

Tank Inspector(s) J. Martin (STI# AC 44355) and M. Emert

Name Plate/Construction

Steel Stainless Steel Plastic Aluminum Fiberglass

Build Date 2000 Manufacturer Palmer Manufacturing and Tank

Build Std: API-650 API-12C API-12F UL-142 Re-Erected Unknown

Date Last External _____ Date Last Internal _____

Name Plate Data

Dia/Width: 12.00 ft Must be <=30 ft

Height: 42.00 ft Must be <=50 ft

Length: _____ ft

Capacity: 35,286 GAL

STI Not applicable for tanks over 50,000 Gal.

Product Service DVOP

Specific Gravity 1.00

Ambient Heated

Refrigerated

Operating Temperature 150 F

STI Not applicable for heated tanks over 200°F



Tank Description

Vertical Horizontal Box Tote Other _____

Foundation: Grade Ringwall Concrete Pad Saddles Skids Other

Bottom: Welded Riveted Bolted N/A Year Installed: _____

No Coating Thin Coating Thick Coating

Pan Type Cathodic Protection Double Bottom Leak Detection

Shell: Welded Riveted Bolted Combination

Lap welded Insulated Double Wall Containment Vessel

Horizontal Tank Heads: Flat Hemispherical Dish

Roof: Cone Flat Geo-Dome Dome Open/None N/A

Roof Access: Spiral Stair Radial Stair Catwalk Ladder None

1. Spill Control None

- Containment AST Dbl Wall/Bottom Dike Area Remote Impound in Building

2. CRDM (Continuous Release Detection Method) None

RPB (Release Prevention Barrier)

- Type Concrete Pad Liner Steel Plate Other _____
- Double Wall/Bottom** with Interstitial Space
- OK Not OK Not Checked
- Elevated**

3. AST Category Category 1

- 1 Any Tank with Both Spill Control and CRDM
 - 2 Single wall AST in contact with ground NO CRDM Has Spill Control
 - 3 Single wall AST in contact with ground has CRDM NO Spill Control
- Vertical AST on concrete pad CRDM has NO Spill Control
- Single/Double wall AST Has CRDM NO Overfill Protection

4. Venting

- Open vents not elevated 12 feet Open vents not vented outside building
- Uses long bolted Manway as emergency vent Vapor recovery system

Primary Vent Open Pressure/Vacuum Pressure Size: 6.00"

Secondary Vent Open Pressure/Vacuum Pressure Size: _____

Emergency Vent Open Pressure/Vacuum Pressure Size: _____

Interstice Vent Open Pressure/Vacuum Pressure Size: _____

5. Comments

The tank had one 6-inch open vent.

1. Foundation **Concrete Pad**

Anchorage: No Anchors Cable Tie Downs Anchor Bolts
Number of Anchors: 4 Size of Bolt (in) 1.00 Height (in) 13.00
Thickness of top plate (In) 0.509 Thickness of side plate (In) 0.509

Ringwall/Pad Distance from Bottom extension to edge (in) 4.00 Min 5.00 Max
Dimensions: Distance from top surface to grade (in) 24.00 Min 26.00 Max

Support Number of supports: __ Space between Supports (in) __
Dimensions: Size of supports (in): __ Height of supports (in): __
 No Pad Plate Pad Plate Stitch welded pad plate Seal welded pad plate

2. Undesirable Foundation Conditions

- Grade against tank Washout Voids under tank Hairline Cracks in concrete
- Large Cracks in concrete (>1/8") Exposed rebar Discontinuous Ringwall
- Corrosion of supports Anchor Bolt Corrosion Bottom extension corrosion
- Sealant under tank Grout under tank Grout/Sealant Failure Corroded Shims

3. Undesirable Area Conditions

- Obvious settlement Water Against tank Drainage toward tank Excessive debris
- Vegetation by tank Moss under bottom No Containment Dike/Wall
- Damaged Containment Dike/Wall Product residue Wet Product by Tank

4. Comments

1. External Tank Shell

Welded

- Seams Covered Rivets Unsealed Rivets Sealed Rivets Welded
 No Pad Plates Under Shell Brackets No Ice shields on All Item <2" Foam System

2. Coating Conditions

Like New Good Fair Poor No Coating

- Peeling Cracking Thinning Rust Stained Primer Only Areas not Coated

Insulation Conditions

Like New Good Fair Poor

- Sprayed Corrugated/ Banded Smooth Metal Areas Removed
 Tears Damaged Holes Penetrations Not Sealed Wet under Insulation

3. Undesirable Shell Conditions

- Weld Seam Corrosion Weld Pinholes Arc Strikes Weld Porosity Weld Slag
 Weld Cracks Weld Undercut Lack of Fusion Holes in Shell Gouges in Shell
 Inactive Corrosion Active Corrosion Surface Corrosion Corrosion Damage
Deepest Shell Corrosion Found: __ Height above Grade __ Needs Evaluation

4. Shell Distortion and Buckling

- Peaking Banding Lower Shell Distortion Upper Shell Distortion Torn Plate
 Distortion around Nozzles/Repairs Minor Buckles Major Buckles Sharp Creases

5. Possible Improper Construction Practices

List Items Below

- Square Corner Inserts/Pads Lap Patches Unreinforced Penetration Split Repad
 No Telltale Hole in Repad Plugged Telltale Hole in Repad Improper Weld Space
 Insufficient Reinforcement Undersize Insert Cover Plate Thin Flange Thin
Shell Nozzles A, H, I, J, and K were over 2 inches in diameter and did not have repads.

The repads of Shell Items C, L, and M did not have telltale holes.

6. Ground cables

Quantity 1

- None Found Not Attached Broken Improper Attachment

7. Level Gauge Manufacturer DP Harp Product Height: 0.00 FT

- Float with Gauge Target Board Electronic Floats, Cables Guides not Attached
- Not Working Conduit damaged Needs Service

8. Top Angle Wind Girder

- None Toe In Toe Out Corrosion TA Weld Size Greater than 3/16"
- Damaged Welds Buckled Coating Failure Holds Water Buckled

Top Angle: Vertical (in) 3.00 Horizontal (in) 3.00 Thickness (in) 0.243

Wind girder: Vertical (in) Horizontal (in) Thickness (in)

Distance from Top of Tank (in):

9. Shell Vents and Overflows

- None Indicator Holes Screens Missing/Damaged Over Stairway Geo Dome

Number of Vents: Size (in): Distance from roof (in):

Number of Overflows: Size (in): Distance from roof (in):

10. Comments

The pad plates on the external shell were not seal welded.

The coating on the external shell and appurtenances was in good condition.

1. Internal Tank Shell **Welded**

- Product Build-Up Product Residue Lower Shell Coated Entire Shell Coated
- Shell Not Inspected Shell Welds Not Inspected

2. Undesirable Shell Conditions

- Weld Seam Corrosion Weld Pinholes Weld Porosity Weld Slag Weld Cracks
 - Weld Undercut Lack of Fusion Arc Strikes Holes in Shell Gouges in Shell
 - Weld Burrs Minor Shell Corrosion Shell Corrosion Damage
- Deepest Shell Corrosion Found: __ Height above Bottom __ Needs Evaluation

5. Possible Improper Construction Practices List Items Below

- Lap Patches Item Penetrates but Not Welded Hot Tap Drilled Hole for Coupling
 - No Pads on Gauge Pole Supports No Pads on Datum Plate Supports Undercut
 - Incomplete Shell Weld Lack-of-Fusion Cracked Weld Welds Not Visible
-
-

5. Internal Piping and Supports

- No Pads on Pipe Supports Pipe Support Welded to Both Pipe and Bottom
- Inadequate Pipe Supports Corrosion on Piping Broken Welds No Diffuser
- No Suction Trough Center Suction / Fill Has Floating Suction Line

The piping supports lacked pad plates on the internal shell.

6. Comments

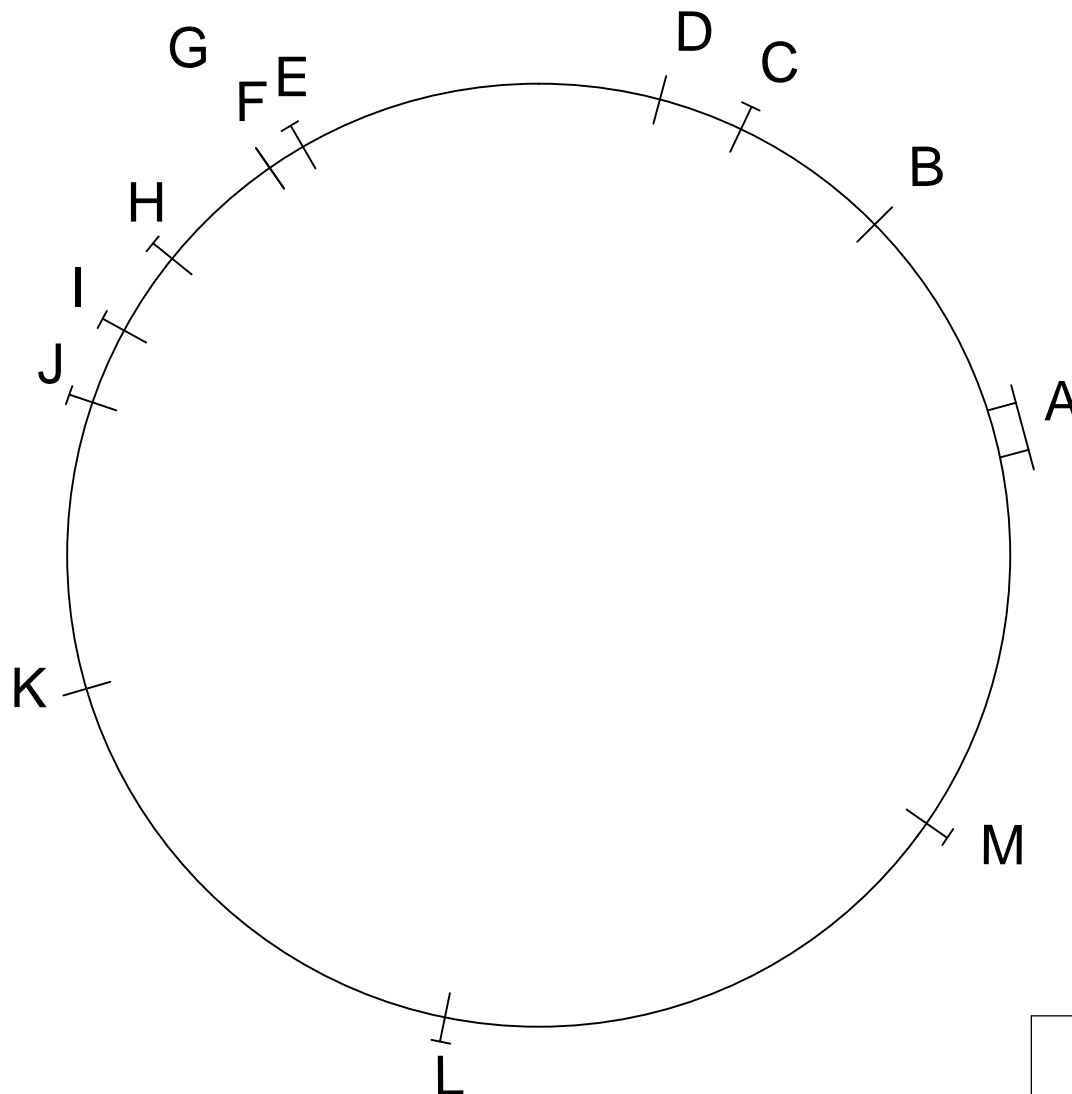
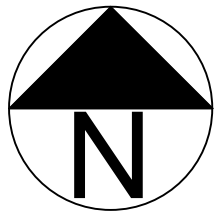
There was product buildup and residue on the internal shell.



Height is measured from bottom to the centerline of the item. Weld spaces are measured toe-to-toe of the welds.

ID	Size	TT hole	Shape*	Description	Location	Height	Repad/Insert			Neck Thicknesses				Weld Space	To**
							Width	Height	t	Top	Bottom	Left	Right		
A	24.00			Manway	0.00	30.00					0.389			17.00	CW
B	0.75			Coupling	3.10	30.00								24.00	CW
C	2.00		A	Nozzle	5.20	6.50	10.00	10.00	0.265		0.206			1.00	CW
D	0.75			Coupling	6.30	24.00								23.00	CW
E	3.00			Nozzle	11.00	Ring 7									
F	0.75			Coupling	11.50	24.00								12.00	CW
G	3.00		C	Flange	11.50	6.00	10.00	10.00						0.00	CW
H	4.00			Nozzle	13.20	32.00					0.225			11.00	I
I	4.00			Nozzle	14.30	18.00								10.00	J
J	4.00			Nozzle	15.30	8.00					0.226			5.00	CW
K				Catwalk	19.00										
L	8.00		A	Nozzle w/ Mixer	25.50	36.00	24.00	24.00	0.248		0.286			23.50	CW
M	2.00		A	Nozzle	32.50	9.00	10.00	10.00	0.261		0.215			3.25	CW
N															
O															
P															
Q															
R															
S															
T															
U															
V															
W															
X															
Y															
Z															
AA															
BB															

** TS=Tombstone or low type repad, CW=Cornerweld, HW= Horz. weld, VW=Vertical Weld, R#=Repad of Item #, #=-Weld of Item#, PB=Pan Bottom weld



- | Couplings/Other
- ┆ Nozzles
- ┆┆ Manway
- Ladder
- Catwalk/Platform
- ▣ Stairs

		Job No:	652149	
		Tank Num:	DVOP 10	
		Date:	08-03-2021	
Customer:	AGP			
Location:	Hastings, NE			
	Diameter:	12.00	Height:	42.00
	Drawn by:	J Bachman	Rev:	

STI-EXTERNAL



Company: AGP
 Location: Hastings, NE

Job ID: 652149
 Date: 8/4/2021
 Tank: DVOP 10

Course	Height (in)	Shell Material	Joint Type*	Shell Thicknesses (in)		
				Bottom	Middle	Top
1	72.00		BW	0.248	0.248	0.250
				0.251	0.249	0.250
				0.250	0.252	0.253
				0.256	0.250	0.248
2	72.00		BW	0.253	0.252	0.250
3	72.00		BW	0.250	0.251	0.252
4	72.00		BW	0.247	0.253	0.252
5	72.00		BW	0.252	0.252	0.248
6	72.00		BW	0.255	0.252	0.251
7	72.00		BW	0.252	0.251	0.252
8						
9						
10						

* Joint Type: BW= Butt Weld, LW= Lap Weld, LR# = Lap Riveted (num of rivets), BR= Riveted Butt joint (Num Rivets on one side), BLT=Bolted

Total Height

Minimum Thickness written in **Blue Font**

Enter Vertical seam Location in CCW order from Start point.

1	35.90	11		21		31
2		12		22		32
3		13		23		33
4		14		24		34
5		15		25		35
6		16		26		36
7		17		27		37
8		18		28		38
9		19		29		39
10		20		30		40

Second Course offset _____
 Third Course offset _____

1. Tank Roof

Cone

- No Access Limited Access Access Not Safe No Safety Tie Off
Slope, Run 24 inches Rise (in): 4.00

2. Coating Conditions

Like New Good Fair Poor No Coating

- Peeling Cracking Thinning Primer Only Areas Not Coated

Insulation Conditions

Like New Good Fair Poor

- Sprayed Corrugated/ Banded Smooth Metal Areas Removed
 Tears Damaged Holes Penetrations Not Sealed Wet under Insulation

3. Undesirable Roof Conditions

- Weld Seam Corrosion Weld Pinholes Weld Cracks Holes in Roof
 Inactive Corrosion Active Corrosion Surface Corrosion Corrosion Damage
 No Safety Bars on >30" Openings Thinnest RWT Found: 0.245" Needs Evaluation

4. Roof Distortion and Buckling

- Excessive Waviness Areas Holding Water Settlement of Support Structure
 Torn Plates Sharp Creases Roof Joint Not Frangible (3/16")

5. Vents and settings

List vent sizes and settings below

- Open Vents Pressure/Vacuum Vents Peripheral Vents Flame Arrestor
 Missing/Damaged Screens Vents Need Service Less than 8" Center Vent with IFR
The tank had one 6-inch open vent that was piped down to a lower area of the tank.

6. Comments

The coating on the external roof and appurtenances was in like new condition.

Access to the roof was limited.

The tank did not have a safety tie off.

1. Internal Tank Roof

Structurally Supported Self Supporting (No Structure)

Record column radius location and number of columns

Center	Bay 1	Bay 2	Bay 3	Bay 4
Radius 0				
Number 0				

2. Column Type, Size and Conditions

Structural Steel Steel Pipe Both Types

Dimensions (in)	Center Column	Outer Columns
Size of Members		

- Welded Riveted Bolted Bowed Twisted Out-of-Plumb Damaged
 Corroded Broken Welds No Drain Hole in Pipe

3. Column Base Type, Size and Conditions

H-Shaped T-Shaped Flat Plate

Dimensions (in)	Center Base	Outer Bases
Size of Members		
Bearing Plate		

- Welded Riveted Bolted Damaged Welded to Bottom No Guide Clips
 Insufficient Guide Clips Corroded No Bearing Plate Not Seal Welded

4. Rafter Conditions

- Bowed Twisted Hanging Sagging Corroded Damaged Not Radial

5. Roof Conditions

- Hole Corroded Un-Capped Opening Entire Underside Coated

6. Comments

Roof Nozzles and Appurtenances (Measure one and give quantity for peripheral vents)

	Type	Size	Radius*	Comment
A	Nozzle	4.00 "	5.00'	blinded
B	Coupling	1.50 "	5.00'	plugged
C	Open Vent	6.00 "	0.00'	vented to lower part of the tank
D	Nozzle	4.00 "	4.00'	
E	Nozzle	4.00 "	3.50'	
F	Manway	20.00 "	4.50'	
G	Nozzle	4.00 "	3.50'	
H	Nozzle	4.00 "	4.00'	
I	Nozzle	4.00 "	4.50'	
J	Nozzle	4.00 "	5.00'	
K				
L				

Estimate Radius from Center

Roof plate thickness readings

Measure thickness every 10 feet.

Quadrant	Center	10'								
North		0.245								
South		0.245								
East		0.248								
West										

Quadrant										
North										
South										
East										
West										

Minimum Thickness written in **Blue Font**

1. Tank Bottom

- Annular Ring Water Washed Blasted Product Residue Dirt/Debris
 Heavy Rust Scale Standing Water Heavy Product (Not Inspected)

2. Undesirable Bottom Conditions

See Layout and X,Y Sheet for locations

- Lap Seam Corrosion Cornerweld Corrosion Weld Pinholes Weld Cracks
 Gouges Inactive Corrosion Active Corrosion Welds Not Inspected
 Isolated Pitting Areas of Pitting Hole(s)

Topside Thresholds: Inner Plates: 0.100" Sketch Plates: 0.100" Critical Zone: 0.080"

Deepest Pitting found: __ Plate Number: __ General Pitting: __

There were no pits detected below the thresholds. A 5-year inspection interval was used.

3. Coating Conditions

None Thin Thick

- Coating Thickness __ mils Peeling Cracking Holidays Blistered
__ # Areas Removed Needs Further Testing Needs Repair Needs Replacement

4. Inspection Methods

See Layout and X,Y Sheet for locations

Ultrasonic Edge Scrubs Thickness Range: 0.170-0.260" Thinnest Area Found: _____

MFL __% of Bottom Isolated Corrosion Areas of Corrosion

Soilside Thresholds: Inner Plates: 0.150" Sketch Plates: 0.150" Critical Zone: 0.170"

Thinnest Area Found: 0.130 Plate Number: 1 General Loss: __

- Vacuum Box Lap Seams Pad Plates Patch Plates Leaks Found
 MT/PT Cornerweld Lap Seams Pad Plates Patch Plates Cracks Found

There were two soilside indications and one area of soilside corrosion below the thresholds. One soilside indication was located in the critical zone. These areas were marked for repair. A 5-year inspection interval was used.

5. Sump

(thicknesses on UES Sump form)

Quantity: 1

- Hole Corrosion Coated Water/Product Patched Not Inspected

6. Settlement

Measure on Survey Page

- Humps Sags Edge Settlement >3/8" Per Foot Needs Evaluation

A settlement survey was not performed.

MinThickness 0.250

Max Thickness 0.252

AVG Thickness 0.251

Enter plate thicknesses

Plate	t	Plate	t	Plate	t	Plate	t	Plate	t
1	0.250	41		81		121		161	
2	0.252	42		82		122		162	
3		43		83		123		163	
4		44		84		124		164	
5		45		85		125		165	
6		46		86		126		166	
7		47		87		127		167	
8		48		88		128		168	
9		49		89		129		169	
10		50		90		130		170	
11		51		91		131		171	
12		52		92		132		172	
13		53		93		133		173	
14		54		94		134		174	
15		55		95		135		175	
16		56		96		136		176	
17		57		97		137		177	
18		58		98		138		178	
19		59		99		139		179	
20		60		100		140		180	
21		61		101		141		181	
22		62		102		142		182	
23		63		103		143		183	
24		64		104		144		184	
25		65		105		145		185	
26		66		106		146		186	
27		67		107		147		187	
28		68		108		148		188	
29		69		109		149		189	
30		70		110		150		190	
31		71		111		151		191	
32		72		112		152		192	
33		73		113		153		193	
34		74		114		154		194	
35		75		115		155		195	
36		76		116		156		196	
37		77		117		157		197	
38		78		118		158		198	
39		79		119		159		199	
40		80		120		160		200	

STI - INTERNAL



Company: AGP

Location: Hastings, NE

Job ID: 652149

Date: 8/4/2021

Tank: DVOP 10

UES Thickness Scrubs

MinThickness 0.170

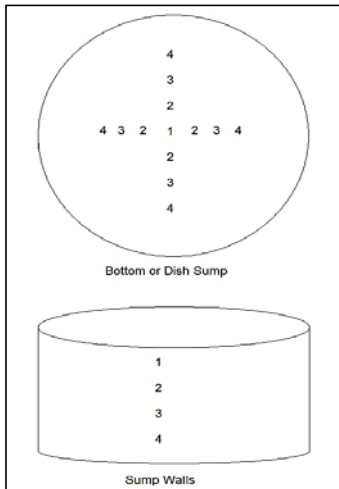
Max Thickness 0.260

Enter Ultrasonic Edge Scrub thicknesses (UES) 12"x12" at each station

Station	Min	Max	Station	Min	Max	Station	Min	Max
1	0.170	0.260	11			21		
2	0.200	0.260	12			22		
3	0.240	0.260	13			23		
4	0.250	0.260	14			24		
5	0.250	0.260	15			25		
6	0.240	0.260	16			26		
7	0.210	0.260	17			27		
8	0.250	0.260	18			28		
9			19			29		
10			20			30		

Sump Inspection

Size: 12"x36"



	Center	North	South	East	West
1					
2		There was	product	in the	sump
3					
4					

Bottom or Dish Sump

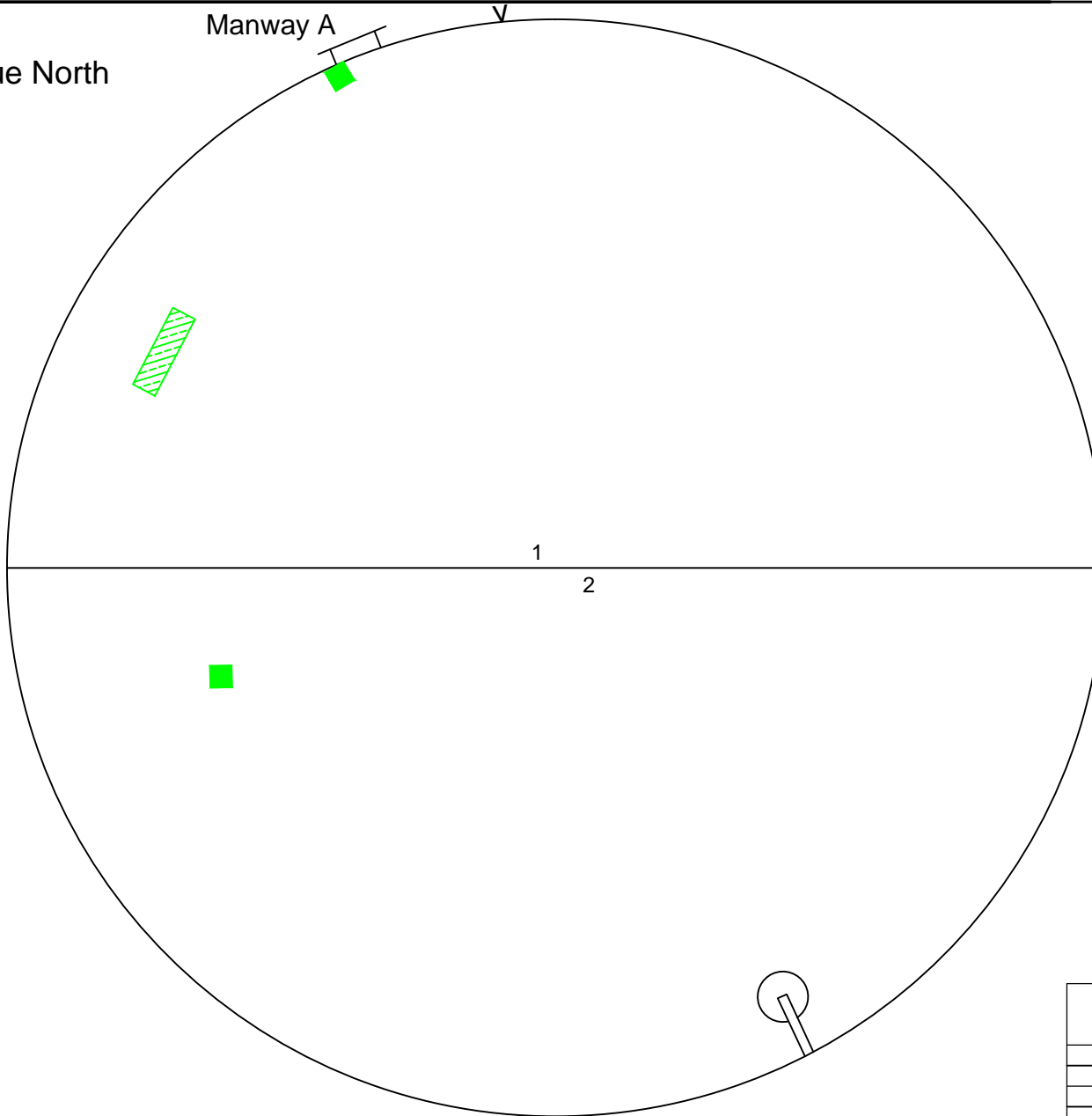
	North	South	East	West
1	0.450	0.452	0.457	0.450
2	0.460	0.465	0.455	0.450
3	0.453	0.451	0.455	0.460
4	0.450	0.462	0.450	0.450





Sump side walls




True North

Manway A



-  - Sump
-  - Vertical Weld
-  - Soilside Indication
-  - Soilside Area

INSERV TANK SERVICES 		Job No:	652149
		Date:	08-03-2021
		Tank Num:	DVOP 10
Customer:	Hastings, NE AGP		
Location:	Hastings, NE		
	Diameter:	12.00	Height: 42.00
	Drawn by:	J. Bachman	Rev:

Summary

The coating on the external shell and appurtenances was in good condition. **This should be monitored at future inspections.**

Shell Nozzles A, H, I, J, and K were over 2 inches in diameter and did not have repads. **Since the shell is over the required thickness, no additional reinforcement is required.**

The repads of Shell Items C, L, and M did not have telltale holes. **No action is required.**

There was product buildup and residue on the internal shell.

Access to the roof was limited. The coating on the external roof and appurtenances was in like new condition. **This should be monitored at future inspections.**

A visual inspection was performed on the tank bottom to locate topside pits 0.100 inches deep and deeper in the bottom plates and 0.080 inches deep and deeper in the critical zone (within three inches of the shell) for a 5-year inspection interval. There were no pits detected below the thresholds.

A Magnetic Flux Leakage (MFL) scan was performed on the tank bottom at a remaining wall threshold of 0.150 inches thick in the bottom plates and 0.170 inches thick in the critical zone (within three inches of the shell) for a 5-year inspection interval. There were two soilside indications and one area of soilside corrosion below the thresholds. One soilside indication was located in the critical zone. These areas were marked for repair. The lowest readings were 0.130 inches and located on Bottom Plate 1. **The corroded areas should be patched per API 653 standards.**

Ultrasonic Edge Scrubs (UES) were performed around the entire circumference of the tank. The thicknesses ranged from 0.170 to 0.260 inches. No corrosion below the thresholds was found.

The dish-shaped sump was 12 inches in diameter and 36 inches deep. The wall thicknesses ranged from 0.450 to 0.465 inches. No corrosion was detected. There was product in the bottom of the sump at the time of inspection.

An ultrasonic thickness reading was taken at random on each bottom plate. The thickness readings were 0.250 and 0.252 inches.

A settlement survey was not performed.

STI-INTERNAL

INSERV

INTEGRATED SERVICE COMPANY LLC

Company: AGP

Location: Hastings, NE

Job ID: 652149

Date: 08-04-2021

Tank: DVOP 10

Inserv utilizes certified inspectors (STI and API-653) to perform small tank inspections in compliance with industry standards such as SP001 and API-653. The tank was categorized and inspection intervals determined per STI's SP001, 5th Edition, Table 5.5.

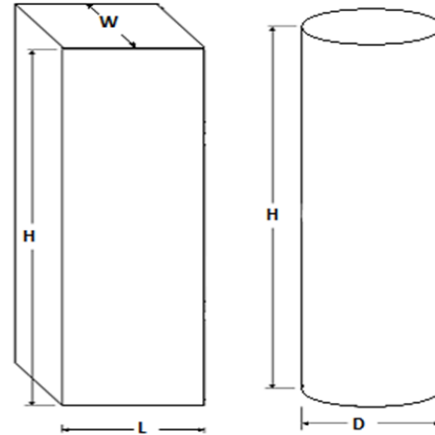
Tank DVOP 10 had a capacity of 35,286 gallons, a containment area and a CRDM (RPB, concrete pad), making it a Category 1 tank. The tank still requires periodic inspections by the owner's inspector per SP001. The next inspection required is an external inspection due in 2041.

Vertical Tank Thickness and Venting

(Not under pressure, Hydraulic head pressure only)

Inputs:

No	Rectangular Tank?	
No	Elevated Tank	
No	Stainless Steel Tank	
42.00	(ft) H	Tank Height
12.00	(ft) D	Tank Diameter 5.98 (ft) Ri Inside radius
0.70	E	Joint efficiency (use 1 for butt weld, 0.70 for lap welds)
23600	S	Allowable stress (Use 23600 if unknown steel)
62.4	lb/cf	Density of product (use 62.4 for water if unknown)
42	(ft) Hp	Height of product when full (inside tank shell)
0.250	(in) Tsm	Measured minimum thickness on shell
0.245	(in) Trm	Measured minimum thickness on roof
0.155		



Tank Properties

35286.79	Gal	Tank Capacity
1130.97	sq ft	Wetted area per UL-142
18.20	P	Internal Hydraulic Pressure (P= H(lbs/cf)/144)

Shell Circumferential Stress (longitudinal Joint) Note:1

0.167	(in) Tsl	Required thickness = $12 \cdot P \cdot Ri / (S \cdot E - 0.6 \cdot P)$ or 0.167 inches min per UL-142
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Shell Longitudinal Stress (Circumferential Joint) Note: 1

0.167	(in) Tsc	Required thickness = $12 \cdot P \cdot Ri / (S \cdot E - 0.4 \cdot P)$ or 0.167 inches min per UL-142
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Required Venting

4.00	(in)	Minimum Normal Vent per UL142 Table 8.2 Note:3
10.00	(in)	Minimum Emergency Vent per UL142 Table 8.1 Note:4

Shell Thickness evaluation per STI-SP001 4th Ed. Section10

0.167	(in) Tsr	Required shell thickness Maximum of Tsl and Tsc
0.250	(in) Tsm	Measured thickness

Shell Thickness is Okay all Categories

Shell Thickness is Okay Category 1

Shell Thickness is Okay Category 1

0.1253	75% of required thickness
0.0835	50% of required thickness
0.0418	25% of required thickness

Roof Thickness evaluation per STI-SP001 4th Ed. Section10

0.123	(in) Trr	Required roof thickness
0.245	(in) Trm	Measured roof thickness

Roof Thickness is Okay all Categories

Roof Thickness is Okay Category 1

Roof Thickness is Okay Category 1

0.0923	75% of required thickness
0.0615	50% of required thickness
0.0308	25% of required thickness

Note: 1 ASME Boiler and Pressure Vessel Code Division I, Section 8 (1986)

Note: 2 STI SP001 4th edition

Note: 3 UL-142 8th edition July 11, 2002 Tables 15.1, 8.1, 8.2



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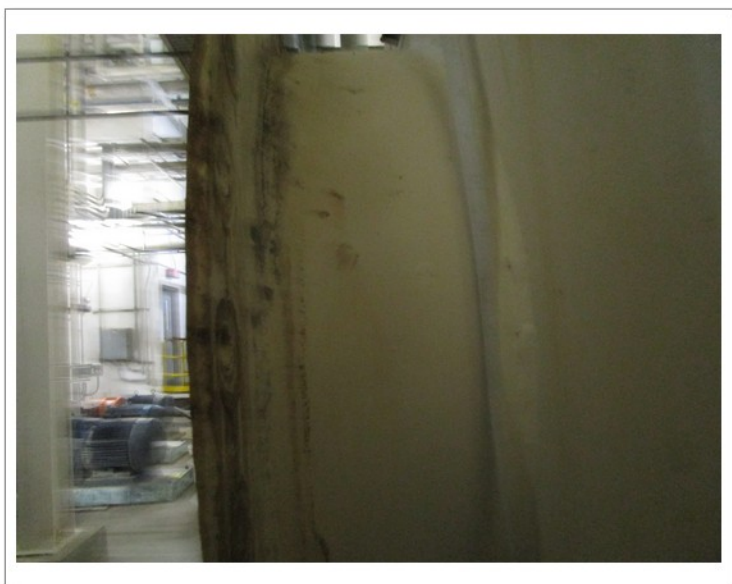
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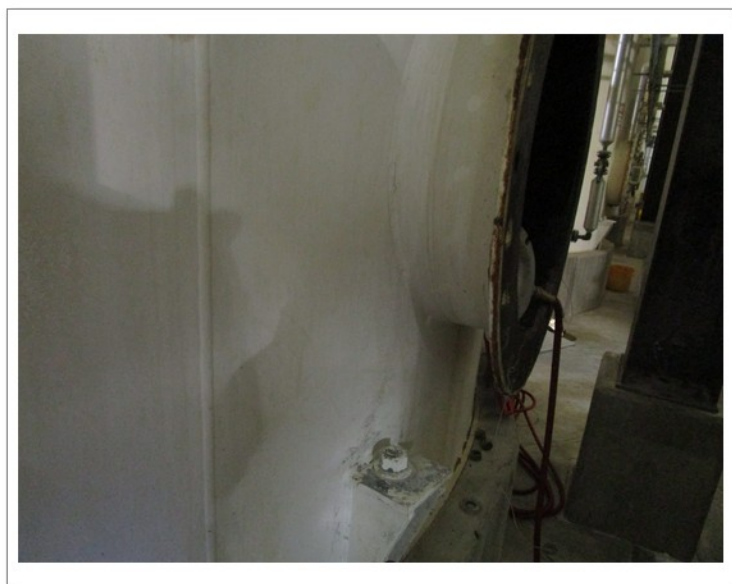
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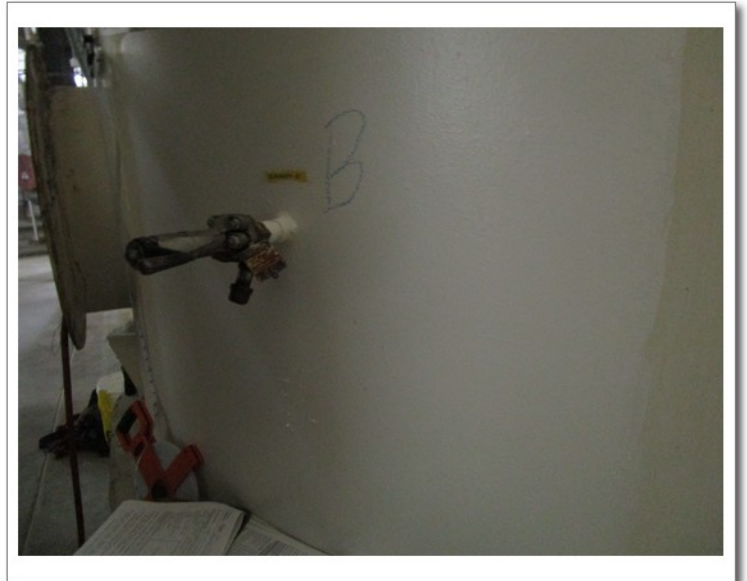
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IMG_0111



IMG_0112



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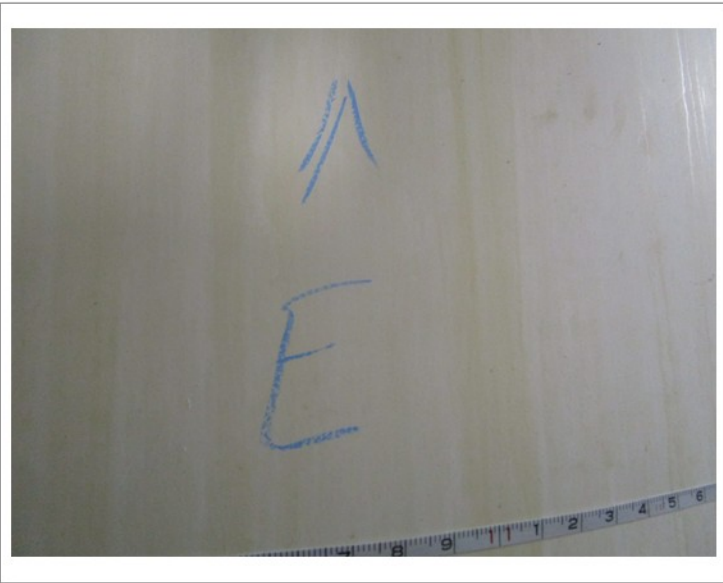
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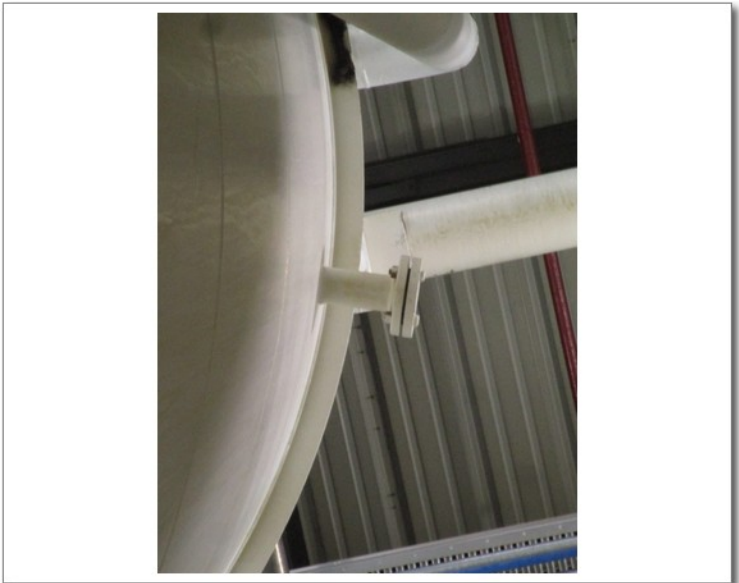
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IMG_0120



IMG_0121



IMG_0122



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IMG_0124



IMG_0125



IMG_0126



IMG_0127



IMG_0128



IMG_0129



IMG_0130



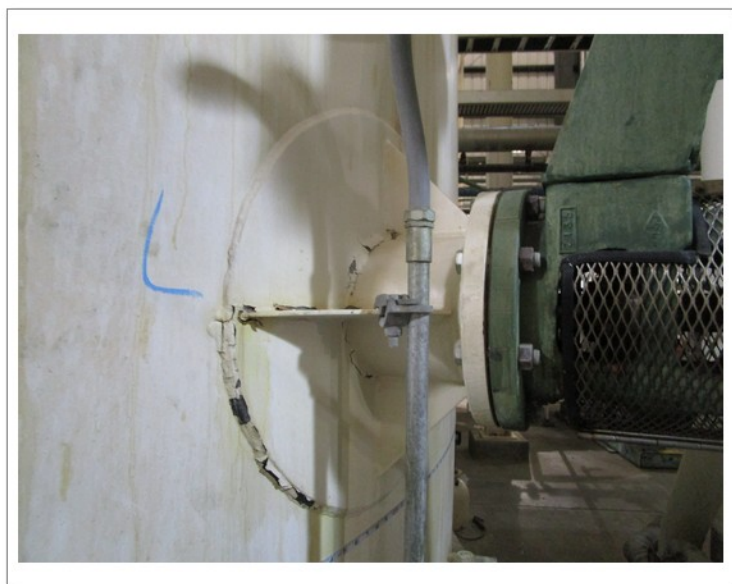
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IMG_0139



IMG_0140



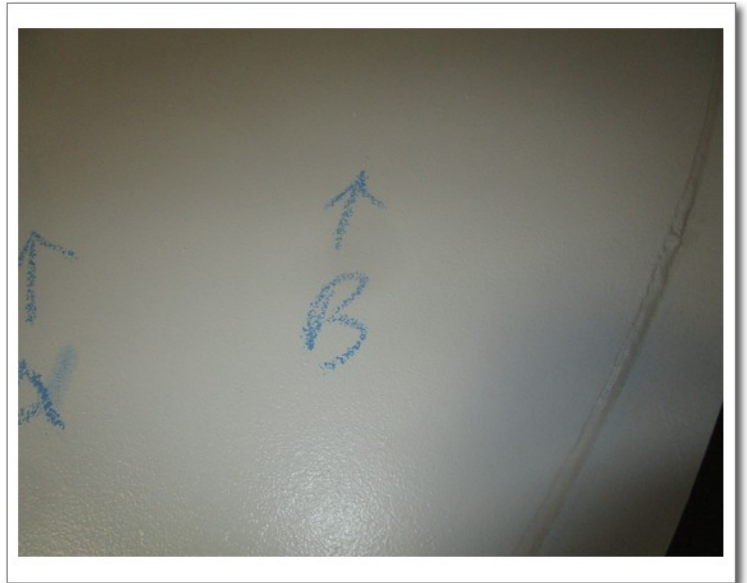
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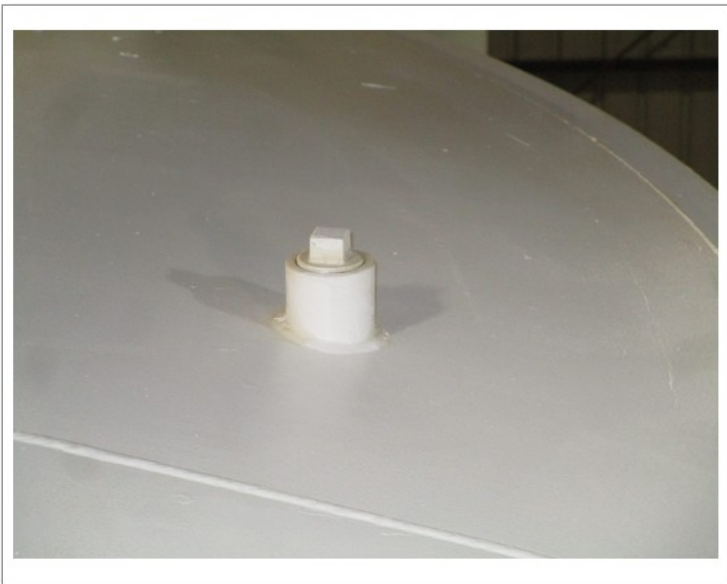
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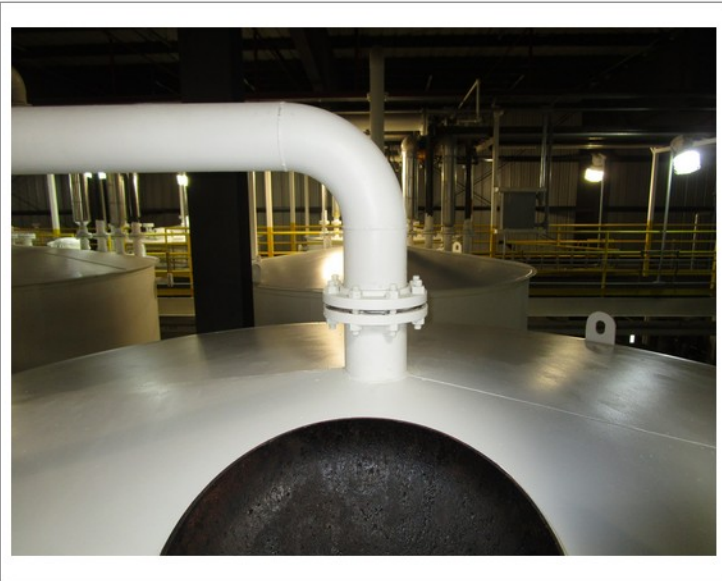
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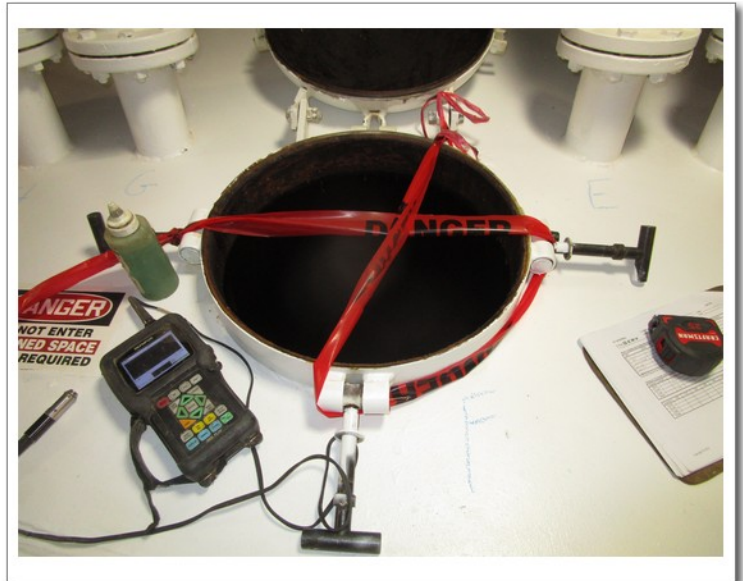
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IMG_0142



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IMG_0154



IMG_0155



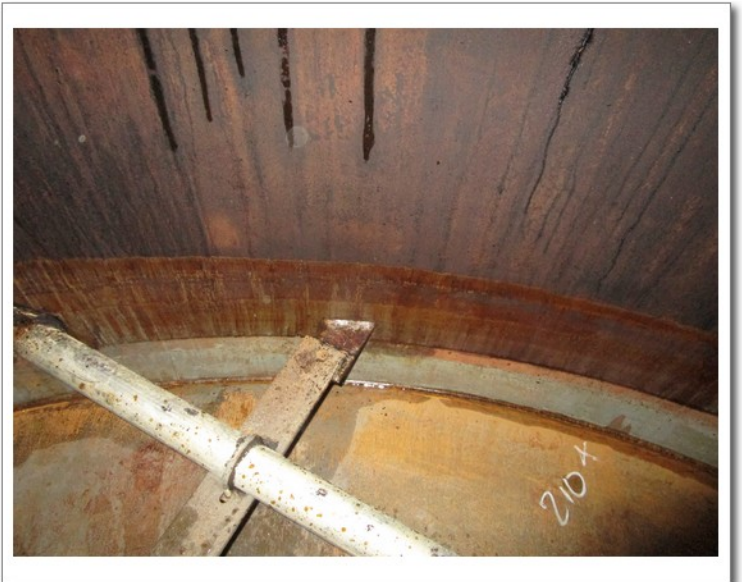
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IMG_0164



IMG_0165



IMG_0166



IMG_0167



IMG_0168




IMG_0169

Dear Mr. Martin:

Congratulations on passing STI SP001 Adjunct online certification course. Below is your STI Inspector identification card and certificate. We suggest that you print this page and:

- Cut out and laminate the ID card
- Frame the certificate

If you have any questions about this or any field related inspection, please feel free to call Joseph Mentzer, STI Project Engineer, at (224) 286-6469.

 **STI/SPFA**
Aboveground Tank Inspector
Certification Program
847/438-8265

Issue Date:
08/23/2019

Name: **James Martin**
STI Inspector No: **AC 44355**
Expires: **August 23, 2024**

The person to whom this card has been issued has met the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors. This certificate is dependent on an active API 653 certification.

CERTIFICATION

Steel Tank Institute

James Martin

STI Inspector No: **AC 44355**
Expires: **August 23, 2024**

The person whose name appears on this certificate has met all of the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors. This certification is dependent on an active API 653 certification.



Joseph Mentzer, P.E.
Steel Tank Institute



Issue Date:
08/23/2019

The official status of this certificate can be verified at www.steeltank.com.

API Individual Certification Programs

verifies that

James William Martin

has met the requirements for API certification

*API-653 Aboveground Storage Tank
Inspector*

Certification Number *32455*

Original Certification Date *April 30, 2008*

Current Certification Date *April 30, 2020*

Expiration Date *April 30, 2023*



Manager, Individual Certification Programs

MAGNETIC FLUX LEAKAGE TESTING

THIS ACKNOWLEDGES THAT

Mikell Emert

HAS SUCCESSFULLY COMPLETED THE REQUIREMENTS OF INSERV INSPECTION AND CONSULTING SERVICES LLC
QUALIFICATION AND CERTIFICATION OF NDE PERSONNEL WRITTEN PRACTICE REFERENCING ASNT-TC-1A

LEVEL II

**AUGUST
22ND
2018**

x *Buddy F. Allen*

SIGNED, Authorized NDT Level III

INSERV
INTEGRATED SERVICE COMPANY LLC

ULTRASONIC TESTING

THIS ACKNOWLEDGES THAT

Mikell Emert

HAS SUCCESSFULLY COMPLETED THE REQUIREMENTS OF INSERV INSPECTION AND CONSULTING SERVICES LLC
QUALIFICATION AND CERTIFICATION OF NDE PERSONNEL WRITTEN PRACTICE REFERENCING ASNT-TC-1A

LEVEL II

SEPTEMBER
9TH 2018

x *Bradley J. Wal*

SIGNED, Authorized NDT Level III

INSERV
INTEGRATED SERVICE COMPANY LLC