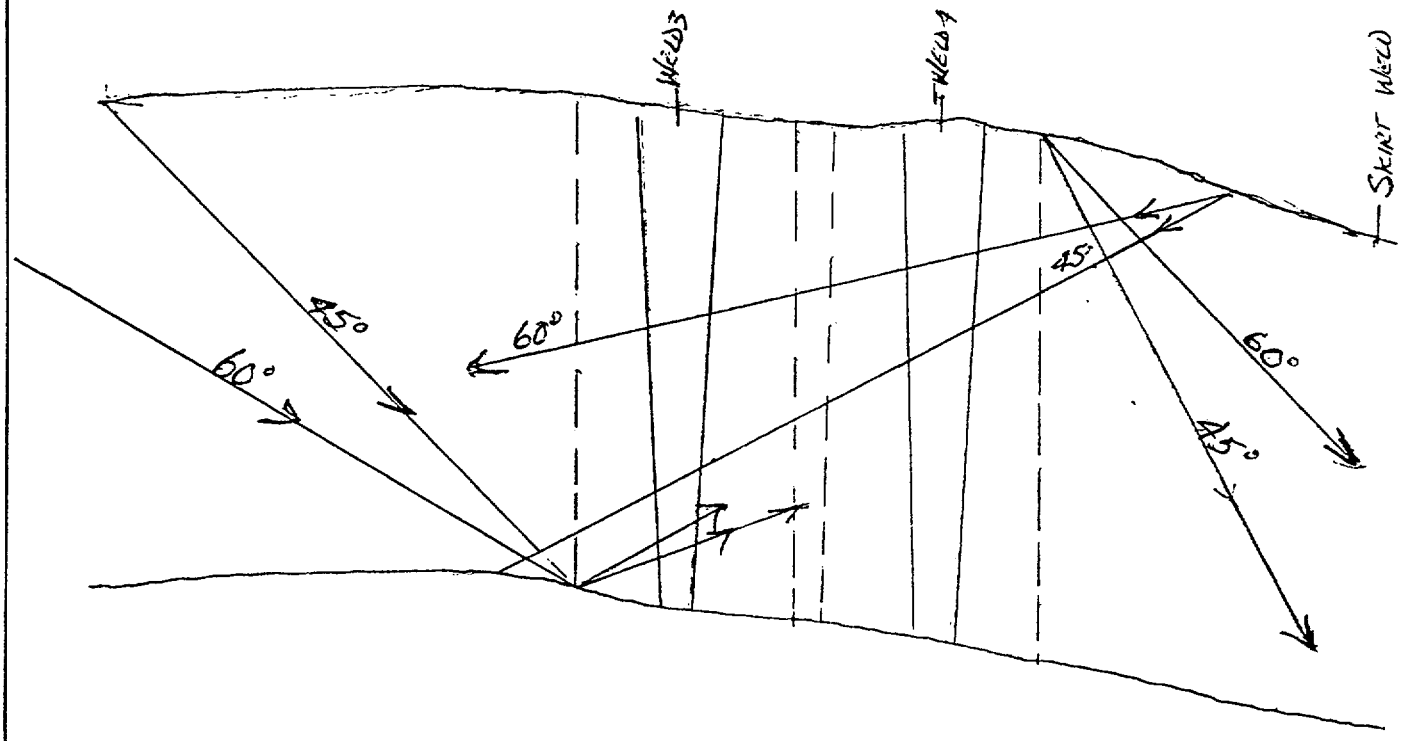
PLANT INDIAN POINT UNIT NO. 3 SKETCH INT-2-1210 REV. 1

SYST./COMP. ACCUMULATOR TANK INTSIATAT2-32 PROCEDURE INT-ISI-47, REV. 1

EXAMINER [signature] LEVEL II DATE 9-23-99

RELATED TO: U/T X P/T _____ M/T _____ V/T _____ ITEM(S) 32-3 AND 32-4

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



WELD 3 94% EXAM VOLUME COVERED WITH 45° AND 88% WITH 60°

WELD 4 89% EXAM VOLUME COVERED WITH 45° AND 60% WITH 60°

NEW YORK POWER AUTHORITY LEVEL III REVIEW / DATE	ANII REVIEW / DATE
P. E Deed 10/4/99	[signature] 10/04/99

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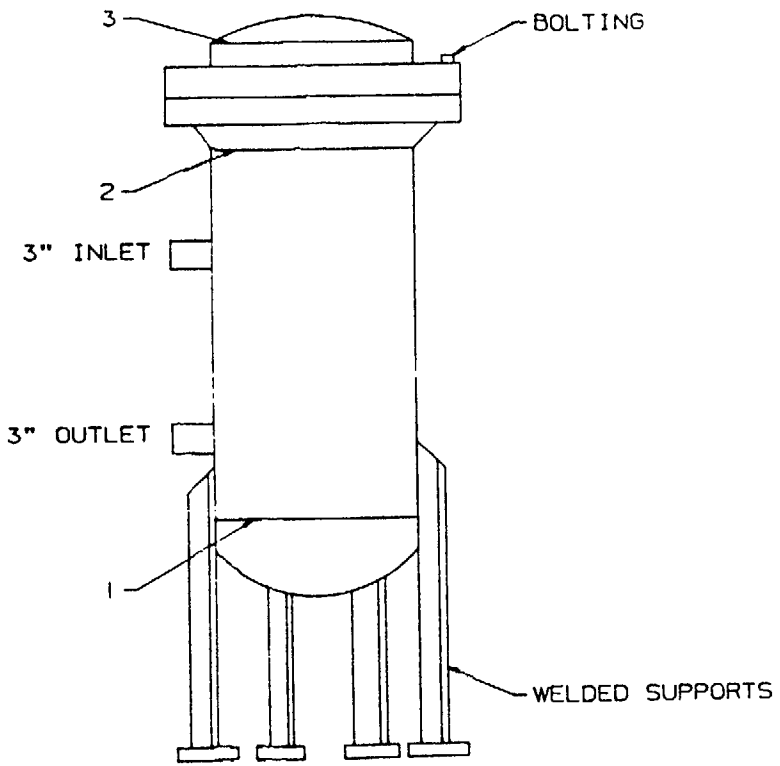
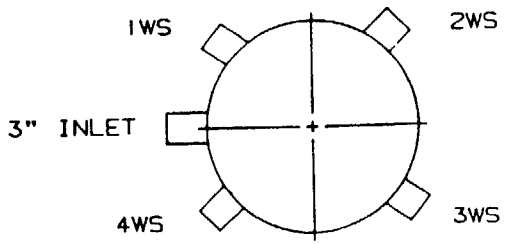
365'

SEAL WATER RETURN FILTER
CSFLSW1-31





WELDS 1,2 & 3: 0.188"T TP304 STAINLESS STEEL
DIAMETER 16.0";CIRUMFERENCE:50.24"
NOZZLE IN VESSEL WELDS: 3" DIAMETER
INTEGRALLY WELDED ATTACHMENTS: 4-0.4375"T
COMPONENT SUPPORTS:4 WELDED ATTACHMENTS
BOLTING: 8-0.750" DIAMETER
O REFERENCE: CENTERLINE OF 3" INLET NOZZLE

NEW YORK POWER AUTHORITY INDIAN POINT UNIT NO.3	
SEAL WATER RETURN FILTER CSFLSW1-31	
INT-2-1320	REV. 2

SKETCH INT-2-1320

EXAMINATION SUMMARY
FOR

1989

PROGRAM REF. (SEE TAB C)	SKETCH REF. IDENT. NO.	UT NI	UT NRI	UT RI	PT NI	PT NRI	PT RI	VT NI	VT NRI	VT RI	NI	NRI	RI	REMARKS
123	2				X									
124	1				X									
124	3				X									

WESTINGHOUSE FORM 46762

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WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

SURFACE EXAMINATION DATA

PLANT INDIAN POINT UNIT No. 3 SKETCH INT-2-1320

SYST/COMP. SEAL WATER RETURN FILTER CSFLSWI-31 PROCEDURE INT-ISI-11 REV. 0

EXAMINER Robert H Cline Clyde W Kidd I LEVEL II DATE 3-23-89

P/T		BATCH NOS.
CLEANER	MAGNAFLUX	88B069
PENETRANT	MAGNAFLUX	86J018
DEVELOPER	MAGNAFLUX	88J047
REMOVER	MAGNAFLUX	88B069

M/T	
EQUIPMENT	
EXAM. MEDIUM	
BLACK-LIGHT CHECK TIME	

IDENT. NUMBER	RESULTS NI	NRI	RI	REMARKS
1	X			TEMP. 65°F EXAMINED FROM 0" CW TO 17" FROM O REF.
				SEE ATTACHED LIMITATION SHEET
2	X			TEMP. 65°F EXAMINED FROM 0" CW TO 17" FROM O REF.
3	X			TEMP. 65°F EXAMINED FROM 0" CW TO 17" FROM O REF.

4/20/89
SITE NDE LEVEL III

ANS/HSB 5/24/89

FORM 45935C

361

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

LIMITATION TO EXAMINATION

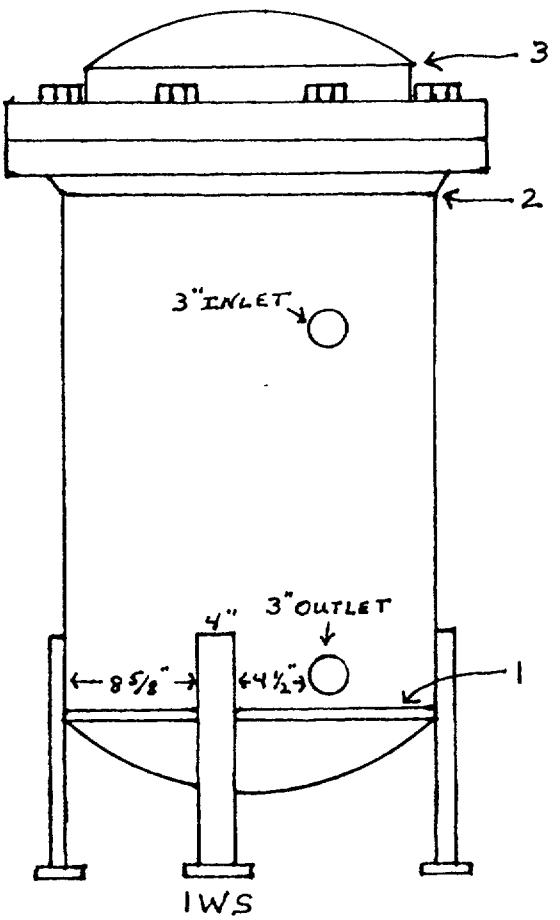
PLANT INDIAN POINT UNIT No. 3 SKETCH INT-2-1320

SYST/COMP SEAL WATER RETURN FILTER CSFLSW-3 PROCEDURE INT-IST-11 REV. 0

EXAMINER [signature] DATE 3-23-89
LEVEL II

RELATED TO: U/T ____ P/T ✓ M/T ____ V/T ____ ITEM(S): 1

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



4" SUPPORT LIMITS PT EXAMINATION ON WELD 1

APS/HSB
5/24/89

369

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

SURFACE EXAMINATION DATA

PLANT INDIAN POINT UNIT NO. 3 SKETCH INT-2-1320

SYST/COMP. SEAL WATER RETURN FILTER CSFLSW1-31 PROCEDURE INT-ISI-11 REV. 1

EXAMINER [signature] LEVEL II DATE 11-4-90

P/T		BATCH NOS.
CLEANER	MAGNAFLUX	90C09P
PENETRANT	MAGNAFLUX	84M069
DEVELOPER	MAGNAFLUX	85M035
REMOVER	MAGNAFLUX	90C09P

M/T

EQUIPMENT

EXAM. MEDIUM

BLACK-LIGHT CHECK TIME

IDENT. NUMBER	RESULTS NI	NRI	RI	REMARKS
1	X			TEMP. 70°F SURFACE THERMOMETER S/N 1973
				EXAMINED FROM 17" CLOCKWISE TO 34" FROM
				0 REFERENCE
				SEE ATTACHED LIMITATION TO EXAMINATION
				DATA SHEET
2	X			TEMP. 70°F SURFACE THERMOMETER S/N 1973
				EXAMINED FROM 17" CLOCKWISE TO 34" FROM
				0 REFERENCE
3	X			TEMP. 70°F SURFACE THERMOMETER S/N 1973
				EXAMINED FROM 17" CLOCKWISE TO 34" FROM
				0 REFERENCE

[signature] 11/13/90
SITE NDE LEVEL III

11/13/90

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WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

LIMITATION TO EXAMINATION

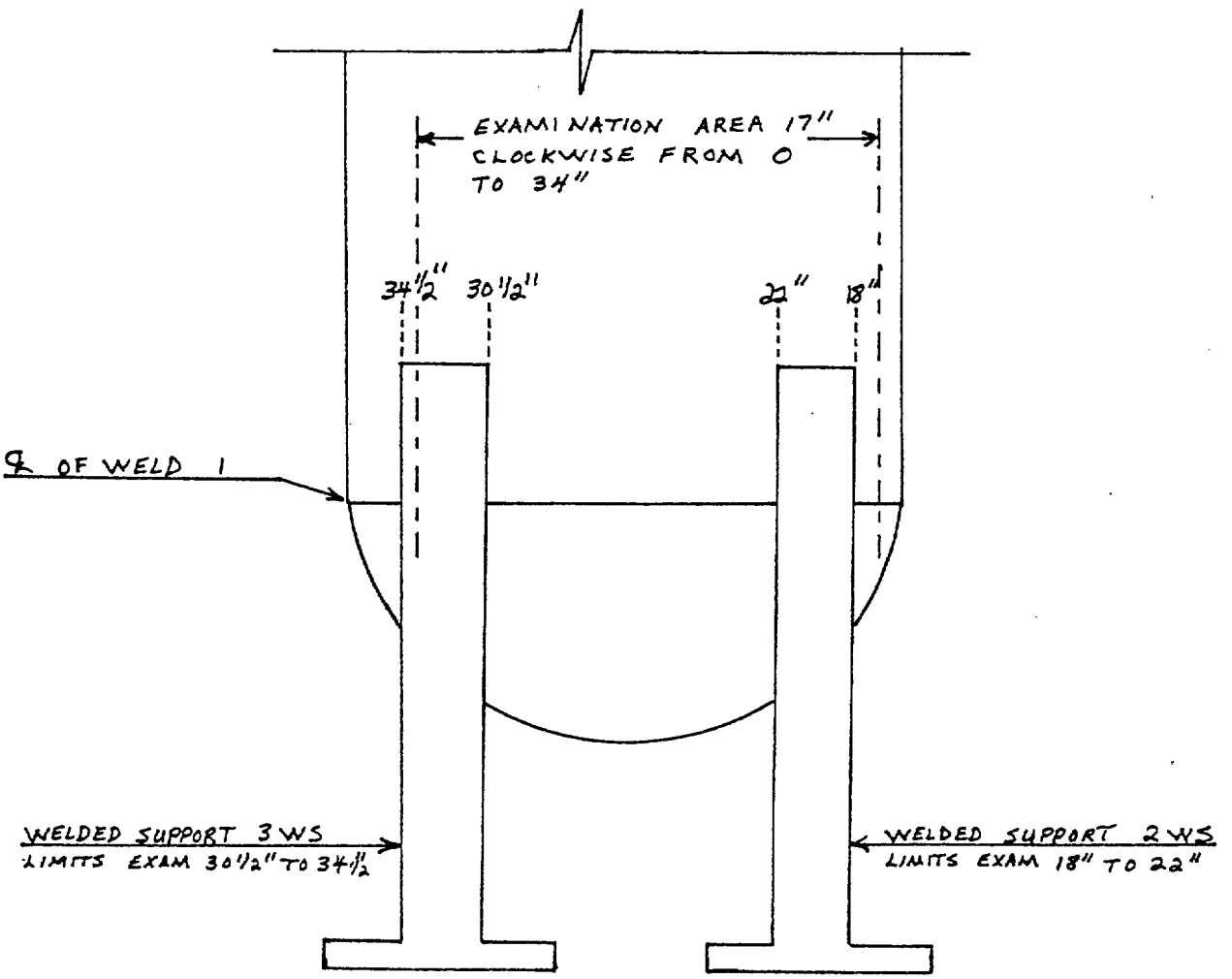
PLANT INDIAN POINT UNIT NO. 3 SKETCH INT-2-1320

SYST/COMP SEAL WATER RETURN FILTER CSFLSW1-3 PROCEDURE INT-ISI-11 REV 1

EXAMINER [signature] DATE 11-4-90
LEVEL II

RELATED TO: U/T ____ P/T ✓ M/T ____ V/T ____ ITEM(S): 1

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



[signature] 11/13/90

RS/KB 11-13-90

F49077

SKETCH INT-2-1320

EXAMINATION SUMMARY
FOR
INDIAN POINT UNIT 3
1999

PROGRAM REF. (SEE TAB C)	SKETCH REF. IDENT. NO.	UT NI NRI RI	PT NI NRI RI	VT NI NRI RI	MT NI NRI RI	REMARKS
44	2		X			Seal Water Return Filter
45	1		X			Seal Water Return Filter
45	3		X			Seal Water Return Filter

WESTINGHOUSE NUCLEAR SERVICE DIVISION
INSPECTION SERVICES

SURFACE EXAMINATION DATA

PLANT: INDIAN POINT | UNIT: NO. 3 | SKETCH: INT-2-1320 REV. 2

SYST/COMP: SEAL WATER RETURN FILTER CSFLSW1-31 | PROCEDURE: INT-ISI-11 REV. 1 F.C. 01

EXAMINER: [signature] LEVEL II | DATE: 9-17-99

P/T		BATCH NOS.
CLEANER	MAGNAFLUX	98A10K
PENETRANT	MAGNAFLUX	93D12K
DEVELOPER	MAGNAFLUX	93KO6K
REMOVER	MAGNAFLUX	98A10K

MT

EQUIPMENT:

EXAM MEDIUM:

BLACK-LIGHT CHECK TIME:

IDENT. NUMBER	RESULTS NI	NRI	RI	REMARKS
WELD 1	X			TEMP. 82°F, SURFACE THERMOMETER S/N 38081 SEE NOTES 1 AND 2 BELOW
WELD 2	X			TEMP. 82°F, SURFACE THERMOMETER S/N 38081 SEE NOTE 1 BELOW
WELD 3	X			TEMP. 82°F, SURFACE THERMOMETER S/N 38081 SEE NOTE 1 BELOW
				NOTE 1: EXAMINED FROM 34" CLOCKWISE THRU 50.24" FROM 0 REFERENCE
				NOTE 2: WELDED SUPPORT 4WS PROHIBITS EXAMINATION FROM 40.25" THRU 44.25"

NEW YORK POWER AUTHORITY LEVEL III REVIEW / DATE: P.E. [signature] 9/28/99

ANII REVIEW / DATE: [signature] Evans 9/29/99

FORM 45935C

Code Category C-B: **Pressure Retaining Nozzle Welds in Vessels**

Item No. C2.20 **Steam Generator**
Item No. C2.21 **Nozzle-to-Shell (or Head) Weld**

- Relief Request RR 2-27, Rev. 0 previously granted for weld 31-9 (Ref. TAC No. M82269, pages 21-23, dated December 21, 1994)

Code Category C-B: **Pressure Retaining Nozzle Welds in Vessels**

Item No. C2.20
Item No. C2.22 **Steam Generator Nozzle Inside Radius Section**

- Relief Request RR 2-16, rev. 0 for Item C2.22 previously granted via SER (TAC No. 72247, pages 35-37, dated November 7, 1991).