



INDIAN POINT UNIT 3

FLOW ACCELERATED

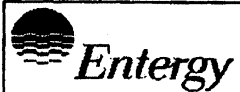
CORROSION

3RF13 OUTAGE

ORIGINAL

2005

Submitted: December 22, 2011

NDE-4-12(I) Rev.4
Attachment 2
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Report No.: 05UT002

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Exam Item: AC-05-TD-03 / Pipe, Elbow, Pipe

Sys. / Comp. ID: Main Steam
FAC-05-TD-03Material: Carbon Steel
Size: 3/4" CSHigh Reading: .257"
Low Reading: .059"

DWG No.: 9321-F-20173

Thickness: .154"

Grid Size: N/A

WR / Mod: IP3-03-24803

Configuration: Pipe to Elbow to Pipe

Datum Point: N/A

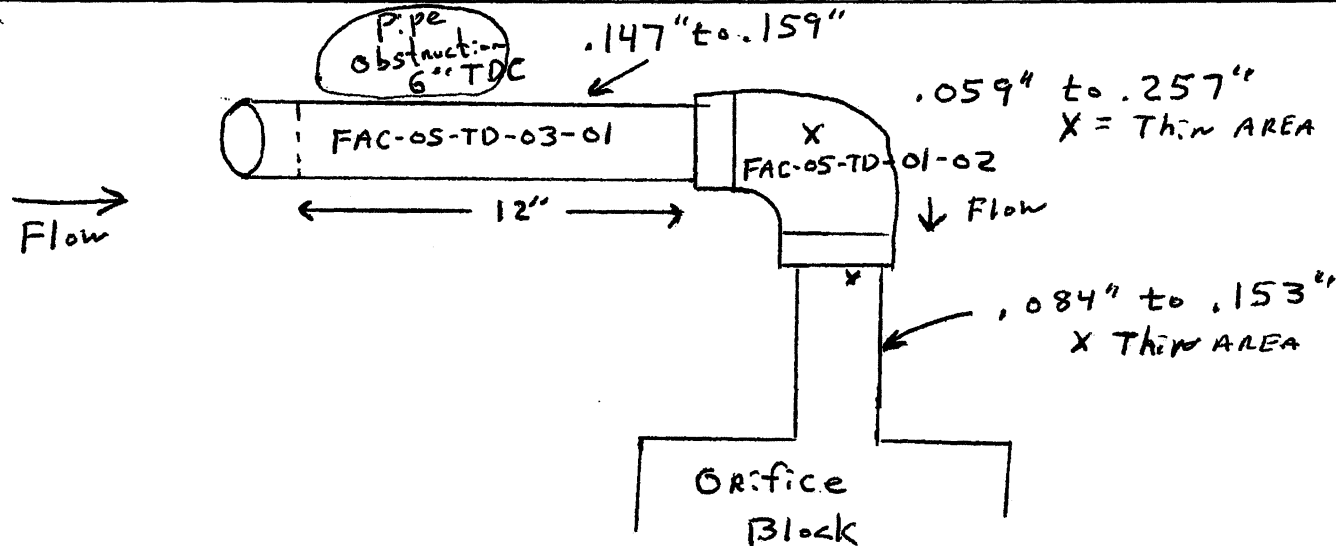
QA Category: Non Cat 1

ASME XI Class: N/A

Cat: N/A

Acceptance Standard: .059" per Calculation IP-CALC-04-01795, Rev 0

Procedure: ENN-NDE-9.05 Rev.: 0



Remarks:

All readings are in thousandths of an inch.

FAC-05-TD-03 High: .159 Low: .147

FAC-05-TD-03 High: .257 Low: .059

FAC-05-TD-03 High: .153 Low: .084

Examiner: P.E. Deeds Jr. Level: III Date: 1/6/05

Examiner: N/A Level: Date:

Reviewed by: Level: III Date: 1/6/05

ANII Review: N/A Date:

REA5-01

Submitted: December 22, 2011



Entergy

Ultrasonic Examination Report

 IPEC Unit # 3
 Report No.: 05UT070
 Page 1 of 5

Sys. / Comp. ID: HD / FAC-05-VCD-08(01-02)

Exam Item: ELBOWS AND PIPE

DWG No. or Sketch: 9321-F-20233 Rev 23

WR/Mod: IP3-03-24791

QA Category: Non Cat ASME XI Class: N/A Cat: N/A

Procedure: ENN-NDE-9.05

Rev.: 0

Component Configuration: ELBOWS AND PIPE

Orientation: 0 Degree

Type of Material: Carbon Steel

Angle: 0 ° Mode: Longitudinal

Size: 3.0" Sch. 40 Thickness: .216"

Equipment

Instrument: 103861 Krautkramer DMS-2 Due: N/A

Vertical Linearity Check

Signal 1	100	90	80	70	60	50	40	30	20	10
Signal 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(Signal 2 shall equal 50% of signal 1 5% of full scale.)

Attenuator Linearity Check

80% - 6 db	80% - 12 db	40% + 6 db	20% + 12 db
N/A	N/A	N/A	N/A
(32 to 48)	(16 to 24)	(64-96)	(64-96)

Transducer: 011790 KBA 8 Mhz 0.38" RND FH2E Dual Wedge: N/A

Search Unit Cable: 6' Self-Cont.

Wedge Meas. Angle: N/A °

Exit Point-Front: N/A "

Couplant: 04225 Sonotech / Ultragel II

Thermometer: 104248

Due: 1/23/2006

Temperature

Calibration Block: 103458 Step Wedge T= .04" - .5" Material: 1018 Steel

70 °F

Simulator Block: N/A

N/A °F

Reference Block: N/A

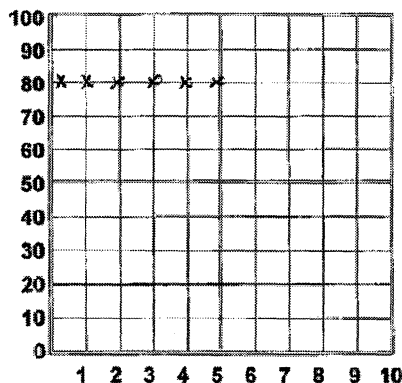
N/A °F

Entry Surface: OD

Component: 70 °F

Distance Amplitude Curve

Each Major Screen Division = 0.1"



Reflector	Orient.	% FSH	Pos.	dB
0.040"	Step	80	0.4	N/A
0.100"	Step	80	1.0	N/A
0.200"	Step	80	2.0	N/A
0.300"	Step	80	3.0	N/A
0.400"	Step	80	4.0	N/A
0.500"	Step	80	5.0	N/A

Calibration Times:

1110	1121	1320	1355
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Instrument Settings
 Range (in.): 1.0"
 Thick Cal: 2-PT
 Velocity (in./μs): .2351
 Sensitivity (dB): 58
 Scan Sensitivity: maint 80%
 Frequency (mHz): 8
 Reject: Off
 Filter: Fullwave
 Pulse Length: Fixed
 Damping: Fixed
 Mode Select: Dual
 Rep. Rate: Fixed
 DEC/Gate: Off
 Jacks: T/R

Acceptance Standard: Minimum wall thickness = 87.5% of nominal thickness

Recordable Indication(s): No

Recording Level: N/A % DAC

Evaluation Level: N/A % DAC

98 % Complete Limitations: Yes

Remarks: No U/S or D/S on FAC-05-VCD-08(01) due to valves.

FAC-05-VCD-08(02) Obstructions on D/S due to pipe hanger C20-22, D20-22, E20-22.

Examiner: [Signature] Ian H. Pedersen Level: III Date: 3/22/2005Examiner: [Signature] Matthew E. Wilson Level: III Date: 3/22/2005Reviewed by: [Signature] Level: IV Date: 3/23/05ANII Review: N/A Date: N/A



Report No.: 05UT070

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Exam Item: Pipes, Elbows

Sys. / Comp. ID: HD/ FAC-05-VCD-08(01-02)

Material: Carbon Steel

High Reading: 0.336"

DWG No.: 9321-F-20233 Rev 23

Size: 3.0" Sch. 40

Low Reading: 0.052"

Thickness: 0.216"

Grid Size: 1"

WR / Mod: IP3-03-24791

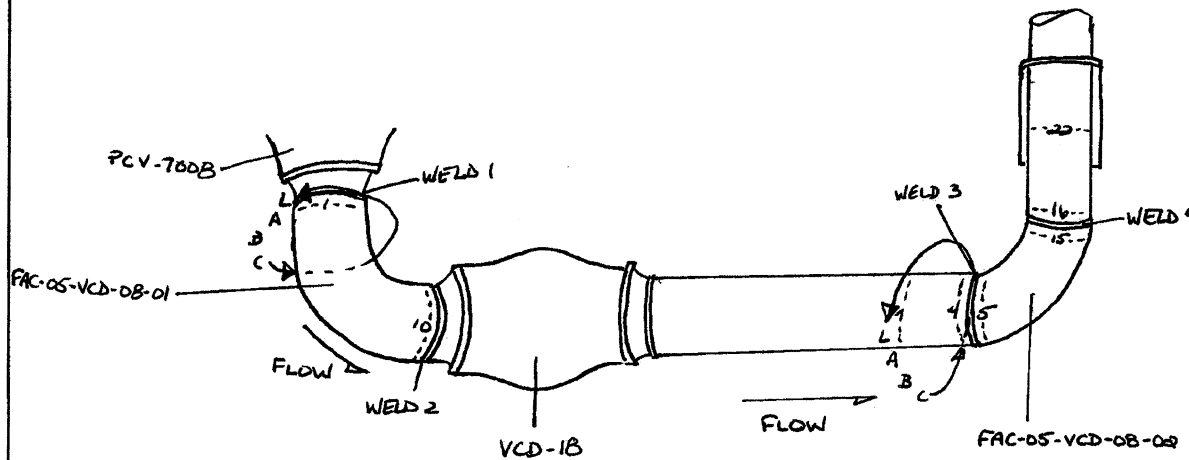
Configuration: Pipes, Elbows

Datum Point: Extrados

QA Category: Non-Class ASME XI Class: N/A Cat: N/A

Acceptance Standard: Minimum wall thickness = 87.5% of nominal wall thickness = .189"

Procedure: ENN-NDE-9.05 Rev.: 0



LOOKING IN
DIRECTION OF
FLOW
APPLIES FOR BOTH
FAC-05-VCD-08(01+02)

TOP VIEW

Remarks:

All thickness readings above are in thousandths of an inch

Weld 1 D/S 0.060" between J+K

Weld 2 U/S 0.157" Between B+C

Weld 3 U/S 0.231" Between A+B

Weld 3 D/S 0.230" @ B

Weld 4 U/S 0.219" Between B+C

Weld 4 D/S 0.201" Between C+D

Refer to sketch for weld locations.

Examiner: Ian H. Pedersen Level: III Date: 03/22/2005Examiner: Matthew E. Wilson Level: III Date: 03/22/2005Reviewed by: [Signature] Level: III Date: 3/23/05ANII Review: N/A Date: N/A

REA5-01