

Transmittal/Review/Approval

FILE NAME

N39430-15-D-1632 TO-0005 Sub 105.2 T17 OOS Inspection Report

DATE

26 AUG 2020

CONTRACT NO

N39430-15-D-1632 / TO #0005

TITLE Fill in Project Title/Location Here

Clean, Inspect, Repair POL Storage Tanks 14 17 & 18 Red Hill, Pearl Harbor, HI

FROM (CONTRACTOR)

CB&I Federal Services, LLC
12005 Ford Rd. Suite 600, Dallas, TX 75234

TO

NAVFAC Facilities Engineering & Acquisition Division, Pearl Harbor, HI

SUBMITTAL NO.

105.2

FOR SPEC. SECTION

01 33 10.05 20

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1	1	Tank 17 Out of Scope Pre-Repair Inspection Report	01 33 10.05 20/3.1	CI0701-075	

DATE NEEDED BY:

TRANSMITTED FOR:



APPROVAL



CLARIFICATION



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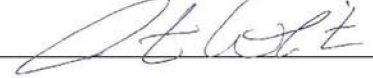
VARIANCE

"I hereby certify that the equipment, material, or article shown and marked in this submittal is that proposed to be incorporated with contract Number N39430-15-D-1632, is in compliance with the contract documents"

CONTRACTOR'S REPRESENTATIVE NAME/TITLE

Austin White, Quality Control Mgr.

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APTIM

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Attachment 1

Transmittal/Review/Approval

FILE NAME

N39430-15-D-1632 TO-0005 Sub 105.1 T17 OOS Inspection Report

DATE

28 MAY 2020

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N39430-15-D-1632 / TO #0005

TITLE Fill in Project Title/Location Here

Clean, Inspect, Repair POL Storage Tanks 14 17 & 18 Red Hill, Pearl Harbor, HI

FROM (CONTRACTOR)

CB&I Federal Services, LLC
12005 Ford Rd. Suite 600, Dallas, TX 75234

TO

NAVFAC Facilities Engineering & Acquisition Division, Pearl Harbor, HI

SUBMITTAL NO.

105.1

FOR SPEC. SECTION

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APPROVAL



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RECORD



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Attachment 1



The attached submittal has been reviewed for compliance with approved project specifications and associated documents.

I hereby certify that the (equipment) (material) (article) shown and marked in this submittal is that proposed to be incorporated with contract Number N39430-15-D-1632, is in compliance with the contract drawings and specifications, can be installed in the allocated spaces, and is submitted for Government approval.

A handwritten signature in blue ink, appearing to read "Austin White", is written over a horizontal line.

Certified by QC Manager, Austin White

26 AUG 2020

Date

N139430-15-D-1632-0005 Red Hill CIR Tanks

COMMAND NAVFAC EXWC		CODE CH112	TELEPHONE NUMBER 805-982-2149	CONSTRUCTION CONTRACT NO. N39430-15-D-1632/0005
REVIEWER NAME Frank Kern		REVIEWER E-MAIL ADDRESS frank.kern@navy.mil		DATE 24 June 2020
PROJECT TITLE AND LOCATION				
Red Hill Tank 17 JBPHH, Hawaii Review Comments				
Submittal 105.1 Tank 17 Inspection Report Rev 02				
Contractor: APTIM				
NO.	SHEET/SPEC. REFERENCE.	COMMENTS (Make general comments after specific comments)		RESPONSE / ACTION (Include Rationale if Significant)

1.	Master Features Spreadsheet	Provide spreadsheet in Excel format, with the data rev date identified in cell A1 (Placeholder comment).	
2.	1.0 Summary Page 2 1 st Paragraph	Add a missing period for the sentence, "In addition to the predictive repairs, tank inspection identified areas requiring patch plate repair that varied in size depending on the repair."	Added period
3.	3.0 Inspection Methodology Page 4 Test Personnel Qualifications Paragraph	Delete duplicate statement, "All technicians passed the tests given to them."	Deleted duplicate statement
4.	4.0 Inspection Findings Page 7 16-inch Line	"EEI recommends using this line as containment for drain and sloop lines" Edit to be containment will be for the new sample and drain lines.	Changed sloop to sample
5.	4.0 Inspection Findings Page 7 16-inch Line	Delete repetitive period at the end of paragraph.	Deleted period
6.	Table 5-1 Required Repairs (Mandatory) 1.	Add bullet to identify patch plates required due to telltale penetrations.	Added bullet with •Locations where tell-tale piping was removed.

COMMAND NAVFAC EXWC		CODE CH112	TELEPHONE NUMBER 805-982-2149	CONSTRUCTION CONTRACT NO. N39430-15-D-1632/0005
REVIEWER NAME Frank Kern		REVIEWER E-MAIL ADDRESS frank.kern@navy.mil		DATE 24 June 2020
SUBMITTAL				
PROJECT TITLE AND LOCATION Red Hill Tank 17 JBPHH, Hawaii Review Comments				
Submittal 105.1 Tank 17 Inspection Report Rev 02				
Contractor: APTIM				
NO.	SHEET/SPEC. REFERENCE.	COMMENTS (Make general comments after specific comments.)		RESPONSE / ACTION (Include Rationale if Significant)

7.	Table 5-2 Non-Mandatory Repairs	Add information that the 16-inch tank product line passed strength and leak tightness tests. This will emphasize the standard of care for the 16-inch product line being repurposed into a dry carrier pipe for the drain and sample lines.	Added strength and leak testing verbage similar to tank 13
8.	Attachment A	Edit contract number. It is N39430-15-D-1632/0005	Revised contract number
9.			

TANK 17 API 653 OUT-OF-SERVICE INSPECTION AND SUITABILITY FOR SERVICE EVALUATION FINAL REPORT (FOUO)

Joint Base Pearl Harbor-Hickam, HI (JBPHH)

August 19, 2020

Date of Inspection: August 2017 - January 2018

Prepared For:



Naval Facilities Engineering and Expeditionary
Warfare Center (NAVFAC EXWC)
1100 23rd Avenue, Code 232
Port Hueneme, California 93043-4370

Prime Contractor:



12005 Ford Road, Suite 600
Dallas, TX 75234

Prepared By:



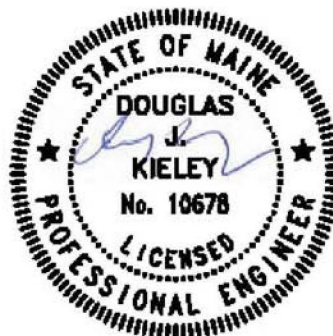
400 US Route 1, North Suite B
Falmouth, ME 04105

Douglas J. Kieley, P.E.
Manager, Mechanical Integrity Group
API 653 Certificate No. 40281

Submitted By:

Stephen S. Brooks, P.E.
Principal

EEL Project No. 8854



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**SUITABILITY FOR SERVICE TESTAMENT
TANK 17**

Enterprise Engineering, Inc. (EEI) completed a comprehensive, out-of-service internal integrity inspection and suitability for service evaluation of Tank 17 at the Red Hill Fuel Storage Facility, NAVSUP FLC, Pearl Harbor, HI. The inspection was performed August 2017 – January 2018. The inspection was performed in accordance with the applicable criteria of API Standard 653, UFC 3-460-01, UFC 3-460-03, and the Statement of Work following the project's approved Inspection and Testing Plan.

The EEI inspection and evaluation found conditions that affect the hydraulic integrity of the tank. These conditions must be addressed prior to returning the tank to service.

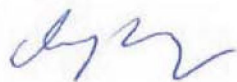
This report provides inspection findings, tank suitability for service evaluation, conclusions, and recommendations for repair. Recommendations for continued long-term service are also provided.

EEI recommends the next internal out-of-service inspection be scheduled no later than January 2038 (20 years from 2018 inspection), or sooner if a change in condition has occurred.

In accordance with API Standard 653, this report satisfies the requirement for an out-of-service, integrity inspection and as such, should remain available as a historical record for future reference.

I hereby acknowledge that being familiar with the provisions of API Standard 653, the inspection and evaluation was performed in accordance with the provisions of API Standard 653 and good engineering practices, and with the exercise of usual and customary care.

This tank inspection has determined that mandatory repairs are required prior to return to service. Tank 17 may not be returned to service at this time. Recommended repairs have been identified, and if possible, should also be completed before returning the tank to service.



Douglas J. Kieley, P.E.
API 653 AST Inspector Certificate No. 40281

6/26/2020

Date

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Non-Destructive Examination (NDE) and Evaluation Criteria	Attachment C
Tank Drawings.....	Attachment D
Tank Photographs	Attachment E
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Calculations.....	Attachment G
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Vent Inspection Report	Attachment I
Tower Structure Inspection Report	Attachment J
Pressure Test Report	Attachment K

TANK 17
API 653 TANK INSPECTION
SUITABILITY FOR SERVICE EVALUATION
RED HILL FUEL STORAGE FACILITY, NAVSUP FLC, JOINT BASE
PEARL HARBOR-HICKAM, HI (JBPHH)

1.0 SUMMARY

Enterprise Engineering, Inc. (EEI) has completed a comprehensive, out-of-service internal integrity inspection and suitability for service evaluation of Tank 17 at the Red Hill Fuel Storage Facility, Naval Supply (NAVSUP) Fleet Logistics Center (FLC) Pearl Harbor, Hawaii under contract to APTIM. The inspection was performed between August 2017 and January 2018. The inspection was performed in accordance with the applicable criteria of API Standard 653, UFC 3-460-01, UFC 3-460-03, and the Statement of Work following the project approved Inspection and Testing Plan.

Tank 17 is a mined underground storage tank consisting of an upper dome, expansion joint, barrel, and lower dome. The tank was constructed between 1940 to 1943. The tank is built with reinforced concrete and has a welded steel liner. As the reinforced concrete shell provides tank structural integrity and the steel plates serve as a shell liner, the entire tank (upper dome, barrel, lower dome) follows the requirements of API 653 for tank floors. Tank 17 is 100 feet in diameter, has an overall height of 250 feet and has a nominal capacity of 300,000 bbl.

All accessible surfaces of the tank steel liner and plate butt welds were inspected by TesTex, Inc. (TesTex) using Low-Frequency Electromagnetic (LFET) (liner plates), ultrasonic testing (UT) and Balanced Field Electromagnetic (BFET) (welds) testing methods. The findings from the initial TesTex scanning were further evaluated (flaw characterization) by EEI through visual (VT), magnetic particle (MT), and phased array ultrasonic (PAUT) inspection techniques. In addition, EEI performed 100% visual inspection on all accessible tank shell liner plates and welds to confirm findings and identify additional discontinuities.

Common weld discontinuities that were identified included: porosity, undercut, lack of fusion, and incomplete fill. The majority of weld defects are located in the upper dome and extension ring plates and are components of the original construction. The upper dome inspection also identified several dent and gouge defects that require repair. These dent/gouge types of defects are presumed to be from contacts of the boom end or other machinery within the tank shell.

Backside corrosion appears to be present within Tank 17. Defects were found in the upper dome, the extension ring, and barrel courses. Several large repair patch plates will be required to remediate the affected areas in the upper dome course A, extension ring and barrel of the tank. However, it should be noted that some of the lower thicknesses in these areas were a result of grinding performed under a previous contract, and not directly related to backside corrosion. Repairs for each defect meeting or exceeding the threshold for repair were determined during inspection of the tank. The repairs fall under two categories: Weld Repair or Patch Plate. Weld repairs will include grinding of the existing weld until the defect is no longer present and then rewelding of the area to meet weld profile and penetration criteria. Patch plates are generally designed per API 653 requirements (with some clearance exceptions) and will be fillet welded to the existing tank liner.

Predicted repairs were construction estimates that were established before inspection so some repair scope could be quantified in the contract. Patch plates (8-inch and 6-inch), weld repair by linear feet and tell-tale system repairs were estimated and budgeted. Predictive repair quantity was originally two hundred (200) 6-inch patch plates for general repair (backside corrosion, dent, gouges) and five hundred seventy-seven (577) 8-inch patch plates to repair the tell-tale hole monitoring system points. After inspection, the 200 general repair 6-inch patch plate locations were reduced to 174. Of the 577 8-inch patch plates for tell-tale repair, only two hundred and fourteen (214) locations can utilize 8-inch plates. Eight-inch plates will not satisfy API 653 rules for plate spacing in relation to other existing welds at the other locations. All other tell-tale locations were changed to plates of various sizes to meet API 653 criteria. In addition to the predictive repairs, tank inspection identified areas requiring patch plate repair that varied in size depending on the repair. Patch plates are categorized by size; 6-inch diameter, 8-inch diameter, less than 2 square feet and greater than 2 square feet. Welded pipe caps are utilized when protruding features attached to the tank make it impossible to install a patch plate. Repairs to existing welds were also identified. Weld repairs are quantified by location and linear feet of required repair.

The following table provides an overall repair summary. See Attachment F for full breakdown of repair quantities and locations

Table 1-1 Shell Repair Requirements Summary							
Repair Type	Number of 6" Diameter Plate	Number of 8" Diameter Plates	Number of Patch Plates <= 2 sq. ft.	Number of Patch Plates > 2 sq. ft.	Weld Repair Linear Feet	Weld Repair Quantity	Pipe Cap
Weld Repair					3573	3587	0
Patch Plate Repairs	174	214	589*	38	0	0	0
Pipe Cap Repairs							31

* Number of patch plates <= 2 square feet reduced to 507 in July 2019 by descoping of repairs in the Upper Dome above course A

Two nozzles (32-inch and 16-inch product lines) on Tank 17 were strength and leak tested to 160-170 psig with water. All lines passed the strength and leak testing. A full visual inspection was performed on the 32-inch nozzle (man entry). The visual and PAUT examinations performed on the 32-inch issue/receipt line revealed that the line will require some weld repairs to the internal welds. Pipe wall thickness was measured and found acceptable for the entire length of the pipe (indicates no backside corrosion). A pipe visual inspection camera was used to examine of the 16-inch issue/receipt line. The camera examination of the 16-inch piping found lack of penetration on circumferential welds. Camera evaluation does not provide the same visual inspection capability that man entry into a pipe provides. The pipe wall thickness could only be verified at the accessible ends of the 16-inch pipe which limits the information on possible backside corrosion. Based on limited camera examination capabilities and the inability to obtain pipe wall thickness reading for the entire lengths of the 16-inch line, EEI recommends utilizing the 16-inch pipe as a carrier for new sample and drain lines. This recommendation will add secondary containment capability for the sample and drain lines which will improve overall tank integrity

Additional mandatory repairs are described later in this report. Based on the findings during the inspection, repairs are required before returning Tank 17 back to service.

2.0 INSPECTION ASSESSMENT

A comprehensive table identifying tank features with findings and conclusions as appropriate is included as Attachment F. This Attachment also contains several tables with full reporting of data obtained. The following discussion only addresses key integrity issues.

The tank inspection revealed that mandatory repairs are required to return the tank to service. Mandatory Repairs are considered actions necessary to preserve or restore the structural and hydraulic integrity of the tank. This includes any condition which has or may breach the hydraulic or structural integrity of the tank prior to the next integrity inspection.

Hydraulic Integrity

Hydraulic integrity is the ability of the tank to hold product (until the next inspection) without compromise to the boundaries of the floor, shell, dome, and piping to the first valve outside of the tank. Primarily, the identified areas within the tank that affect the hydraulic integrity of the tank include the following:

- Backside corrosion over localized areas of the tank shell and upper dome
- Multiple rounded or linear weld defects which could be less than recommended repair thickness
- The condition of the circumferential welds on the 32-inch product line
- Locations where exposed tell-tale system piping was removed by others and not replaced

Structural Integrity

Structural integrity is the capability of the tank to remain freestanding, with or without product, under the conditions of its design basis. Structural attributes include the floor, shell, upper dome, and their attachments.

Inspection of the tank shell, bottom dome and floor, and the upper dome found no indications of damaged or deteriorated base structure of the tank. There were no other relevant indications in the shell areas which may have indicated that there was an underlying structural issue with the tank.

A full tower inspection was performed by APTIM and APTIM subconsultant, Hawaii Engineering Group (HEG). The inspection determined that the tower structure was suitable for continued service under the intended operating conditions once minor repairs were completed. Minor repairs included replacing missing bolts and tightening bolts and repairing one horizontal angle. See Tower Structural Report Attachment J.

Next Inspection

Based upon API-653 criteria, upon successful completion of mandatory repairs, Tank 17 must receive its next internal out of service inspection in 2038. The current tank liner corrosion assessment identified repairs that will result in a remaining metal thickness equal or greater than 100 mil (one mil is one thousandth of an inch) at the next inspection. The 20-year interval is based on the date of the most recent corrosion scan, and not return to service date.

3.0 INSPECTION METHODOLOGY

API 653 inspection criteria was followed in terms of procedure and evaluation to the greatest extent possible. Tank inspection included assessment of the upper dome, extension ring, under catwalk, entire course shells (barrel section), lower dome, floor appurtenances, access ways, and vents. All accessible interior surfaces of the upper and lower domes, floor, shell, and all welds were examined by one or more nondestructive testing (NDT) methods. NDT methods included:

- Electromagnetic Testing methods:
 - Low Frequency Electromagnetic Testing (LFET) (utilized on liner plate surfaces)
 - Balanced Field Electromagnetic Testing (BFET) (utilized on liner plate welds)
- Ultrasonic Testing methods:
 - Straight-beam, Longitudinal Wave, Pulse Echo Method (UT)
 - Phased Array Ultrasonic Testing (PAUT)
- Visual Testing (VT)
- Magnetic Particle Testing (MT)

TesTex Scanning

Initial inspection of Tank 17 was performed by TesTex as a subcontractor to APTIM. The inspection can be broken down into three parts:

- Scanning 100% of accessible shell plates utilizing LFET technology
- Scanning 100% of accessible welds using BFET technology
- Visual inspection of accessible shell plates and welds

LFET was used to detect discontinuities caused by backside corrosion. While scanning the shell plates, technicians marked locations of discontinuities found using LFET. They then used UT to determine remaining wall thickness in the area. The threshold for remaining wall thickness was set at 200 mil and less.

BFET was used to detect surface and near surface discontinuities in the liner plate welds.

VT was performed to detect discontinuities in liner plate surfaces and welds. Discontinuities detected by VT were evaluated as: porosity, undercut, lack-of-fusion, incomplete fill, dents, gouges, and bulges.

All relevant indications observed by TesTex were documented and provided to EEI for further investigation. Relevant indications were assigned unique identifiers for tracking purposes.

TesTex Personnel Qualifications

TesTex technicians performed a “blind” test consistent with API 653 Annex G requirements using the LFET equipment. Each technician scanned coated and uncoated test plates containing known defects. Discontinuity location was recorded and flaw characterization using UT was performed. All technicians passed the tests given to them. Test results are provided in Attachment H of this report.

EEI Prove-up (Flaw Characterization)

EEI provided an API inspector during the Tank 17 inspection phase. During this time, the inspector reviewed all data provided by TesTex and performed a full visual inspection of 100% of the accessible tank shell plates and welds. Flaw characterization was performed to verify size, shape, location and to verify interpretation (relevant, nonrelevant or false) of each reported relevant indication. Repair recommendations were made when discontinuities were evaluated as defects.

For relevant indications associated with backside corrosion, flaw characterization was performed with PAUT. The PAUT transducers utilized were specifically designed to examine backside surfaces for corrosion damage. The areas of concern were scanned to determine the remaining wall thickness. Repairs were recommended for any area thinner than the repair threshold of 160 mil.

In areas where repairs were recommended due to backside corrosion, the surrounding areas of liner plate were also scanned to verify the area identified was correct and to determine the size of patch plate. Patch plates were designed to cover the entire defect as well as meet API 653 criteria for weld clearances and intersection requirements.

Discontinuities in welds identified by BFET were reported by TesTex and were inspected by EEI with MT to verify the extent of the discontinuity. During follow up investigations, it was found that many of the discontinuities reported could be detected using VT. If the discontinuity was found visually and could be evaluated, no further inspection was performed. Weld repairs were designed and recorded for discontinuities evaluated as defects.

For all instances of backside corrosion, repairs were determined based on the repair threshold for remaining wall thickness. Many other repair recommendations were based on this same criterion, however in some cases exceptions occurred as described below.

Porosity and Undercut: Repairs were recommended for discontinuities where the bottom of the discontinuity was visually obscured or otherwise unable to be characterized. Areas lacking coating or where coating was present but damaged (peeling, blistering or not tightly adhered) were also recommended for repair. Further discussion of discontinuities caused by rounded indications and acceptance criteria are provided in Attachment C.

Dents and Bulges: Repairs were recommended for discontinuities caused by sharp profile changes or creases that create a point of stress concentration. Repairs were not recommended for shallow, smooth profile discontinuities. The bulges reported by TesTex were found to have smooth transitions across the shell liner plate welds, were distributed uniformly around the tank, and presented with similar appearance (size and shape) in each shell course. It is thought that these features are artifacts of the original construction process.

Weld Defects: Both full penetration butt welds and fillet welds were evaluated. Common weld discontinuities that were identified in both types of welds included: porosity, undercut, lack of fusion, and incomplete fill. Discontinuity depth was evaluated where possible, that is, where the configuration of the defect or presence of coating did not significantly obscure the measurement. The criteria used to evaluate liner thickness was based on remaining thickness of the liner plate, as outlined in Attachment C. Locations called out for repair having porosity, incomplete fill, undercut and other damage related to plate thickness did not meet the remaining thickness requirements for the required service interval.

In addition to the discontinuities reported by TesTex, EEI found defects based on the criteria and methods mentioned above. All relevant indication data (by both TesTex and EEI) were recorded for each plate and

given a unique identifier locating the area relative to the lower left corner of the plate. A table of relevant indications and resulting defects is provided in Attachment F.

API 653 Inspection

EEI performed an API 653 out-of-service inspection of Tank 17 in terms of procedure and evaluation to the greatest extent possible. The API 653 checklist was used to the extent of relevant content. The checklist is provided in Attachment A.

The nozzles at the bottom of the tank and top of the tank were visually inspected. The 24-inch vent line connects to the top of the tank to the ventilation system in the upper tunnel. An inspection of the vent line utilizing a motorized camera was performed because the majority of the line between the tank and upper tunnel is encased in concrete, which would otherwise limit visual inspection. Multiple holes and corrosion areas were identified on the vent line. Repair or replacement of the line is recommended. Vent inspection report is provided in Attachment I.

Visual inspection of the large bore 32-inch line was performed by physically crawling into the pipe to ensure all internal pitting and weld quality was inspected. The 16-inch line was remotely inspected using a visual inspection camera to determine the condition. Where possible, video and photo records of this inspection were made..

APTIM performed a hydrostatic strength test of both tank nozzles. A subcontractor, Vista, provided precision leak testing using a third-party certified procedure to test each of the lines from the tank. Test report is included as Attachment K. Both lines passed the strength and leak tests at 160-170 psig.

4.0 INSPECTION FINDINGS

All instances of discontinuities resulting in relevant indications and recommended repairs that were reported during the inspection phase are provided in Attachment F.

Tank Nozzles

EEI has adopted the following numbering scheme for the purposes of locating pipe welds: girth weld numbering referenced in the following discussion starts at first flange outside the tank and increases toward the tank. Clock positions place 12 o'clock at the top of the pipe and 3 o'clock 90 degrees to the right when facing toward the tank.

32-inch Line

The 32-inch line was inspected by accessing the pipe from the lower tunnel side and performing a full visual inspection as well as using ultrasonic thickness measurement equipment to collect data on the thickness of each section of the line. To achieve an average thickness value of the pipe, four thickness measurements were taken in each of the quadrants on either side of all nine welds throughout the entire line. The average thickness was 368 mil. Overall, the surface of the pipe was in good condition.

Welds 1, 2, and 3 and the longitudinal seam welds were in acceptable condition, whereas, welds 4, 5, and 6 require weld repairs. It is understood that these welds were originally made from the outside of the pipe during tank construction. Distances to the welds were measured from the first flange outside the tank in the lower tunnel. Findings were as follows:

- Weld 4 (34 feet from the flange) was made from the outside, and approximately 90% of the weld exhibited lack of full thickness penetration at the root weld.
- Weld 5 (42 feet from the flange) was made from the outside, and approximately 8 inches of weld contained rounded indications (porosity).
- Weld 6 (44 feet from the flange) was made from the outside, and approximately 60% of the weld exhibited lack of full thickness penetration and a rounded indication was also observed.

Lack of penetration of the weld root is problematic because the remaining thickness of the weld cannot be accurately determined. The minimum remaining thickness may exist in these locations and the condition may be undetected. In addition, the resulting gap in the weld joint is an area where debris is likely to collect and water can be trapped. This may result in accelerated product-side corrosion in the pipe. Repairs may be performed from inside the pipe.

Overall, the interior surface of the pipe was in good condition; however, coating the pipe to protect the metal from product side corrosion is recommended. The entire interior of the 32-inch line should be coated at the same time and using the same material as the lower dome.

16-inch Line

The 16-inch piping was inspected using a remote video pipe inspection camera to capture visual representations of the pipe condition. Distances to the welds were measured from the first flange outside the tank in the lower tunnel. No relevant surface indications were found inside this pipe during inspection. Minor pitting was present on the top of the pipe between welds 3 and 4. Welds 2 (38 feet from the flange), 3 (41 feet from the flange), and 4 (56 feet from the flange) all appear to be welded from the outside. Access limitations prevent thickness measurement along the entire length, and man entry for visual weld inspection is not possible. UT readings for pipe could only be taken from nozzle inside of tank and from flange from tunnel. Nominal pipe wall thickness in the areas measured was 250 mil. EEI recommends using this line as containment for drain and sample lines because there is limited pipe wall thickness data to determine the remaining life of the piping or determine if backside corrosion is present.

Tank Interior

Two types of welds were evaluated in relation to the hydraulic boundary of the tank. Full penetration butt welds connect the shell plates to each other to form the continuous steel liner. Penetrations through the liner (nozzles, for example) and insert plates are also welded to the liner with a full thickness weld. Fillet welds were utilized as the final interior seal between nozzle penetrations and patch plates to the interior liner. The original construction of the tank called for the liner plates of the upper dome to be joined by a full penetration butt weld with a backing bar (a flat steel bar installed on the tank exterior, or the back side of the weld) located on the inside of the tank. The backing bars were subsequently fillet welded to the liner plates. While the full penetration butt weld would normally represent the hydraulic boundary of the liner, the configuration of the joint with a backing bar prohibits an examination of the weld from the inside of the tank. For this reason, the fillet weld joining the backing bars to the liner plates was evaluated as if it were a hydraulic boundary. This approach is conservative in that a breach in the fillet weld does not necessarily confirm a path through the liner of the tank.

Table 4-1 Tank Repairs by Area Summary

Category	Basis for Percentage (Tank or Region)		Lower Dome	Barrel	Extension Ring	Upper Dome
	Tank	Region				
Percent of total relevant indications reported for assessment in Tank 17	X		7%	12%	13%	68%
Percent of relevant indications that required repair (defects)		X	97%	68%	85%	75%
Percent of the total repairs recommended in Tank 17	X		9%	11%	14%	66%
Percent of repairs due to back side corrosion in given area (lower dome, extension ring, upper dome or barrel)		X	0%	7%	1.3%	<0.1%

Lower Dome

Tank 17 lower dome was inspected using LFET, BFET, and visual techniques. Inspection of the lower dome identified 7% of the relevant indications in the tank. Flaw characterization resulted in 97% of the relevant indications meeting repair criteria (defects), accounting for 9% of the total repairs in the tank. No defects due to backside corrosion were found in the lower dome. See Attachment F for repair quantities in lower dome.

Barrel

Tank 17 barrel was inspected using LFET, BFET, and visual techniques. Inspection of the barrel plates identified 12% of the relevant indications in the tank. Flaw characterization resulted in 68% of the relevant indications meeting repair criteria (defects), accounting for 11% of all repairs in the tank. Approximately 7% of repairs are defects caused by backside corrosion. See Attachment F for repair quantities in barrel.

Extension Ring

Tank 17 extension ring was inspected using LFET, BFET, and visual techniques. Inspection of the extension ring identified 13% of the relevant indications in the tank. Flaw characterization resulted in 85% of the relevant indications requiring repair (defects), accounting for 14% of all repairs in the tank. Approximately 1.3% of repairs are defects caused by backside corrosion. Repairs include weld type repairs, patch plate repairs, and a pipe cap repair. See Attachment F for repair quantities in extension ring.

Upper Dome

Tank 17 upper dome was inspected using LFET, BFET, and visual techniques. Inspection of the upper dome identified 68% of the relevant indications in the tank. Flaw characterization resulted in 75% of these indications requiring repair, accounting for 66% of the repairs in the tank. Repairs include weld type repairs and patch plate repairs. Negligible (<.1%) backside corrosion was present in the Upper Dome. See Attachment F for repair quantities in upper dome.

Tell-Tale Leak Detection System

The original tell-tale system installed in 1942 was replaced with heavy wall pipe in the 1962 conversion project for Tanks 17 through 20. In the 1962 conversion, a new 4-inch doubler plate was also installed at every tank penetration. There were originally 580 tell-tale pipes installed in the tank that required repair. Repair included cutting off tell-tale piping and removing 4-inch doubler plates. EEI found 138 of the 4-inch doubler plates were previously removed. The predictive repairs included 8-inch round patch plates to repair removed tell tales. After investigation only 214 of the 580 could be repaired with 8-inch patch plates. Other repair solutions were developed for all the other locations to allow for proper weld spacing.

Vent Line

Vent line was inspected utilizing a motorized camera found the line to be in poor condition. Results from the internal inspection of Tank 17's vent line can be found in Attachment I.

5.0 REPAIR ITEMS

Based upon the API field inspection, engineering judgment and knowledge of funding practices, recommendations developed are listed below in the following tables as required (mandatory), recommended (non-mandatory), and recommended for long term serviceability. Refer to Attachment B, "Assessment of Compliance with Military Criteria" for comprehensive comments and recommendations of the tanks' compliance with military criteria.

Standard of Care

All repairs must meet the requirements of API 650 and API 653 regarding material, welding procedures and qualification of welders, non-destructive examination (NDE) of welding and testing requirements. Obtaining hot work permits and developing the appropriate hot work procedure for the tank floor is the responsibility of the repair contractor and must consider the tank has been in petroleum fuel service.

Mandatory Repair

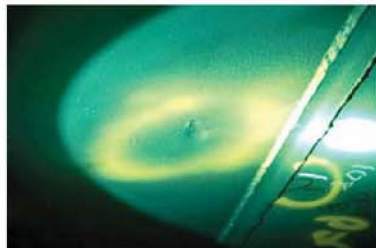
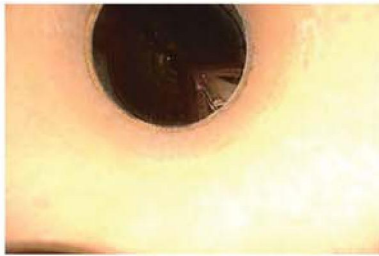
Table 5-1 Required Repairs (Mandatory)		
Findings	Repair	Photo
Mandatory repairs are repairs that are critical to the hydraulic and structural integrity of the tank and require repair prior to returning the tank to service.		
1. Defects found requiring patch plate repairs are: • Backside Corrosion • Dents • Locations where tell-tale piping was removed	1. Provide patch plate repairs. Plate size, location in tank and overall quantities can be found in Attachment F. 2. Provide pipe caps to cover protruding features that cannot be covered with a flat patch plate. Cap size, location in tank and overall quantities can be found in Attachment F.	

Table 5-1 Required Repairs (Mandatory)

Findings	Repair	Photo
2. Defects found requiring weld repairs are: • Weld Indications • Porosity/Rounded Indications • Lack of Fusion • Insufficient Fill • Gouges • Undercut • Other shell topside indications	Provide weld to repair defects. Weld length, location in tank and overall quantities can be found in Attachment F.	
3. The existing Vent line contains multiple defects such as large dents, multiple holes in gunite encased steel liner, corroded welds on the spiral welds.	The vent line should be replaced in it's entirety. See Attachment I.	

Table 5-1 Required Repairs (Mandatory)		
Findings	Repair	Photo
4. The 32-inch tank product lines (nozzle) contain weld defects.	32-inch line: Provide a minimum of 15 linear feet of circumferential weld to repair the existing weld root-side defects.	

Non-Mandatory Repairs

Table 5-2 Non-Mandatory Repairs		
Finding	Repair	Photo
The repairs listed below are not mandatory per API 653 or for structural and hydraulic integrity of the tank but should be performed if approved by the Government for the long-term preservation and integrity of the tank.		
1. The inside of the 32-inch line is not currently coated.	Once the 32-inch line is repaired, coat the inside of the line with a Polysulfide modified Epoxy Novolac coating system. By doing so the line will be subject to less corrosion potential.	
2. The 16-inch tank product line (nozzle) contains four girth welds, all of which do not contain complete penetration. The line passed strength and leak tightness tests, but the pipe wall thickness could not be evaluated for the entire pipe length. Welds were only examined using a camera.	Take 16-inch line out of service and use as carrier pipe for drain line and sample lines. Modify piping in lower tunnel to reconnect tank to tunnel 16-inch line (FLCPH discussion/direction required). Provide 0.5-inch closure plate inside tank to isolate line from tank	

Predictive Repairs

The SOW lists predictive repairs for Tank 17. The following table includes the predictive repairs listed in the government's SOW and identifies whether the repairs are valid or are not needed in our opinion. In addition to the list below, the Basis of Design will be updated during design and include notations or exceptions to the published specifications.

Table 6-1 Tank 17 SOW Repairs		
Item	SOW Description	EEL Finding/Comment
1.	Reference: Part 3 ¶B201009 Exterior Piping: Remove corrosion and coating on all exterior carbon steel issue, receipt, and drain piping within the tunnel, between the tank and skin valves, and recoat per Section 09 97 13.27. Coat isolation valves and repair coating damaged during installation per Section 09 97 13.27. Touch Up: Repair localized areas of failed and damaged coatings on the exterior of the manway in the upper tunnel. Markings: Identify all piping by marking in accordance with MIL-STD-161H (Identification of Piping Systems) per RFI-TO 004-002 and RFI TO 005-004.	EEL concurs with the repair. However, EEL recommends use of the previously approved Sherwin Williams Macropoxy 646 fast cure epoxy system, a recognized industrial coating repair product. Please see the Basis of Design.
2.	Reference: ¶C3040 Shell and Floor Coating: After completion of inspection, repairs, and re-inspection of repairs, remove the existing coating and any corrosion within the lower dome, and the barrel extending up 40 inches from the spring line, and recoat per Section 09 97 13.15. Include prep and coating of piping and structural steel within the same elevation.	EEL concurs with the repair.
3.	Reference: ¶G306001 first paragraph. Inspect all fuel piping systems between the tank and the outside face of the flange of tank skin valves. Provide inspection and pressure test design for all pipe/nozzles between the tanks' skin valves and the tank. Include a hydrostatic test in accordance with ASME B31.3 and API RP 1110.	Inspection and Pressure Testing was completed.
4.	Reference: ¶G306001 second paragraph. Clean, refurbish, and recoat (per Section 4.1 Exterior Coating) the double-block-and-bleed valves (6-inch, 12-inch, and 20-inch) and/or ball valves (12-inch) in the pipelines connecting to each tank. Clean, refurbish, and recoat drain valves (4-inch). If any valves are gate valves, replace with double-block-and-bleed valves. Commission new or rebuilt valves into service.	1. EEL concurs with the coating repair. See comments on item 1 above. 2. Valve refurbishment/repair: EEL concurs, details will be in design. 3. Valve Replacements: EEL recommends installing new ball valves closest to the tank on all sample line.

Table 6-1 Tank 17 SOW Repairs

Item	SOW Description	EEL Finding/Comment
5.	Reference: ¶ G306003 (Tank Repairs) Item b. Provide 24 each missing fastener sets on center tower.	EEL concurs with the repair. However, the HEG Inspection Report should be referenced for completeness. See Tower Structural Report Attachment J.
6.	Reference: ¶ G306003 (Tank Repairs) Item c.1. Provide 6-inch diameter patch plates (200 each).	EEL concurs with the repair. It should be noted that there are only 174 recommended 6-inch diameter patch plates in Tank 17. The remainder of the recommended patch plates are larger in size.
7.	Reference: ¶ G306003 (Tank Repairs) Item d. Provide datum plates at the bottom of each tank.	EEL recommends not providing datum plates. In similar tanks at Red Hill (Tank 5) the datum plate was removed for water detection at the tank bottom. With the tank floor being half-inch thick at this location an additional datum was not necessary. New strapping tables will so note no datum plate.
8.	Reference: ¶ G306003 (Tank Repairs) Item e. Replace all interior and exterior sample lines.	1. EEL recommends providing 100% replacement on the sample lines within the tank. These lines should be pressure tested to confirm the integrity of the fittings. 2. EEL recommends changing the current configuration of the sample line connections to the lower tunnel since the existing nozzles are not recommended for continued use. See discussion below. 3. Further discussion needed to determine amount of re-piping, if any of sample piping manifold.
10.	Reference: ¶ G306003 (Tank Repairs) Item f. Remove non-standard flange on 32-inch interior nozzle and provide raised face, weld neck flange.	EEL Concurs, repair completed to support pressure testing.
11.	Provide Calibration Tables	EEL concurs new strapping tables are required.
12.	Reference: ¶ G306003 (Tank Repairs) Item Amendment 3. Tank 17 maintenance includes estimated additional 577 8-inch x ¼-inch shell patch plate repairs over existing tell-tale penetrations.	EEL concurs with the repair. It should be noted that there are 580 existing tell-tale locations. 214 locations can be covered with 8-inch diameter patch plates. The remainder of the recommended patch plates to repair existing tell-tale locations are larger in size to maintain API 653 requirements.

Shell Repairs - General

Generally, welding repairs require surface preparation followed by welding of a tank seam or placement of a patch plate depending on the nature of the defect being repaired. Repairs by welding that involve the placement of a patch plate are further divided into two categories based on the patch size. Patches of a surface area of 2 square feet or less can be manipulated by hand utilizing the existing means of tank shell access. It is important to note that patch plates larger than 2 square feet will require additional consideration to both the means of moving and positioning the patch in place prior to welding and may also require further considerations regarding attachment to the underlying tank structure.

Instances of multiple defects in close proximity to each other that were reported and verified individually in the inspection process are combined into a single repair at some locations. This grouping of individual

defects into single repairs is necessary to facilitate weld spacing requirements. The grouping of multiple defects into a single repair may also provide a considerable time and material savings over addressing each indication separately. The approach for repair types are discussed below.

The overall repair methodology utilized in the determinations of repairs are outlined in API 653 and were utilized to the greatest extent possible.

Defects Caused by Relevant Rounded Indications

The recommended repair for these areas is to grind the affected area and apply a weld bead (or beads) to replace the deficient weld. Individual instances of porosity may be addressed by as little as 2 to 4 inches of weld repair while larger areas with numerous indications requiring several inches or more of repair.

Defects Caused by Dents, Gouges, Tear-outs and Dent/Gouge Combinations

Repairs associated with these defects will be addressed with one of two methods depending on the severity and size of the defect. Tear-outs from the removal of temporary welds in the manufacture of the tank (or later) are typically repaired by filling the affected area with weld and then grinding the welded area to a flush condition with the surrounding plate. It is anticipated that these areas will require relatively short lengths of weld to correct the underlying discontinuity. The recommended repair for dents, gouges and dent/gouge combinations is to apply a patch plate over the affected area and seal weld the patch to the surrounding plate with a multiple-pass fillet weld.

BFET Indications

When the lateral extent of the defect could be seen, relevant indications identified by BFET methods were characterized by visual methods. BFET indications of discontinuities that were not easily characterized by visual methods were added to the repair list without further inspection. It was determined that further inspecting the weld requires a greater effort to definitively examine and characterize than would be required to provide a repair. These efforts include coating removal and grinding prior to evaluation. A typical repair involves preparation of the affected area by grinding followed by re-welding.

Local Backside Corrosion

Localized backside corrosion limited to an area that can be repaired with a smaller sized patch plate and is discussed within this section.

The recommended repair is the placement of a lap patch sized sufficiently to overlap affected area by at least 2 inches in all directions. In some instances, this overlap spacing requirement is not attainable within a single shell plate while maintaining weld-to-weld spacing requirements per the requirements outlined in API 653 for floor plate patch repairs. There are varied approaches that are recommended based on the situation.

In the presence of significant thickness loss in close proximity to a butt welded seam, the patch is forced to extend onto the adjacent plate. In this case, the weld spacing requirements API 653 for lap patches on floors have been adopted.

When the patch plate is near, or abuts a backing bar, the recommendation is to provide a tombstone shaped patch plate with sides of the plate intersecting the backing bar fillet weld at approximately 90 degrees. The size of the patch plate will influence the method by which it is positioned for welding.

General Backside Corrosion

General backside corrosion is such that the area affected is much larger than a localized corrosion area and requires a repair that is larger in size. Within Tank 17, there are repairs that fall under this category, and it is recommended to repair an area greater than 2 square feet in area for each location.

These repairs will be unlike any previous repairs done at the Red Hill Facility and will require extensive design and construction considerations. Repairs could include the removal of existing shell plates and inserting new plate or welding patch plates to cover the affected areas.

Tell-Tale Leak Monitoring System

Repairs are required to remove doubler plates found on the tell-tale monitoring system. EEI has recommended that the doubler plates and pipes be ground off and flush with the shell of the tank. A new quarter inch patch plate of at least 8-inch diameter will be placed over the opening in the shell plate. During the inspection phase, tell-tale locations were recorded and patch plates were designed to meet API 653 weld spacing for Tank bottoms. There were 580 tell-tale locations. Of the 580, there are 138 locations in which the doubler plate has been removed. The remaining 442 locations have some sort of doubler plate on them and will have to be removed and ground flush before a new plate is installed.

Drain and Sample Lines Between Tank and Lower Tunnel

EEI recommends repurposing the 16-inch product line to serve as a carrier pipe for passage of the Drain and Sample Lines between the tank boundary (tank floor) and lower tunnel. The overall recommended concept will be fully developed during design but is summarized as follows:

1. The 16-inch line will be modified in the tank and in the lower tunnel.
2. A companion flange will be provided in the tank, close to the floor.
3. A 16-inch blind flange will be modified to contain four flanged 3/4-inch bulkhead connections and one 4-inch or 6-inch flanged bulkhead fitting, for the in-tank connections. We also will be considering a 100% welded method of penetrating the tank envelope, rather than a 16-inch flanged condition.
4. The method of closing off, or not closing off, the tunnel end of the system will be further evaluated.
5. The sample lines will be a flanged flexible stainless steel braided hose.

The drain line material will be developed during design.

6.0 COATING SYSTEM

Coating Requirements

APTIM is responsible for obtaining the services of a SSPC QP-5 certified firm, to provide a NACE Level 3 Coating Inspector to perform a coating condition survey. Results of this survey will be utilized to determine coating repair requirements.

7.0 SUITABILITY FOR SERVICE EVALUATION

Historical Inspection Information

No previous Tank 17 inspection reports were available.

Corrosion Rates

Corrosion rates were calculated by region (upper dome, lower dome, barrel or extension ring) utilizing the maximum wall loss for the entire area. Maximum wall loss is for a single location on the plate and not indicative for the entire plate or the entire region. Full results are in Attachment G. Each rate is based off UT data collected in the field. Please note that remaining wall thickness may have been a result of excessive grinding within the tank instead of corrosion. Utilizing these areas to calculate corrosion rate provides the most conservative rate calculation. The max corrosion rates for a single plate found in a tank sections are as follows:

Upper Dome:	1.200 mils per year
Extension Ring:	1.200 mils per year
Barrel:	1.200 mils per year
Lower Dome:	Negligible – Plate thickness is within mill tolerance
Floor:	Negligible – Plate thickness is within mill tolerance

The corrosion rates were calculated using an assumed original metal thickness of 250 mil, the remaining wall thickness and 75 years in service (1942 construction). The numbers listed above are the largest corrosion rate in each area.

8.0 CLOSURE

Conclusions

Mandatory repairs were identified prior to return-to-service. Pending completion of the mandatory repair items noted, Tank 17 will be suitable to return-to-service.

The repairs to Tank 17 primarily include weld and patch plate repairs.

Project Organization

Prime Contractor	APTIM
Tank Inspection	Enterprise Engineering Inc.
Tank Inspection	TesTex
Pressure Testing	Vista Precision Solutions
Electrical Assessment	BSE Engineering
Mechanical Services	Oceanic Companies, Inc.

EEI Project Team

Site Team

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Steve J. DiGregorio, P.E.	Chief Structural Engineer, API 653 AST Inspector Certificate No. 1113

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ATTACHMENT A

**TANK INSPECTION DATA SHEET AND
EVALUATION ITEMS**

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DLA ENERGY TANK CMP CONDITION FORM**TANK INSPECTION SUMMARY SHEET**

Tank Location (Site Code): Red Hill Fuel Storage Facility, NAVSUP FLC, Joint Base Pearl Harbor-Hickam, Hawaii (JBPHH)

Tank No.: 17

Facility No.: N/A

Inspection Date(s): August 2017 to January 2018

Tank Type: Mined Underground Storage Tank

Type of Inspection: Internal w/ Suitability for Service Evaluation

Contract Number, Task Order: N639430-15-D-1632, Task Order 0005

Prime Contractor Name: APTIM
12005 Ford Road, Suite 600
Dallas, TX 75234
(833) 862-7846

Inspector, Certificate #: Douglas J. Kieley, P.E.
API-653 AST Inspector
Certificate No. 40281

Inspection Company: Enterprise Engineering, Inc.
400 US Route 1, North Suite B
Falmouth, ME 04105
(207) 869-8006

Manufacturer, Date, Design Standard: Morrison Knudsen, 1942, Not Specified

Diameter: 100'-0"

Shell Height: 250'-6"

Product, Specific Gravity: JP-5, 0.82

Design Pressure / Temperature: 96.9 psi / 50 degrees F

Gross Capacity / Nominal Capacity: 300,000 Bbls

Safe Fill Height: Top of Shell Course A in the Upper Dome

GPS Latitude & Longitude: N/A

Foundation Configuration: Concrete / Guniting encasement with embedded rebar & I-beams

Shell Configuration: Upper Dome: 5 courses, Butt Welded w/ Backing Bars
Extension Ring: 4 courses, Butt Welded w/ Backing Bars
Barrel: 28 courses, Butt Welded
Lower Dome: 4 Courses, Butt Welded

Roof: Dome with Structural Steel

Floating Pan: Not Applicable

Cathodic Protection: None – Not Applicable

Stilling Wells: None, 6-inch ATG

Last Inspection (Type, Date): Out-of-Service, November 2012 by Wilbros Government Services, LLC

Last Coated Internally (Product): 1983

Last Coated Externally (Product): Not coated Externally

INSPECTION RESULTS

Can tank return to service?: No.

Deficiencies identified as mandatory repairs: Yes, see paragraph titled "Mandatory Repairs" in body of report

Deficiencies identified as recommended repairs: Yes, see paragraph titled "Non-Mandatory Repairs" in body of report.

Deficiencies identified as long term repairs: Yes, see paragraph titled "Long Term Repairs" in body of report.

Next Scheduled API Inspections (Type, Date): API 653 Out-of-Service: 2038 (20 Years)

Next Scheduled Tank Cleaning (UFC 3-460-03, 2016): Army, Navy, Marine Corps Tank (During OOS Inspection Unless Required More Frequently due to Potential Fuel Quality Issues): January 2038 Date

ADDITIONAL ITEMS

Change in Service: None

As-Built Drawings, Specifications: Yes

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ATTACHMENT B

**ASSESSMENT OF COMPLIANCE WITH MILITARY
CRITERIA**

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ASSESSMENT OF COMPLIANCE WITH MILITARY CRITERIA				
UFC 3-460-01, Table 8-1				
(Complete UFC available at www.wbdg.org)				
Requirements for Vertical Underground Storage Tank (V-U) Only				
ITEM	APPURTENANCE (UFC REQUIREMENT)	COMPLIANT		COMMENTS/RECOMMENDATION (A blank in comments column indicates UFC compliance)
		YES	NO	
MANHOLE				
a	A 30-inch diameter manhole, a minimum of one manhole for tanks between 1,000 gallons and 5,000 gallons capacity, and a minimum of two manholes (both are to be at least 36 inches), for tanks larger than 5,000 gallons capacity.		X	Tank is equipped with one 24-inch and 8 foot manhole at the Upper Tunnel level and one 30-inch manhole on top of the tank. It is not compelling to provide 36-inch manholes.
LADDER/STAIRS				
i	Internal ladders (in accordance with OSHA criteria) for tanks of 5,000 gallons or larger with floating pans.	X		Internal ladder in good condition and compliant from bottom of tank to the top inside center tower.
LEVEL ALARMS				
l	An individual automatic level alarm system, independent of the gauging device or system for each tank. Include high, high-high, low and low-low level alarms.	X		Tank contains high level and high-high level alarms which alarm separate from ATG system. The remainder of the Alarms are compliant with NAVSUP requirements for the Red Hill Facility.
VENTS				
m	Open atmospheric vents with weather hoods and bird screens or pressure/vacuum vents in lieu of open vents. Comply with NFPA 30, host nation requirements, Chapter 2 of this UFC, API Std 650, API Std 2000, 29 CFR Part 1910.106, and DoD Standard Design AW 78-24-27, where applicable.	X		Tank contains a single 24-inch spiral welded vent line from the top of the tank to the Upper Tunnel Vent spool. The remaining portions of the requirements are not applicable to Red Hill Tanks.
n	Emergency relief venting with capacity in accordance with NFPA 30 and UL 142, as applicable or a weak roof-to-shell seam, as specified in API Std 650.	X		No emergency relief venting required for Red Hill Tanks.
GAUGE/GAUGE HATCH/STILLING WELLS				
o	A liquid level gauge calibrated in 1/16-inch graduations mounted at 60 inches above the walking surface.	X		Tank is outfitted with an ATG system on the top of the tank.
p	Automatic Tank Gauging (ATG) for all tanks with fuel managed through the Defense Logistics Agency's Business Modernization {BSM Enterprise Resource Programs (ERP) - Fuels section}, that complies with API MPMS Chapter 3.	X		Tank is outfitted with an ATG system on the top of the tank.
q	A 4-inch gauge hatch with drop tube to within 3 inches of the bottom of the tank (lowest point in the tank, not the sump). A second 4-inch opening without a drop tube or gauge hatch.	X		Tank does contain a gauge hatch but does not have a drop tube. Tank is compliant with NAVSUP requirements.

ASSESSMENT OF COMPLIANCE WITH MILITARY CRITERIA				
UFC 3-460-01, Table 8-1				
(Complete UFC available at www.wbdg.org)				
Requirements for Vertical Underground Storage Tank (V-U) Only				
ITEM	APPURTENANCE (UFC REQUIREMENT)	COMPLIANT		COMMENTS/RECOMMENDATION (A blank in comments column indicates UFC compliance)
		YES	NO	
r	One 10-inch roof flanged nozzle with an 8-inch aluminum, fully slotted, stilling well for ATG near the edge of the roof near the top of the stairway platform.	X		A 6-inch Aluminum ATG system probe is mounted on a 10-inch nozzle. Tank is compliant with NAVSUP requirements.
s	One 8-inch roof flanged nozzle with a 6-inch aluminum, fully slotted, stilling well for temperature and water bottom sensor, as close to or in the tank sump as possible. See DoD Standard Design AW 78-24-27.	X		There is no separate stilling well for temperature and water bottom sensor. Tank is compliant with NAVSUP requirements.
t	One 10-inch roof nozzle and an aluminum, slotted stilling well extended to within 3 inches of the bottom of the tank* for gauging and sampling. A datum plate to establish a gauging zero point.	X		There is no stilling well for manual tank gauging. Tank is compliant with NAVSUP requirements.
PIPE CONNECTION				
w	Inlet fill pipe with horizontal exit perpendicular to a tank radial. Discharge is approximately 4 inches above tank floor and enlarged to reduce fuel velocity. An inverted trap is placed in the line to serve as a liquid lock to prevent entry of fire or an explosion from outside the fill pipe.		X	32-inch pipe exits perpendicular to tank floor. 16-inch pipe is flush with tank floor. No trap is placed in line. Design is Standard for Red Hill Tanks.
OVERFILL PROTECTION				
x	Overfill protection with a hydraulically operated diaphragm control valve.		X	Not applicable to Red Hill Tanks.
WATER DRAW-OFF				
dd	A central sump pump.	X		Tank utilized the 16-inch line as a drain near the center of tank.
STRIKER PLATES				
gg	Striker plates under all openings used for manual gauging in steel tanks and all openings in fiberglass tanks.	X		No striker plate installed.
Additional Military Criteria Items, Comments or Notes:				
None.				

END OF DATA

ATTACHMENT C

**NON-DESTRUCTIVE EXAMINATION (NDE) AND
EVALUATION CRITERIA**

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CODES AND STANDARDS

API Standard 653, 5th Edition, November 2014

API Standard 650, 12th Edition, March 2013, Addendum 2, January 2016

UFC 3-301-01 Structural Engineering, September 2016

NON DESTRUCTIVE EXAMINATION (NDE)

Tank Inspection (General)

API Standard 653 as applicable.

Visual Inspection

1. Inspection Items

- In accordance with API Standard 653.
- Floor, shell and upper dome welded joints (where accessible).
- Floor, shell and upper dome surfaces.
- Items affecting structural and hydraulic integrity.

2. Method

- In accordance with API Standard 653.
- Special considerations for rounded indications:

Rounded indications are defined as surface-penetrating discontinuities whose length is less than three times the width. Rounded indications in existing work are subject to further examination when they are obscured by coating and/or debris or if, for any reason, the full extent of the included surface is obscured. Cleaning the area of interest to bare metal is performed prior to re-evaluation of the indication. Removal of coating, serves multiple purposes, such as:

- Length and width can be accurately measured without the inclusion of an unknown coating thickness;
 - False positive indications caused solely by coating defect can be easily evaluated;
 - Other forms of indication or defect (slag inclusions, for example) can often be hidden by coating and cause the appearance of rounded indications in the coating.
- Remaining thickness-based criteria for evaluation of indications.

It is common practice to only bring historically constructed and service-tested equipment into compliance with current code when repair, upgrade or other new construction is performed. For this reason, criteria presented here for surface penetrating (but non-crack forming) indications that have a length component in the through-thickness direction are based on the calculated minimum remaining wall thickness. It is the goal of this criteria to identify and reject any discontinuity that penetrates the steel to a depth such that the remaining wall thickness is thinner than the calculated minimum based on the calculations presented in Attachment G.

3. Acceptance Criteria

Acceptance criteria are from the applicable clause in AWS D1.1 and section in API 650:

Indication Type	Acceptance Criteria
Crack	Unacceptable, regardless of size or location.
Weld/Base Metal Fusion	Complete fusion shall exist between adjacent layers of weld metal and between weld metal and base metal.
Crater Cross Section	All crater cracks shall be removed and filled.
Weld Profiles	Must confirm to AWS D1.1 Subclause 5.23.
Undersize Welds	The size of a fillet weld in any continuous weld may be less than the ¼-inch nominal size without correction by 3/32-inch or by an amount that ensures a minimum through-thickness of the remaining wall thickness criteria, as calculated in Attachment G.
Undercut	For existing welds (welds that have previously been in-service) the acceptance criteria for depth of undercut will be based on remaining wall thickness criteria, as calculated in Attachment G.
Porosity, Rounded Indications	Piping shall have no visible porosity. For all other welds porosity shall not exceed 1 indication in 4 inches and the maximum diameter shall not exceed 3/32-inch. In addition, acceptance criteria for depth of the discontinuity will be based on remaining wall thickness criteria, as calculated in Attachment G.

Ultrasonic Testing (UT)

Ultrasonic thickness measurements were taken to establish end of nozzle and floor plate thicknesses.

1. Inspection Items

- In accordance with EEI NDE Procedure, EEI-UT-002, Ultrasonic Thickness Examination.
- Floor plates
- End of nozzles

2. Equipment

- Olympus 38DL Plus / Olympus 45 MG

3. Method

- Perform on a spot basis to determine thickness.
- Perform as follow-up to LFET indications to determine the remaining wall thickness.

4. Acceptance Criteria

Planar indications such as laminations shall be reported to the inspector of record for further review.

Dual Linear Phased Array UT

Quantitative assessment of the tank shell and floor.

1. Inspection Items

- In accordance with EEI NDE Procedure, EEI-PAUT-001, Ultrasonic Thickness Examination.

- Shell plates
 - Upper dome plates
 - Floor plates (to prove up any findings from the LFET)
2. Equipment
 - Olympus OmniScan SX with 7.5 MHz Dual Linear Array Probe for corrosion inspection.
 3. Method
 - Perform at follow-up to LFET indications found by TesTex to determine the nature of the indication.
 - Echo/Echo (E/E) or Thru Coat mode for determining metal thickness and backside corrosion on coated surfaces without including thickness of coating in reading.
 4. Acceptance Criteria

Planar indications such as laminations shall be reported to the inspector of record for further review.

Phased Array UT

Quantitative assessment of welds.

1. Inspection Items
 - In accordance with EEI NDE Procedure, EEI-PAUT-002.
 - Circumferential welds of the 32-inch piping.
2. Equipment
 - Olympus OmniScan SX with 5MHz angle beam probe.
3. Method
 - Perform double-sided angle beam inspections of circumferential welds according to established scan plans developed for addressing the piping thickness and weld orientation.
4. Acceptance Criteria
 - ASME B31.3
 - A linear-type discontinuity is unacceptable if the amplitude of the indication exceeds the reference level and its length exceeds ¼ in. for pipe thickness less than or equal to ¾ in.

Low Frequency Electromagnetic Technique (LFET)

1. Inspection Items
 - In accordance with TesTex Inspection Procedure.
2. Equipment
 - FALCON S (8-Channel), 18.10 KHz

The equipment utilizes magnetizing core that acts as a DC electromagnet to generate a strong magnetic field. The saturation lowers the permeability of the ferromagnetic material which allows the Eddy Current field to penetrate deeper into the material being tested. Any wall loss will result in a

concentration of the magnetic field in the remaining wall, resulting in an increased magnetic flux density around and under the defect. The distortion of the magnetic field is measured as a change of phase and amplitude in the secondary voltage generated by the material. The signal amplitude of the defect indication is in direct proportion to the volume of the defect. The signal phase of the defect indication is used to differentiate top side or bottom side defects

3. Detection Capability

The equipment is calibrated on a 1/4-inch thick function test plate with three machined metal loss defects:

- 1/8-inch diameter hole in 1/4-inch thick plate
- A tapered hole drilled 40% backside metal loss of plate thickness on surface opposite the detection equipment
- A machined notch across the width of the function test plate

Any signal that can be clearly distinguished from background noise during floor scanning is marked for follow-up testing by ultrasonic A-Scan.

4. Acceptance Criteria

- Indication - Full screen LED display in “red” zone requires follow-up ultrasonic testing to determine nature of the indication.

5. Areas Not Accessible to Scanning

- Within 1-inch of tank shell
- Within 1-inch of welded joints
- Floor areas below interior piping and appurtenances where the equipment cannot fit
- Sumps
- Below column bases and pipe supports
- Patch plates

Balanced Field Electromagnetic Technique (LFET)

1. Inspection Items

- In accordance with TesTex Inspection Procedure.

2. Equipment

- FALCON S (8-Channel), 18.10 KHz
- Hawkeye probe

The Hawkeye probe creates a balanced field in which small changes in the electromagnetic field can be detected by reducing the noise through phase rotation of the horizontal and vertical component of the signal. This allows the Hawkeye probe to detect surface and subsurface cracking.

3. Detection Capability

- The equipment is calibrated to TesTex standards.

4. Acceptance Criteria
 - Indication - The flaw will appear as a differential signal

Pit Survey

1. Inspection Items
 - Tank floor
 - Tank shell
 - Tank Upper Dome
2. Equipment
 - Mechanical pit gauges

Magnetic Particle Testing (MT)

1. Inspection items
 - In accordance with EEI NDE Procedure, EEI-NDE-001
 - Mitered welds in the 32-inch
 - 8-inch drain cap
 - TesTex weld BFET indications
 - Plug welds in the adjustment plate and expansion joint
 - Strain gauges
2. Equipment
 - Magnaflux Y-1

The Magnaflux Y-1 is AC electromagnetic yoke.
3. Method
 - The application of wet visible or fluorescent particles shall be by spraying or flowing the medium under the continuous magnetization technique; i.e., the magnetizing current remains on while the examination medium is being applied and while excess of the examination medium is being removed.
 - At least two separate examinations shall be carried out at each location. During the second examination, the lines of magnetic flux shall be approximately perpendicular to those used during the first examination.
4. Acceptance Criteria

All surfaces to be examined shall be free of:

 - Relevant linear indications;
 - Relevant rounded indications greater than 3/16-inch;
 - Four or more relevant rounded indications in a line separated by 3/16-inch or less, edge to edge.

Vacuum Box Testing (VBT)

1. Inspection Items

- 8-inch drain cap
- Strain gauges
- Adjustment plate welds
- Expansion joint welds
- Tower leg welds

2. Equipment

- Custom vacuum boxes built in situ for different welds.

3. Method

- The application of a soap film solution is applied in accordance with API 650.
- Initial pressure of between 21 and 35 kPa in which the vacuum is formed.
- Increase and test under 56 to 70 kPa.

4. Acceptance Criteria

- Indications - The continuous formation or growth of bubbles produced by air passing through the thickness is a through thickness leak indication. A large opening leak is indicated by the quick bursting bubbles or spitting response at initial pressure of vacuum.

Coating Thickness Measurements

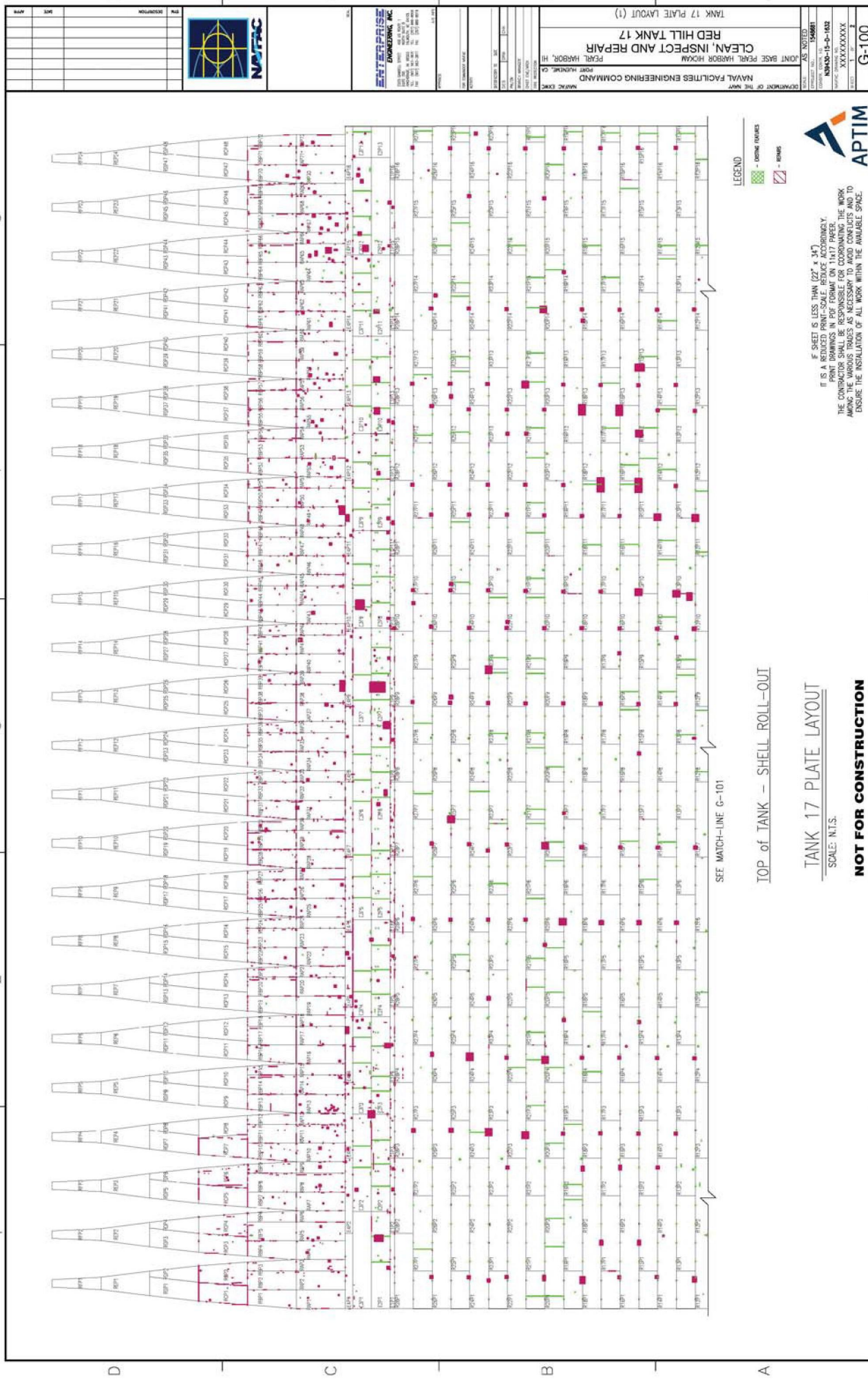
1. Equipment

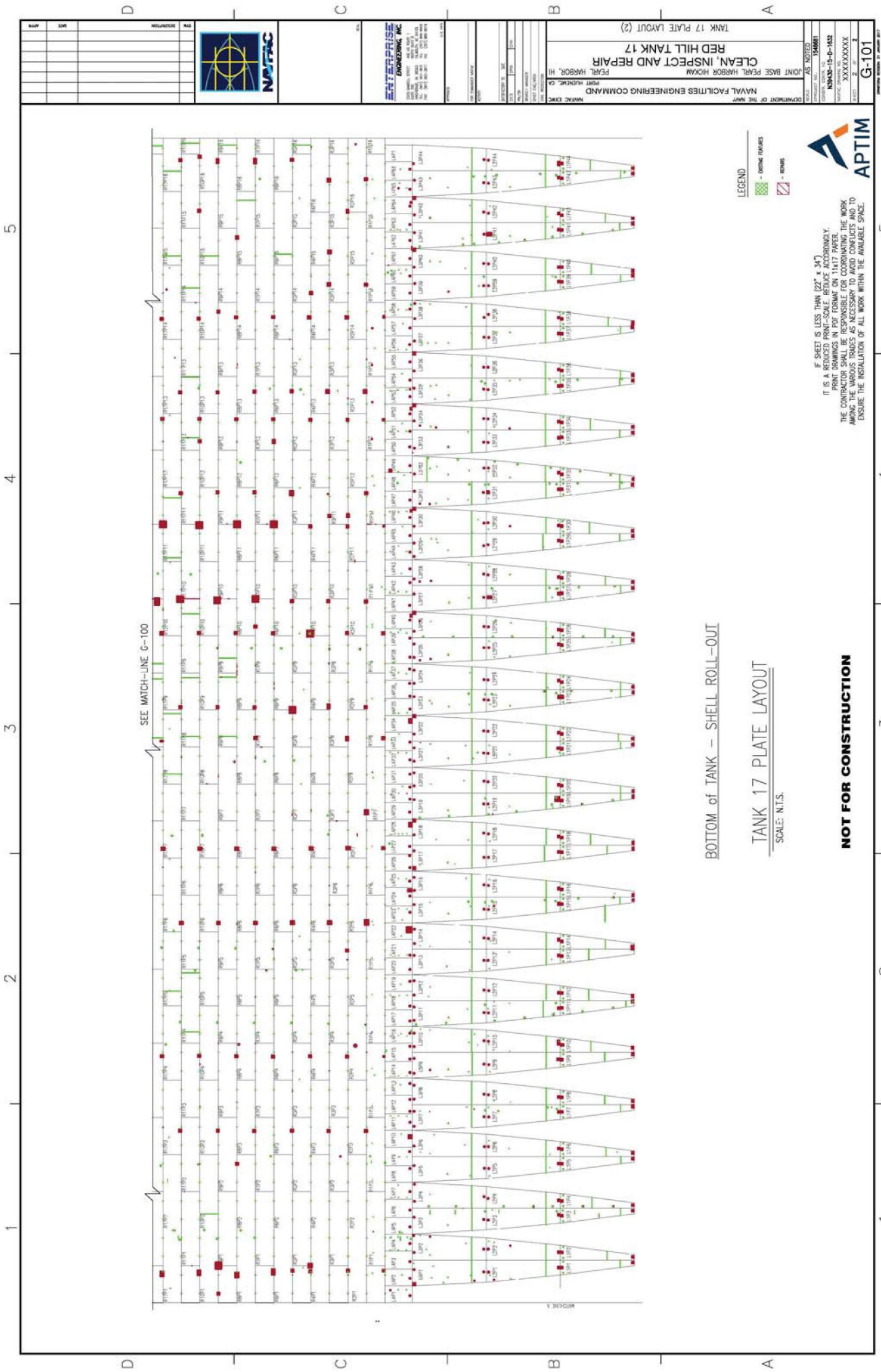
- PosiTector 6000 Thickness Gauge.

ATTACHMENT D

TANK DRAWINGS

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ATTACHMENT E

TANK PHOTOGRAPHS

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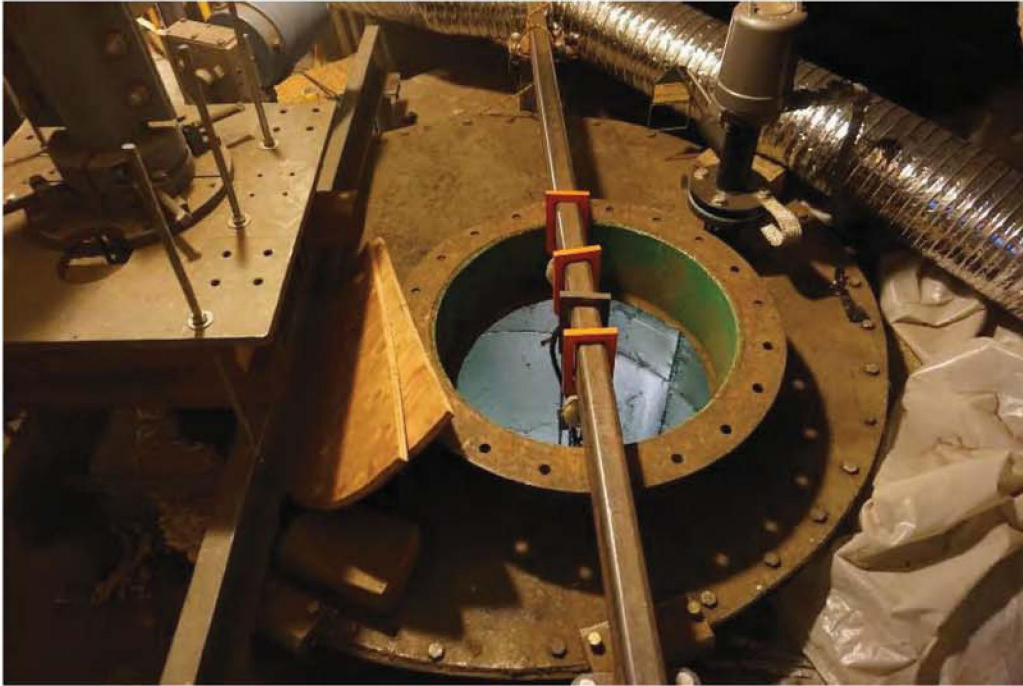


Photo 1: Upper access manway



Photo 2: Catwalk to center tower

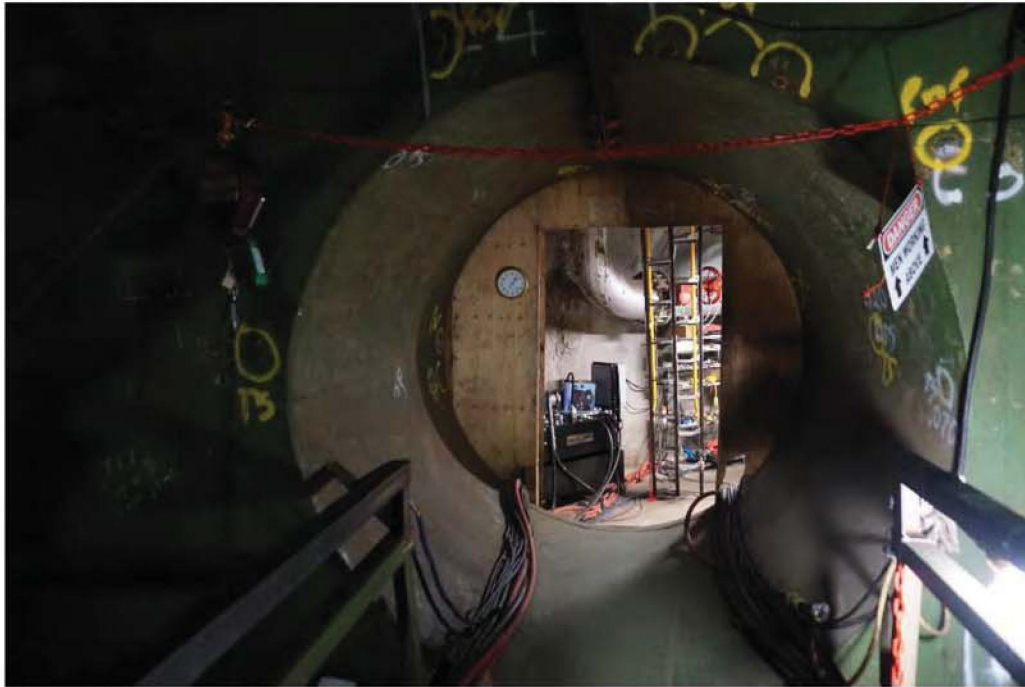


Photo 3: 96-inch access tube and manhole



Photo 4: Upper access manway with ATG



Photo 5: Vent piping at upper dome near upper access manway

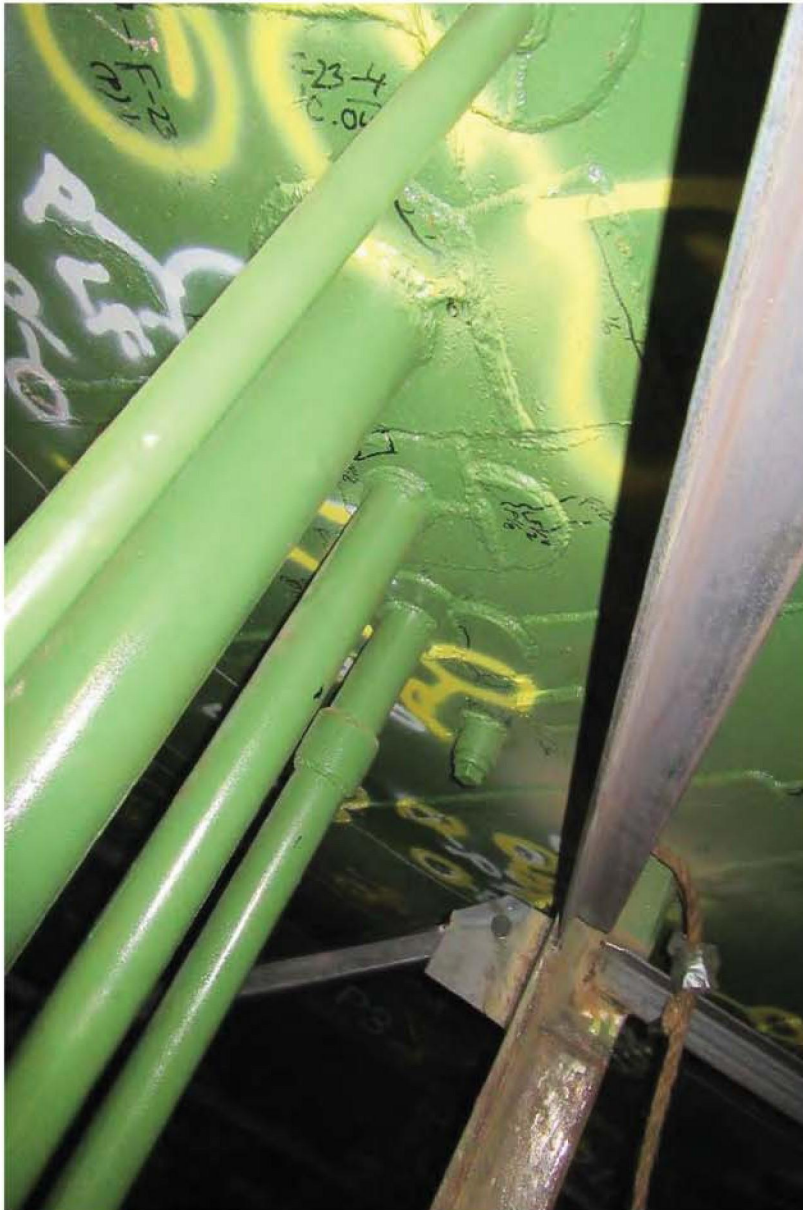


Photo 6: Abandoned stilling well and counterweight tubes at upper dome



Photo 7: Upper Dome Course C



Photo 8: Upper Dome Courses D-F

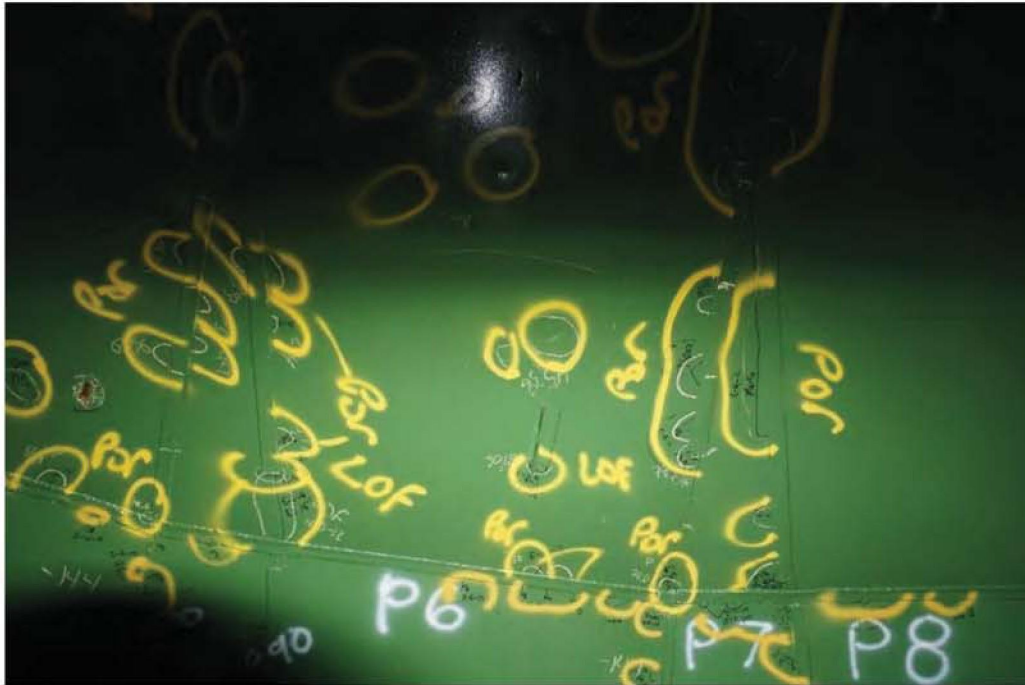


Photo 9: Upper Dome Course E

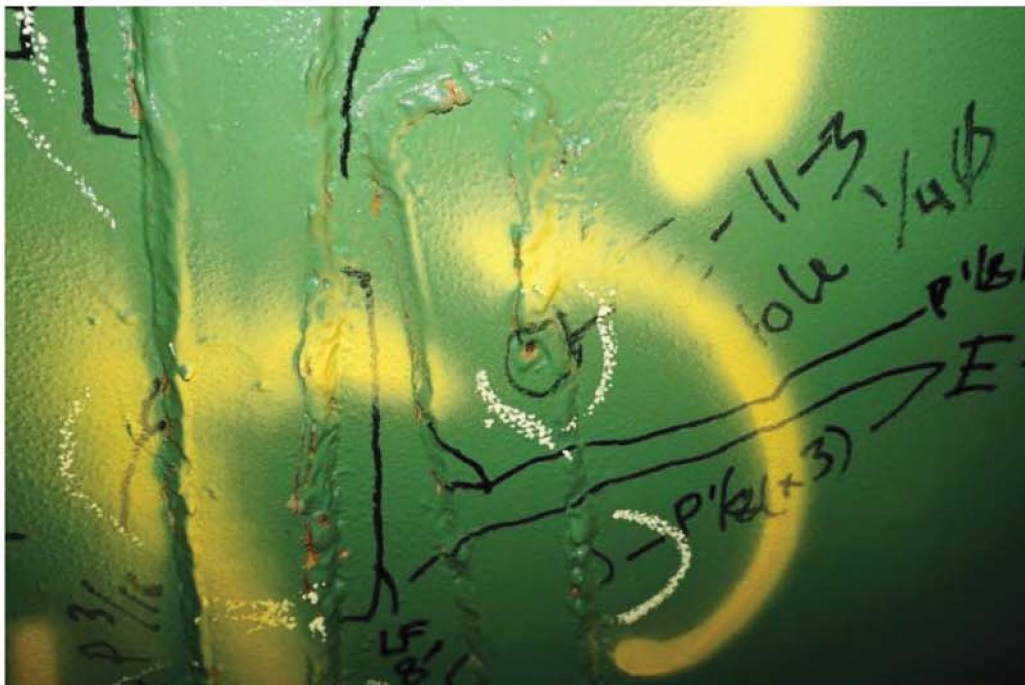


Photo 10: Backing bar weld on Upper Dome Course E

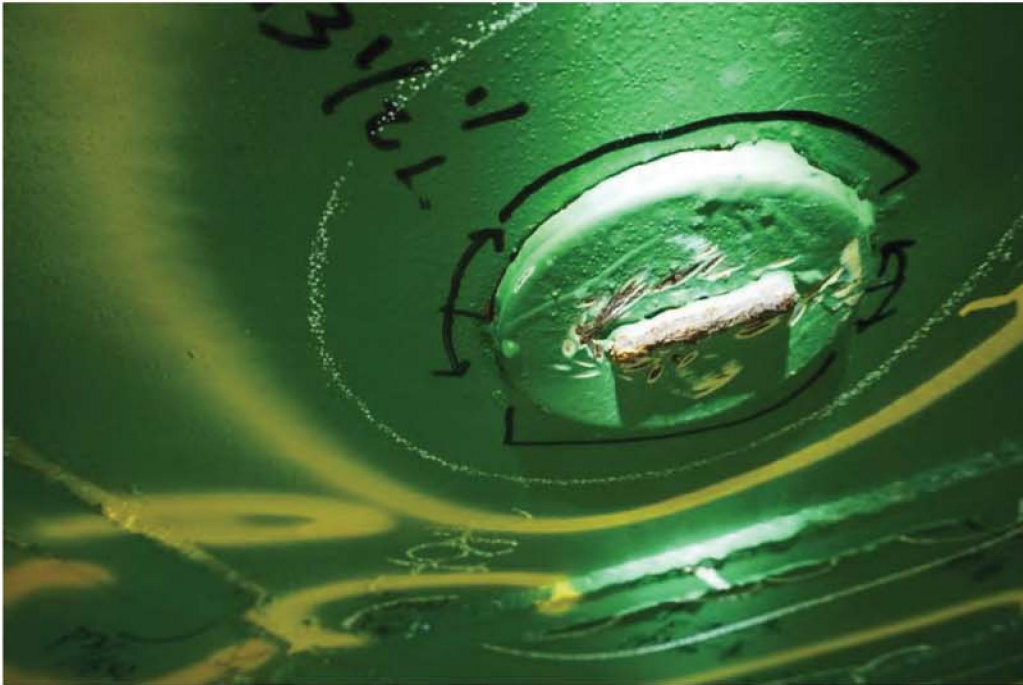


Photo 11: Lack of fill around patch plate on Upper Dome Course E



Photo 12: Poor welds between the backing bars of four plates on upper dome



Photo 13: Backing bar not welded to plate

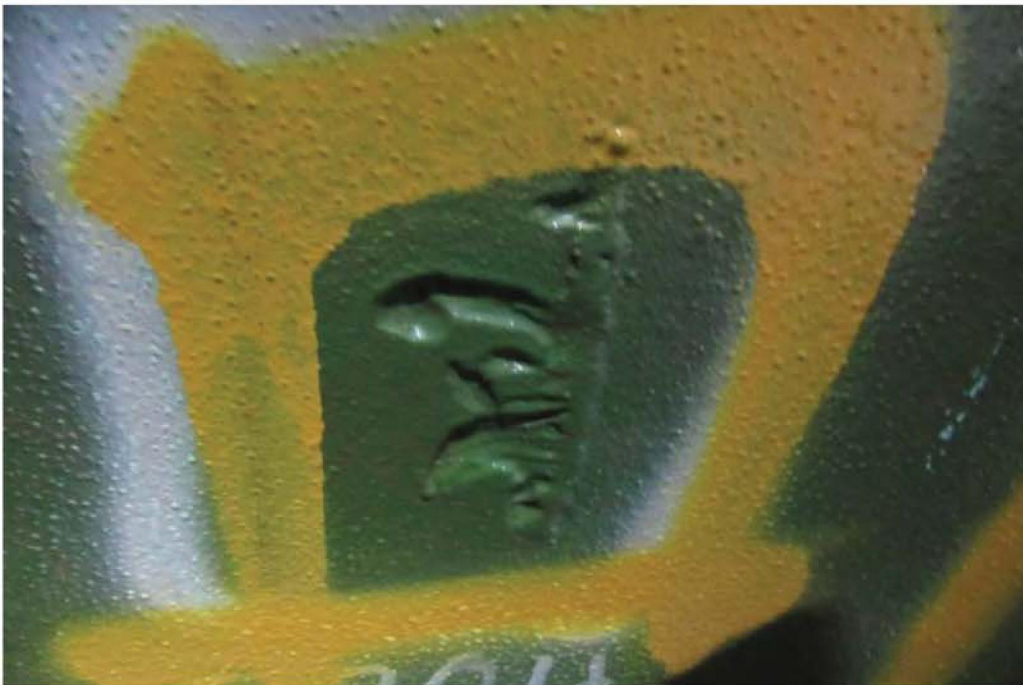


Photo 14: Gouge 0.150 inches deep in upper dome



Photo 15: Tank wall from upper dome to lower dome



Photo 16: Gouge in extension ring plate

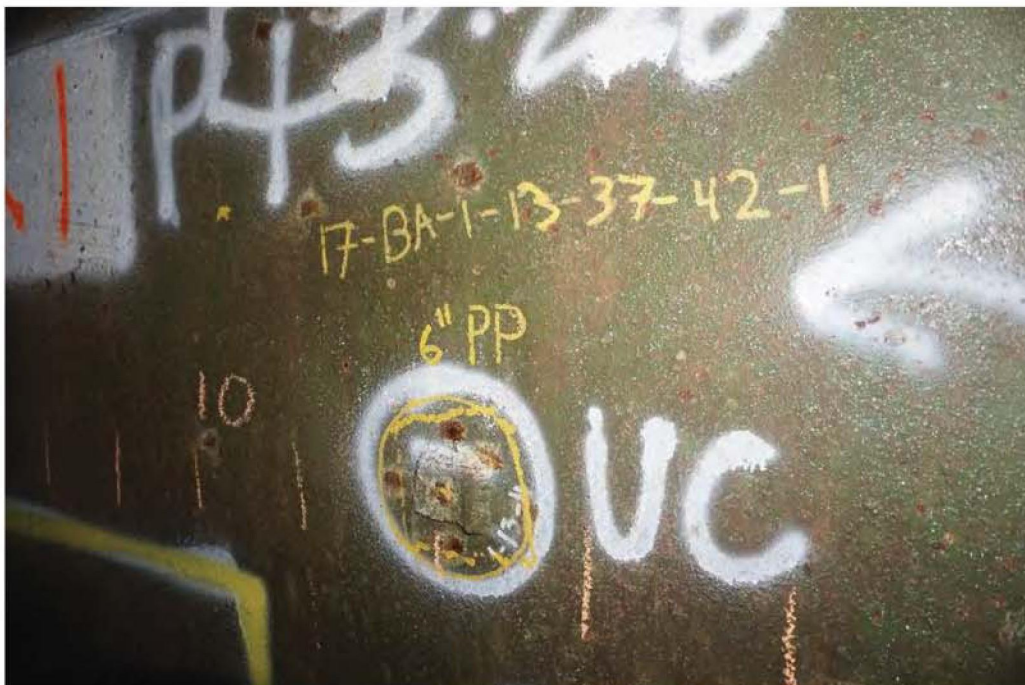


Photo 17: Undercut in welds on barrel plate

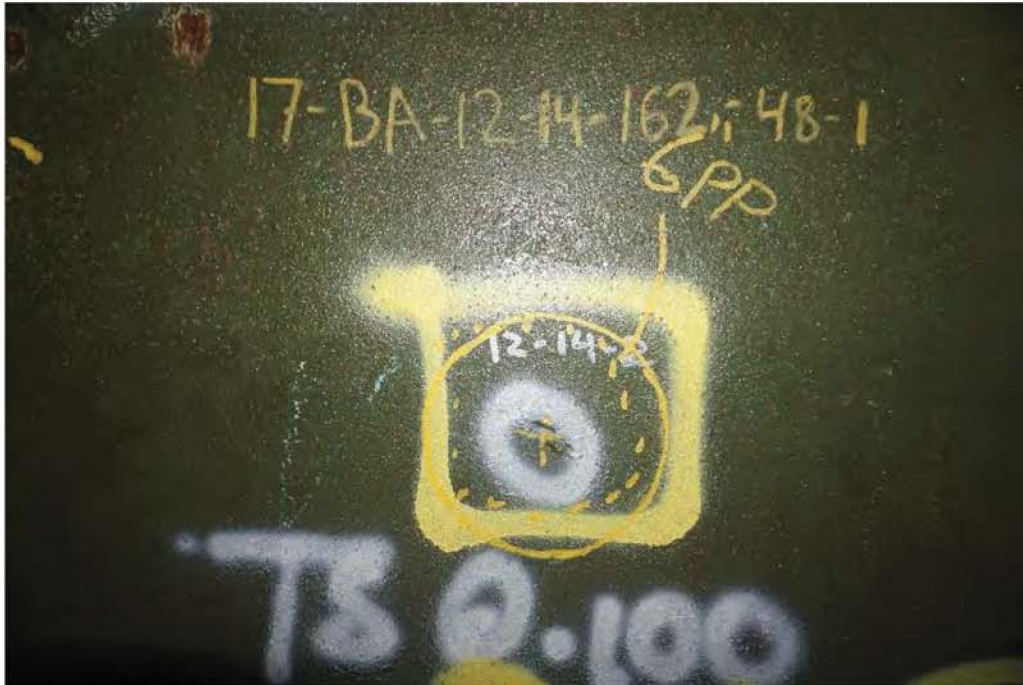


Photo 18: Topside indications on barrel plate



Photo 19: Gouge on barrel plate



Photo 20: Poor welds at existing repairs on lower dome



Photo 21: Tank floor and center tower



Photo 22: Abandoned stilling well and counterweight tubes at tank floor



Photo 23: 32-inch piping with vortex preventer removed for inspection



Photo 24: Visual inspection camera photo of 16-inch piping



Photo 25: Weld indication in circumference weld of 32-inch line



Photo 26: Insufficient fill in circumference weld of 32-inch line



Photo 27: Rounded indications in Circumference Weld 5 of 32-inch line

ATTACHMENT F

EEI MASTER SPREADSHEET OF FINDINGS AND REPAIRS

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April 13, 2018

			Recommended Repairs				
			Number of Repairs	Linear Feet of Weld	Area of Patch Plate (sq. ft.)	Number of Patch Plates <= 2 sq. ft.	Number of Patch Plates > 2 sq. ft.
Location in Tank	Upper Dome Course F	Weld Repairs	105	79			
		Patch Plate Repairs	5	16	3	5	0
	Upper Dome Course E	Weld Repairs	255	485			
		Patch Plate Repairs	16	54	12	16	0
	Upper Dome Course D	Weld Repairs	508	659			
		Patch Plate Repairs	21	63	12	21	0
	Upper Dome Course C	Weld Repairs	586	805			
		Patch Plate Repairs	24	70	13	24	0
	Upper Dome Course B	Weld Repairs	727	577			
		Patch Plate Repairs	16	42	7	16	0
	Upper Dome Course A	Weld Repairs	618	483			
		Patch Plate Repairs	83	261	60	79	4
	Extension Ring	Weld Repairs	532	373			
		Patch Plate Repairs	76	259	68	70	6
		Misc Repairs	1	4	1	1	0
	Barrell	Weld Repairs	224	98			
		Patch Plate Repairs	235	1065	332	208	27
		Misc Repairs	28	95	26	28	0
	Lower Dome	Weld Repairs	32	14			
		Patch Plate Repairs	151	498	105	150	1
		Misc Repairs	2	4	1	2	0
	Floor	Weld Repairs	0	0			
		Patch Plate Repairs	0	0	0	0	0

Summary of Recommended Repairs					
	Number of Repairs	Linear Feet of Weld	Area of Patch Plate (sq. ft.)	Number of Patch Plates <= 2 sq. ft.	Number of Patch Plates > 2 sq. ft.
Weld Repairs	3587	3573			
Patch Plate Repairs	627		613	589	38
Pipe Cap Repairs	31		28	31	0
Totals	4245		641	620	38

Total Recommended Repairs	
Patch Plates	1015
Weld Repairs	3587
Pipe Cap	31
TOTAL	4633

GLOSSARY

AS	Arc-strike resulting in topside plate gouge
BA	Barrel
BB	Backing Bar
BC	Bottom or back side corrosion indication
BFET	Balanced Field Electromagnetic Testing (an eddy current technique, TexTex occasionally refers to this as "Hawkeye" after their instrumentation model that utilizes the technique).
B, Bulge	Bulge
Bracket	Existing bracket
D, Dent	Dent
ER	Extension Ring
G	Gouge
H	Rounded indication with indetermined depth
IF	Incomplete Fill
IP	Incomplete Penetration
L, Lin	Linear indication having length greater than three times width
LAM, Lamination	Lamination (original plate manufacture defect)
LD	Lower Dome
LF	Lack of Fill (also denoted by "IF")
LFET	Low Frequency Electromagnetic Testing (an eddy current technique)
LOF	Lack of Fusion
MT	Magnetic Particle Testing
N	Nozzle (A Pipe Cap installed over an original construction feature such as grout nozzle, strain gauge nozzle, etc.)
N/A	Not applicable (Existing Feature in tank that the position was recorded but no indications were present)
NR	As found in EEI Recommendation Column: "No Repair" An indication that met reporting criteria but, following prove-up, did not meet criteria for providing a repair.
NRI	No Recordable Indication
NW	No-weld/Lack of weld indication
P	Porosity (also denoted by "POR")
PA	Plate Anchor
PAUT	Phased Array Ultrasound Testing
PC	Pipe Cap: A method repair by which a short length of pipe with an attached end cap is placed over the affected area and welded in place around the circumference with a full fillet weld. Existing repairs of this type are marked "N" in the Master Table.
POR	Porosity (also denoted by "P")
PP	Patch Plate (see also TSPP)
R	As found in EEI Recommendation Column: "Repair" An indication that met reporting criteria and, following prove-up, met criteria for providing a repair.
RI	Rounded Indication (width to length ratio 3 or less)
SG	Surface Gouge
SP	Shell Plate
TC	Top side corrosion
TO	Tear or Tear Out
TS	Top Side indication: a general term to identify an indication on the surface facing the examiner.
TSP	Top Side Pit
TSPP	Tombstone patch plate, as described in API 653
TTH	Telltale Penetration without Patch Plate
TTTP	Telltale Penetration with Patch Plate
UC	Undercut
UD	Upper Dome
UT	Ultrasound Testing
VB	Vacuum Box Testing
VT	Visual Testing
W	Weld
WC	Weld Cover: often an channel section placed over backing bars in the upper dome.
WG	Weld gouge type indication
WI	Weld Indication: A generic term reported by TesTex to identify an indication found in a weld, typically found with an eddy current method.
WR	Weld Repair: A repair made solely by the application of weld filler and appropriate grinding. No patch plate or other additional metal other than filler is added.

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report								EEL Probe Up						Recommended Repairs						Repair Number: May Apply to Multiple Indications	
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside Indication(in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)		Repair Type (Patch, Weld, Cap)
17	17-UD-F-1-0-0	UD	F	1	1	0	0	VT	POR			0	0	VT	P			0	0	3	3	6		WR	17-UD-F-1-0-0-1
17	17-UD-F-1-30-0	UD	F	1	2	30	0	VT	POR			30	0	VT	P			30	0	4	0	4		WR	17-UD-F-1-30-0-2
17	17-UD-F-1-22-62	UD	F	1	3	22	62	VT	POR			22	62	VT	P			22	62	4	0	4		WR	17-UD-F-1-22-62-3
17	17-UD-F-1-17-67	UD	F	1	4	15-20	64-71	VT	LF			17	67	VT	LOF			17	67	12	12	24		WR	17-UD-F-1-17-67-4
17	17-UD-F-1-1-86	UD	F	1	5	1	86	VT	POR			1	86	VT	P			1	86	4	0	4		WR	17-UD-F-1-1-86-5
17	17-UD-F-1-1-97	UD	F	1	6	1	97	VT	POR			1	97	VT	P			1	97	8	0	8		WR	17-UD-F-1-1-97-6
17	17-UD-F-2-8-70	UD	F	2	2	8	70	VT	POR			8	70	VT	P			8	70	4	0	4		WR	17-UD-F-2-8-70-1
17	17-UD-F-2-6-85	UD	F	2	4	6	85	VT	GOUGE			6	85	VT	G			6	85	6	0	6		WR	17-UD-F-2-6-85-2
17	17-UD-F-2-9-94	UD	F	2	5	9	94	VT	POR			9	94	VT	P			9	94	4	0	4		WR	17-UD-F-2-9-94-3
17	17-UD-F-3-0-12	UD	F	3	1	0	12	VT	POR			0	12	VT	P			0	12	0	4	4		WR	17-UD-F-3-0-12-1
17	17-UD-F-3-36-7	UD	F	3	2	36	7	VT	POR			36	7	VT	P			36	7	0	4	4		WR	17-UD-F-3-36-7-2
17	17-UD-F-3-34-17	UD	F	3	3	34	17	VT	POR			34	17	VT	P			34	18	0	8	8		WR	17-UD-F-3-34-18-3
17	17-UD-F-3-25-53	UD	F	3	4	25	48-59	VT	POR			25	53	VT	P			25	54	12	0	12		WR	17-UD-F-3-25-54-4
17	17-UD-F-3-1-66	UD	F	3	6	1	66	VT	POR			1	66	VT	P			1	66	8	0	8		WR	17-UD-F-3-1-66-5
17	17-UD-F-3-19-73	UD	F	3	7	19	73	VT	POR			19	73	VT	P			19	73	4	0	4		WR	17-UD-F-3-19-73-6
17	17-UD-F-3-16-90	UD	F	3	8	16	90	VT	POR			16	90	VT	P			16	90	4	0	4		WR	17-UD-F-3-16-90-7
17	17-UD-F-4-0-7	UD	F	4	1	0	7	VT	POR			0	7	VT	P			0	7	0	4	4		WR	17-UD-F-4-0-7-1
17	17-UD-F-4-0-26	UD	F	4	2	0	26	VT	POR			0	26	VT	P			0	26	0	4	4		WR	17-UD-F-4-0-26-2
17	17-UD-F-4-38-5	UD	F	4	3	38	5	VT	POR			38	5	VT	P			38	5	0	4	4		WR	17-UD-F-4-38-5-3
17	17-UD-F-4-29-42	UD	F	4	4	29	42	VT	POR			29	42	VT	P			29	42	4	0	4		WR	17-UD-F-4-29-42-4
17	17-UD-F-4-26-58	UD	F	4	5	26	58	VT	POR			26	58	VT	P			26	58	4	0	4		WR	17-UD-F-4-26-58-5
17	17-UD-F-4-23-69	UD	F	4	6	23	69	VT	POR			23	69	VT	P			23	69	4	0	4		WR	17-UD-F-4-23-69-6
17	17-UD-F-4-20-77	UD	F	4	7	20	77	VT	POR			20	77	VT	P			20	77	4	0	4		WR	17-UD-F-4-20-77-7
17	17-UD-F-4-6-84	UD	F	4	8	6	84	VT	POR			6	84	VT	P			6	84	2	0	2		WR	17-UD-F-4-6-84-8
17	17-UD-F-4-10-115	UD	F	4	10	10	115	VT	POR			10	115	VT	P			10	115	4	0	4		WR	17-UD-F-4-10-115-9
17	17-UD-F-5-38-0	UD	F	5	1	38	0	VT	POR			38	0	VT	P			38	0	6	6	12		WR	17-UD-F-5-38-0-1
17	17-UD-F-6-29-43	UD	F	6	1	29	41-45	VT	POR			29	43	VT	P			29	43	10	0	10		WR	17-UD-F-6-29-43-1
17	17-UD-F-6-17-81	UD	F	6	2	17	81	VT	POR			17	81	VT	P			17	81	4	0	4		WR	17-UD-F-6-17-81-2
17	17-UD-F-7-1-47	UD	F	7	1	1	47	VT	POR			1	47	VT	P			1	47	4	0	4		WR	17-UD-F-7-1-47-1
17	17-UD-F-7-21-60	UD	F	7	2	21	37-84	VT	POR			21	60	VT	P			21	60	52	0	52		WR	17-UD-F-7-21-60-2
17	17-UD-F-7-1-90	UD	F	7	3	1	90	VT	POR			1	90	VT	P			1	90	4	0	4		WR	17-UD-F-7-1-90-3
17	17-UD-F-8-29-19	UD	F	8	1	29	19	VT	POR			29	19	VT	P			29	19	4	0	4		WR	17-UD-F-8-29-19-1
17	17-UD-F-8-1-20	UD	F	8	2	1	20	VT	POR			1	20	VT	P			1	20	4	0	4		WR	17-UD-F-8-1-20-2
17	17-UD-F-8-1-33	UD	F	8	3	1	29-37	VT	POR			1	33	VT	P			1	33	10	0	10		WR	17-UD-F-8-1-33-3
17	17-UD-F-8-16-42	UD	F	8	5	14-16	39-45	VT	POR			16	42	VT	P			16	42	12	0	12		WR	17-UD-F-8-16-42-4
17	17-UD-F-8-23-44	UD	F	8	6	23	44	VT	POR			23	44	VT	P			23	44	4	0	4		WR	17-UD-F-8-23-44-5
17	17-UD-F-8-13-80	UD	F	8	7	13	69-92	VT	POR			13	80	VT	P			13	80	30	0	30		WR	17-UD-F-8-13-80-6
17	17-UD-F-9-30-38	UD	F	9	1	30	38	VT	POR			30	38	VT	P			30	38	4	0	4		WR	17-UD-F-9-30-38-1
17	17-UD-F-9-17-74	UD	F	9	4	17	79-89	VT	POR			17	74	VT	P			17	74	20	0	20		WR	17-UD-F-9-17-74-2
17	17-UD-F-10-1-53	UD	F	10	1	1	53	VT	POR			1	53	VT	P			1	53	4	0	4		WR	17-UD-F-10-1-53-1
17	17-UD-F-10-1-70	UD	F	10	2	1	70	VT	POR			1	70	VT	P			1	70	4	0	4		WR	17-UD-F-10-1-70-2
17	17-UD-F-10-35-30	UD	F	10	3	35	30	VT	POR			35	30	VT	P			35	30	6	0	6		WR	17-UD-F-10-35-30-3
17	17-UD-F-10-35-35	UD	F	10	4	35	35	VT	POR			35	35	VT	P			35	35	6	0	6		WR	17-UD-F-10-35-35-4
17	17-UD-F-11-37-1	UD	F	11	1	37	1	VT	POR			37	1	VT	P			37	1	8	8	16		WR	17-UD-F-11-37-1-1
17	17-UD-F-11-19-79	UD	F	11	2	19	79	VT	POR			19	79	VT	P			19	79	4	0	4		WR	17-UD-F-11-19-79-2
17	17-UD-F-12-29-38	UD	F	12	1	29	38	VT	POR			29	38	VT	P			29	38	4	0	4		WR	17-UD-F-12-29-38-1
17	17-UD-F-13-0-25	UD	F	13	1	0	25	VT	POR			0	25	VT	P			0	25	0	6	6		WR	17-UD-F-13-0-25-1
17	17-UD-F-13-33-0	UD	F	13	2	33	0	VT	POR			33	0	VT	P			33	0	6	0	6		WR	17-UD-F-13-33-0-2
17	17-UD-F-13-33-17	UD	F	13	3	33	14-20	VT	POR			33	17	VT	P			33	17	0	10	10		WR	17-UD-F-13-33-17-3
17	17-UD-F-13-23-60	UD	F	13	6	23	54-61	VT	POR			23	60	VT	P			23	60	12	0	12		WR	17-UD-F-13-23-60-4
17	17-UD-F-13-1-61	UD	F	13	7	1	61	VT	POR			1	61	VT	P			1	61	4	0	4		WR	17-UD-F-13-1-61-5
17	17-UD-F-13-20-77	UD	F	13	8	20	77	VT	POR			20	77	VT	P			20	77	8	0	8		WR	17-UD-F-13-20-77-6
17	17-UD-F-14-20-0	UD	F	14	1	20	0	VT	POR			20	0	VT	P			20	0	6	0	6		WR	17-UD-F-14-20-0-1
17	17-UD-F-14-1-45	UD	F	14	2	1	43-47	VT	POR			1	45	VT	P			1	45	4	0	4		WR	17-UD-F-14-1-45-2
17	17-UD-F-14-9-54	UD	F	14	3	7-10	52-57	VT	POR			9	54	VT	P			9	54	12	0	12		WR	17-UD-F-14-9-54-3
17	17-UD-F-14-18-51	UD	F	14	4	18	51	VT	DENT	0.120		18	51	VT	D			18	51	6	0	19	28	PP	17-UD-F-14-18-51-4

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report										EEL Prove Up						Recommended Repairs						Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID	X Coordinate (in)	Y Coordinate (in)	Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside Indication(in)	Center of Indication X (in)	Center of Indication Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair X (in)	Center of Repair Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)		
17	17-UD-F-14-1-80	UD	F	14	5	1	80	0	VT	POR			1	80	0	VT	P			1	80	6	0	6		WR	17-UD-F-14-1-80-5
17	17-UD-F-15-38-0	UD	F	15	1	38	0	VT	POR			38	0	VT	P					38	0	6	0	19	28	PP	17-UD-F-15-38-0-1
17	17-UD-F-15-3-21	UD	F	15	2	3	21	0	VT	GOUGE			3	21	0	VT	G			3	21	3	3	6		WR	17-UD-F-15-3-21-2
17	17-UD-F-15-25-34	UD	F	15	3	25	34	0	VT	DENT			25	34	0	VT	D			25	34	10	10	40	100	PP	17-UD-F-15-25-34-3
17	17-UD-F-15-23-36	UD	F	15	4	23	36	0	VT	DENT			23	36	0	VT	D			23	36	12	12	48	144	TSPP	17-UD-F-15-23-36-4
17	17-UD-F-15-10-61	UD	F	15	5	9-11	61	0	VT	DENT			10	61	0	VT	D			10	61	12	12	48	144	PP	17-UD-F-15-10-61-5
17	17-UD-F-15-12-101	UD	F	15	6	12	99-103	0	VT	POR			12	101	0	VT	P			12	101	8	0	8		WR	17-UD-F-15-12-101-6
17	17-UD-F-16-12-0	UD	F	16	1	12	0	VT	POR			12	0	VT	P					12	0	6	0	6		WR	17-UD-F-16-12-0-1
17	17-UD-F-16-28-0	UD	F	16	2	28	0	VT	POR			28	0	VT	P					28	0	6	0	6		WR	17-UD-F-16-28-0-2
17	17-UD-F-16-30-32	UD	F	16	3	30	32	0	VT	POR			30	32	0	VT	P			30	32	4	0	4		WR	17-UD-F-16-30-32-3
17	17-UD-F-16-29-38	UD	F	16	4	29	38	0	VT	POR			29	38	0	VT	P			29	38	4	0	4		WR	17-UD-F-16-29-38-4
17	17-UD-F-16-1-52	UD	F	16	5	1	48-56	0	VT	POR			1	52	0	VT	P			1	52	15	0	15		WR	17-UD-F-16-1-52-5
17	17-UD-F-16-22-62	UD	F	16	6	22	62	0	VT	POR			22	62	0	VT	P			22	62	4	0	4		WR	17-UD-F-16-22-62-6
17	17-UD-F-16-10-112	UD	F	16	7	1-10	112	0	VT	POR			10	112	0	VT	P			10	112	4	0	4		WR	17-UD-F-16-10-112-7
17	17-UD-F-16-0-112	UD	F	16									0	112	0	VT	UC			0	112	9	0	9		WR	17-UD-F-16-0-112-8
17	17-UD-F-16-5-111	UD	F	16								5	111	0	VT	IF			5	111	10	0	10		WR	17-UD-F-16-5-111-9	
17	17-UD-F-17-30-38	UD	F	17	2	30	38	0	VT	POR			30	38	0	VT	P			30	38	4	0	4		WR	17-UD-F-17-30-38-1
17	17-UD-F-17-17-73	UD	F	17	3	17	73	0	VT	POR			17	73	0	VT	P			17	73	10	0	10		WR	17-UD-F-17-17-73-2
17	17-UD-F-17-13-99	UD	F	17	4	13	99	0	VT	POR			13	99	0	VT	P			13	99	4	0	4		WR	17-UD-F-17-13-99-3
17	17-UD-F-17-1-114	UD	F	17	5	1-10	110-118	0	VT	POR			1	114	0	VT	P			1	114	9	0	9		WR	17-UD-F-17-1-114-4
17	17-UD-F-18-0-4	UD	F	18	1	0	0-6	0	VT	POR			0	4	0	VT	P			0	4	0	9	9		WR	17-UD-F-18-0-4-1
17	17-UD-F-18-20-0	UD	F	18	2	18-22	0	VT	POR			20	0	VT	P					20	0	8	0	8		WR	17-UD-F-18-20-0-2
17	17-UD-F-18-32-0	UD	F	18	3	30-38	0	VT	POR			32	0	VT	P					32	0	12	0	12		WR	17-UD-F-18-32-0-3
17	17-UD-F-18-33-20	UD	F	18	5	33	20	0	VT	POR			33	20	0	VT	P			33	20	4	0	4		WR	17-UD-F-18-33-20-4
17	17-UD-F-18-28-42	UD	F	18	6	28	42	0	VT	POR			28	42	0	VT	P			28	42	4	0	4		WR	17-UD-F-18-28-42-5
17	17-UD-F-18-22-63	UD	F	18	7	22	63	0	VT	POR			22	63	0	VT	P			22	63	4	0	4		WR	17-UD-F-18-22-63-6
17	17-UD-F-18-12-101	UD	F	18	8	12	100-102	0	VT	POR			12	101	0	VT	P			12	101	12	0	12		WR	17-UD-F-18-12-101-7
17	17-UD-F-19-0-3	UD	F	19	1	0	0-6	0	VT	LF			0	3	0	VT	LOF			0	3	0	10	10		WR	17-UD-F-19-0-3-1
17	17-UD-F-19-0-10	UD	F	19	2	0	10	0	VT	LF/TC			0	10	0	VT	LIN			0	10	0	20	20		WR	17-UD-F-19-0-10-2
17	17-UD-F-19-1-44	UD	F	19	3	1	34-54	0	VT	POR			1	44	0	VT	P			1	44	0	20	20		WR	17-UD-F-19-1-44-3
17	17-UD-F-19-16-41	UD	F	19	4	14-17	38-44	0	VT	POR			16	41	0	VT	P			16	41	12	0	12		WR	17-UD-F-19-16-41-4
17	17-UD-F-19-34-44	UD	F	19	5	34	23-28	0	VT	POR			34	44	0	VT	P			34	44	0	30	30		WR	17-UD-F-19-34-44-5
17	17-UD-F-19-10-108	UD	F	19	7	10	108	0	VT	POR			10	108	0	VT	P			10	108	6	0	6		WR	17-UD-F-19-10-108-6
17	17-UD-F-20-2-90	UD	F	20	1	1-4	86-94	0	VT	POR			2	90	0	VT	P			2	90	24	0	24		WR	17-UD-F-20-2-90-1
17	17-UD-F-20-1-74	UD	F	20	2	1	74	0	VT	POR			1	74	0	VT	P			1	74	8	0	8		WR	17-UD-F-20-1-74-2
17	17-UD-F-21-10-0	UD	F	21	1	10	0	0	VT	POR			10	0	0	VT	P			10	0	4	0	4		WR	17-UD-F-21-10-0-1
17	17-UD-F-21-21-0	UD	F	21	2	21	0	0	VT	POR			21	0	0	VT	P			21	0	4	0	4		WR	17-UD-F-21-21-0-2
17	17-UD-F-21-32-18	UD	F	21	3	32	18	0	VT	DENT			32	18	0	VT	D			32	18	6	0	19	28	PP	17-UD-F-21-32-18-3
17	17-UD-F-21-38-2	UD	F	21	4	38	2	0	VT	POR			38	2	0	VT	P			38	2	10	0	10		WR	17-UD-F-21-38-2-4
17	17-UD-F-21-1-37	UD	F	21	6	1	34-40	0	VT	POR			1	37	0	VT	P			1	37	10	0	10		WR	17-UD-F-21-1-37-5
17	17-UD-F-21-22-71	UD	F	21	7	22	71	0	VT	POR			22	71	0	VT	P			22	71	4	0	4		WR	17-UD-F-21-22-71-6
17	17-UD-F-21-15-91	UD	F	21	10	15	84-98	0	VT	POR			15	91	0	VT	P			15	91	20	0	20		WR	17-UD-F-21-15-91-7
17	17-UD-F-21-1-99	UD	F	21	11	1	99	0	VT	POR			1	99	0	VT	P			1	99	24	0	24		WR	17-UD-F-21-1-99-8
17	17-UD-F-21-9-104	UD	F	21	12	7-12	104	0	VT	POR			9	104	0	VT	P			9	104	24	0	24		WR	17-UD-F-21-9-104-9
17	17-UD-F-21-3-66	UD	F	21									3	66	0	VT	D			3	66	6	6	24	36	TSPP	17-UD-F-21-3-66-10
17	17-UD-F-22-15-91	UD	F	22	3	15	88-94	0	VT	LF/POR			15	91	0	VT	P			15	91	8	0	8		WR	17-UD-F-22-15-91-1
17	17-UD-F-22-3-108	UD	F	22	4	1-6	108	0	VT	POR			3	108	0	VT	P			3	108	24	0	24		WR	17-UD-F-22-3-108-2
17	17-UD-F-22-1-114	UD	F	22	5	1	114	0	VT	POR			1	114	0	VT	P			1	114	24	0	24		WR	17-UD-F-22-1-114-3
17	17-UD-F-23-14-0	UD	F	23	1	14	0	0	VT	POR			14	0	0	VT	P			14	0	3	3	6		WR	17-UD-F-23-14-0-1
17	17-UD-F-23-0-0	UD	F	23	2	0	0	0	VT	LF			0	0	0	VT	IF			0	0	4	0	4		WR	17-UD-F-23-0-0-2
17	17-UD-F-23-1-45	UD	F	23	3	1	45	0	VT	POR			1	45	0	VT	P			1	45	4	0	4		WR	17-UD-F-23-1-45-3
17	17-UD-F-23-7-55	UD	F	23	4	7	54-67	0																			

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report										EEL Probe Up										Recommended Repairs										Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Thickness	Depth or Topside	Indication: X (in)	Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Repair: X (in)	Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair type (Patch, Weld, Cap)							
17	17-UD-F-24-7-98	UD	F	24	5	1-14	98	VT	POR				7	98	24	0	24	7	98	24	0	24	7	98	24	0	24	0	24	WR	17-UD-F-24-7-98-2				
17	17-UD-E-1-9-24	UD	E	1	1	0-18	0-48	VT	POR				9	24	0	24		9	30	0	60	60	9	30	0	60	60	60	WR	17-UD-E-1-9-30-1					
17	17-UD-E-1-0-18	UD	E	1	2	0	0-36	VT	POR				0	18	0	18		0	18	0	38	38	0	18	0	38	38	38	WR	17-UD-E-1-0-18-2					
17	17-UD-E-1-0-0	UD	E	1	3	0	0	VT	LF				0	0	0	0		0	0	0	2	2	0	0	2	0	2	2	WR	17-UD-E-1-0-0-3					
17	17-UD-E-1-78-24	UD	E	1	4	78	0-48	VT	POR				78	24	0	24		78	30	0	60	60	78	30	0	60	60	60	WR	17-UD-E-1-78-30-4					
17	17-UD-E-1-0-60	UD	E	1	5	78	60	VT	POR				0	60	0	60		0	60	0	2	2	0	60	0	2	2	2	WR	17-UD-E-1-0-60-5					
17	17-UD-E-1-0-72	UD	E	1	6	78	72	VT	POR				0	72	0	72		0	72	0	2	2	0	72	0	2	2	2	WR	17-UD-E-1-0-72-6					
17	17-UD-E-1-0-87	UD	E	1	7	78	85-90	VT	POR				0	87	0	87		0	87	0	7	7	0	87	0	7	7	7	WR	17-UD-E-1-0-87-7					
17	17-UD-E-1-56-84	UD	E	1	8	0	84	VT	POR				56	84	0	84		56	84	0	2	2	56	84	0	2	2	2	WR	17-UD-E-1-56-84-8					
17	17-UD-E-1-45-130	UD	E	1	9	0	130	VT	POR				45	130	0	130		45	130	0	2	2	45	130	0	2	2	2	WR	17-UD-E-1-45-130-9					
17	17-UD-E-1-44-134	UD	E	1	10	0	134	VT	UC				44	134	0	134		44	134	0	2	2	44	134	0	2	2	2	WR	17-UD-E-1-44-134-10					
17	17-UD-E-1-36-156	UD	E	1	11	2	156	VT	POR				36	156	2	0	2	36	156	2	0	2	36	156	2	0	2	2	WR	17-UD-E-1-36-156-11					
17	17-UD-E-1-41-146	UD	E	1	12	41	146	VT	POR				41	146	0	146		41	146	0	2	2	41	146	0	2	2	2	WR	17-UD-E-1-41-146-12					
17	17-UD-E-1-28-156	UD	E	1	13	28	156	VT	POR				28	156	2	0	2	28	156	2	0	2	28	156	2	0	2	2	WR	17-UD-E-1-28-156-13					
17	17-UD-E-2-0-28	UD	E	2	1	0	6-51	VT	POR				0	28	0	28		0	28	0	46	46	0	28	0	46	46	46	WR	17-UD-E-2-0-28-1					
17	17-UD-E-2-9-27	UD	E	2	2	0-18	0-54	VT	POR				9	27	0	27		9	27	0	56	56	0	27	0	56	56	56	WR	17-UD-E-2-9-27-2					
17	17-UD-E-2-55-12	UD	E	2	3	55	12	VT	DENT				55	12	12	0	38		55	12	12	0	38		113	38	38	PP	17-UD-E-2-55-12-3						
17	17-UD-E-2-64-0	UD	E	2	5	64	0	VT	POR				64	0	2	0	2	64	0	2	0	2	64	0	2	0	2	2	WR	17-UD-E-2-64-0-4					
17	17-UD-E-2-68-26	UD	E	2	6	68	26	VT	POR				68	26	0	2	2	68	26	0	2	2	68	26	0	2	2	2	WR	17-UD-E-2-68-26-5					
17	17-UD-E-2-63-41	UD	E	2	7	63	41	VT	POR				63	41	0	2	2	63	41	0	2	2	63	41	0	2	2	2	WR	17-UD-E-2-63-41-6					
17	17-UD-E-2-78-0	UD	E	2	8	78	0	VT	POR				78	0	2	0	2	78	0	2	0	2	78	0	2	0	2	2	WR	17-UD-E-2-78-0-7					
17	17-UD-E-2-60-60	UD	E	2	9	60	60	VT	POR				60	60	0	2	2	60	60	0	2	2	60	60	0	2	2	2	WR	17-UD-E-2-60-60-8					
17	17-UD-E-2-0-65	UD	E	2	10	0	65	VT	POR				0	65	0	2	2	0	65	0	2	2	0	65	0	2	2	2	WR	17-UD-E-2-0-65-9					
17	17-UD-E-2-0-107	UD	E	2	11	0	107	VT	POR				0	107	0	2	2	0	107	0	2	2	0	107	0	2	2	2	WR	17-UD-E-2-0-107-10					
17	17-UD-E-3-18-6	UD	E	3	1	18	0-12	VT	LF				18	6	0	0	0	18	10	0	0	0	18	10	0	0	0	0	WR	17-UD-E-3-18-10-1					
17	17-UD-E-3-7-43	UD	E	3	4	7	43	VT	POR				7	43	0	2	2	7	43	0	2	2	7	43	0	2	2	2	WR	17-UD-E-3-7-43-2					
17	17-UD-E-3-4-43	UD	E	3	5	4	43	VT	POR				4	43	0	2	2	4	43	0	2	2	4	43	0	2	2	2	WR	17-UD-E-3-4-43-3					
17	17-UD-E-3-0-35	UD	E	3	6	0	35	VT	POR				0	35	0	2	2	0	32	0	12	12	0	32	0	12	12	12	WR	17-UD-E-3-0-32-4					
17	17-UD-E-3-78-36	UD	E	3	11	78	24-48	VT	POR				78	36	0	26	26	78	36	0	26	26	78	36	0	26	26	26	WR	17-UD-E-3-78-36-5					
17	17-UD-E-3-45-38	UD	E	3	12	45	38	VT	DENT				45	38	12	0	38		45	38	12	0	38		113	38	38	PP	17-UD-E-3-45-38-6						
17	17-UD-E-3-53-81	UD	E	3	16	48-58	60-103	VT	POR				53	81	0	45	45	53	81	0	45	45	53	81	0	45	45	45	WR	17-UD-E-3-53-81-7					
17	17-UD-E-3-45-134	UD	E	3	19	45	134	VT	POR				45	134	0	10	10	45	134	0	10	10	45	134	0	10	10	10	WR	17-UD-E-3-45-134-8					
17	17-UD-E-3-48-117	UD	E	3	20	48	117	VT	POR				48	117	0	4	4	48	117	0	4	4	48	117	0	4	4	4	WR	17-UD-E-3-48-117-9					
17	17-UD-E-4-9-36	UD	E	4	1	0-18	0-60	VT	POR				9	36	0	60	60	9	30	0	60	60	9	30	0	60	60	60	WR	17-UD-E-4-9-30-1					
17	17-UD-E-4-78-18	UD	E	4	2	78	0-36	VT	POR				78	18	0	36	36	78	18	0	36	36	78	18	0	36	36	36	WR	17-UD-E-4-78-18-2					
17	17-UD-E-4-78-59	UD	E	4	3	78	40-78	VT	POR				78	59	0	38	38	78	59	0	38	38	78	59	0	38	38	38	WR	17-UD-E-4-78-59-3					
17	17-UD-E-4-0-84	UD	E	4	5	0	60-108	VT	POR				0	84	0	48	48	0	84	0	48	48	0	84	0	48	48	48	WR	17-UD-E-4-0-84-4					
17	17-UD-E-4-38-156	UD	E	4	6	0	156	VT	POR/UC				38	156	12	0	12		33	156	12	0	12			12	12	12	WR	17-UD-E-4-33-156-5					
17	17-UD-E-4-0-156	UD	E	4	7	38	156	VT	POR				0	156	12	0	12		6	156	12	0	12			12	12	12	WR	17-UD-E-4-6-156-6					
17	17-UD-E-5-9-30	UD	E	5	1	0-18	0-60	VT	POR/UC/LF				9	30	0	60	60	9	30	0	60	60	9	30	0	60	60	60	WR	17-UD-E-5-9-30-1					
17	17-UD-E-5-44-35	UD	E	5	2	44	35	VT	DENT				44	35	12	12	48		44	35	12	12	48		144	48	48	PP	17-UD-E-5-44-35-2						
17	17-UD-E-5-22-0	UD	E	5	4	22	0	VT	POR				22	0	2	0	2		22	0	2	0	2			2	2	2	WR	17-UD-E-5-22-0-3					
17	17-UD-E-5-78-0	UD	E	5	5	78	0	VT	POR				78	0	2	0	2		78	0	2	0	2			2	2	2	WR	17-UD-E-5-78-0-4					
17	17-UD-E-5-70-17	UD	E	5	6	70	17	VT	POR				70	17	0	2	2		70	17	0	2	2			2	2	2	WR	17-UD-E-5-70-17-5					
17	17-UD-E-5-65-38	UD	E	5	7	65	38	VT	POR				65	38	0	2	2		65	38	0	2	2			2	2	2	WR	17-UD-E-5-65-38-6					
17	17-UD-E-5-60-52	UD	E	5	8	60	52	VT	POR				60	52	0	2	2		60	52	0	2	2			2	2	2	WR	17-UD-E-5-60-52-7					
17	17-UD-E-5-58-67	UD	E	5	9	58	67	VT	POR				58	67	0	2	2		58	67	0	2	2			2	2	2	WR	17-UD-E-5-58-67-8					
17	17-UD-E-5-0-65	UD	E	5	10	0	60-70	VT	POR				0	65	0	12	12		0	65	0	12	12			12	12	12	WR	17-UD-E-5-0-65-9					
17	17-UD-E-5-0-85	UD	E	5	11	0	84-87	VT	POR/UC				0	85	0	6	6		0	86	0	6	6			6	6	6	WR	17-UD-E-5-0-86-10					
17	17-UD-E-5-24-134	UD	E	5	13	24	134	VT	DENT				24	134	12	12	48		24	134	12	12	48		144	48	48	PP	17-UD-E-5-24-134-11						
17	17-UD-E-5-26-120	UD	E	5	14	26	120	VT	DENT				26	120	16	12	56		32	20	16	12	56		192	56	56</								

Enterprise Engineering Inc.
Red Hill Tank 17 Inspection

MASTER TABLE
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Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report										EEL Prove Up						Recommended Repairs								Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift (in)	Center of Indication X (in)	Center of Indication Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair X (in)	Center of Repair Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)					
17	17-UD-E-6-21-24	UD	E	6	5	21	24	VT	DENT			21	24	VT	D			21	24	12	12	48	144	PP	17-UD-E-6-21-24-5				
17	17-UD-E-6-68-12	UD	E	6	6	68	12	VT	LF/POR			68	12	VT	P			68	12	20	0	20		WR	17-UD-E-6-68-12-6				
17	17-UD-E-6-56-0	UD	E	6	7	56	0	VT	POR			56	0	VT	P			56	0	4	0	4		WR	17-UD-E-6-56-0-7				
17	17-UD-E-6-78-0	UD	E	6	8	78	0	VT	POR			78	0	VT	P			78	2	0	4	4		WR	17-UD-E-6-78-2-8				
17	17-UD-E-6-78-44	UD	E	6	9	78	28-60	VT	F/UC/POR			78	44	VT	UC			78	44	0	36	36		WR	17-UD-E-6-78-44-9				
17	17-UD-E-6-70-93	UD	E	6	10	70	84-102	VT	UC/POR			70	93	VT	UC			70	93	0	20	20		WR	17-UD-E-6-70-93-10				
17	17-UD-E-6-0-75	UD	E	6	11	0	67-84	VT	POR			0	75	VT	P			0	75	0	20	20		WR	17-UD-E-6-0-75-11				
17	17-UD-E-6-0-115	UD	E	6	12	0	94-136	VT	POR			0	115	VT	P			0	115	0	44	44		WR	17-UD-E-6-0-115-12				
17	17-UD-E-6-36-156	UD	E	6	14	36	156	VT	POR/TC	0.250		36	156	VT	P			36	156	4	0	4		WR	17-UD-E-6-36-156-13				
17	17-UD-E-7-0-32	UD	E	7	1	0	4-60	VT	UC/POR	0.060		0	32	VT	UC			0	32	0	60	60		WR	17-UD-E-7-0-30-1				
17	17-UD-E-7-18-30	UD	E	7	2	18	0-60	VT	UC/POR			18	30	VT	UC			9	32	0	67	67		WR	17-UD-E-7-9-32-2				
17	17-UD-E-7-48-0	UD	E	7	3	48	0	VT	POR			48	0	VT	P			48	0	4	0	4		WR	17-UD-E-7-48-0-3				
17	17-UD-E-7-78-31	UD	E	7	4	78	27-36	VT	POR			78	31	VT	P			78	32	0	12	12		WR	17-UD-E-7-78-32-4				
17	17-UD-E-7-78-48	UD	E	7	5	78	48	VT	POR			78	48	VT	P			78	48	0	4	4		WR	17-UD-E-7-78-48-5				
17	17-UD-E-7-54-105	UD	E	7	6	54	96-115	VT	POR			54	105	VT	P			54	105	0	24	24		WR	17-UD-E-7-54-105-6				
17	17-UD-E-7-14-156	UD	E	7	7	14	156	VT	POR			14	156	VT	P			14	156	4	0	4		WR	17-UD-E-7-14-156-7				
17	17-UD-E-7-0-136	UD	E	7	8	0	136	VT	POR			0	136	VT	P			0	136	0	4	4		WR	17-UD-E-7-0-136-8				
17	17-UD-E-7-35-156	UD	E	7	9	33-37	156	VT	LF			35	156	VT	IF			35	156	8	0	8		WR	17-UD-E-7-35-156-9				
17	17-UD-E-8-18-0	UD	E	8	1	18	0	VT	POR			18	0	VT	P			18	0	0	4	4		WR	17-UD-E-8-18-0-1				
17	17-UD-E-8-18-11	UD	E	8	2	18	11	VT	POR			18	11	VT	P			18	11	0	4	4		WR	17-UD-E-8-18-11-2				
17	17-UD-E-8-36	UD	E	8	3	0-10	25-48	VT	POR			5	36	VT	P			5	36	0	24	24		WR	17-UD-E-8-36-3				
17	17-UD-E-8-0-60	UD	E	8	4	0	60	VT	POR			0	60	VT	P			0	60	0	4	4		WR	17-UD-E-8-0-60-4				
17	17-UD-E-8-30-0	UD	E	8	5	30	0	VT	POR			30	0	VT	P			30	0	6	0	6		WR	17-UD-E-8-30-0-5				
17	17-UD-E-8-42-0	UD	E	8	6	42	0	VT	POR			42	0	VT	P			42	0	4	0	4		WR	17-UD-E-8-42-0-6				
17	17-UD-E-8-78-33	UD	E	8	7	78	6-63	VT	POR			78	33	VT	P			78	34	0	60	60		WR	17-UD-E-8-78-34-7				
17	17-UD-E-8-61-0	UD	E	8	8	46-76	0	VT	POR			61	0	VT	P			61	0	30	0	30		WR	17-UD-E-8-61-0-8				
17	17-UD-E-8-0-103	UD	E	8	9	0	94-113	VT	POR			0	103	VT	P			0	104	0	20	20		WR	17-UD-E-8-0-104-9				
17	17-UD-E-8-70-99	UD	E	8	10	70	84-114	VT	POR			70	99	VT	P			70	99	0	30	30		WR	17-UD-E-8-70-99-10				
17	17-UD-E-8-0-144	UD	E	8	11	0	144	VT	POR			0	144	VT	P			0	144	0	4	4		WR	17-UD-E-8-0-144-11				
17	17-UD-E-8-35-156	UD	E	8	12	35	156	VT	POR			35	156	VT	P			35	156	4	0	4		WR	17-UD-E-8-35-156-12				
17	17-UD-E-8-38-156	UD	E	8	13	38	156	VT	POR			38	156	VT	P			38	156	8	0	8		WR	17-UD-E-8-38-156-13				
17	17-UD-E-9-8-0	UD	E	9	1	8	0	VT	UC	0.080		8	0	VT	UC			8	0	4	0	4		WR	17-UD-E-9-8-0-1				
17	17-UD-E-9-18-0	UD	E	9	2	18	0	VT	POR			18	0	VT	P			18	0	4	0	4		WR	17-UD-E-9-18-0-2				
17	17-UD-E-9-0-18	UD	E	9	3	0	18	VT	POR			0	18	VT	P			0	18	0	4	4		WR	17-UD-E-9-0-18-3				
17	17-UD-E-9-12-36	UD	E	9	4	12	24-48	VT	UC/POR	0.100		12	36	VT	UC			12	36	0	24	24		WR	17-UD-E-9-12-36-4				
17	17-UD-E-9-0-44	UD	E	9	5	0	39-49	VT	POR			0	44	VT	P			0	44	0	12	12		WR	17-UD-E-9-0-44-5				
17	17-UD-E-9-4-54	UD	E	9	6	4	54	VT	POR			4	54	VT	P			4	54	0	4	4		WR	17-UD-E-9-4-54-6				
17	17-UD-E-9-0-60	UD	E	9	7	0	60	VT	LF			0	60	VT	IF			0	60	0	4	4		WR	17-UD-E-9-0-60-7				
17	17-UD-E-9-78-31	UD	E	9	8	78	19-43	VT	UC/POR			78	31	VT	UC			78	31	0	24	24		WR	17-UD-E-9-78-31-8				
17	17-UD-E-9-72-72	UD	E	9	9	72	66-78	VT	POR			72	72	VT	P			72	72	0	12	12		WR	17-UD-E-9-72-72-9				
17	17-UD-E-9-0-98	UD	E	9	10	0	84-112	VT	POR			0	98	VT	P			0	99	0	24	24		WR	17-UD-E-9-0-99-10				
17	17-UD-E-9-70-92	UD	E	9	11	70	85-99	VT	POR			70	92	VT	P			70	93	0	24	24		WR	17-UD-E-9-70-93-11				
17	17-UD-E-9-0-118	UD	E	9	12	0	103-133	VT	UC/POR	0.100		0	118	VT	UC			0	118	0	24	24		WR	17-UD-E-9-0-118-12				
17	17-UD-E-9-17-156	UD	E	9	13	17	156	VT	POR			17	156	VT	P			17	156	14	0	14		WR	17-UD-E-9-17-156-13				
17	17-UD-E-10-9-0	UD	E	10	1	0-18	0	VT	UC/POR	0.090		9	0	VT	UC			9	0	20	0	20		WR	17-UD-E-10-9-0-1				
17	17-UD-E-10-0-44	UD	E	10	2	0	21-68	VT	UC/POR	0.090		0	44	VT	UC			0	45	0	46	46		WR	17-UD-E-10-0-45-2				
17	17-UD-E-10-0-42	UD	E	10	3	0	17-68	VT	UC/POR	0.090		0	42	VT	UC			0	43	0	40	40		WR	17-UD-E-10-0-43-3				
17	17-UD-E-10-18-0	UD	E	10	4	18	0	VT	LF			18	0	VT	IF			18	0	4	0	4		WR	17-UD-E-10-18-0-4				
17	17-UD-E-10-48-0	UD	E	10	5	48	0	VT	POR			48	0	VT	P			48	0	4	0	4		WR	17-UD-E-10-48-0-5				
17	17-UD-E-10-78-3	UD	E	10	6	78	3	VT	LF			78	3	VT	IF			78	3	0	4	4		WR	17-UD-E-10-78-3-6				
17	17-UD-E-10-70-12	UD	E	10	7	70	12	VT	POR			70	12	VT	P			70	12	0	20	20		WR	17-UD-E-10-70-12-7				
17	17-UD-E-10-78-39	UD	E	10	8	78	13-65	VT	JC/POR/UF	0.090		78	39	VT	UC			78	39	0	54	54		WR	17-UD-E-10-78-39-8				
17	17-UD-E-10-0-84	UD	E	10	9	0	84	VT	POR			0	84	VT	P			0	84	0	4	4		WR	17-UD-E-10-0-84-9				
17	17-UD-E-10-74-104	UD	E	10	10	74	90-118	VT	POR			74	104	VT	P			74	104	0	30	30		WR	17-UD-E-10-74-104-10				
17	17-UD-E-10-27-119	UD	E	10	11	27	119	VT	DENT			27	119	VT	D			27	119	12	12	48	144	PP	17-UD-E-10-27-119-11				
17	17-UD-E-10-0-135	UD	E	10	12	0	120-150	VT	POR			0	135	VT	P			0	135	0	34	34		WR	17-UD-E-10-0-135-12				

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report										EET Prove Up						Recommended Repairs						Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Ind ID on Plate	X Coordinate (in)	Y Coordinate (in)	Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift (in)	Indication X (in)	Indication Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Indication X (in)	Center of Indication Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	
17	17-UD-E-10-36-156	UD	E	10	13	36	156	VT	POR			36	156	VT	P	P			36	156	4	0	4		WR	17-UD-E-10-36-156-13
17	17-UD-E-10-40-148	UD	E	10	14	40	148	VT	POR			40	148	VT	P	P			40	148	0	4	4		WR	17-UD-E-10-40-148-14
17	17-UD-E-11-0-31	UD	E	11	1	0	27-35	VT	POR			0	31	VT	P	P			0	31	0	12	12		WR	17-UD-E-11-0-31-1
17	17-UD-E-11-9-33	UD	E	11	2	0-18	0-66	VT	F/POR/UC	0.090		0	33	VT	P	P			9	33	0	60	60		WR	17-UD-E-11-9-33-2
17	17-UD-E-11-25-0	UD	E	11	3	25	0	VT	POR			25	0	VT	P	P			25	0	4	0	4		WR	17-UD-E-11-25-0-3
17	17-UD-E-11-76-28	UD	E	11	4	76	20-36	VT	POR			76	28	VT	P	P			76	28	0	20	20		WR	17-UD-E-11-76-28-4
17	17-UD-E-11-75-52	UD	E	11	5	75	44-60	VT	UC/POR			75	52	VT	UC	UC			75	52	0	18	18		WR	17-UD-E-11-75-52-5
17	17-UD-E-11-0-72	UD	E	11	6	0	72	VT	POR			0	72	VT	P	P			0	72	0	4	4		WR	17-UD-E-11-0-72-6
17	17-UD-E-11-0-96	UD	E	11	7	0	96	VT	POR			0	96	VT	P	P			0	96	0	4	4		WR	17-UD-E-11-0-96-7
17	17-UD-E-11-0-114	UD	E	11	8	0	114	VT	POR			0	114	VT	P	P			0	114	0	4	4		WR	17-UD-E-11-0-114-8
17	17-UD-E-11-0-141	UD	E	11	9	0	122-160	VT	POR			0	141	VT	P	P			0	141	0	40	40		WR	17-UD-E-11-0-141-9
17	17-UD-E-11-4-54	UD	E	11				VT	POR			4	54	VT	P	P			4	54	0	4	4		WR	17-UD-E-11-4-54-10
17	17-UD-E-12-18-18	UD	E	12	1	18	0-36	VT	POR			18	18	VT	P	P			18	18	0	38	38		WR	17-UD-E-12-18-19-1
17	17-UD-E-12-0-16	UD	E	12	2	0	3-29	VT	POR			0	16	VT	P	P			0	16	0	24	24		WR	17-UD-E-12-0-16-2
17	17-UD-E-12-2-51	UD	E	12	3	0-5	42-60	VT	UC/POR	0.110		2	51	VT	UC	UC			3	51	0	20	20		WR	17-UD-E-12-3-51-3
17	17-UD-E-12-19-40	UD	E	12	4	19	40	VT	DENT			19	40	VT	D	D			19	40	12	12	48	144	PP	17-UD-E-12-19-40-4
17	17-UD-E-12-64-0	UD	E	12	5	64	0	VT	POR			64	0	VT	P	P			64	0	4	0	4		WR	17-UD-E-12-64-0-5
17	17-UD-E-12-68-31	UD	E	12	6	68	31	VT	POR			68	31	VT	P	P			68	31	0	4	4		WR	17-UD-E-12-68-31-6
17	17-UD-E-12-0-78	UD	E	12	7	0	60-96	VT	POR			0	78	VT	P	P			0	78	0	36	36		WR	17-UD-E-12-0-78-7
17	17-UD-E-12-64-88	UD	E	12	8	64	72-104	VT	POR			64	88	VT	P	P			64	88	0	30	30		WR	17-UD-E-12-64-88-8
17	17-UD-E-12-9-112	UD	E	12	9	9	112	VT	GOUGE	0.080		9	112	VT	G	G			9	112	6	0	19	28	PP	17-UD-E-12-9-112-9
17	17-UD-E-12-37-116	UD	E	12	10	37	116	VT	GOUGE	0.080		37	116	VT	G	G			37	116	6	0	19	28	PP	17-UD-E-12-37-116-10
17	17-UD-E-12-0-112	UD	E	12	11	0	90-134	VT	POR			0	112	VT	P	P			0	112	0	40	40		WR	17-UD-E-12-0-112-11
17	17-UD-E-12-0-152	UD	E	12	12	0	152	VT	POR			0	152	VT	P	P			0	152	0	4	4		WR	17-UD-E-12-0-152-12
17	17-UD-E-12-156-9	UD	E	12	13	156	9	VT	POR			156	9	VT	P	P			156	9	4	0	4		WR	17-UD-E-12-156-9-13
17	17-UD-E-12-156-18	UD	E	12	14	156	18	VT	POR			156	18	VT	P	P			156	18	4	0	4		WR	17-UD-E-12-156-18-14
17	17-UD-E-13-0-38	UD	E	13	1	0	70	VT	UC/POR	0.090		0	38	VT	UC	UC			0	38	4	76	80		WR	17-UD-E-13-0-38-1
17	17-UD-E-13-18-38	UD	E	13	2	0-18	70	VT	POR			18	38	VT	P	P			18	38	0	76	76		WR	17-UD-E-13-18-38-2
17	17-UD-E-13-24-0	UD	E	13	3	24	0	VT	UC/POR	0.090		24	0	VT	UC	UC			24	0	24	0	24		WR	17-UD-E-13-24-0-3
17	17-UD-E-13-62-0	UD	E	13	5	62	0	VT	POR			62	0	VT	P	P			62	0	6	0	6		WR	17-UD-E-13-62-0-4
17	17-UD-E-13-0-100	UD	E	13	7	0	96-105	VT	POR			0	100	VT	P	P			0	100	0	12	12		WR	17-UD-E-13-0-101-5
17	17-UD-E-13-12-92	UD	E	13	8	12	92	VT	DENT			12	92	VT	D	D			12	92	6	0	19	28	PP	17-UD-E-13-12-92-6
17	17-UD-E-13-21-90	UD	E	13	9	21	90	VT	GOUGE	0.090		21	90	VT	G	G			21	90	0	2	2		WR	17-UD-E-13-21-90-7
17	17-UD-E-13-54-42	UD	E	13	10	54	72-76	VT	POR			54	42	VT	P	P			54	42	0	84	84		WR	17-UD-E-13-54-42-8
17	17-UD-E-13-53-122	UD	E	13	11	53	90-116	VT	POR			53	122	VT	P	P			53	122	0	64	64		WR	17-UD-E-13-53-122-9
17	17-UD-E-13-0-130	UD	E	13	12	0	112-149	VT	POR			0	130	VT	P	P			0	130	0	28	28		WR	17-UD-E-13-0-130-10
17	17-UD-E-13-29-156	UD	E	13	13	27-31	156	VT	POR			29	156	VT	P	P			29	156	6	0	6		WR	17-UD-E-13-29-156-11
17	17-UD-E-14-0-24	UD	E	14	1	0	0-47	VT	LF/POR			0	24	VT	P	P			0	24	0	54	54		WR	17-UD-E-14-0-24-1
17	17-UD-E-14-18-26	UD	E	14	2	18	0-44	VT	POR			18	26	VT	P	P			18	26	0	54	54		WR	17-UD-E-14-18-26-2
17	17-UD-E-14-33-62	UD	E	14	3	33	0	VT	POR			33	62	VT	P	P			33	62	66	0	66		WR	17-UD-E-14-33-62-3
17	17-UD-E-14-38-18	UD	E	14	6	38	4-30	VT	POR			38	18	VT	P	P			38	18	0	40	40		WR	17-UD-E-14-38-18-4
17	17-UD-E-14-60-10	UD	E	14	8	60	10	VT	POR			60	10	VT	P	P			60	10	20	0	20		WR	17-UD-E-14-60-10-11
17	17-UD-E-14-40-35	UD	E	14	9	40	35	VT	DENT			40	35	VT	D	D			40	35	6	0	19	28	PP	17-UD-E-14-40-35-5
17	17-UD-E-14-54-104	UD	E	14	11	54	95-114	VT	POR			54	104	VT	P	P			54	104	0	24	24		WR	17-UD-E-14-54-104-6
17	17-UD-E-14-27-119	UD	E	14	12	27	119	VT	GOUGE	0.150		27	119	VT	G	G			27	119	8	8	32	64	PP	17-UD-E-14-27-119-7
17	17-UD-E-14-0-84	UD	E	14	13	0	48-88	VT	LF/POR			0	84	VT	P	P			0	84	0	84	84		WR	17-UD-E-14-0-84-8
17	17-UD-E-14-0-156	UD	E	14	15	0	156	VT	POR			0	156	VT	P	P			0	156	38	0	38		WR	17-UD-E-14-0-156-9
17	17-UD-E-14-38-138	UD	E	14	18	38	142	VT	POR			38	138	VT	P	P			38	138	0	36	36		WR	17-UD-E-14-38-138-10
17	17-UD-E-15-0-78	UD	E	15	1	0	0-24	VT	POR			0	78	VT	P	P			0	78	0	156	156		WR	17-UD-E-15-0-78-1
17	17-UD-E-15-18-32	UD	E	15	3	18	0-58	VT	UC/POR	0.090		18	32	VT	UC	UC			18	32	0	64	64		WR	17-UD-E-15-18-32-2
17	17-UD-E-15-8-0	UD	E	15	4	8	0	VT	LF			8	0	VT	IF	IF			8	0	6	6	12		WR	17-UD-E-15-8-0-3
17	17-UD-E-15-30-0	UD	E	15	5	27-33	0	VT	POR			30	0	VT	P	P			30	0	8	0	8		WR	17-UD-E-15-30-0-4
17	17-UD-E-15-54-10	UD	E	15	6	54	10	VT	DENT			54	10	VT	D	D			54	10	6	0	19	28	PP	17-UD-E-15-54-10-5
17	17-UD-E-15-78-78	UD	E	15	7	78	0-60	VT	UC/POR	0.110		78	78	VT	UC	UC			78	78	0	156	156		WR	17-UD-E-15-78-78-6
17	17-UD-E-15-2-156	UD	E	15	12	2	156	VT	POR			2	156	VT	P	P			2	156	6	0	6		WR	17-UD-E-15-2-156-7
17	17-UD-E-16-0-20	UD	E	16	1	0	36	VT	POR			0	20	VT	P	P			0	20	0	40	40		WR	17-UD-E-16-0-20-1

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report										EEL Prove Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside Indication(in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)		
17	17-UD-E-16-18-28	UD	E	16	2	18	48	VT	LF/POR			18	28	VT	P	P		18	28	0	56	56			WR	17-UD-E-16-18-28-2
17	17-UD-E-16-5-76	UD	E	16	3	5	50-58	VT	DENT			5	76	VT	D	D		5	76	0	62	62			WR	17-UD-E-16-5-76-3
17	17-UD-E-16-24-44	UD	E	16	4	24	44	VT	DENT			24	44	VT	D	D		24	44	8	8	32	64		PP	17-UD-E-16-24-44-4
17	17-UD-E-16-78-20	UD	E	16	5	78	0-36	VT	POR			78	20	VT	P	P		78	20	0	40	40			WR	17-UD-E-16-78-20-5
17	17-UD-E-16-58-64	UD	E	16	7	58	60-68	VT	POR			58	64	VT	P	P		58	64	0	14	14			WR	17-UD-E-16-58-64-6
17	17-UD-E-16-51-134	UD	E	16	8	51	108	VT	POR			51	134	VT	P	P		51	134	0	60	60			WR	17-UD-E-16-51-134-7
17	17-UD-E-16-14-120	UD	E	16	10	14	120	VT	DENT			14	120	VT	D	D		14	120	6	0	19	28		PP	17-UD-E-16-14-120-8
17	17-UD-E-16-0-112	UD	E	16	11	0	112	VT	POR			0	112	VT	P	P		0	112	0	6	6			WR	17-UD-E-16-0-112-9
17	17-UD-E-16-0-122	UD	E	16	12	0	122	VT	POR			0	122	VT	P	P		0	122	0	6	6			WR	17-UD-E-16-0-122-10
17	17-UD-E-17-0-21	UD	E	17	1	0	0-36	VT	F/UC/POR	0.090		0	21	VT	UC	UC		0	21	0	42	42			WR	17-UD-E-17-0-21-1
17	17-UD-E-17-18-23	UD	E	17	2	18	0-42	VT	POR			18	23	VT	P	P		18	23	0	46	46			WR	17-UD-E-17-18-23-2
17	17-UD-E-17-9-0	UD	E	17	3	0-18	0	VT	POR			9	0	VT	P	P		28	0	56	0	56	0		WR	17-UD-E-17-28-0-3
17	17-UD-E-17-78-18	UD	E	17	5	78	30	VT	POR			78	18	VT	P	P		78	18	0	36	36			WR	17-UD-E-17-78-18-4
17	17-UD-E-17-57-55	UD	E	17	6	57	55	VT	UC	0.125		57	55	VT	UC	UC		57	55	0	8	8			WR	17-UD-E-17-57-55-5
17	17-UD-E-17-20-48	UD	E	17	7	20	48	VT	DENT			20	48	VT	D	D		20	48	6	0	19	28		PP	17-UD-E-17-20-48-6
17	17-UD-E-17-0-106	UD	E	17	8	0	106	VT	GOUGE	0.120		0	106	VT	G	G		0	106	0	12	12			WR	17-UD-E-17-0-106-7
17	17-UD-E-17-35-113	UD	E	17	9	35	113	VT	DENT			35	113	VT	D	D		35	113	6	0	19	28		PP	17-UD-E-17-35-113-8
17	17-UD-E-17-54-101	UD	E	17	10	54	101	VT	POR			54	101	VT	P	P		54	101	0	6	6			WR	17-UD-E-17-54-101-9
17	17-UD-E-17-40-134	UD	E	17	11	40	112-156	VT	UC/POR	0.090		40	134	VT	UC	UC		40	134	0	50	50			WR	17-UD-E-17-40-134-10
17	17-UD-E-17-0-130	UD	E	17	12	0	130	VT	POR			0	130	VT	P	P		0	130	0	6	6			WR	17-UD-E-17-0-130-11
17	17-UD-E-17-0-146	UD	E	17	13	0	146	VT	POR			0	146	VT	P	P		0	146	0	6	6			WR	17-UD-E-17-0-146-12
17	17-UD-E-17-34-100	UD	E	17				VT	LF/POR			34	100	VT	D	D		34	100	8	8	32	64		PP	17-UD-E-17-34-100-13
17	17-UD-E-18-0-26	UD	E	18	1	0	48	VT	JC/UF/POR	0.140		18	26	VT	P	P		18	26	0	52	52			WR	17-UD-E-18-0-26-1
17	17-UD-E-18-18-26	UD	E	18	2	18	48	VT	UC/POR	0.090		18	26	VT	UC	UC		18	26	0	52	52			WR	17-UD-E-18-18-26-2
17	17-UD-E-18-40-0	UD	E	18	3	18	53	VT	UC/POR	0.090		18	53	VT	UC	UC		18	53	0	48	48			WR	17-UD-E-18-40-0-3
17	17-UD-E-18-78-25	UD	E	18	4	78	0-51	VT	JC/UF/POR	0.090		78	25	VT	UC	UC		78	25	0	130	130			WR	17-UD-E-18-78-25-4
17	17-UD-E-18-0-72	UD	E	18	6	0	60-84	VT	POR			0	72	VT	P	P		0	72	0	30	30			WR	17-UD-E-18-0-72-5
17	17-UD-E-18-0-110	UD	E	18	7	0	106-115	VT	UC/POR	0.090		0	110	VT	UC	UC		0	110	0	14	14			WR	17-UD-E-18-0-110-6
17	17-UD-E-18-0-156	UD	E	18	8	0	156	VT	LF			0	156	VT	IF	IF		0	156	4	4	8			WR	17-UD-E-18-0-156-7
17	17-UD-E-18-12-156	UD	E	18	9	6-19	156	VT	POR			12	156	VT	P	P		12	156	16	0	16			WR	17-UD-E-18-12-156-8
17	17-UD-E-18-34-156	UD	E	18	10	30-38	156	VT	LF/POR			34	156	VT	P	P		34	156	14	0	14			WR	17-UD-E-18-34-156-9
17	17-UD-E-19-0-32	UD	E	19	1	0	60	VT	JC/UF/POR			0	32	VT	UC	UC		0	32	0	34	34			WR	17-UD-E-19-0-32-1
17	17-UD-E-19-18-32	UD	E	19	2	18	60	VT	JC/UF/POR			18	32	VT	UC	UC		18	32	0	34	34			WR	17-UD-E-19-18-32-2
17	17-UD-E-19-78-32	UD	E	19	3	78	63	VT	UC/POR	0.130		78	32	VT	UC	UC		78	32	0	72	72			WR	17-UD-E-19-78-32-3
17	17-UD-E-19-32-74	UD	E	19	4	32	74	VT	GOUGE	0.190		32	74	VT	G	G		32	74	0	2	2			WR	17-UD-E-19-32-74-4
17	17-UD-E-19-55-72	UD	E	19	5	55	60-85	VT	POR			55	72	VT	P	P		55	72	0	30	30			WR	17-UD-E-19-55-72-5
17	17-UD-E-19-54-97	UD	E	19	6	54	97	VT	GOUGE	0.100		54	97	VT	G	G		54	97	0	2	2			WR	17-UD-E-19-54-97-6
17	17-UD-E-19-0-64	UD	E	19	7	0	63-75	VT	POR/TC	0.250		0	64	VT	P	P		0	64	0	20	20			WR	17-UD-E-19-0-64-7
17	17-UD-E-19-0-94	UD	E	19	8	0	86-102	VT	POR			0	94	VT	P	P		0	94	0	24	24			WR	17-UD-E-19-0-94-8
17	17-UD-E-19-0-156	UD	E	19	9	0	156	VT	LF/POR			0	156	VT	P	P		0	156	4	4	8			WR	17-UD-E-19-0-156-9
17	17-UD-E-19-14-156	UD	E	19	10	14	156	VT	POR			14	156	VT	P	P		14	156	6	6	12			WR	17-UD-E-19-14-156-10
17	17-UD-E-19-0-0	UD	E	19								0	0	VT	WI	WI		0	0	4	4	8			WR	17-UD-E-19-0-0-11
17	17-UD-E-19-16-0	UD	E	19								16	0	VT	WI	WI		16	0	32	0	32			WR	17-UD-E-19-16-0-12
17	17-UD-E-19-78-0	UD	E	19								78	0	VT	WI	WI		78	0	4	4	8			WR	17-UD-E-19-78-0-13
17	17-UD-E-20-0-27	UD	E	20	1	0	51	VT	LF/POR			0	27	VT	P	P		0	27	0	54	54			WR	17-UD-E-20-0-27-1
17	17-UD-E-20-9-27	UD	E	20	2	0-18	51	VT	LF/POR			9	27	VT	P	P		9	27	0	54	54			WR	17-UD-E-20-9-27-2
17	17-UD-E-20-39-0	UD	E	20	3	60-69	0	VT	POR			39	0	VT	P	P		39	0	78	0	78			WR	17-UD-E-20-39-0-3
17	17-UD-E-20-78-38	UD	E	20	5	78	0-72	VT	POR			78	38	VT	P	P		78	38	0	76	76			WR	17-UD-E-20-78-38-4
17	17-UD-E-20-0-98	UD	E	20	6	0	72-123	VT	POR			0	98	VT	P	P		0	98	0	56	56			WR	17-UD-E-20-0-98-5
17	17-UD-E-20-33-79	UD	E	20	7	33	79	VT	DENT			33	79	VT	D	D		33	79	8	8	32	64		PP	17-UD-E-20-33-79-6
17	17-UD-E-20-36-94	UD	E	20	8	36	94	VT	DENT			36	94	VT	D	D		36	94	6	0	19	28		PP	17-UD-E-20-36-94-7
17	17-UD-E-20-42-125	UD	E	20	9	42	125	VT	DENT			42	125	VT	D	D		42	125	8	8	32	64		PP	17-UD-E-20-42-125-8
17	17-UD-E-20-52-66	UD	E	20	10	52	66	VT	POR			52	66	VT	P	P		52	66	0	46	46			WR	17-UD-E-20-52-66-9
17	17-UD-E-20-0-132	UD	E	20	13	0	124-140	VT	POR/GOUGE			0	132	VT	G	G		0	132	0	20	20			WR	17-UD-E-20-0-132-10
17	17-UD-E-20-5-156	UD	E	20	14	5	156	VT	POR			5	156	VT	P	P		5	156	6	0	6			WR	17-UD-E-20-5-156-11
17	17-UD-E-20-36-156	UD	E	20	15	34-38	156	VT	JC/GOUGE			36	156	VT	G	G		36	156	8	0	8			WR	17-UD-E-20-36-156-12

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report										EEL Prove Up						Recommended Repairs						Repair Number: May Apply to Multiple Indications								
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID	on Plate	X	(in)	Coordinate Y	(in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift	Indication (in)	Center of Indication: X	(in)	Center of Indication: Y	(in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X	(in)	Center of Repair: Y		(in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)		
17	17-UD-E-21-34-0	UD	E	21	1	20-42	0	VT	POR						34	0	30	0	30	0	30	0	30	0	34	0	30	0	30	0	30	0	30	17-UD-E-21-34-0-1	
17	17-UD-E-21-56-0	UD	E	21	2	56	0	VT	POR						56	0	2	VT	RI						56	0	2	2	2	2	2	2	17-UD-E-21-56-0-2		
17	17-UD-E-21-69-0	UD	E	21	3	69	0	VT	POR						69	0	4	VT	UC						69	0	4	0	4	0	4	0	17-UD-E-21-69-0-3		
17	17-UD-E-21-18-2	UD	E	21	4	18	0-5	VT	POR						18	2	4	VT	P						18	3	4	8	8	8	8	8	17-UD-E-21-18-3-4		
17	17-UD-E-21-0-0	UD	E	21	5	0	0	VT	LF/POR						0	0	4	VT	LOF						0	0	4	4	4	4	4	4	17-UD-E-21-0-5		
17	17-UD-E-21-0-9	UD	E	21	6	0	0-10	VT	POR						0	9	0	VT	P						0	9	0	18	18	18	18	18	17-UD-E-21-0-9-6		
17	17-UD-E-21-10-45	UD	E	21	7	10	29-60	VT	POR						10	45	0	VT	P						10	45	0	36	36	36	36	36	17-UD-E-21-10-45-7		
17	17-UD-E-21-0-84	UD	E	21	8	0	72-96	VT	LF/POR						0	84	0	VT	IF						0	84	0	30	30	30	30	30	30	17-UD-E-21-0-84-8	
17	17-UD-E-21-54-79	UD	E	21	9	54	72-82	VT	POR						54	79	0	VT	P						54	79	0	14	14	14	14	14	17-UD-E-21-54-79-9		
17	17-UD-E-21-52-102	UD	E	21	10	52	95-100	VT	POR						52	102	0	VT	P						52	102	0	16	16	16	16	16	17-UD-E-21-52-102-10		
17	17-UD-E-21-0-128	UD	E	21	11	0	128	VT	POR						0	128	0	VT	P						0	128	0	4	4	4	4	4	4	17-UD-E-21-0-128-11	
17	17-UD-E-21-0-156	UD	E	21	12	0	156	VT	POR						0	156	4	VT	P						0	156	4	0	4	4	4	4	4	17-UD-E-21-0-156-12	
17	17-UD-E-21-14-156	UD	E	21	13	14	156	VT	POR						14	156	4	VT	P						14	156	4	0	4	4	4	4	4	17-UD-E-21-14-156-13	
17	17-UD-E-21-24-156	UD	E	21	14	24	156	VT	POR						24	156	4	VT	P						24	156	4	0	4	4	4	4	4	17-UD-E-21-24-156-14	
17	17-UD-E-21-38-156	UD	E	21	15	38	156	VT	POR						38	156	4	VT	P						38	156	4	4	8	8	8	8	8	17-UD-E-21-38-156-15	
17	17-UD-E-21-25-132	UD	E	21	16	25	132	VT	DENT						25	132	10	VT	D						25	132	10	10	40	40	40	40	100	17-UD-E-21-25-132-16	
17	17-UD-E-21-33-0	UD	E	21											33	0	2	VT	RI						33	0	2	2	2	2	2	2	2	17-UD-E-21-33-0-19	
17	17-UD-E-21-59-63	UD	E	21											59	63	0	VT	WI						59	63	0	24	24	24	24	24	24	17-UD-E-21-59-63-17	
17	17-UD-E-21-60-0	UD	E	21											60	0	4	VT	LOF						60	0	4	4	8	8	8	8	8	17-UD-E-21-60-0-18	
17	17-UD-E-22-18-0	UD	E	22	1	18	0	VT	LF/POR						18	0	40	VT	LOF						18	0	40	4	44	44	44	44	44	17-UD-E-22-18-0-1	
17	17-UD-E-22-54-0	UD	E	22	3	54	0	VT	POR						54	0	4	VT	P						54	0	4	0	4	4	4	4	4	17-UD-E-22-54-0-2	
17	17-UD-E-22-72-12	UD	E	22	4	72	12	VT	POR						72	12	19	0	VT	P					72	12	19	0	19	19	19	19	19	17-UD-E-22-72-12-3	
17	17-UD-E-22-59-54	UD	E	22	5	59	54	VT	DENT						59	54	10	VT	D						59	54	10	10	40	40	40	40	100	TSPP	17-UD-E-22-59-54-4
17	17-UD-E-22-18-26	UD	E	22	6	18	20-46	VT	POR						18	26	0	VT	P						18	26	0	52	52	52	52	52	52	17-UD-E-22-18-26-5	
17	17-UD-E-22-0-8	UD	E	22	7	0	0-14	VT	POR						0	8	0	VT	P						0	8	0	16	16	16	16	16	16	17-UD-E-22-0-8-6	
17	17-UD-E-22-0-52	UD	E	22	9	0	54-72	VT	LF/POR						0	52	0	VT	LOF						0	52	0	18	18	18	18	18	18	17-UD-E-22-0-52-7	
17	17-UD-E-22-12-74	UD	E	22	10	12	74	VT	GOUGE					0.090	12	74	0	VT	G						12	74	0	2	2	2	2	2	2	17-UD-E-22-12-74-8	
17	17-UD-E-22-0-132	UD	E	22	13	0	126	VT	POR						0	132	0	VT	P						0	132	0	48	48	48	48	48	48	17-UD-E-22-0-132-9	
17	17-UD-E-22-1-138	UD	E	22	14	1	138	VT	GOUGE					0.090	1	138	0	VT	G						1	138	0	2	2	2	2	2	2	17-UD-E-22-1-138-10	
17	17-UD-E-22-21-156	UD	E	22	16	18-24	156	VT	POR						21	156	16	0	VT	P					21	156	16	0	16	16	16	16	16	17-UD-E-22-21-156-11	
17	17-UD-E-22-1-121	UD	E	22											1	121	0	VT	G						1	121	0	2	2	2	2	2	2	17-UD-E-22-1-121-12	
17	17-UD-E-23-78-0	UD	E	23	1	78	0	VT	LF/POR						78	0	4	VT	P						78	0	4	4	8	8	8	8	8	17-UD-E-23-78-0-1	
17	17-UD-E-23-78-33	UD	E	23	2	78	31	VT	POR						78	33	0	VT	P						78	33	0	8	8	8	8	8	8	17-UD-E-23-78-33-2	
17	17-UD-E-23-56-0	UD	E	23	3	56	0	VT	UC/POR						56	0	8	0	VT	UC						56	0	8	8	8	8	8	8	17-UD-E-23-56-0-3	
17	17-UD-E-23-18-8	UD	E	23	4	18	0-17	VT	POR						18	8	0	VT	P						18	8	0	40	40	40	40	40	40	17-UD-E-23-18-10-5	
17	17-UD-E-23-0-0	UD	E	23	5	0	0	VT	POR						0	0	4	0	VT	P						0	4	4	8	8	8	8	8	17-UD-E-23-0-4	
17	17-UD-E-23-0-18	UD	E	23	7	0	16-26	VT	POR						0	18	0	VT	P						0	18	0	36	36	36	36	36	36	17-UD-E-23-0-18-6	
17	17-UD-E-23-0-72	UD	E	23	8	0	72	VT	POR						0	72	4	VT	P						0	72	4	4	8	8	8	8	8	17-UD-E-23-0-72-7	
17	17-UD-E-23-38-74	UD	E	23	10	38	74	VT	DENT						38	74	6	0	VT	D					38	74	6	0	19	19	19	19	28	PP	17-UD-E-23-38-74-8
17	17-UD-E-23-50-60	UD	E	23	11	50	60	VT	DENT						50	60	0	VT	G						50	60	0	2	2	2	2	2	2	17-UD-E-23-50-60-9	
17	17-UD-E-23-9-86	UD	E	23	12	9	86	VT	DENT						9	86	6	0	VT	D					9	86	6	0	19	19	19	19	28	PP	17-UD-E-23-9-86-10
17	17-UD-E-23-29-104	UD	E	23	13	29	104	VT	DENT						29	104	0	VT	G						29	104	0	2	2	2	2	2	2	17-UD-E-23-29-104-11	
17	17-UD-E-23-0-108	UD	E	23	14	0	128-144	VT	POR						0	108	0	VT	P						0	108	0	72	72	72	72	72	72	17-UD-E-23-0-108-12	
17	17-UD-E-23-6-141	UD	E	23	15	8	141	VT	POR						6	141	4	VT	P						6	141	4	6	10	10	10	10	10	17-UD-E-23-6-141-13	
17	17-UD-E-23-18-156	UD	E	23	16	14-21	156	VT	POR						18	156	12	0	VT	P					18	156	12	0	12	12	12	12	12	17-UD-E-23-18-156-14	
17	17-UD-E-23-0-156	UD	E	23											0	156	4	0	VT	WI					0	156	4	4	8	8	8	8	8	17-UD-E-23-0-156-15	
17	17-UD-E-23-8-0	UD	E	23											8	0	16	0	VT	WI					8	0	16	0	16	16	16	16	16	17-UD-E-23-8-0-16	
17	17-UD-E-24-78-1	UD	E	24</																															

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report							EEL Probe Up						Recommended Repairs						Repair Number; May Apply to Multiple Indications	
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside Indication(in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)		Repair Type (Patch, Weld, Cap)
17	17-UD-E-24-38-156	UD	E	24	14	38	156	VT	POR			38	156	VT	P			38	156	4	4	8		WR	17-UD-E-24-38-156-10
17	17-UD-E-24-0-0	UD	E	24								0	0	VT	WI			0	0	4	4	8		WR	17-UD-E-24-0-0-12
17	17-UD-E-24-30-0	UD	E	24								30	0	VT	LOF			30	0	0	0	3		WR	17-UD-E-24-30-0-11
17	17-UD-D-1-0-153	UD	D	1	1	3	153	VT	POR			0	153	VT	P			0	153	4	4	8		WR	17-UD-D-1-0-153-1
17	17-UD-D-1-1-118	UD	D	1	2	1	118	VT	POR			1	118	VT	P			1	118	0	6	6		WR	17-UD-D-1-1-118-2
17	17-UD-D-1-1-107	UD	D	1	3	1	107	VT	POR			1	107	VT	P			1	107	0	4	4		WR	17-UD-D-1-1-107-3
17	17-UD-D-1-24-102	UD	D	1	4	24	102	VT	POR			24	102	VT	P			26	118	0	24	24		WR	17-UD-D-1-26-118-4
17	17-UD-D-1-0-0	UD	D	1								0	0	VT	WI			0	0	4	4	8		WR	17-UD-D-1-0-0-5
17	17-UD-D-1-0-146	UD	D	1								0	146	VT	IF			0	146	0	20	20		WR	17-UD-D-1-0-146-11
17	17-UD-D-1-0-56	UD	D	1								0	56	VT	UC			0	56	3	3	6		WR	17-UD-D-1-0-56-8
17	17-UD-D-1-0-66	UD	D	1								0	66	VT	IF			18	156	4	4	8		WR	17-UD-D-1-0-66-9
17	17-UD-D-1-18-156	UD	D	1								18	156	VT	WI			25	0	50	0	50		WR	17-UD-D-1-18-156-10
17	17-UD-D-1-25-0	UD	D	1								25	0	VT	WI			50	0	4	4	8		WR	17-UD-D-1-25-0-7
17	17-UD-D-1-50-0	UD	D	1								50	0	VT	WI			59	16	3	3	6		WR	17-UD-D-1-50-0-6
17	17-UD-D-2-59-16	UD	D	2	1	59	16	VT	POR			59	16	VT	P			59	16	3	3	6		WR	17-UD-D-2-59-16-1
17	17-UD-D-2-49-108	UD	D	2	2	49	108	VT	TC		0.096	49	108	VT	TS			49	108	0	2	2		WR	17-UD-D-2-49-108-2
17	17-UD-D-2-144	UD	D	2	3	2	144	VT	TC		0.096	2	144	VT	TS			2	144	6	6	24		TSPP	17-UD-D-2-144-3
17	17-UD-D-2-51-132	UD	D	2	4	38	132	VT	POR			51	132	VT	P			51	132	0	16	16		WR	17-UD-D-2-51-132-4
17	17-UD-D-2-0-62	UD	D	2	5	0	62	VT	POR			0	62	VT	P			0	62	0	6	6		WR	17-UD-D-2-0-62-5
17	17-UD-D-2-35-0	UD	D	2	6	33	0	VT	POR			35	0	VT	P			35	0	6	6	6		WR	17-UD-D-2-35-0-6
17	17-UD-D-2-56-0	UD	D	2								56	0	VT	WI			56	0	4	4	8		WR	17-UD-D-2-56-0-7
17	17-UD-D-2-59-156	UD	D	2								59	156	VT	WI			59	156	4	4	8		WR	17-UD-D-2-59-156-9
17	17-UD-D-2-59-75	UD	D	2								59	75	VT	WI			59	75	0	6	6		WR	17-UD-D-2-59-75-8
17	17-UD-D-3-0-25	UD	D	3	1	0	25	VT	POR			0	25	VT	P			0	25	0	4	4		WR	17-UD-D-3-0-25-1
17	17-UD-D-3-26-35	UD	D	3	2	26	35	VT	TC		0.120	26	35	VT	TS			26	35	0	2	2		WR	17-UD-D-3-26-35-2
17	17-UD-D-3-32-38	UD	D	3	3	32	38	VT	TC		0.096	32	38	VT	TS			32	38	0	2	2		WR	17-UD-D-3-32-38-3
17	17-UD-D-3-43-7	UD	D	3	4	4	37	VT	TC		0.096	4	37	VT	TS			4	37	0	2	2		WR	17-UD-D-3-43-7-4
17	17-UD-D-3-4-50	UD	D	3	5	4	50	VT	TC		0.096	4	50	VT	TS			4	50	0	2	2		WR	17-UD-D-3-4-50-5
17	17-UD-D-3-0-70	UD	D	3	6	0	70	VT	POR			0	70	VT	P			0	70	0	4	4		WR	17-UD-D-3-0-70-6
17	17-UD-D-3-21-94	UD	D	3	8	21	94	VT	TC		0.096	21	94	VT	TS			21	94	10	10	40		PP	17-UD-D-3-21-94-7
17	17-UD-D-3-2-155	UD	D	3	9	2	155	VT	TC		0.096	2	155	VT	TS			2	155	6	6	24		TSPP	17-UD-D-3-2-155-8
17	17-UD-D-3-18-156	UD	D	3	11	18	156	VT	POR			18	156	VT	P			10	156	20	0	20		WR	17-UD-D-3-18-156-9
17	17-UD-D-3-0-148	UD	D	3								0	148	VT	P			0	148	0	17	17		WR	17-UD-D-3-0-148-10
17	17-UD-D-3-14-45	UD	D	3								14	45	VT	WI			14	45	0	2	2		WR	17-UD-D-3-14-45-11
17	17-UD-D-4-58-0	UD	D	4	1	58	0	VT	UC/POR		0.110	58	0	VT	UC			58	0	4	4	8		WR	17-UD-D-4-58-0-1
17	17-UD-D-4-38-0	UD	D	4	2	52	0	VT	POR			38	0	VT	UC			38	0	44	0	44		WR	17-UD-D-4-38-0-2
17	17-UD-D-4-48-157	UD	D	4	4	48	157	VT	POR			48	157	VT	P			30	156	60	0	60		WR	17-UD-D-4-48-157-3
17	17-UD-D-4-0-108	UD	D	4	8	0	108	VT	POR			0	108	VT	P			0	108	0	6	6		WR	17-UD-D-4-0-108-4
17	17-UD-D-4-57-80	UD	D	4	9	57	80	VT	POR			57	80	VT	P			57	80	20	0	20		WR	17-UD-D-4-57-80-5
17	17-UD-D-4-59-34	UD	D	4	11	57	34	VT	POR			59	34	VT	P			59	34	0	6	6		WR	17-UD-D-4-59-34-6
17	17-UD-D-4-0-2	UD	D	4	12	0	2	VT	POR			0	2	VT	P			0	2	3	3	6		WR	17-UD-D-4-0-2-7
17	17-UD-D-4-34-72	UD	D	4								34	72	VT	D			34	72	6	0	19		PP	17-UD-D-4-34-72-11
17	17-UD-D-4-38-41	UD	D	4								38	41	VT	D			38	41	6	0	19		PP	17-UD-D-4-38-41-8
17	17-UD-D-4-58-114	UD	D	4								58	114	VT	P			58	114	0	12	12		WR	17-UD-D-4-58-114-12
17	17-UD-D-4-58-156	UD	D	4								58	156	VT	P			58	156	4	4	8		WR	17-UD-D-4-58-156-13
17	17-UD-D-4-58-50	UD	D	4								58	50	VT	UC			58	50	0	4	4		WR	17-UD-D-4-58-50-10
17	17-UD-D-4-59-18	UD	D	4								59	18	VT	RI			59	18	3	3	6		WR	17-UD-D-4-59-18-9
17	17-UD-D-5-47-0	UD	D	5	1	47	0	VT	POR			47	0	VT	P			47	0	4	4	4		WR	17-UD-D-5-47-0-1
17	17-UD-D-5-0-70	UD	D	5	4	0	70	VT	POR			0	70	VT	P			0	70	0	6	6		WR	17-UD-D-5-0-70-2
17	17-UD-D-5-34-70	UD	D	5	5	34	70	VT	POR			34	70	VT	P			32	76	0	28	28		WR	17-UD-D-5-34-70-3
17	17-UD-D-5-27-108	UD	D	5	8	27	108	VT	POR			27	108	VT	P			27	108	0	6	6		WR	17-UD-D-5-27-108-4
17	17-UD-D-5-23-115	UD	D	5	9	27	115	VT	POR			23	115	VT	P			23	115	0	6	6		WR	17-UD-D-5-23-115-5
17	17-UD-D-5-8-95	UD	D	5	10	8	95	VT	TC		0.100	8	95	VT	TS			8	95	8	8	32		PP	17-UD-D-5-8-95-6
17	17-UD-D-5-0-96	UD	D	5	11	0	96	VT	POR			0	96	VT	P			0	96	0	8	8		WR	17-UD-D-5-0-96-7
17	17-UD-D-5-2-98	UD	D	5	12	2	98	VT	TC		0.130	2	98	VT	TS			2	98	0	2	2		WR	17-UD-D-5-2-98-8
17	17-UD-D-5-2-109	UD	D	5	13	2	109	VT	TC		0.100	2	109	VT	TS			2	109	0	2	2		WR	17-UD-D-5-2-109-9

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report										EEL Probe Up						Recommended Repairs						Repair Number; May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift Topside	Center of Indication X (in)	Center of Indication Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair X (in)	Center of Repair Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)			
17	17-UD-D-5-8-111	UD	D	5	14	8	111	VT	TC			0.110	8	111	8	VT	TS			8	111	0	2	2		WR	17-UD-D-5-8-111-10
17	17-UD-D-5-2-126	UD	D	5	15	0	126	VT	TC			0.096	2	126	2	VT	TS			2	126	0	2	2		WR	17-UD-D-5-2-126-11
17	17-UD-D-5-10-118	UD	D	5	16	10	118	VT	Dent			0.125	10	118	10	VT	D			10	118	6	0	19	28	PP	17-UD-D-5-10-118-12
17	17-UD-D-5-0-147	UD	D	5	17	0	132-140	VT	LP/POR				0	147	0	VT	LOF			0	147	0	19	19		WR	17-UD-D-5-0-147-13
17	17-UD-D-5-9-157	UD	D	5	18	8	157	VT	POR				18	157	18	VT	P			9	157	18	0	18		WR	17-UD-D-5-9-157-14
17	17-UD-D-5-18-157	UD	D	5									18	157	18	VT	WI			18	157	4	4	8		WR	17-UD-D-5-18-157-15
17	17-UD-D-5-20-142	UD	D	5									20	142	20	VT	WI			20	142	0	4	4		WR	17-UD-D-5-20-142-16
17	17-UD-D-6-22-157	UD	D	6	1	22	157	VT	POR				22	157	22	VT	P			30	157	61	0	61		WR	17-UD-D-6-22-157-17
17	17-UD-D-6-58-142	UD	D	6	5	58	142	VT	POR				58	142	58	VT	P			58	142	0	10	10		WR	17-UD-D-6-58-142-2
17	17-UD-D-6-58-117	UD	D	6	6	58	103-127	VT	LP/POR				58	117	58	VT	LOF			58	117	0	24	24		WR	17-UD-D-6-58-117-3
17	17-UD-D-6-58-82	UD	D	6	7	58	82	VT	UC			0.090	58	82	58	VT	UC			58	82	0	6	6		WR	17-UD-D-6-58-82-4
17	17-UD-D-6-37-72	UD	D	6	8	37	72	VT	Dent				37	72	37	VT	D			37	72	10	10	40	100	PP	17-UD-D-6-37-72-5
17	17-UD-D-6-50-26	UD	D	6	9	50	24	VT	TC			0.100	50	26	50	VT	TS			50	26	0	2	2		WR	17-UD-D-6-50-26-6
17	17-UD-D-6-58-8	UD	D	6	10	58	8	VT	POR				58	8	58	VT	P			58	8	0	4	4		WR	17-UD-D-6-58-8-7
17	17-UD-D-6-58-0	UD	D	6	11	58	0	VT	POR				58	0	58	VT	P			58	0	4	4	8		WR	17-UD-D-6-58-0-8
17	17-UD-D-6-37-0	UD	D	6	12	20	0	VT	PORX2				37	0	37	VT	P			37	0	48	0	48		WR	17-UD-D-6-37-0-9
17	17-UD-D-6-20-10	UD	D	6	13	0	20	VT	Dent			0.150	0	20	0	VT	D			0	20	8	8	32	64	TSPP	17-UD-D-6-20-10-10
17	17-UD-D-6-105-11	UD	D	6	14	0	107	VT	POR				0	105	0	VT	P			0	105	0	11	11		WR	17-UD-D-6-105-11-11
17	17-UD-D-6-48-29	UD	D	6									48	29	48	VT	G			48	29	0	2	2		WR	17-UD-D-6-48-29-12
17	17-UD-D-6-53-94	UD	D	6									53	94	53	VT	TS			53	94	0	2	2		WR	17-UD-D-6-53-94-13
17	17-UD-D-6-61-157	UD	D	6									61	157	61	VT	WI			61	157	4	4	8		WR	17-UD-D-6-61-157-14
17	17-UD-D-7-8-157	UD	D	7	1	7-12	157	VT	PORX4				8	157	8	VT	P			8	157	19	0	19		WR	17-UD-D-7-8-157-1
17	17-UD-D-7-21-70	UD	D	7	4	21	130	VT	POR				21	70	21	VT	P			21	70	0	168	168		WR	17-UD-D-7-21-70-2
17	17-UD-D-7-0-93	UD	D	7	6	0	93	VT	POR				0	93	0	VT	P			0	93	0	24	24		WR	17-UD-D-7-0-93-3
17	17-UD-D-7-0-36	UD	D	7	10	0	36	VT	POR				0	36	0	VT	P			0	36	0	19	19		WR	17-UD-D-7-0-36-4
17	17-UD-D-7-12-0	UD	D	7	13	15	0	VT	POR				12	0	12	VT	P			12	0	24	0	24		WR	17-UD-D-7-12-0-5
17	17-UD-D-7-48-0	UD	D	7	14	48	0	VT	POR				48	0	48	VT	P			48	0	4	4	8		WR	17-UD-D-7-48-0-6
17	17-UD-D-7-19-148	UD	D	7									19	148	19	VT	P			19	148	0	15	15		WR	17-UD-D-7-19-148-7
17	17-UD-D-8-14-0	UD	D	8	1	14	0	VT	POR				14	0	14	VT	P			30	0	60	0	60		WR	17-UD-D-8-14-0-1
17	17-UD-D-8-57-10	UD	D	8	3	57	12	VT	POR				57	10	57	VT	P			57	10	0	16	16		WR	17-UD-D-8-57-10-2
17	17-UD-D-8-10-30	UD	D	8	4	10	30	VT	WG			0.150	10	30	10	VT	G			10	30	2	0	2		WR	17-UD-D-8-10-30-3
17	17-UD-D-8-23-63	UD	D	8	5	23	63	VT	TC			0.110	23	63	23	VT	TS			23	63	2	0	2		WR	17-UD-D-8-23-63-4
17	17-UD-D-8-57-71	UD	D	8	6	57	71	VT	POR				57	71	57	VT	P			57	71	0	4	4		WR	17-UD-D-8-57-71-5
17	17-UD-D-8-33-90	UD	D	8	8	33	90	VT	TC			0.120	33	90	33	VT	TS			33	90	6	0	19	28	PP	17-UD-D-8-33-90-6
17	17-UD-D-8-57-94	UD	D	8	9	57	96	VT	POR				57	96	57	VT	P			57	120	0	55	55		WR	17-UD-D-8-57-120-7
17	17-UD-D-8-19-157	UD	D	8	14	57	157	VT	POR				57	157	57	VT	P			57	157	4	4	8		WR	17-UD-D-8-57-157-8
17	17-UD-D-8-19-157	UD	D	8	15	18-21	157	VT	POR				19	157	19	VT	P			14	157	27	0	27		WR	17-UD-D-8-14-157-9
17	17-UD-D-8-7-157	UD	D	8	16	3-12	157	VT	UC/POR			0.096	7	157	7	VT	UC			7	157	0	0	0		WR	17-UD-D-8-7-157-9
17	17-UD-D-8-0-130	UD	D	8	17	0	130	VT	POR				0	130	0	VT	P			0	130	0	9	9		WR	17-UD-D-8-0-130-10
17	17-UD-D-8-0-88	UD	D	8									0	88	0	VT	P			0	88	0	6	6		WR	17-UD-D-8-0-88-11
17	17-UD-D-8-57-0	UD	D	8									57	0	57	VT	WI			57	0	4	4	8		WR	17-UD-D-8-57-0-12
17	17-UD-D-9-22-157	UD	D	9	1	22	10-19	VT	PORX5				22	157	22	VT	P			22	157	18	0	18		WR	17-UD-D-9-22-157-1
17	17-UD-D-9-23-143	UD	D	9	2	23	142-145	VT	POR				23	143	23	VT	P			22	138	0	28	28		WR	17-UD-D-9-22-138-2
17	17-UD-D-9-0-42	UD	D	9	6	0	40	VT	POR				0	42	0	VT	P			0	42	0	12	12		WR	17-UD-D-9-0-42-3
17	17-UD-D-9-50-23	UD	D	9	7	58	24	VT	POR				50	23	50	VT	P			50	23	0	32	32		WR	17-UD-D-9-50-23-4
17	17-UD-D-9-47-0	UD	D	9	8	47	0	VT	LF				47	0	47	VT	LOF			25	0	50	0	50		WR	17-UD-D-9-25-0-5
17	17-UD-D-9-34-15	UD	D	9									34	15	34	VT	D			34	15	6	0	19	28	PP	17-UD-D-9-34-15-7
17	17-UD-D-9-50-0	UD	D	9									50	0	50	VT	WI			50	0	4	4	8		WR	17-UD-D-9-50-0-6
17	17-UD-D-10-32-0	UD	D	10								0.096	32	0	32	VT	UC			30	0	30	0	30		WR	17-UD-D-10-30-0-1
17	17-UD-D-10-33-11	UD	D	10	3	33	11	VT	TC			0.140	33	11	33	VT	TS			33	11	6	0	19	28	PP	17-UD-D-10-33-11-2
17	17-UD-D-10-58-22	UD	D	10	4	58	22	VT	POR				58	22	58	VT	P			60	20	0	40	40		WR	17-UD-D-10-60-20-3
17	17-UD-D-10-57-115	UD	D	10	7	57	120	VT	POR				57	115	57	VT	P			57	115	0	4	4		WR	17-UD-D-10-57-115-4
17	17-UD-D-10-37-157	UD	D	10	8	37	157	VT	POR				37	157	37	VT	P			30	156	60	0	60		WR	17-UD-D-10-30-156-5
17	17-UD-D-10-11-71	UD	D	10	13	11	72	VT	TC			0.150	11	71	11	VT	TS			11	71	14	14	56	196	PP	17-UD-D-10-11-71-6

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report							EEL Probe Up						Recommended Repairs						Repair Number: May Apply to Multiple Indications				
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	Coordinate X (in)	Coordinate Y (in)	Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)		Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	
17	17-UD-D-10-60-0	UD	D	10									60	0	VT	RI			60	0	4	4	8		WR	17-UD-D-10-60-0-10	
17	17-UD-D-10-60-156	UD	D	10									60	156	VT	RI			60	156	4	4	8		WR	17-UD-D-10-60-156-8	
17	17-UD-D-11-0-1	UD	D	11	1			0-3					0	1	VT	P			0	1	4	4	8		WR	17-UD-D-11-0-1-1	
17	17-UD-D-11-0-14	UD	D	11	2			0					0	14	VT	P			0	14	0	28	28		WR	17-UD-D-11-0-14-2	
17	17-UD-D-11-0-134	UD	D	11	3			0	134				0	134	VT	P			0	134	0	4	4		WR	17-UD-D-11-0-134-3	
17	17-UD-D-11-21-132	UD	D	11	4			21	132				21	132	VT	P			21	132	0	4	4		WR	17-UD-D-11-21-132-4	
17	17-UD-D-11-21-151	UD	D	11	5			21	151				21	151	VT	P			21	151	0	4	4		WR	17-UD-D-11-21-151-5	
17	17-UD-D-11-0-157	UD	D	11	6			0	157				0	157	VT	P			0	157	4	4	8		WR	17-UD-D-11-0-157-6	
17	17-UD-D-11-0-114	UD	D	11									0	114	VT	P			0	114	0	19	19		WR	17-UD-D-11-0-114-11	
17	17-UD-D-11-0-46	UD	D	11									0	46	VT	P			0	46	0	4	4		WR	17-UD-D-11-0-46-9	
17	17-UD-D-11-0-82	UD	D	11									0	82	VT	RI			0	82	0	11	11		WR	17-UD-D-11-0-82-10	
17	17-UD-D-11-10-156	UD	D	11									10	156	VT	LOF			10	156	6	6	12		WR	17-UD-D-11-10-156-7	
17	17-UD-D-11-18-156	UD	D	11									18	156	VT	RI			18	156	4	4	8		WR	17-UD-D-11-18-156-12	
17	17-UD-D-11-25-0	UD	D	11									25	0	VT	P			25	0	50	0	50		WR	17-UD-D-11-25-0-8	
17	17-UD-D-11-9-156	UD	D	11									9	156	VT	P			9	156	18	0	18		WR	17-UD-D-11-9-156-13	
17	17-UD-D-12-59-132	UD	D	12	1			58	140		VT	POR		59	132	VT	RI		59	132	0	13	13		WR	17-UD-D-12-59-132-1	
17	17-UD-D-12-57-157	UD	D	12	2			57	157		VT	POR		57	157	VT	P		30	157	60	0	60		WR	17-UD-D-12-30-157-2	
17	17-UD-D-12-0-157	UD	D	12	4			0	157		VT	LF/POR		0	157	VT	LOF		0	157	4	4	8		WR	17-UD-D-12-0-157-3	
17	17-UD-D-12-0-132	UD	D	12	5			0	132		VT	POR		0	132	VT	P		0	132	0	4	4		WR	17-UD-D-12-0-132-4	
17	17-UD-D-12-58-118	UD	D	12	6			58	118		VT	POR		58	118	VT	P		58	118	0	8	8		WR	17-UD-D-12-58-118-5	
17	17-UD-D-12-58-106	UD	D	12	7			58	106		VT	POR		58	106	VT	P		58	106	0	11	11		WR	17-UD-D-12-58-106-6	
17	17-UD-D-12-0-28	UD	D	12	9			0	28		VT	POR		0	28	VT	P		0	28	0	8	8		WR	17-UD-D-12-0-28-7	
17	17-UD-D-12-6-10	UD	D	12	10			8	11		VT	TC		6	10	VT	TS		6	10	0	2	2		WR	17-UD-D-12-6-10-8	
17	17-UD-D-12-10-62	UD	D	12									10	62	VT	D			10	62	6	0	19	28		PP	17-UD-D-12-10-62-13
17	17-UD-D-12-1-36	UD	D	12									1	36	VT	D			1	36	6	6	24	36		TSPP	17-UD-D-12-1-36-12
17	17-UD-D-12-25-8	UD	D	12									25	8	VT	UC			25	8	0	2	2		WR	17-UD-D-12-25-8-10	
17	17-UD-D-12-60-156	UD	D	12									60	156	VT	LOF			60	156	4	4	8		WR	17-UD-D-12-60-156-14	
17	17-UD-D-12-60-25	UD	D	12									60	25	VT	LOF			60	25	0	9	9		WR	17-UD-D-12-60-25-9	
17	17-UD-D-12-60-6	UD	D	12									60	6	VT	G			60	6	0	12	12		WR	17-UD-D-12-60-6-11	
17	17-UD-D-13-49-15	UD	D	13	4			49	15		VT	POR		49	15	VT	P		49	19	0	9	9		WR	17-UD-D-13-49-19-1	
17	17-UD-D-13-25-0	UD	D	13	6			24	0		VT	POR		25	0	VT	P		25	0	50	0	50		WR	17-UD-D-13-25-0-2	
17	17-UD-D-13-19-143	UD	D	13	10			18	144		VT	POR		19	143	VT	P		19	143	0	15	15		WR	17-UD-D-13-19-143-3	
17	17-UD-D-13-18-156	UD	D	13	11			18	153		VT	POR		18	156	VT	P		18	156	4	4	8		WR	17-UD-D-13-18-156-4	
17	17-UD-D-13-0-156	UD	D	13									0	156	VT	WI			0	156	4	4	8		WR	17-UD-D-13-0-156-5	
17	17-UD-D-13-50-0	UD	D	13									50	0	VT	WI			50	0	4	4	8		WR	17-UD-D-13-50-0-7	
17	17-UD-D-13-5-92	UD	D	13									5	92	VT	G			5	92	0	4	4		WR	17-UD-D-13-5-92-6	
17	17-UD-D-14-31-157	UD	D	14	1			28	157		VT	POR		31	157	VT	P		31	157	3	3	6		WR	17-UD-D-14-31-157-1	
17	17-UD-D-14-49-157	UD	D	14	2			46	157		VT	POR		49	157	VT	P		49	157	16	0	16		WR	17-UD-D-14-49-157-2	
17	17-UD-D-14-58-133	UD	D	14	3			58	133		VT	POR		58	133	VT	P		59	128	0	30	30		WR	17-UD-D-14-59-128-3	
17	17-UD-D-14-54-0	UD	D	14	5			54	0		VT	UC		54	0	VT	UC		30	0	60	0	60		WR	17-UD-D-14-54-0-4	
17	17-UD-D-14-0-84	UD	D	14	10			0	0		VT	LF/POR		0	0	VT	LOF		0	0	4	4	8		WR	17-UD-D-14-0-84-9	
17	17-UD-D-14-20-150	UD	D	14									14	20	VT	RI			14	20	10	10	40	100		PP	17-UD-D-14-20-150-5
17	17-UD-D-14-28-132	UD	D	14									20	150	VT	D			20	150	6	0	19	28		PP	17-UD-D-14-20-150-6
17	17-UD-D-14-28-40	UD	D	14									28	132	VT	D			28	132	8	8	32	64		PP	17-UD-D-14-28-132-8
17	17-UD-D-14-28-40	UD	D	14									28	40	VT	G			28	40	0	2	2		WR	17-UD-D-14-28-40-14	
17	17-UD-D-14-49-90	UD	D	14									49	90	VT	G			49	90	0	2	2		WR	17-UD-D-14-49-90-10	
17	17-UD-D-14-58-80	UD	D	14									58	80	VT	P			58	80	0	7	7		WR	17-UD-D-14-58-80-11	
17	17-UD-D-14-59-44	UD	D	14									59	44	VT	RI			59	44	3	3	6		WR	17-UD-D-14-59-44-12	
17	17-UD-D-14-59-52	UD	D	14									59	52	VT	LOF			59	52	3	3	6		WR	17-UD-D-14-59-52-13	
17	17-UD-D-14-60-0	UD	D	14									60	0	VT	WI			60	0	4	4	8		WR	17-UD-D-14-60-0-16	
17	17-UD-D-14-60-156	UD	D	14									60	156	VT	WI			60	156	4	4	8		WR	17-UD-D-14-60-156-7	
17	17-UD-D-15-3-157	UD	D	15	1			0-7	157		VT	POR		3	157	VT	P		3	157	20	0	20		WR	17-UD-D-15-3-157-1	
17	17-UD-D-15-17-148	UD	D	15	3			17	148		VT	POR		17	148	VT	P		25	110	0	86	86		WR	17-UD-D-15-25-110-2	
17	17-UD-D-15-0-105	UD	D	15	4			0	105		VT	POR		0	105	VT	P		0	120	0	72	72		WR	17-UD-D-15-0-120-3	
17	17-UD-D-15-0-60	UD	D	15	8			58	0		VT	POR		0	60	VT	G		0	60	0	11	11		WR	17-UD-D-15-0-60-4	

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report										EEL Probe Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex ID	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth (in) or Topside Indication (in)	Center of Indication X (in)	Center of Indication Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair X (in)	Center of Repair Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)		
17	17-UD-D-15-33-0	UD	D	15	9	27.34	0	VT	PORX2						33	0	VT	IF		27	0	27		WR	17-UD-D-15-33-0-5	
17	17-UD-D-15-0-0	UD	D	15											0	0	VT	IF		4	4	8		WR	17-UD-D-15-0-0-6	
17	17-UD-D-15-0-156	UD	D	15											0	156	VT	WI		4	4	8		WR	17-UD-D-15-0-156-10	
17	17-UD-D-15-0-8	UD	D	15											0	8	VT	IF		0	4	4		WR	17-UD-D-15-0-8-8	
17	17-UD-D-15-19-156	UD	D	15											19	156	VT	WI		4	4	8		WR	17-UD-D-15-19-156-11	
17	17-UD-D-15-4-86	UD	D	15											4	86	VT	D		8	32	64		TSPP	17-UD-D-15-4-86-9	
17	17-UD-D-15-49-2	UD	D	15											49	2	VT	IF		4	4	8		WR	17-UD-D-15-49-2-7	
17	17-UD-D-16-0-0	UD	D	16	1	0	0	VT	LF						30	0	VT	LOF		60	0	60		WR	17-UD-D-16-0-0-1	
17	17-UD-D-16-14-0	UD	D	16	3	14	0	VT	POR						14	0	VT	P		4	4	8		WR	17-UD-D-16-14-0-2	
17	17-UD-D-16-0-47	UD	D	16	5	0	47	VT	POR						0	99	0	P		114	0	104		WR	17-UD-D-16-0-99-3	
17	17-UD-D-16-59-23	UD	D	16	6	59	23	VT	POR						59	23	VT	P		0	104			WR	17-UD-D-16-60-52-4	
17	17-UD-D-16-6-84	UD	D	16	11	6	84	VT	TC	0.096	6	84	VT	TS	6	84	6	TS		0	19	28		PP	17-UD-D-16-6-84-5	
17	17-UD-D-16-30-156	UD	D	16	16	0.48	159	VT	UC/POR	0.096	30	156	VT	UC	30	156	0	UC		60	0	60		WR	17-UD-D-16-30-156-6	
17	17-UD-D-16-0-156	UD	D	16											0	156	VT	WI		4	4	8		WR	17-UD-D-16-0-156-7	
17	17-UD-D-16-10-96	UD	D	16											10	96	VT	G		0	19	28		PP	17-UD-D-16-10-96-13	
17	17-UD-D-16-15-50	UD	D	16											15	50	VT	G		10	40	100		PP	17-UD-D-16-15-50-12	
17	17-UD-D-16-60-0	UD	D	16											60	0	VT	WI		4	4			WR	17-UD-D-16-60-0-14	
17	17-UD-D-16-60-120	UD	D	16											60	120	VT	IF		4	4			WR	17-UD-D-16-60-120-11	
17	17-UD-D-16-60-137	UD	D	16											60	137	VT	P		3	6			WR	17-UD-D-16-60-137-10	
17	17-UD-D-16-60-151	UD	D	16											60	151	VT	IF		10	10			WR	17-UD-D-16-60-151-9	
17	17-UD-D-16-60-156	UD	D	16											60	156	VT	WI		4	4	8		WR	17-UD-D-16-60-156-8	
17	17-UD-D-17-0-156	UD	D	17	1	2.4	157	VT	PORX2						0	156	VT	P		4	4	8		WR	17-UD-D-17-0-156-1	
17	17-UD-D-17-18-156	UD	D	17	2	17	157	VT	POR						18	156	VT	P		4	4	8		WR	17-UD-D-17-18-156-2	
17	17-UD-D-17-11-130	UD	D	17	3	11	130	VT	TC	0.090	11	130	VT	D	11	130	6	D		0	19	28		PP	17-UD-D-17-11-130-3	
17	17-UD-D-17-30-100	UD	D	17	4	30	97	VT	POR						30	100	VT	RI		6	6			WR	17-UD-D-17-30-100-4	
17	17-UD-D-17-30-84	UD	D	17	5	30	83	VT	POR						30	84	VT	P		4	4			WR	17-UD-D-17-30-84-5	
17	17-UD-D-17-35-68	UD	D	17	7	37	65	VT	POR						35	68	VT	P		12	12			WR	17-UD-D-17-35-68-6	
17	17-UD-D-17-26-65	UD	D	17	8	26	65	VT	TC	0.090	26	65	VT	TS	26	65	0	TS		2	2			WR	17-UD-D-17-26-65-7	
17	17-UD-D-17-0-0	UD	D	17	12	7	0	VT	POR						7	0	VT	UC		50	0	50		WR	17-UD-D-17-25-0-8	
17	17-UD-D-17-49-2	UD	D	17	14	49	2	VT	POR						49	2	VT	P		4	4	8		WR	17-UD-D-17-49-2-9	
17	17-UD-D-17-0-0	UD	D	17											0	0	VT	LOF		4	4	8		WR	17-UD-D-17-0-0-10	
17	17-UD-D-17-0-112	UD	D	17											0	112	VT	G		2	2			WR	17-UD-D-17-0-112-11	
17	17-UD-D-17-16-138	UD	D	17											16	138	VT	G		2	2			WR	17-UD-D-17-16-138-12	
17	17-UD-D-17-9-156	UD	D	17											9	156	VT	UC		18	0	18		WR	17-UD-D-17-9-156-13	
17	17-UD-D-18-60-16	UD	D	18	1	59	12	VT	POR						60	16	VT	P		32	32			WR	17-UD-D-18-60-16-1	
17	17-UD-D-18-31-47	UD	D	18	3	31	47	VT	TC	0.120	31	47	VT	UC	31	47	0	UC		2	2			WR	17-UD-D-18-31-47-2	
17	17-UD-D-18-60-90	UD	D	18	4	58	87	VT	POR						60	90	VT	IF		32	32			WR	17-UD-D-18-60-90-3	
17	17-UD-D-18-60-116	UD	D	18	8	58	130	VT	POR						60	116	VT	RI		2	2			WR	17-UD-D-18-60-116-4	
17	17-UD-D-18-38-157	UD	D	18	9	23-53	157	VT	PORX6						38	157	VT	P		60	0	60		WR	17-UD-D-18-38-157-5	
17	17-UD-D-18-0-118	UD	D	18	12	0	118	VT	POR						0	118	0	P		6	6			WR	17-UD-D-18-0-118-6	
17	17-UD-D-18-0-11	UD	D	18	14	0		VT	POR						0	11	0	P		22	22			WR	17-UD-D-18-0-11-7	
17	17-UD-D-18-0-0	UD	D	18											0	0	VT	WI		4	4	8		WR	17-UD-D-18-0-0-15	
17	17-UD-D-18-30-0	UD	D	18											0	156	VT	WI		4	4	8		WR	17-UD-D-18-0-156-8	
17	17-UD-D-18-30-108	UD	D	18											30	0	VT	WI		60	0	60		WR	17-UD-D-18-30-0-14	
17	17-UD-D-18-30-108	UD	D	18											30	108	VT	G		2	2			WR	17-UD-D-18-30-108-12	
17	17-UD-D-18-60-0	UD	D	18											60	0	VT	WI		4	4	8		WR	17-UD-D-18-60-0-16	
17	17-UD-D-18-60-130	UD	D	18											60	130	VT	WI		14	14			WR	17-UD-D-18-60-130-11	
17	17-UD-D-18-60-148	UD	D	18											60	148	VT	P		4	4			WR	17-UD-D-18-60-148-10	
17	17-UD-D-18-60-156	UD	D	18											60	156	VT	WI		4	4	8		WR	17-UD-D-18-60-156-9	
17	17-UD-D-18-60-60	UD	D	18											60	60	VT	RI		2	2			WR	17-UD-D-18-60-60-13	
17	17-UD-D-19-49-156	UD	D	19	1	22	157	VT	LF/POR						49	156	VT	RI		4	4	8		WR	17-UD-D-19-49-156-1	
17	17-UD-D-19-22-132	UD	D	19	2	22	132	VT	POR						23	125	VT	P		13	13			WR	17-UD-D-19-23-125-2	
17	17-UD-D-19-28-104	UD	D	19	4	22	108	VT	POR						28	104	VT	P		9	9			WR	17-UD-D-19-28-104-3	
17	17-UD-D-19-22-84	UD	D	19	5	22	84	VT	POR						22	84	0	P		4	4			WR	17-UD-D-19-22-84-4	
17	17-UD-D-19-39-57	UD	D	19	6	39	57	VT	POR						39	57	VT	RI		2	2			WR	17-UD-D-19-39-57-5	
17	17-UD-D-19-42-43	UD	D	19	7	39	45	VT	POR						42	43	VT	RI		2	2			WR	17-UD-D-19-42-43-6	

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report								EEL Probe Up						Recommended Repairs						Repair Number; May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift Indication (in)	Center of Indication X (in)	Center of Indication Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair X (in)	Center of Repair Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	
17	17-UD-D-19-45-30	UD	D	19	8	39	24-28	VT	WG/POR		0.096	45	30	VT	RI			45	30	0	2	2		WR	17-UD-D-19-45-30-7
17	17-UD-D-19-0-8	UD	D	19	9	0	9	VT	WG/POR		0.096	0	8	VT	UC			0	8	0	16	16		WR	17-UD-D-19-0-8-8
17	17-UD-D-19-0-0	UD	D	19				VT				0	0	VT	WI			0	0	4	4	8		WR	17-UD-D-19-0-0-10
17	17-UD-D-19-0-156	UD	D	19				VT				0	156	VT	WI			0	156	4	4	8		WR	17-UD-D-19-0-156-14
17	17-UD-D-19-0-95	UD	D	19				VT				0	95	VT	P			0	95	0	2	2		WR	17-UD-D-19-0-95-17
17	17-UD-D-19-13-15	UD	D	19				VT				13	15	VT	WI			13	15	0	6	6		WR	17-UD-D-19-13-15-13
17	17-UD-D-19-20-150	UD	D	19				VT				20	150	VT	P			20	150	0	5	5		WR	17-UD-D-19-20-150-18
17	17-UD-D-19-22-102	UD	D	19				VT				22	102	VT	G			22	102	0	2	2		WR	17-UD-D-19-22-102-16
17	17-UD-D-19-41-0	UD	D	19				VT				41	0	VT	RI			41	0	0	2	2		WR	17-UD-D-19-41-0-12
17	17-UD-D-19-52-0	UD	D	19				VT				52	0	VT	WI			52	0	4	4	8		WR	17-UD-D-19-52-0-11
17	17-UD-D-19-6-100	UD	D	19				VT				6	100	VT	G			6	100	0	2	2		WR	17-UD-D-19-6-100-15
17	17-UD-D-19-8-0	UD	D	19				VT				8	0	VT	UC			8	0	16	0	16		WR	17-UD-D-19-8-0-9
17	17-UD-D-19-9-156	UD	D	19				VT				9	156	VT	P			9	156	18	0	18		WR	17-UD-D-19-9-156-19
17	17-UD-D-20-58-0	UD	D	20	1	58	0	VT	POR			58	0	VT	LOF			57	71	0	142	142		WR	17-UD-D-20-57-71-1
17	17-UD-D-20-53-96	UD	D	20	10	53	96	VT	TC		0.096	53	96	VT	UC			53	96	0	2	2		WR	17-UD-D-20-53-96-2
17	17-UD-D-20-45-132	UD	D	20	15	45	132	VT	TC		0.100	45	132	VT	TS			45	132	0	2	2		WR	17-UD-D-20-45-132-3
17	17-UD-D-20-46-157	UD	D	20	16	43-50	157	VT	LF			46	157	VT	LOF			30	156	60	0	60		WR	17-UD-D-20-30-156-4
17	17-UD-D-20-0-126	UD	D	20	18	0	126	VT	POR			0	126	VT	P			0	126	0	4	4		WR	17-UD-D-20-0-126-5
17	17-UD-D-20-24-0	UD	D	20	20	24	0	VT	POR			24	0	VT	UC			30	0	60	0	60		WR	17-UD-D-20-30-0-6
17	17-UD-D-20-0-0	UD	D	20				VT				0	0	VT	WI			0	0	4	4	8		WR	17-UD-D-20-0-0-10
17	17-UD-D-20-0-110	UD	D	20				VT				0	110	VT	P			0	110	0	9	9		WR	17-UD-D-20-0-110-9
17	17-UD-D-20-0-156	UD	D	20				VT				0	156	VT	WI			0	156	4	4	8		WR	17-UD-D-20-0-156-7
17	17-UD-D-20-60-0	UD	D	20				VT				60	0	VT	WI			60	0	4	4	8		WR	17-UD-D-20-60-0-11
17	17-UD-D-20-60-156	UD	D	20				VT				60	156	VT	WI			60	156	4	4	8		WR	17-UD-D-20-60-156-8
17	17-UD-D-21-0-0	UD	D	21	1	0	0	VT	POR			0	0	VT	RI			0	0	4	4	8		WR	17-UD-D-21-0-0-1
17	17-UD-D-21-15-0	UD	D	21	2	15	0	VT	POR			15	0	VT	P			28	0	31	0	31		WR	17-UD-D-21-28-0-2
17	17-UD-D-21-6-157	UD	D	21	7	6	157	VT	PORX7			6	157	VT	P			0	156	4	4	8		WR	17-UD-D-21-0-156-4
17	17-UD-D-21-50-14	UD	D	21				VT				50	14	VT	WI			50	14	3	3	6		WR	17-UD-D-21-50-14-3
17	17-UD-D-22-48-156	UD	D	22	2	38-58	157	VT	POR/UC		0.080	48	156	VT	P			48	156	21	0	21		WR	17-UD-D-22-48-156-1
17	17-UD-D-22-35-156	UD	D	22	3	35	157	VT	POR			35	156	VT	P			35	156	0	2	2		WR	17-UD-D-22-35-156-2
17	17-UD-D-22-16-156	UD	D	22	4	11-19	157	VT	PORX2			16	156	VT	P			16	156	11	0	11		WR	17-UD-D-22-16-156-3
17	17-UD-D-22-0-105	UD	D	22	5	0	105	VT	POR			0	105	VT	P			0	100	0	13	13		WR	17-UD-D-22-0-100-4
17	17-UD-D-22-9-100	UD	D	22	6	0	102	VT	POR			9	100	VT	D			9	100	6	0	19	28	PP	17-UD-D-22-9-100-5
17	17-UD-D-22-0-40	UD	D	22	9	0	40	VT	POR			0	40	VT	P			0	40	0	11	11		WR	17-UD-D-22-0-40-6
17	17-UD-D-22-60-19	UD	D	22	10	58	20	UT	POR			60	19	VT	IF			60	19	0	18	18		WR	17-UD-D-22-60-19-7
17	17-UD-D-22-4-0	UD	D	22				VT				4	0	VT	WI			4	0	3	3	6		WR	17-UD-D-22-4-0-13
17	17-UD-D-22-60-0	UD	D	22				VT				60	0	VT	WI			60	0	19	16	35		WR	17-UD-D-22-60-0-12
17	17-UD-D-22-60-108	UD	D	22				VT				60	108	VT	RI			60	108	0	12	12		WR	17-UD-D-22-60-108-10
17	17-UD-D-22-60-124	UD	D	22				VT				60	124	VT	IF			60	124	0	12	12		WR	17-UD-D-22-60-124-8
17	17-UD-D-22-60-142	UD	D	22				VT				60	142	VT	P			60	142	0	4	4		WR	17-UD-D-22-60-142-9
17	17-UD-D-22-60-66	UD	D	22				VT				60	66	VT	RI			60	66	0	14	14		WR	17-UD-D-22-60-66-11
17	17-UD-D-23-50-17	UD	D	23	1	48	5	VT	POR			50	17	VT	RI			50	17	0	15	15		WR	17-UD-D-23-50-17-1
17	17-UD-D-23-0-0	UD	D	23				VT				0	0	VT	IF			0	0	16	16	32		WR	17-UD-D-23-0-0-5
17	17-UD-D-23-0-156	UD	D	23				VT				0	156	VT	LOF			0	156	4	4	8		WR	17-UD-D-23-0-156-2
17	17-UD-D-23-19-156	UD	D	23				VT				19	156	VT	RI			19	156	4	4	8		WR	17-UD-D-23-19-156-3
17	17-UD-D-23-42-38	UD	D	23				VT				42	38	VT	RI			42	38	0	4	4		WR	17-UD-D-23-42-38-4
17	17-UD-D-24-58-24	UD	D	24	1	58	24	VT	POR			58	24	VT	RI			60	45	0	90	90		WR	17-UD-D-24-60-45-1
17	17-UD-D-24-56-102	UD	D	24	6	58	106	VT	TC		0.100	56	102	VT	G			56	102	0	2	2		WR	17-UD-D-24-56-102-2
17	17-UD-D-24-58-102	UD	D	24	7	58	98-106	VT	WI		0.150	58	102	VT	RI			58	102	0	44	44		WR	17-UD-D-24-58-102-3
17	17-UD-D-24-42-156	UD	D	24	8	58	156	VT	LF			60	156	VT	RI			60	156	4	4	8		WR	17-UD-D-24-60-156-4
17	17-UD-D-24-42-156	UD	D	24	9	44	156	VT	POR			42	156	VT	P			42	156	14	0	14		WR	17-UD-D-24-42-156-5
17	17-UD-D-24-0-156	UD	D	24	10	0	156	VT	POR			0	156	VT	P			0	156	4	4	8		WR	17-UD-D-24-0-156-6
17	17-UD-D-24-39-96	UD	D	24	11	39	96	VT	TC		0.096	39	96	VT	G			39	96	0	2	2		WR	17-UD-D-24-39-96-7
17	17-UD-D-24-31-90	UD	D	24	12	36	95	VT	Dent		0.060	31	90	VT	D			31	90	12	12	48	144	PP	17-UD-D-24-31-90-8
17	17-UD-D-24-3-50	UD	D	24	13	3	50	VT	TC		0.130	3	50	VT	G			3	50	0	2	2		WR	17-UD-D-24-3-50-9
17	17-UD-D-24-0-19	UD	D	24	14	0	20	VT	PORX2			0	19	VT	RI			0	19	0	12	12		WR	17-UD-D-24-0-19-10

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report										EEL Probe Up						Recommended Repairs								Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID	X	Coordinate (in)	Y	Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside Indication (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)		
17	17-UD-D-24-30-0	UD	D	24	15	43	0		VT	POR				30	0	VT	RI			30	0	60	0	60		WR	17-UD-D-24-30-0-11	
17	17-UD-D-24-0-0	UD	D	24					VT					0	0	VT	UC			0	0	4	4	8		WR	17-UD-D-24-0-0-12	
17	17-UD-D-24-60-0	UD	D	24					VT					60	0	VT	IF			60	0	4	4	8		WR	17-UD-D-24-60-0-13	
17	17-UD-D-24-60-102	UD	D	24					VT					60	102	VT	RI			60	102	4	4	8		WR	17-UD-D-24-60-102-14	
17	17-UD-D-25-0-0	UD	D	25	1	0	0-14		VT	POR				0	0	VT	P			0	0	4	4	8		WR	17-UD-D-25-0-0-1	
17	17-UD-D-25-50-10	UD	D	25	2	48	12		VT	POR				50	10	VT	G			50	10	16	20	36		WR	17-UD-D-25-50-10-2	
17	17-UD-D-25-48-36	UD	D	25	3	48	36		VT	POR				48	36	VT	P			48	36	3	3	6		WR	17-UD-D-25-48-36-3	
17	17-UD-D-25-48-58	UD	D	25	4	48	58		VT	POR				48	58	VT	RI			48	58	0	4	4		WR	17-UD-D-25-48-58-4	
17	17-UD-D-25-0-102	UD	D	25	5	0	100		VT	POR				0	102	VT	LOF			0	102	0	7	7		WR	17-UD-D-25-0-102-5	
17	17-UD-D-25-0-156	UD	D	25					VT					18	156	VT	LOF			18	156	4	4	8		WR	17-UD-D-25-0-156-7	
17	17-UD-D-25-18-156	UD	D	25					VT					18	156	VT	P			18	156	4	4	8		WR	17-UD-D-25-18-156-8	
17	17-UD-D-25-26-42	UD	D	25					VT					26	42	VT	G			26	42	0	2	2		WR	17-UD-D-25-26-42-6	
17	17-UD-D-26-57-26	UD	D	26	1	57	26		VT	POR				57	26	VT	P			60	54	4	64	68		WR	17-UD-D-26-57-26-1	
17	17-UD-D-26-12-10	UD	D	26	4	12	10		VT	Gouge				12	10	VT	D			12	10	6	0	19	28	PP	17-UD-D-26-12-10-2	
17	17-UD-D-26-0-0	UD	D	26	5	1	0-5		VT	LF				0	0	VT	IF			0	0	4	4	8		WR	17-UD-D-26-0-0-3	
17	17-UD-D-26-30-156	UD	D	26	6	19-56	152		VT	LF/POR				30	156	VT	LOF			30	156	60	0	60		WR	17-UD-D-26-30-156-4	
17	17-UD-D-26-38-126	UD	D	26	7	38	119		VT	TC				38	126	VT	G			38	126	0	2	2		WR	17-UD-D-26-38-126-5	
17	17-UD-D-26-0-156	UD	D	26					VT					0	156	VT	WI			0	156	4	4	8		WR	17-UD-D-26-0-156-6	
17	17-UD-D-26-30-0	UD	D	26					VT					30	0	VT	WI			30	0	60	0	60		WR	17-UD-D-26-30-0-11	
17	17-UD-D-26-45-126	UD	D	26					VT					45	126	VT	G			45	126	0	2	2		WR	17-UD-D-26-45-126-8	
17	17-UD-D-26-60-0	UD	D	26					VT					60	0	VT	WI			60	0	4	4	8		WR	17-UD-D-26-60-0-10	
17	17-UD-D-26-60-126	UD	D	26					VT					60	126	VT	RI			60	126	2	11	13		WR	17-UD-D-26-60-126-9	
17	17-UD-D-26-60-156	UD	D	26					VT					60	156	VT	WI			60	156	4	4	8		WR	17-UD-D-26-60-156-7	
17	17-UD-D-27-14-66	UD	D	27	1	14	66		VT	TC				14	66	VT	UC			14	66	2	0	2		WR	17-UD-D-27-14-66-1	
17	17-UD-D-27-32-96	UD	D	27	2	32	96		VT	POR				32	96	VT	RI			32	96	0	4	4		WR	17-UD-D-27-32-96-2	
17	17-UD-D-27-1-149	UD	D	27	4	1	149		VT	LF				1	149	VT	LOF			0	156	4	4	8		WR	17-UD-D-27-1-149-3	
17	17-UD-D-27-0-59	UD	D	27					VT					0	59	VT	RI			0	59	0	5	5		WR	17-UD-D-27-0-59-4	
17	17-UD-D-28-42-1	UD	D	28	1	42	1		VT	POR				42	1	VT	P			39	0	39	0	39		WR	17-UD-D-28-39-0-1	
17	17-UD-D-28-58-27	UD	D	28	3	58	26-28		VT	PORX2				58	27	VT	P			60	46	0	92	92		WR	17-UD-D-28-60-46-13	
17	17-UD-D-28-1-111	UD	D	28	5	1	111		VT	POR				1	111	VT	RI			1	111	0	6	6		WR	17-UD-D-28-1-111-2	
17	17-UD-D-28-58-145	UD	D	28	6	58	145		VT	POR				58	145	VT	P			58	145	0	8	8		WR	17-UD-D-28-58-145-3	
17	17-UD-D-28-31-86	UD	D	28	7	28-34	86		VT	POR				31	86	VT	UC			31	86	12	12	24		WR	17-UD-D-28-31-86-4	
17	17-UD-D-28-0-0	UD	D	28					VT					0	0	VT	G			0	0	4	4	8		WR	17-UD-D-28-0-0-11	
17	17-UD-D-28-0-12	UD	D	28					VT					0	12	VT	RI			0	12	0	5	5		WR	17-UD-D-28-0-12-10	
17	17-UD-D-28-0-156	UD	D	28					VT					0	156	VT	LOF			0	156	0	4	4		WR	17-UD-D-28-0-156-7	
17	17-UD-D-28-0-55	UD	D	28					VT					0	55	VT	RI			0	55	0	54	54		WR	17-UD-D-28-0-55-9	
17	17-UD-D-28-31-156	UD	D	28					VT					31	156	VT	UC			31	156	25	0	25		WR	17-UD-D-28-31-156-6	
17	17-UD-D-28-57-114	UD	D	28					VT					57	114	VT	RI			57	114	0	20	20		WR	17-UD-D-28-57-114-8	
17	17-UD-D-28-60-0	UD	D	28					VT					60	0	VT	IF			60	0	4	4	8		WR	17-UD-D-28-60-0-12	
17	17-UD-D-28-60-156	UD	D	28					VT					60	156	VT	WI			60	156	4	4	8		WR	17-UD-D-28-60-156-5	
17	17-UD-D-29-49-4	UD	D	29	1	49	4		VT	POR				49	4	VT	P			49	4	2	0	2		WR	17-UD-D-29-49-4-12	
17	17-UD-D-29-0-0	UD	D	29	2	1	3		VT	POR				0	0	VT	P			0	0	4	4	8		WR	17-UD-D-29-0-0-1	
17	17-UD-D-29-1-42	UD	D	29	3	1	40-42		VT	POR				1	42	VT	RI			1	42	0	20	20		WR	17-UD-D-29-1-42-2	
17	17-UD-D-29-50-0	UD	D	29	4	50	1		VT	POR				50	0	VT	P			50	0	4	4	8		WR	17-UD-D-29-50-0-3	
17	17-UD-D-29-1-73	UD	D	29	5	1	73		VT	POR				1	73	VT	RI			1	73	0	10	10		WR	17-UD-D-29-1-73-4	
17	17-UD-D-29-14-78	UD	D	29	6	14	78		VT	TC				14	78	VT	G			14	78	0	2	2		WR	17-UD-D-29-14-78-5	
17	17-UD-D-29-21-125	UD	D	29	7	21	125		VT	TC				21	125	VT	G			21	125	0	2	2		WR	17-UD-D-29-21-125-6	
17	17-UD-D-29-19-148	UD	D	29	8	19	143-146		VT	POR				19	148	VT	P			19	148	0	10	10		WR	17-UD-D-29-19-148-7	
17	17-UD-D-29-0-153	UD	D	29	9	0	153		VT	LF				0	153	VT	RI			0	153	4	4	8		WR	17-UD-D-29-0-153-8	
17	17-UD-D-29-0-83	UD	D	29					VT					0	83	VT	RI			0	83	3	3	6		WR	17-UD-D-29-0-83-9	
17	17-UD-D-29-18-156	UD	D	29					VT					18	156	VT	RI			18	156	4	4	8		WR	17-UD-D-29-18-156-11	
17	17-UD-D-29-8-156	UD	D	29					VT					8	156	VT	LOF			8	156	3	3	6		WR	17-UD-D-29-8-156-10	
17	17-UD-D-30-1-7	UD	D	30	1	1	0-14		VT	LF				1	7	VT	LOF			18	60	4	36	40		WR	17-UD-D-30-18-60-1	
17	17-UD-D-30-59-51	UD	D	30	4	59	72		VT	POR				59	51	VT	RI			59	51	0	11	11		WR	17-UD-D-30-59-51-2	
17	17-UD-D-30-0-0	UD	D	30	5	2	4		VT	TC/SLAG				0	0	VT	G			0	0	4	4	8		WR	17-UD-D-30-0-0-3	
17	17-UD-D-30-4-96	UD	D	30	6	3-5	96		VT	TC				4	96	VT	D			4	96	8	8	32	64	TSPP	17-UD-D-30-4-96-4	

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Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report								EEL Prove Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications			
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift (in)	Indication X (in)	Indication Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Indication X (in)	Center of Indication Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair X (in)		Center of Repair Y (in)	Width or Dia (in)	Height (in)
17	17-UD-D-30-60-156	UD	D	30	8	60	151	VT	POR				60	156	VT	P			60	156	4	4	8		WR	17-UD-D-30-60-156-5		
17	17-UD-D-30-38-156	UD	D	30	10	38	152	VT	TC		?		38	156	VT	TS			38	156	0	2	2		WR	17-UD-D-30-38-156-6		
17	17-UD-D-30-0-156	UD	D	30									0	156	VT	WI			0	156	4	4	8		WR	17-UD-D-30-0-156-7		
17	17-UD-D-30-10-0	UD	D	30									10	0	VT	WI			10	0	4	4	8		WR	17-UD-D-30-10-0-12		
17	17-UD-D-30-14-156	UD	D	30									14	156	VT	WI			14	156	18	0	18		WR	17-UD-D-30-14-156-8		
17	17-UD-D-30-23-17	UD	D	30									23	17	VT	WI			23	17	6	0	6		WR	17-UD-D-30-23-17-10		
17	17-UD-D-30-60-0	UD	D	30									60	0	VT	UC			60	0	13	21	34		WR	17-UD-D-30-60-0-11		
17	17-UD-D-30-60-123	UD	D	30									60	123	VT	RI			60	123	0	5	5		WR	17-UD-D-30-60-123-9		
17	17-UD-D-31-172	UD	D	31	1	1	72	VT	LF				1	72	VT	LOF			1	72	0	5	5		WR	17-UD-D-31-172-1		
17	17-UD-D-31-39-75	UD	D	31	2	39	74.77	VT	POR				39	75	VT	P			39	75	0	8	8		WR	17-UD-D-31-39-75-2		
17	17-UD-D-31-147	UD	D	31	3	1	47	VT	POR				1	47	VT	RI			1	47	0	4	4		WR	17-UD-D-31-147-3		
17	17-UD-D-31-39-43	UD	D	31	4	41	36	VT	POR				39	43	VT	RI			39	43	0	18	18		WR	17-UD-D-31-39-43-4		
17	17-UD-D-31-37-33	UD	D	31	5	37	33	VT	TC		0.100		37	33	VT	G			37	33	0	2	2		WR	17-UD-D-31-37-33-5		
17	17-UD-D-31-33-10	UD	D	31	6	33	10	VT	TC		0.140		33	10	VT	G			33	10	0	2	2		WR	17-UD-D-31-33-10-6		
17	17-UD-D-31-3-1	UD	D	31	7	2-5	1	VT	UC/POR		0.170		3	1	VT	UC			3	1	0	13	26	39		WR	17-UD-D-31-3-1-0-7	
17	17-UD-D-31-0-156	UD	D	31									0	156	VT	WI			0	156	4	4	8		WR	17-UD-D-31-0-156-9		
17	17-UD-D-31-50-0	UD	D	31									50	0	VT	UC			50	0	4	4	8		WR	17-UD-D-31-50-0-8		
17	17-UD-D-32-59-145	UD	D	32	1	59	145	VT	POR				59	145	VT	G			60	156	12	26	38		WR	17-UD-D-32-59-145-1		
17	17-UD-D-32-31-153	UD	D	32	4	30-32	153	VT	POR				31	153	VT	UC			32	145	28	0	28		WR	17-UD-D-32-31-153-2		
17	17-UD-D-32-12-90	UD	D	32	7	12	90	VT	Dent		0.140		12	90	VT	D			34	90	14	14	56	196	PP	17-UD-D-32-12-90-3		
17	17-UD-D-32-23-86	UD	D	32	8	23	86	VT	Dent		0.150		23	86	VT	G			23	86	0	2	2		WR	17-UD-D-32-23-86-4		
17	17-UD-D-32-51-99	UD	D	32	9	51	99	VT	Dent		0.190		51	99	VT	D			51	99	6	0	19	28		WR	17-UD-D-32-51-99-5	
17	17-UD-D-32-0-1	UD	D	32	10	0-4	1	VT	UC		0.090		0	1	VT	IF			0	1	4	4	8		WR	17-UD-D-32-0-1-6		
17	17-UD-D-32-60-27	UD	D	32	11	60	27	VT	POR				60	27	VT	RI			60	27	0	37	37		WR	17-UD-D-32-60-27-8		
17	17-UD-D-32-0-56	UD	D	32	13	60	27	VT	POR				0	56	VT	RI			60	27	0	12	12		WR	17-UD-D-32-60-27-8		
17	17-UD-D-32-0-56	UD	D	32	14	1	56	VT	POR				0	56	VT	RI			0	56	0	5	5		WR	17-UD-D-32-0-56-9		
17	17-UD-D-32-0-104	UD	D	32									0	104	VT	RI			0	104	0	14	14		WR	17-UD-D-32-0-104-15		
17	17-UD-D-32-20-104	UD	D	32									20	104	VT	G			20	104	0	2	2		WR	17-UD-D-32-20-104-12		
17	17-UD-D-32-58-114	UD	D	32									58	114	VT	RI			58	114	0	9	9		WR	17-UD-D-32-58-114-11		
17	17-UD-D-32-58-47	UD	D	32									58	47	VT	P			58	47	0	6	6		WR	17-UD-D-32-58-47-13		
17	17-UD-D-32-60-0	UD	D	32									60	0	VT	LOF			60	0	4	4	8		WR	17-UD-D-32-60-0-14		
17	17-UD-D-32-60-132	UD	D	32									60	132	VT	WI			60	132	4	4	8		WR	17-UD-D-32-60-132-10		
17	17-UD-D-33-48-31	UD	D	33	2	48	31	VT	POR				48	31	VT	P			48	31	0	4	4		WR	17-UD-D-33-48-31-1		
17	17-UD-D-33-34-79	UD	D	33	3	34	79	VT	POR				34	79	VT	P			34	79	0	4	4		WR	17-UD-D-33-34-79-2		
17	17-UD-D-33-1-33	UD	D	33	5	1	33	VT	POR				1	33	VT	P			1	33	0	6	6		WR	17-UD-D-33-1-33-3		
17	17-UD-D-33-1-96	UD	D	33	6	1	96	VT	POR				1	96	VT	P			1	96	9	12	21		WR	17-UD-D-33-1-96-4		
17	17-UD-D-33-1-60	UD	D	33	7	1	60	VT	POR				1	60	VT	P			1	60	0	36	36		WR	17-UD-D-33-1-60-5		
17	17-UD-D-33-4-128	UD	D	33	12	4	128	VT	TC		?		4	128	VT	TS			4	128	1	0	1		WR	17-UD-D-33-4-128-6		
17	17-UD-D-33-0-123	UD	D	33									0	123	VT	RI			0	123	0	2	2		WR	17-UD-D-33-0-123-11		
17	17-UD-D-33-16-151	UD	D	33									16	151	VT	UC			16	151	0	2	2		WR	17-UD-D-33-16-151-9		
17	17-UD-D-33-18-156	UD	D	33									18	156	VT	LOF			18	156	9	0	9		WR	17-UD-D-33-18-156-8		
17	17-UD-D-33-19-147	UD	D	33									19	147	VT	P			19	147	0	5	5		WR	17-UD-D-33-19-147-10		
17	17-UD-D-33-23-120	UD	D	33									23	120	VT	RI			23	120	0	16	16		WR	17-UD-D-33-23-120-12		
17	17-UD-D-33-9-156	UD	D	33									9	156	VT	RI			9	156	18	0	18		WR	17-UD-D-33-9-156-7		
17	17-UD-D-34-60-1	UD	D	34	1	60	1	VT	POR				60	1	VT	P			60	1	0	4	4		WR	17-UD-D-34-60-1-1		
17	17-UD-D-34-44-5	UD	D	34	2	44	47	VT	TC/SLAG		0.093		44	5	VT	G			44	5	0	4	4		WR	17-UD-D-34-44-5-2		
17	17-UD-D-34-60-54	UD	D	34	3	60	52.56	VT	POR				60	54	VT	P			60	54	0	12	12		WR	17-UD-D-34-60-54-3		
17	17-UD-D-34-59-101	UD	D	34	5	59	101-102	VT	UC/POR		?		59	101	VT	UC			59	101	0	4	4		WR	17-UD-D-34-59-101-4		
17	17-UD-D-34-0-0	UD	D	34									0	0	VT	IF			0	0	0	4	4		WR	17-UD-D-34-0-0-5		
17	17-UD-D-34-0-146	UD	D	34									0	146	VT	P			0	146	0	2	2		WR	17-UD-D-34-0-146-7		
17	17-UD-D-34-12-157	UD	D	34									12	157	VT	P			12	157	6	0	6		WR	17-UD-D-34-12-157-8		
17	17-UD-D-34-24-157	UD	D	34									24	157	VT	P			24	157	6	0	6		WR	17-UD-D-34-24-157-9		
17	17-UD-D-34-39-50	UD	D	34									39	50	VT	P			39	50	6	0	6		WR	17-UD-D-34-39-50-6		
17	17-UD-D-34-40-157	UD	D	34									40	157	VT	P			40	157	12	0	12		WR	17-UD-D-34-40-157-10		
17	17-UD-D-35-38-53	UD	D	35	2	38	53-55	VT	POR		0.100		38	53	VT	P			38	53	0	10	10		WR	17-UD-D-35-38-53-1		
17	17-UD-D-35-15-88	UD	D	35	3	15	88	VT	TC				15	88	VT	TS			15	88	8	8	32	64	PP	17-UD-D-35-15-88-2		

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Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report										EEL Probe Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex ID on Plate	X Coordinate (in)	Y Coordinate (in)	Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside Indication(in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	
17	17-UD-D-35-34-25	UD	D	35	4	34	25	153	VT	TC		0.100	34	25	VT	TS			34	25	0	2	2		WR	17-UD-D-35-34-25-3
17	17-UD-D-35-18-156	UD	D	35	5	15-20			VT	LF/POR			18	156	VT	LOF			18	156	4	4	8		WR	17-UD-D-35-18-156-4
17	17-UD-D-35-0-120	UD	D	35									0	120	VT	RI			0	120	0	4	4		WR	17-UD-D-35-0-120-8
17	17-UD-D-35-0-156	UD	D	35									0	156	VT	WI			0	156	4	4	8		WR	17-UD-D-35-0-156-5
17	17-UD-D-35-1-132	UD	D	35									1	132	VT	G			1	132	0	2	2		WR	17-UD-D-35-1-132-7
17	17-UD-D-35-19-0	UD	D	35									19	0	VT	WI			19	0	3	3	6		WR	17-UD-D-35-19-0-9
17	17-UD-D-35-9-156	UD	D	35									9	156	VT	WI			9	156	18	0	18		WR	17-UD-D-35-9-156-6
17	17-UD-D-36-6-1	UD	D	36	1	4-8	1		VT	POR			6	1	VT	P			6	1	20	0	20		WR	17-UD-D-36-10-0-1
17	17-UD-D-36-53-1	UD	D	36	3	53	1		VT	POR			53	1	VT	P			53	1	2	0	2		WR	17-UD-D-36-53-1-10
17	17-UD-D-36-14-83	UD	D	36	4	14	83		VT	TC		0.100	14	83	VT	G			14	83	0	2	2		WR	17-UD-D-36-14-83-2
17	17-UD-D-36-30-156	UD	D	36	5	0-56	153		VT	POR			30	156	VT	LOF			30	156	60	0	60		WR	17-UD-D-36-30-156-3
17	17-UD-D-36-0-11	UD	D	36									0	11	VT	WI			0	11	3	3	6		WR	17-UD-D-36-0-11-7
17	17-UD-D-36-0-147	UD	D	36									0	147	VT	IF			0	147	0	18	18		WR	17-UD-D-36-0-147-4
17	17-UD-D-36-0-156	UD	D	36									0	156	VT	LOF			0	156	4	4	8		WR	17-UD-D-36-0-156-5
17	17-UD-D-36-53-0	UD	D	36									53	0	VT	WI			53	0	3	3	6		WR	17-UD-D-36-53-0-9
17	17-UD-D-36-60-0	UD	D	36									60	0	VT	WI			60	0	4	4	8		WR	17-UD-D-36-60-0-8
17	17-UD-D-36-60-156	UD	D	36									60	156	VT	LOF			60	156	4	4	8		WR	17-UD-D-36-60-156-6
17	17-UD-D-37-41-36	UD	D	37	1	42	32-36		VT	POR			41	36	VT	RI			41	36	4	18	18		WR	17-UD-D-37-41-36-1
17	17-UD-D-37-0-94	UD	D	37	4	1	90		VT	POR			0	94	VT	P			0	94	0	4	4		WR	17-UD-D-37-0-94-2
17	17-UD-D-37-0-108	UD	D	37	5	1	104-105		VT	POR			0	108	VT	P			0	108	0	6	6		WR	17-UD-D-37-0-108-3
17	17-UD-D-37-0-156	UD	D	37	6	2	153		VT	POR			0	156	VT	P			0	156	4	4	8		WR	17-UD-D-37-0-156-4
17	17-UD-D-37-9-156	UD	D	37	7	7-14	153		VT	POR			9	156	VT	P			9	156	18	0	18		WR	17-UD-D-37-9-156-5
17	17-UD-D-37-0-134	UD	D	37	8	1	147		VT	POR			0	134	VT	P			0	134	0	44	44		WR	17-UD-D-37-0-134-6
17	17-UD-D-37-0-0	UD	D	37									0	0	VT	UC			0	0	4	4	8		WR	17-UD-D-37-0-0-7
17	17-UD-D-37-14-0	UD	D	37									14	0	VT	WI			14	0	8	0	8		WR	17-UD-D-37-14-0-9
17	17-UD-D-37-18-156	UD	D	37									18	156	VT	LOF			18	156	4	4	8		WR	17-UD-D-37-18-156-11
17	17-UD-D-37-25-0	UD	D	37									25	0	VT	P			25	0	12	0	12		WR	17-UD-D-37-25-0-10
17	17-UD-D-37-4-152	UD	D	37									4	152	VT	G			4	152	0	2	2		WR	17-UD-D-37-4-152-13
17	17-UD-D-37-50-0	UD	D	37									50	0	VT	LOF			50	0	4	4	8		WR	17-UD-D-37-50-0-8
17	17-UD-D-37-9-156	UD	D	37									9	156	VT	RI			9	156	18	0	18		WR	17-UD-D-37-9-156-12
17	17-UD-D-38-0-156	UD	D	38	1	3	151		VT	LF			0	156	VT	LOF			0	156	4	4	8		WR	17-UD-D-38-0-156-1
17	17-UD-D-38-33-153	UD	D	38	2	33	153		VT	POR			33	153	VT	P			30	156	60	0	60		WR	17-UD-D-38-30-156-2
17	17-UD-D-38-60-153	UD	D	38	5	60	153		VT	POR			60	153	VT	P			60	153	4	4	8		WR	17-UD-D-38-60-153-3
17	17-UD-D-38-55-146	UD	D	38	6	55	146		VT	TC		0.300	55	146	VT	P			55	146	10	10	40	100	TSPP	17-UD-D-38-55-146-4
17	17-UD-D-38-0-147	UD	D	38	7	1	143-146		VT	POR			0	147	VT	D			0	147	0	18	18		WR	17-UD-D-38-0-147-5
17	17-UD-D-38-59-26	UD	D	38	8	59	26		VT	POR			59	26	VT	RI			59	26	0	4	4		WR	17-UD-D-38-59-26-6
17	17-UD-D-38-60-0	UD	D	38	10	60	1		VT	POR			60	0	VT	RI			60	0	4	4	8		WR	17-UD-D-38-60-0-7
17	17-UD-D-38-26-75	UD	D	38	11	26	75		VT	TC		0.100	26	75	VT	G			26	75	0	2	2		WR	17-UD-D-38-26-75-8
17	17-UD-D-38-22-54	UD	D	38	12	22	54		VT	TC		0.100	22	54	VT	G			22	54	0	2	2		WR	17-UD-D-38-22-54-9
17	17-UD-D-38-0-0	UD	D	38									0	0	VT	WI			0	0	4	4	8		WR	17-UD-D-38-0-0-10
17	17-UD-D-38-38-0	UD	D	38									38	0	VT	UC			38	0	46	0	46		WR	17-UD-D-38-38-0-11
17	17-UD-D-39-27-115	UD	D	39	5	28	104		VT	LF			27	115	VT	RI			27	115	0	4	4		WR	17-UD-D-39-27-115-1
17	17-UD-D-39-0-0	UD	D	39	7	1	1		VT	POR			0	0	VT	RI			0	0	8	14	22		WR	17-UD-D-39-0-0-2
17	17-UD-D-39-1-52	UD	D	39	8	1	32-53		VT	POR			1	52	VT	P			1	52	0	42	42		WR	17-UD-D-39-1-52-3
17	17-UD-D-39-12-49	UD	D	39	9	12	49		VT	TC		0.093	12	49	VT	G			12	49	0	2	2		WR	17-UD-D-39-12-49-4
17	17-UD-D-39-40-0	UD	D	39	10	37-40	1		VT	POR			40	0	VT	P			40	0	12	0	12		WR	17-UD-D-39-40-0-5
17	17-UD-D-39-39-39	UD	D	39	11	44	23		VT	POR			39	39	VT	LOF			39	39	0	52	52		WR	17-UD-D-39-39-39-6
17	17-UD-D-39-0-14	UD	D	39									0	14	VT	RI			0	14	3	3	6		WR	17-UD-D-39-0-14-7
17	17-UD-D-39-0-156	UD	D	39									0	156	VT	WI			0	156	4	4	8		WR	17-UD-D-39-0-156-8
17	17-UD-D-39-18-156	UD	D	39									18	156	VT	WI			18	156	4	4	8		WR	17-UD-D-39-18-156-9
17	17-UD-D-39-9-156	UD	D	39									9	156	VT	WI			9	156	18	0	18		WR	17-UD-D-39-9-156-10
17	17-UD-D-40-16-153	UD	D	40	1	16	153		VT	POR			16	153	VT	P			30	156	60	0	60		WR	17-UD-D-40-30-156-1
17	17-UD-D-40-59-156	UD	D	40	3	59	152		VT	POR			59	156	VT	P			59	156	10	10	20		WR	17-UD-D-40-59-156-2
17	17-UD-D-40-0-44	UD	D	40	4	1	39-47		VT	PORXS			0	44	VT	P			0	44	0	30	30		WR	17-UD-D-40-1-44-3
17	17-UD-D-40-59-9	UD	D	40	6	59	9		VT	POR			59	9	VT	P			59	9	0	17	17		WR	17-UD-D-40-59-9-4
17	17-UD-D-40-0-140	UD	D	40									0	140	VT	RI			0	140	0	4	4		WR	17-UD-D-40-0-140-10

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report								EEL Probe Up						Recommended Repairs						Repair Number: May Apply to Multiple Indications			
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)		Repair Type (Patch, Weld, Cap)		
17	17-UD-D-40-0-156	UD	D	40									0	156	VT	RI			0	156	4	4	8			WR	17-UD-D-40-0-156-11
17	17-UD-D-40-0-94	UD	D	40									0	94	VT	RI			0	94	3	3	6			WR	17-UD-D-40-0-94-8
17	17-UD-D-40-17-104	UD	D	40									17	104	VT	D			17	104	0	2	2			WR	17-UD-D-40-17-104-7
17	17-UD-D-40-31-94	UD	D	40									31	94	VT	RI			31	94	4	4	8			WR	17-UD-D-40-31-94-9
17	17-UD-D-40-58-44	UD	D	40									58	44	VT	RI			58	44	0	8	8			WR	17-UD-D-40-58-44-6
17	17-UD-D-40-60-0	UD	D	40									60	0	VT	LOF			60	0	4	4	8			WR	17-UD-D-40-60-0-5
17	17-UD-D-41-9-156	UD	D	41	1	3	9	153	VT	POR			9	156	VT	LOF			9	156	18	0	18			WR	17-UD-D-41-9-156-1
17	17-UD-D-41-1-131	UD	D	41	3	1	1	131	VT	POR			1	131	VT	P			1	131	3	3	6			WR	17-UD-D-41-1-131-2
17	17-UD-D-41-3-78	UD	D	41	4	4	3	78	VT	TC		0.110	3	78	VT	TS			3	78	6	6	24	36		TSPP	17-UD-D-41-3-78-3
17	17-UD-D-41-31-83	UD	D	41	5	3	31	83	VT	POR			31	83	VT	LOF			30	89	0	68	68			WR	17-UD-D-41-30-89-4
17	17-UD-D-41-0-37	UD	D	41	7	1	1	12	VT	POR			0	37	VT	P			0	37	2	75	77			WR	17-UD-D-41-0-37-5
17	17-UD-D-41-0-0	UD	D	41	8	1	0	3	VT	POR/LF			0	0	VT	P			0	0	4	4	8			WR	17-UD-D-41-0-0-6
17	17-UD-D-41-0-156	UD	D	41									0	156	VT	RI			0	156	4	4	8			WR	17-UD-D-41-0-156-7
17	17-UD-D-41-14-21	UD	D	41									14	21	VT	G			14	21	6	0	6			WR	17-UD-D-41-14-21-9
17	17-UD-D-41-18-156	UD	D	41									18	156	VT	RI			18	156	4	4	8			WR	17-UD-D-41-18-156-8
17	17-UD-D-41-47-8	UD	D	41									47	8	VT	P			47	8	0	8	8			WR	17-UD-D-41-47-8-11
17	17-UD-D-42-13-82	UD	D	42									13	82	VT	G			13	82	6	0	14	28		PP	17-UD-D-42-13-82-1
17	17-UD-D-42-0-156	UD	D	42	6	1	1	153	VT	POR			0	156	VT	P			0	156	4	4	8			WR	17-UD-D-42-0-156-2
17	17-UD-D-42-30-156	UD	D	42	7	30	31	153	VT	POR			30	156	VT	RI			30	156	60	0	60			WR	17-UD-D-42-30-156-3
17	17-UD-D-42-0-55	UD	D	42									0	55	VT	LOF			0	55	0	11	11			WR	17-UD-D-42-0-55-4
17	17-UD-D-42-0-86	UD	D	42									0	86	VT	RI			0	86	3	3	6			WR	17-UD-D-42-0-86-5
17	17-UD-D-42-33-144	UD	D	42									33	144	VT	G			33	144	0	2	2			WR	17-UD-D-42-33-144-6
17	17-UD-D-42-58-137	UD	D	42									58	137	VT	P			58	137	0	8	8			WR	17-UD-D-42-58-137-7
17	17-UD-D-42-60-156	UD	D	42									60	156	VT	WI			60	156	4	4	8			WR	17-UD-D-42-60-156-8
17	17-UD-D-43-18-156	UD	D	43	1	16	1	153	VT	POR			18	156	VT	LOF			18	156	4	4	8			WR	17-UD-D-43-18-156-1
17	17-UD-D-43-0-62	UD	D	43	2	1	1	79	VT	POR			0	62	VT	LOF			0	62	0	41	41			WR	17-UD-D-43-0-62-2
17	17-UD-D-43-29-57	UD	D	43	3	29	57	57	VT	TC		0.180	29	57	VT	G			29	57	6	0	19	28		PP	17-UD-D-43-29-57-3
17	17-UD-D-43-1-16	UD	D	43	4	1	0	26	VT	LF/SLAG		0.100	1	16	VT	UC			1	16	4	32	36			WR	17-UD-D-43-1-16-4
17	17-UD-D-43-47-20	UD	D	43	5	47	20	20	VT	POR			47	20	VT	P			47	20	0	4	4			WR	17-UD-D-43-47-20-5
17	17-UD-D-43-45-9	UD	D	43	6	45	9	45	VT	TC		0.093	45	9	VT	G			45	9	0	2	2			WR	17-UD-D-43-45-9-6
17	17-UD-D-43-25-0	UD	D	43	7	5	1	1	VT	POR			25	0	VT	P			25	0	50	0	50			WR	17-UD-D-43-25-0-7
17	17-UD-D-43-25-118	UD	D	43	8	25	118	121	VT	POR			25	118	VT	P			25	118	0	18	18			WR	17-UD-D-43-25-118-8
17	17-UD-D-43-0-110	UD	D	43									0	110	VT	P			0	110	0	4	4			WR	17-UD-D-43-0-110-12
17	17-UD-D-43-0-134	UD	D	43									0	134	VT	RI			0	134	0	4	4			WR	17-UD-D-43-0-134-11
17	17-UD-D-43-0-156	UD	D	43									0	156	VT	RI			0	156	4	4	8			WR	17-UD-D-43-0-156-9
17	17-UD-D-43-13-131	UD	D	43									13	131	VT	G			13	131	0	2	2			WR	17-UD-D-43-13-131-10
17	17-UD-D-44-30-156	UD	D	44	1	27	31	153	VT	POR			30	156	VT	P			30	156	60	0	60			WR	17-UD-D-44-30-156-1
17	17-UD-D-44-60-156	UD	D	44	2	60	146	153	VT	LF			60	156	VT	LOF			60	156	4	4	8			WR	17-UD-D-44-60-156-2
17	17-UD-D-44-46-94	UD	D	44	3	46	94	94	VT	TC		0.100	46	94	VT	G			46	94	0	2	2			WR	17-UD-D-44-46-94-3
17	17-UD-D-44-59-62	UD	D	44	4	59	90	107	VT	POR/UC/LF		0.090	59	62	VT	RI			59	62	0	22	22			WR	17-UD-D-44-59-62-4
17	17-UD-D-44-3-0	UD	D	44	5	4	1	1	VT	POR			3	0	VT	UC			3	0	4	0	4			WR	17-UD-D-44-3-0-5
17	17-UD-D-44-30-1	UD	D	44	6	30	1	1	VT	POR			30	1	VT	P			40	0	38	8	46			WR	17-UD-D-44-30-1-6
17	17-UD-D-44-60-0	UD	D	44	8	56	1	1	VT	POR			60	0	VT	P			60	0	36	18	54			WR	17-UD-D-44-60-0-7
17	17-UD-D-44-60-18	UD	D	44	10	60	18	18	VT	POR			60	18	VT	P			60	18	0	14	14			WR	17-UD-D-44-60-18-8
17	17-UD-D-44-1-141	UD	D	44	13	1	1	41	VT	POR			1	41	VT	P			0	35	4	40	44			WR	17-UD-D-44-0-35-9
17	17-UD-D-44-0-156	UD	D	44									0	156	VT	RI			0	156	4	4	8			WR	17-UD-D-44-0-156-13
17	17-UD-D-44-0-6	UD	D	44									0	6	VT	P			0	6	3	3	6			WR	17-UD-D-44-0-6-10
17	17-UD-D-44-32-19	UD	D	44									32	19	VT	G			32	19	0	2	2			WR	17-UD-D-44-32-19-11
17	17-UD-D-44-42-82	UD	D	44									42	82	VT	G			42	82	0	2	2			WR	17-UD-D-44-42-82-12
17	17-UD-D-45-17-153	UD	D	45	1	17	153	153	VT	UC		0.090	17	153	VT	LOF			17	153	4	4	8			WR	17-UD-D-45-17-153-1
17	17-UD-D-45-0-90	UD	D	45	2	1	81	81	VT	POR			0	90	VT	LOF			0	90	10	66	76			WR	17-UD-D-45-0-90-2
17	17-UD-D-45-0-48	UD	D	45	3	1	48	48	VT	UC		0.110	0	48	VT	UC			0	48	0	8	8			WR	17-UD-D-45-0-48-3
17	17-UD-D-45-38-57	UD	D	45	4	38	54	54	VT	POR			38	57	VT	P			38	57	0	11	11			WR	17-UD-D-45-38-57-4
17	17-UD-D-45-0-0	UD	D	45	5	3	1	1	VT	POR			0	0	VT	LOF			0	0	18	36	54			WR	17-UD-D-45-0-0-5
17	17-UD-D-45-0-111	UD	D	45									0	111	VT	P			0	111	3	3	6			WR	17-UD-D-45-0-111-13

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report								EEL Probe Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications		
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)		Repair Type (Patch, Weld, Cap)	
17	17-UD-D-45-0-119	UD	D	45										0	119	VT	P			0	119	3	3	6		WR	17-UD-D-45-0-119-12
17	17-UD-D-45-0-130	UD	D	45										0	130	VT	P			0	130	3	3	6		WR	17-UD-D-45-0-130-11
17	17-UD-D-45-0-140	UD	D	45										0	140	VT	P			0	140	3	3	6		WR	17-UD-D-45-0-140-10
17	17-UD-D-45-0-156	UD	D	45										0	156	VT	LOF			0	156	4	4	8		WR	17-UD-D-45-0-156-6
17	17-UD-D-45-0-31	UD	D	45										0	31	VT	RI			0	31	4	11	15		WR	17-UD-D-45-0-31-15
17	17-UD-D-45-30-30	UD	D	45										30	30	VT	D			30	30	8	8	32	64	PP	17-UD-D-45-30-30-8
17	17-UD-D-45-30-88	UD	D	45										30	88	VT	P			30	88	0	4	4		WR	17-UD-D-45-30-88-14
17	17-UD-D-45-60-0	UD	D	45										60	0	VT	RI			60	0	4	4	8		WR	17-UD-D-45-60-0-9
17	17-UD-D-45-9-156	UD	D	45										9	156	VT	LOF			9	156	18	0	18		WR	17-UD-D-45-9-156-7
17	17-UD-D-46-60-12	UD	D	46		1	60	6-15	VT	LF				60	12	VT	LOF			60	12	0	13	13		WR	17-UD-D-46-60-12-1
17	17-UD-D-46-60-26	UD	D	46		2	60	17-53	VT	POR				60	26	VT	RI			60	26	0	16	16		WR	17-UD-D-46-60-26-2
17	17-UD-D-46-24-35	UD	D	46		4	24	35	VT	Dent			0.130	24	35	VT	D			24	35	8	8	32	64	PP	17-UD-D-46-24-35-3
17	17-UD-D-46-0-0	UD	D	46		5	1	1	VT	TC/SLAG			?	0	0	VT	G			0	0	4	4	8		WR	17-UD-D-46-0-0-4
17	17-UD-D-46-56-106	UD	D	46		6	49	100	VT	POR				56	106	VT	P			56	106	0	30	30		WR	17-UD-D-46-56-106-5
17	17-UD-D-46-30-156	UD	D	46		8	60	153	VT	UC				30	156	VT	LOF			30	156	60	0	60		WR	17-UD-D-46-30-156-6
17	17-UD-D-46-0-50	UD	D	46		9	1	44-54	VT	POR/LF				0	50	VT	IF			0	50	0	20	20		WR	17-UD-D-46-0-50-7
17	17-UD-D-46-0-100	UD	D	46										0	100	VT	LOF			0	100	0	6	6		WR	17-UD-D-46-0-100-9
17	17-UD-D-46-0-156	UD	D	46										0	156	VT	RI			0	156	4	4	8		WR	17-UD-D-46-0-156-12
17	17-UD-D-46-30-0	UD	D	46										30	0	VT	RI			30	0	60	0	60		WR	17-UD-D-46-30-0-8
17	17-UD-D-46-59-138	UD	D	46										59	138	VT	P			59	138	0	7	7		WR	17-UD-D-46-59-138-10
17	17-UD-D-46-60-156	UD	D	46										60	156	VT	RI			60	156	4	4	8		WR	17-UD-D-46-60-156-11
17	17-UD-D-47-0-47-2	UD	D	47		1	47	2	VT	WG			0.205	47	2	VT	G			47	2	4	9	13		WR	17-UD-D-47-0-47-2-1
17	17-UD-D-47-30-16	UD	D	47		2	30	16	VT	TC			0.090	30	16	VT	G			30	16	0	2	2		WR	17-UD-D-47-30-16-2
17	17-UD-D-47-1-12	UD	D	47		3	1	13-17	VT	LOW FILL				1	12	VT	IF			1	12	0	13	13		WR	17-UD-D-47-1-12-3
17	17-UD-D-47-0-86	UD	D	47		5	0	72	VT	POR				0	86	VT	P			0	86	0	34	34		WR	17-UD-D-47-0-86-4
17	17-UD-D-47-13-106	UD	D	47		6	13	106	VT	TC			0.120	13	106	VT	TS			13	106	0	2	2		WR	17-UD-D-47-13-106-5
17	17-UD-D-47-31-80	UD	D	47		7	34	63	VT	POR				31	80	VT	P			31	80	0	70	70		WR	17-UD-D-47-31-80-6
17	17-UD-D-47-0-153	UD	D	47		11	0	153	VT	UC			?	0	153	VT	UC			0	153	4	4	8		WR	17-UD-D-47-0-153-7
17	17-UD-D-47-4-153	UD	D	47		12	4	153	VT	POR				4	153	VT	P			9	156	18	0	18		WR	17-UD-D-47-4-156-8
17	17-UD-D-47-0-106	UD	D	47										0	106	VT	RI			0	106	0	2	2		WR	17-UD-D-47-0-106-11
17	17-UD-D-47-0-152	UD	D	47										0	152	VT	LOF			0	152	0	7	7		WR	17-UD-D-47-0-152-9
17	17-UD-D-47-0-37	UD	D	47										0	37	VT	RI			0	37	4	4	8		WR	17-UD-D-47-0-37-13
17	17-UD-D-47-0-45	UD	D	47										0	45	VT	RI			0	45	0	11	11		WR	17-UD-D-47-0-45-12
17	17-UD-D-47-18-153	UD	D	47										18	153	VT	RI			18	153	4	4	8		WR	17-UD-D-47-18-153-10
17	17-UD-D-48-47-153	UD	D	48		1	47	153	VT	POR				47	153	VT	P			30	156	60	0	60		WR	17-UD-D-48-30-156-1
17	17-UD-D-48-16-78	UD	D	48		3	16	78	VT	Dent			0.190	16	78	VT	D			16	78	10	10	40	100	PP	17-UD-D-48-16-78-2
17	17-UD-D-48-0-84	UD	D	48		4	1	84	VT	POR				0	84	VT	P			0	84	0	4	4		WR	17-UD-D-48-0-84-3
17	17-UD-D-48-60-147	UD	D	48		5	61	123-153	VT	LF			?	60	147	VT	IF			60	147	0	18	18		WR	17-UD-D-48-60-147-4
17	17-UD-D-48-28-10	UD	D	48		6	28	10-12	VT	TC				28	10	VT	P			28	10	0	2	2		WR	17-UD-D-48-28-10-5
17	17-UD-D-48-0-0	UD	D	48										0	0	VT	RI			0	0	4	4	8		WR	17-UD-D-48-0-0-6
17	17-UD-D-48-0-156	UD	D	48										0	156	VT	RI			0	156	4	4	8		WR	17-UD-D-48-0-156-9
17	17-UD-D-48-29-54	UD	D	48										29	54	VT	G			29	54	0	2	2		WR	17-UD-D-48-29-54-8
17	17-UD-D-48-60-156	UD	D	48										60	156	VT	RI			60	156	4	4	8		WR	17-UD-D-48-60-156-10
17	17-UD-D-48-61-0	UD	D	48										61	0	VT	RI			61	0	4	4	8		WR	17-UD-D-48-61-0-7
17	17-UD-C-1-0-12	UD	C	1		1	0	12	VT	POR			0.090	0	12	VT	P			0	25	0	51	51		WR	17-UD-C-1-0-25-1
17	17-UD-C-1-0-81	UD	C	1		6	0	81	VT	POR				0	81	VT	P			0	66	0	16	16		WR	17-UD-C-1-0-66-2
17	17-UD-C-1-10-0	UD	C	1		8	10	0	VT	POR				10	0	VT	P			25	0	60	0	60		WR	17-UD-C-1-25-0-3
17	17-UD-C-1-19-153	UD	C	1		10	19	153	VT	POR				19	153	VT	P			30	156	60	0	60		WR	17-UD-C-1-30-156-4
17	17-UD-C-1-0-0	UD	C	1										0	0	VT	RI			0	0	4	4	8		WR	17-UD-C-1-0-0-16
17	17-UD-C-1-0-132	UD	C	1										0	132	VT	RI			0	132	4	4	8		WR	17-UD-C-1-0-132-8
17	17-UD-C-1-0-156	UD	C	1										0	156	VT	RI			0	156	4	4	8		WR	17-UD-C-1-0-156-6
17	17-UD-C-1-0-88	UD	C	1										0	88	VT	P			0	88	0	6	6		WR	17-UD-C-1-0-88-13
17	17-UD-C-1-48-64	UD	C	1										48	64	VT	G			48	64	0	2	2		WR	17-UD-C-1-48-64-11
17	17-UD-C-1-58-54	UD	C	1										58	54	VT	G			58	54	0	2	2		WR	17-UD-C-1-58-54-12
17	17-UD-C-1-60-0	UD	C	1										60	0	VT	RI			60	0	4	4	8		WR	17-UD-C-1-60-0-17
17	17-UD-C-1-60-10	UD	C	1										60	10	VT	P			60	10	0	21	21		WR	17-UD-C-1-60-10-18

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report								EEL Prove Up						Recommended Repairs								Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)			
17	17-UD-C-1-60-141	UD	C	1								60	141	VT	P			60	141	0	30	30		WR	17-UD-C-1-60-141-7		
17	17-UD-C-1-60-156	UD	C	1							0.100	60	156	VT	G			60	156	4	4	8		WR	17-UD-C-1-60-156-5		
17	17-UD-C-1-60-32	UD	C	1								60	32	VT	P			60	32	0	8	8		WR	17-UD-C-1-60-32-15		
17	17-UD-C-1-60-45	UD	C	1								60	45	VT	P			60	45	0	8	8		WR	17-UD-C-1-60-45-14		
17	17-UD-C-1-60-80	UD	C	1								60	80	VT	RI			60	80	4	38	42		WR	17-UD-C-1-60-80-10		
17	17-UD-C-1-6-120	UD	C	1								6	120	VT	D			6	120	6	0	19	28	PP	17-UD-C-1-6-120-9		
17	17-UD-C-2-0-99	UD	C	2	2	0	95	VT	POR			0	99	VT	P			0	99	0	12	12		WR	17-UD-C-2-0-99-1		
17	17-UD-C-2-0-66	UD	C	2	3	0	64	VT	POR			0	66	VT	RI			0	66	6	6	12		WR	17-UD-C-2-0-66-2		
17	17-UD-C-2-6-43	UD	C	2	4	6	48	VT	POR			6	43	VT	P			6	43	0	17	17		WR	17-UD-C-2-6-43-3		
17	17-UD-C-2-3-48	UD	C	2	5	3	48	VT	POR			3	48	VT	P			3	48	0	6	6		WR	17-UD-C-2-3-48-4		
17	17-UD-C-2-7-36	UD	C	2	6	7	36	VT	POR			7	36	VT	P			8	29	0	22	22		WR	17-UD-C-2-7-36-5		
17	17-UD-C-2-0-32	UD	C	2	8	0	31	VT	POR			0	32	VT	P			0	32	0	44	44		WR	17-UD-C-2-0-32-6		
17	17-UD-C-2-23-48	UD	C	2	9	23	48	VT	TC	0.090		23	48	VT	TS			23	48	0	6	6		WR	17-UD-C-2-23-48-7		
17	17-UD-C-2-49-62	UD	C	2	10	49	62	VT	POR			49	62	VT	P			49	62	0	6	6		WR	17-UD-C-2-49-62-8		
17	17-UD-C-2-49-150	UD	C	2	11	49	150	VT	POR			49	150	VT	P			49	150	6	6	12		WR	17-UD-C-2-49-150-9		
17	17-UD-C-2-50-156	UD	C	2	12	49	159	VT	POR X3			50	156	VT	P			50	156	4	4	8		WR	17-UD-C-2-50-156-10		
17	17-UD-C-2-25-156	UD	C	2	13	30	159	VT	POR			25	156	VT	P			25	156	51	0	51		WR	17-UD-C-2-25-156-11		
17	17-UD-C-2-0-0	UD	C	2								0	0	VT	RI			0	0	4	4	8		WR	17-UD-C-2-0-0-13		
17	17-UD-C-2-14-0	UD	C	2								14	0	VT	RI			14	0	4	4	8		WR	17-UD-C-2-14-0-15		
17	17-UD-C-2-156-0	UD	C	2								156	0	VT	RI			156	0	4	4	8		WR	17-UD-C-2-156-0-22		
17	17-UD-C-2-156-21	UD	C	2								156	21	VT	RI			156	21	3	3	6		WR	17-UD-C-2-156-21-21		
17	17-UD-C-2-25-0	UD	C	2								25	0	VT	RI			25	0	4	4	8		WR	17-UD-C-2-25-0-16		
17	17-UD-C-2-27-11	UD	C	2								27	11	VT	P			27	11	0	6	6		WR	17-UD-C-2-27-11-17		
17	17-UD-C-2-27-69	UD	C	2								27	69	VT	P			27	69	0	5	5		WR	17-UD-C-2-27-69-18		
17	17-UD-C-2-34-0	UD	C	2								34	0	VT	UC			34	0	75	0	75		WR	17-UD-C-2-34-0-12		
17	17-UD-C-2-75-0	UD	C	2								75	0	VT	RI			75	0	4	4	8		WR	17-UD-C-2-75-0-14		
17	17-UD-C-2-76-0	UD	C	2								76	0	VT	P			76	0	0	7	7		WR	17-UD-C-2-76-0-20		
17	17-UD-C-2-76-58	UD	C	2								76	58	VT	P			76	58	2	4	6		WR	17-UD-C-2-76-58-19		
17	17-UD-C-3-0-0	UD	C	3	1	0	0	VT	TC	0.100		0	0	VT	RI			0	0	4	4	8		WR	17-UD-C-3-0-0-1		
17	17-UD-C-3-19-0	UD	C	3	2	17-21	0	VT	POR			19	0	VT	UC			30	0	60	0	60		WR	17-UD-C-3-0-0-2		
17	17-UD-C-3-60-12	UD	C	3	5	59	12	VT	POR			60	12	VT	P			60	12	0	12	12		WR	17-UD-C-3-60-12-3		
17	17-UD-C-3-59-36	UD	C	3	6	59	36	VT	POR			59	36	VT	P			59	36	0	9	9		WR	17-UD-C-3-59-36-4		
17	17-UD-C-3-41-47	UD	C	3	8	41	47	VT	TC	0.100		41	47	VT	RI			41	47	0	2	2		WR	17-UD-C-3-41-47-5		
17	17-UD-C-3-0-120	UD	C	3	9	0	120	VT	POR			0	120	VT	P			0	116	0	44	44		WR	17-UD-C-3-0-116-6		
17	17-UD-C-3-0-150	UD	C	3	11	0	147	VT	POR			0	150	VT	P			0	150	3	3	6		WR	17-UD-C-3-0-150-7		
17	17-UD-C-3-35-156	UD	C	3	12	41	157	VT	POR			35	156	VT	P			35	156	6	0	6		WR	17-UD-C-3-35-156-8		
17	17-UD-C-3-0-156	UD	C	3								0	156	VT	RI			0	156	4	4	8		WR	17-UD-C-3-0-156-9		
17	17-UD-C-3-0-27	UD	C	3								0	27	VT	RI			0	27	13	13	26		WR	17-UD-C-3-0-27-17		
17	17-UD-C-3-0-60	UD	C	3								0	60	VT	RI			0	60	4	4	8		WR	17-UD-C-3-0-60-16		
17	17-UD-C-3-0-72	UD	C	3								0	72	VT	P			0	72	0	6	6		WR	17-UD-C-3-0-72-15		
17	17-UD-C-3-11-108	UD	C	3								11	108	VT	UC			11	108	2	0	2		WR	17-UD-C-3-11-108-14		
17	17-UD-C-3-57-156	UD	C	3								57	156	VT	IF			57	156	3	3	6		WR	17-UD-C-3-57-156-10		
17	17-UD-C-3-58-121	UD	C	3								58	121	VT	P			58	121	0	9	9		WR	17-UD-C-3-58-121-12		
17	17-UD-C-3-59-92	UD	C	3								59	92	VT	IF			59	92	3	3	6		WR	17-UD-C-3-59-92-13		
17	17-UD-C-3-60-130	UD	C	3								60	130	VT	IF			60	130	4	5	9		WR	17-UD-C-3-60-130-11		
17	17-UD-C-4-18-0	UD	C	4	1	3-12	0	VT	UC/POR	0.090		18	0	VT	UC			18	0	36	0	36		WR	17-UD-C-4-18-0-1		
17	17-UD-C-4-0-20	UD	C	4	2	0	20	VT	POR			0	20	VT	P			0	24	0	26	26		WR	17-UD-C-4-0-24-2		
17	17-UD-C-4-11-24	UD	C	4	4	10	28	VT	POR			11	24	VT	P			11	24	0	10	10		WR	17-UD-C-4-11-24-3		
17	17-UD-C-4-8-40	UD	C	4	5	8	40	VT	POR			8	40	VT	P			8	40	0	8	8		WR	17-UD-C-4-8-40-4		
17	17-UD-C-4-4-64	UD	C	4	6	4	64	VT	POR			4	64	VT	P			4	64	3	3	6		WR	17-UD-C-4-4-64-5		
17	17-UD-C-4-3-68	UD	C	4	7	3	68	VT	POR			3	68	VT	P			3	68	3	3	6		WR	17-UD-C-4-3-68-6		
17	17-UD-C-4-65-44	UD	C	4	8	65	44	VT	POR			65	44	VT	P			65	44	0	4	4		WR	17-UD-C-4-65-44-7		
17	17-UD-C-4-65-55	UD	C	4	9	65	55	VT	POR			65	55	VT	P			65	55	0	4	4		WR	17-UD-C-4-65-55-8		
17	17-UD-C-4-65-62	UD	C	4	10	65	62	VT	POR			65	62	VT	P			65	62	0	9	9		WR	17-UD-C-4-65-62-9		
17	17-UD-C-4-70-75	UD	C	4	11	70	75	VT	POR			70	75	VT	P			70	75	0	4	4		WR	17-UD-C-4-70-75-10		
17	17-UD-C-4-26-93	UD	C	4	12	26	93	VT	UC	0.100		26	93	VT	UC			26	93	0	10	10		WR	17-UD-C-4-26-93-11		

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report										EET Prove Up						Recommended Repairs										Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness (in)	Depth or Topside Indication (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)							
17	17-UD-C-4-65-157	UD	C	4	13	65	157	VT	POR				65	157	VT	P			65	157	4	4	8		WR	17-UD-C-4-65-157-12					
17	17-UD-C-4-0-0	UD	C	4									0	0	VT	P			0	0	4	4	8		WR	17-UD-C-4-0-0-13					
17	17-UD-C-4-0-68	UD	C	4									0	68	VT	UC			0	68	0	4	4		WR	17-UD-C-4-0-68-18					
17	17-UD-C-4-0-80	UD	C	4									0	80	VT	LOF			0	80	4	4	8		WR	17-UD-C-4-0-80-19					
17	17-UD-C-4-15-1	UD	C	4									15	1	VT	P			15	1	4	4	8		WR	17-UD-C-4-15-1-14					
17	17-UD-C-4-19-9	UD	C	4									19	9	VT	G			19	9	2	0	2		WR	17-UD-C-4-19-9-16					
17	17-UD-C-4-2-72	UD	C	4									2	72	VT	RI			2	72	3	3	6		WR	17-UD-C-4-2-72-20					
17	17-UD-C-4-35-0	UD	C	4									35	0	VT	P			35	0	3	3	6		WR	17-UD-C-4-35-0-15					
17	17-UD-C-4-76-0	UD	C	4									76	0	VT	RI			76	0	7	7	14		WR	17-UD-C-4-76-0-17					
17	17-UD-C-5-60-156	UD	C	5	1	58	159	VT	POR				60	156	VT	P			60	156	4	4	8		WR	17-UD-C-5-60-156-6					
17	17-UD-C-5-58-60	UD	C	5	2	58	60	VT	POR				58	60	VT	P			58	60	0	19	19		WR	17-UD-C-5-58-60-2					
17	17-UD-C-5-58-33	UD	C	5	3	58	30	VT	POR				58	33	VT	P			58	33	0	12	12		WR	17-UD-C-5-58-33-3					
17	17-UD-C-5-10-0	UD	C	5	4	10	0	VT	POR				10	0	VT	P			30	0	60	0	60		WR	17-UD-C-5-30-0-4					
17	17-UD-C-5-0-0	UD	C	5									0	0	VT	RI			0	0	4	4	8		WR	17-UD-C-5-0-0-8					
17	17-UD-C-5-0-156	UD	C	5									0	156	VT	RI			0	156	4	4	8		WR	17-UD-C-5-0-156-5					
17	17-UD-C-5-0-72	UD	C	5									0	72	VT	P			0	72	0	4	4		WR	17-UD-C-5-0-72-7					
17	17-UD-C-5-30-156	UD	C	5									30	156	VT	P			30	156	38	0	38		WR	17-UD-C-5-30-156-6					
17	17-UD-C-6-7-0	UD	C	6	1	0	3	VT	POR				7	0	VT	P			7	0	7	0	10		WR	17-UD-C-6-7-0-1					
17	17-UD-C-6-7-0	UD	C	6	2	5	0	VT	POR				75	0	VT	P			75	0	4	4	8		WR	17-UD-C-6-75-0-3					
17	17-UD-C-6-10-24	UD	C	6	3	63	0	VT	POR				10	24	VT	P			5	56	0	78	78		WR	17-UD-C-6-556-4					
17	17-UD-C-6-0-52	UD	C	6	4	10	24	VT	POR				0	52	VT	P			0	52	0	6	6		WR	17-UD-C-6-0-52-5					
17	17-UD-C-6-0-60	UD	C	6	6	0	58	VT	POR				0	60	VT	P			0	60	0	4	4		WR	17-UD-C-6-0-60-6					
17	17-UD-C-6-26-62	UD	C	6	9	26	62	VT	DENT	0.094			26	62	VT	D			26	62	6	0	19	28	PP	17-UD-C-6-26-62-7					
17	17-UD-C-6-63-60	UD	C	6	10	63	60	VT	POR				63	60	VT	P			63	60	0	5	5		WR	17-UD-C-6-63-60-8					
17	17-UD-C-6-61-68	UD	C	6	11	61	68	VT	TC	0.160			61	68	VT	G			61	68	2	0	2		WR	17-UD-C-6-61-68-9					
17	17-UD-C-6-61-80	UD	C	6	12	61	80	VT	GOUGE	0.110			61	80	VT	G			61	80	2	0	2		WR	17-UD-C-6-61-80-10					
17	17-UD-C-6-0-84	UD	C	6	14	0	84	VT	POR X2				0	84	VT	P			0	98	0	33	33		WR	17-UD-C-6-0-98-11					
17	17-UD-C-6-0-126	UD	C	6	18	0	126	VT	POR				0	126	VT	P			0	126	0	10	10		WR	17-UD-C-6-0-126-12					
17	17-UD-C-6-63-115	UD	C	6	19	63	115	VT	POR				63	115	VT	P			55	128	4	26	30		WR	17-UD-C-6-55-128-13					
17	17-UD-C-6-52-156	UD	C	6	21	63	159	VT	POR				52	156	VT	P			52	156	4	4	8		WR	17-UD-C-6-52-156-14					
17	17-UD-C-6-0-156	UD	C	6									0	156	VT	RI			0	156	4	4	8		WR	17-UD-C-6-0-156-21					
17	17-UD-C-6-10-156	UD	C	6									10	156	VT	UC			10	156	20	0	20		WR	17-UD-C-6-10-156-22					
17	17-UD-C-6-29-0	UD	C	6									29	0	VT	RI			29	0	12	0	12		WR	17-UD-C-6-29-0-15					
17	17-UD-C-6-34-66	UD	C	6									34	66	VT	D			34	66	6	0	19	28	PP	17-UD-C-6-34-66-18					
17	17-UD-C-6-47-124	UD	C	6									47	124	VT	G			47	124	2	0	2		WR	17-UD-C-6-47-124-19					
17	17-UD-C-6-48-138	UD	C	6									48	138	VT	G			48	138	2	0	2		WR	17-UD-C-6-48-138-20					
17	17-UD-C-6-68-29	UD	C	6									68	29	VT	G			68	29	2	0	2		WR	17-UD-C-6-68-29-17					
17	17-UD-C-6-75-11	UD	C	6									75	11	VT	RI			75	11	3	3	6		WR	17-UD-C-6-75-11-16					
17	17-UD-C-7-50-0	UD	C	7	1	50	0	VT	POR				50	0	VT	UC			50	0	60	0	60		WR	17-UD-C-7-50-0-1					
17	17-UD-C-7-59-10	UD	C	7	2	59	10	VT	POR				59	10	VT	P			59	10	0	4	4		WR	17-UD-C-7-59-10-2					
17	17-UD-C-7-3-0	UD	C	7	3	0-6	0	VT	OR/GOUGE	0.120			3	0	VT	IF			3	0	4	4	8		WR	17-UD-C-7-3-0-3					
17	17-UD-C-7-0-12	UD	C	7	4	0	12	VT	POR				0	12	VT	P			0	12	3	3	6		WR	17-UD-C-7-0-12-4					
17	17-UD-C-7-14-76	UD	C	7	5	12	75	VT	POR				14	76	VT	G			14	76	2	0	2		WR	17-UD-C-7-14-76-5					
17	17-UD-C-7-0-108	UD	C	7	6	0	106	VT	POR				0	108	VT	RI			0	108	0	10	10		WR	17-UD-C-7-0-108-6					
17	17-UD-C-7-58-88	UD	C	7	7	59	94	VT	POR				58	88	VT	P			58	88	4	18	22		WR	17-UD-C-7-58-88-7					
17	17-UD-C-7-59-136	UD	C	7	8	59	136	VT	POR				59	136	VT	IF			52	140	0	32	32		WR	17-UD-C-7-52-140-8					
17	17-UD-C-7-51-156	UD	C	7	11	59	159	VT	POR				51	156	VT	P			51	156	4	4	8		WR	17-UD-C-7-51-156-9					
17	17-UD-C-7-26-156	UD	C	7	12	15-28	159	VT	POR X4				26	156	VT	P			26	156	51	0	51		WR	17-UD-C-7-26-156-10					
17	17-UD-C-7-0-156	UD	C	7	13	0	159	VT	POR				0	156	VT	P			0	156	4	4	8		WR	17-UD-C-7-0-156-11					
17	17-UD-C-7-0-32	UD	C	7									0	32	VT	P			0	32	0	24	24		WR	17-UD-C-7-0-32-14					
17	17-UD-C-7-2-45	UD	C	7									2	45	VT	G			2	45	2	0	2		WR	17-UD-C-7-2-45-13					
17	17-UD-C-7-57-50	UD	C	7									57	50	VT	P			57	50	0	4	4		WR	17-UD-C-7-57-50-12					
17	17-UD-C-7-59-52	UD	C	7									59	52	VT	RI			59	52	3	3	6		WR	17-UD-C-7-59-52-17					
17	17-UD-C-7-60-0	UD	C	7									60	0	VT	P			60	0	4	4	8		WR	17-UD-C-7-60-0-15					
17	17-UD-C-7-60-10	UD	C	7									60	10	VT	P			60	10	0	21	21		WR	17-UD-C-7-60-10-19					

MASTER TABLE

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Enterprise Engineering Inc.
Red Hill Tank 17 Inspection

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Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report							EEL Probe Up						Recommended Repairs						Repair Number; May Apply to Multiple Indications	
		Location in Tank	Shell Course	Plate Number	TestTex on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift or Topside Indication (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)		Repair Type (Patch, Weld, Cap)
17	17-UD-C-7-63-60	UD	C	7								63	60	VT	RI			63	60	0	6	6		WR	17-UD-C-7-63-60-16
17	17-UD-C-7-75-0	UD	C	7								75	0	VT	RI			75	0	4	4	8		WR	17-UD-C-7-75-0-18
17	17-UD-C-7-75-16	UD	C	7								75	16	VT	P			75	16	0	32	32		WR	17-UD-C-7-75-16-20
17	17-UD-C-8-0-156	UD	C	8	1	0	159		VT	POR		0	156	VT	P			30	156	60	0	60		WR	17-UD-C-8-0-156-1
17	17-UD-C-8-60-156	UD	C	8	5	60	159		VT	POR		60	156	VT	P			60	156	4	4	8		WR	17-UD-C-8-60-156-2
17	17-UD-C-8-60-126	UD	C	8	6	60	132		VT	POR		60	126	VT	P			60	126	0	12	12		WR	17-UD-C-8-60-126-3
17	17-UD-C-8-0-108	UD	C	8	7	0	106		VT	POR		0	108	VT	P			0	108	0	12	12		WR	17-UD-C-8-0-108-4
17	17-UD-C-8-60-88	UD	C	8	8	60	88		VT	POR		60	88	VT	P			59	88	0	18	18		WR	17-UD-C-8-60-88-5
17	17-UD-C-8-0-86	UD	C	8	10	0	82		VT	POR		0	86	VT	P			0	86	0	20	20		WR	17-UD-C-8-0-86-6
17	17-UD-C-8-0-64	UD	C	8	13	0	60		VT	POR		0	64	VT	P			0	64	3	3	6		WR	17-UD-C-8-0-64-7
17	17-UD-C-8-0-46	UD	C	8	14	0	48		VT	POR		0	46	VT	P			0	46	0	8	8		WR	17-UD-C-8-0-46-8
17	17-UD-C-8-0-13	UD	C	8	16	0	12		VT	POR		0	13	VT	P			0	13	0	26	26		WR	17-UD-C-8-0-13-9
17	17-UD-C-8-60-11	UD	C	8	18	60	11		VT	POR		60	11	VT	LOF			60	7	0	22	22		WR	17-UD-C-8-60-7-10
17	17-UD-C-8-15-0	UD	C	8	20	18	0		VT	POR		15	0	VT	P			15	0	30	0	30		WR	17-UD-C-8-15-0-11
17	17-UD-C-8-0-0	UD	C	8					VT			0	0	VT	P			0	0	4	4	8		WR	17-UD-C-8-0-0-12
17	17-UD-C-8-2-108	UD	C	8					VT			2	108	VT	D			2	108	6	6	24	36	TSPP	17-UD-C-8-2-108-15
17	17-UD-C-8-5-15	UD	C	8					VT			5	15	VT	G			5	15	2	0	2		WR	17-UD-C-8-5-15-13
17	17-UD-C-8-59-36	UD	C	8					VT			59	36	VT	P			59	36	0	24	24		WR	17-UD-C-8-59-36-14
17	17-UD-C-8-8-38	UD	C	8					VT			8	38	VT	G			8	38	2	0	2		WR	17-UD-C-8-8-38-16
17	17-UD-C-9-61-7	UD	C	9	1	48	0		VT	POR		61	7	VT	P			61	7	4	14	18		WR	17-UD-C-9-61-7-1
17	17-UD-C-9-0-109	UD	C	9	2	0	98		VT	POR		0	109	VT	P			0	109	0	4	4		WR	17-UD-C-9-0-109-2
17	17-UD-C-9-33-102	UD	C	9	3	33	96		VT	TC		33	102	VT	TS			33	102	8	8	32	64	PP	17-UD-C-9-33-102-3
17	17-UD-C-9-43-128	UD	C	9	6	48	120		VT	DENT		43	128	VT	D			43	128	8	8	32	64	PP	17-UD-C-9-43-128-4
17	17-UD-C-9-50-156	UD	C	9	7	58	159		VT	POR		50	156	VT	P			50	156	4	4	8		WR	17-UD-C-9-50-156-5
17	17-UD-C-9-0-156	UD	C	9	8	0	159		VT	POR		0	156	VT	P			0	156	4	4	8		WR	17-UD-C-9-0-156-6
17	17-UD-C-9-62-42	UD	C	9	9	59	40		VT	POR		62	42	VT	P			62	42	0	6	6		WR	17-UD-C-9-62-42-7
17	17-UD-C-9-58-32	UD	C	9	10	50	12		VT	POR		58	32	VT	P			58	32	0	4	4		WR	17-UD-C-9-58-32-8
17	17-UD-C-9-75-14	UD	C	9	11	61	0		VT	TC		75	14	VT	RI			75	14	4	28	32		WR	17-UD-C-9-75-14-9
17	17-UD-C-9-0-7	UD	C	9					VT			0	7	VT	WI			0	7	0	22	22		WR	17-UD-C-9-0-7-10
17	17-UD-C-9-20-115	UD	C	9					VT			20	115	VT	G			20	115	2	0	2		WR	17-UD-C-9-20-115-15
17	17-UD-C-9-46-156	UD	C	9					VT			46	156	VT	P			46	156	10	0	10		WR	17-UD-C-9-46-156-17
17	17-UD-C-9-50-148	UD	C	9					VT			50	148	VT	UC			50	148	3	3	6		WR	17-UD-C-9-50-148-16
17	17-UD-C-9-53-18	UD	C	9					VT			53	18	VT	RI			53	18	6	0	19	28	PP	17-UD-C-9-53-18-11
17	17-UD-C-9-59-92	UD	C	9					VT			59	92	VT	RI			59	92	0	32	32		WR	17-UD-C-9-59-92-13
17	17-UD-C-9-68-48	UD	C	9					VT			68	48	VT	RI			68	48	3	3	6		WR	17-UD-C-9-68-48-12
17	17-UD-C-9-7-36	UD	C	9					VT			7	36	VT	G			7	36	2	0	2		WR	17-UD-C-9-7-36-14
17	17-UD-C-10-12-159	UD	C	10	1	12	159		VT	POR		12	159	VT	P			30	159	60	0	60	100	WR	17-UD-C-10-12-159-1
17	17-UD-C-10-54-124	UD	C	10	3	54	124		VT	DENT		54	124	VT	D			54	124	10	10	40	100	PP	17-UD-C-10-54-124-2
17	17-UD-C-10-0-140	UD	C	10	4	0	140		VT	POR		0	140	VT	P			0	140	0	12	12		WR	17-UD-C-10-0-140-3
17	17-UD-C-10-35-90	UD	C	10	5	35	90		VT	DENT		35	90	VT	D			35	90	6	0	19	28	PP	17-UD-C-10-35-90-4
17	17-UD-C-10-17-72	UD	C	10	6	17	72		VT	TC		17	72	VT	TS			17	72	10	10	40	100	PP	17-UD-C-10-17-72-5
17	17-UD-C-10-60-84	UD	C	10	7	59	80		VT	POR		60	84	VT	RI			60	84	8	8	16		WR	17-UD-C-10-60-84-6
17	17-UD-C-10-0-18	UD	C	10	10	0	18		VT	POR		0	18	VT	P			0	14	0	28	28		WR	17-UD-C-10-0-14-17
17	17-UD-C-10-0-14	UD	C	10					VT			0	14	VT	RI			0	14	0	28	28		WR	17-UD-C-10-0-14-17
17	17-UD-C-10-0-156	UD	C	10					VT			0	156	VT	RI			0	156	4	4	8		WR	17-UD-C-10-0-156-7
17	17-UD-C-10-16-151	UD	C	10					VT			16	151	VT	G			16	151	0	4	4		WR	17-UD-C-10-16-151-9
17	17-UD-C-10-18-97	UD	C	10					VT			18	97	VT	D			18	97	6	0	19	28	PP	17-UD-C-10-18-97-11
17	17-UD-C-10-28-12	UD	C	10					VT			28	12	VT	D			28	12	8	8	32	64	PP	17-UD-C-10-28-12-15
17	17-UD-C-10-57-149	UD	C	10					VT			57	149	VT	G			57	149	0	2	2		WR	17-UD-C-10-57-149-10
17	17-UD-C-10-60-100	UD	C	10					VT			60	100	VT	RI			60	100	3	3	6		WR	17-UD-C-10-60-100-12
17	17-UD-C-10-60-156	UD	C	10					VT			60	156	VT	RI			60	156	4	4	8		WR	17-UD-C-10-60-156-8
17	17-UD-C-10-60-20	UD	C	10					VT			60	20	VT	RI			60	20	3	3	6		WR	17-UD-C-10-60-20-16
17	17-UD-C-10-60-76	UD	C	10					VT			60	76	VT	P			60	76	0	4	4		WR	17-UD-C-10-60-76-14
17	17-UD-C-10-60-94	UD	C	10					VT			60	94	VT	RI			60	94	3	3	6		WR	17-UD-C-10-60-94-13
17	17-UD-C-11-0-0	UD	C	11	1	0	0		VT	POR		0	0	VT	P			0	0	2	2	4		WR	17-UD-C-11-0-0-1
17	17-UD-C-11-47-0	UD	C	11	3	47	0		VT	POR		47	0	VT	P			47	0	18	0	18		WR	17-UD-C-11-48-0-2

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report								EET Prove Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID	Coordinate X (in)	Coordinate Y (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Torside Indication (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	
17	17-UD-C-11-59-38	UD	C	11	7	59	38	VT	POR			59	38	VT	P			59	42	0	18	18			17-UD-C-11-59-42-3
17	17-UD-C-11-0-52	UD	C	11	9	0	60	VT	POR			0	52	VT	P			0	52	0	32	32			17-UD-C-11-0-52-4
17	17-UD-C-11-0-86	UD	C	11	10	0	84	VT	POR			0	86	VT	P			0	86	0	7	7			17-UD-C-11-0-86-5
17	17-UD-C-11-0-108	UD	C	11	11	0	96	VT	POR			0	108	VT	P			0	108	0	12	12			17-UD-C-11-0-108-6
17	17-UD-C-11-59-112	UD	C	11	12	59	112	VT	POR			59	112	VT	P			59	112	0	6	6			17-UD-C-11-59-112-7
17	17-UD-C-11-39-129	UD	C	11	13	39	129	VT	TC	0.100		39	129	VT	TS			39	129	0	2	2			17-UD-C-11-39-129-8
17	17-UD-C-11-27-123	UD	C	11	14	27	120	VT	DENT	0.120		27	123	VT	D			27	123	10	10	40	100	PP	17-UD-C-11-27-123-9
17	17-UD-C-11-0-159	UD	C	11	15	0	159	VT	POR			0	159	VT	P			0	156	60	0	60			17-UD-C-11-30-156-10
17	17-UD-C-11-0-156	UD	C	11								0	156	VT	RI			0	156	4	4	8			17-UD-C-11-0-156-12
17	17-UD-C-11-20-148	UD	C	11								20	148	VT	G			20	148	0	2	2			17-UD-C-11-20-148-15
17	17-UD-C-11-60-0	UD	C	11								60	0	VT	RI			60	0	3	3	6			17-UD-C-11-60-0-11
17	17-UD-C-11-60-140	UD	C	11								60	140	VT	P			60	140	0	4	4			17-UD-C-11-60-140-14
17	17-UD-C-11-60-156	UD	C	11								60	156	VT	RI			60	156	4	4	8			17-UD-C-11-60-156-13
17	17-UD-C-12-13-3	UD	C	12	1	13	3	VT	POR			13	3	VT	P			11	26	0	52	52			17-UD-C-12-11-26-1
17	17-UD-C-12-76-11	UD	C	12	6	73	0-14	VT	LF			76	11	VT	LOF			76	11	0	22	22			17-UD-C-12-76-11-2
17	17-UD-C-12-38-0	UD	C	12	8	50	0	VT	TC	0.100		38	0	VT	RI			38	0	76	0	76			17-UD-C-12-38-0-3
17	17-UD-C-12-0-27	UD	C	12	9	0	36	VT	POR			0	27	VT	P			0	27	0	54	54			17-UD-C-12-0-27-4
17	17-UD-C-12-5-80	UD	C	12	10	5	80	VT	POR			5	80	VT	P			5	80	0	26	26			17-UD-C-12-5-80-5
17	17-UD-C-12-52-72	UD	C	12	12	52	72	VT	TC	0.120		52	72	VT	G			52	72	0	2	2			17-UD-C-12-52-72-6
17	17-UD-C-12-4-136	UD	C	12	13	4	134	VT	TC	0.170		4	136	VT	D			4	136	6	0	19	28	PP	17-UD-C-12-4-136-7
17	17-UD-C-12-41-132	UD	C	12	14	40	130	VT	TC	0.100		41	132	VT	D			41	132	10	10	40	100	PP	17-UD-C-12-41-132-8
17	17-UD-C-12-57-115	UD	C	12	15	57	115	VT	POR			57	115	VT	P			57	115	0	4	4			17-UD-C-12-57-115-9
17	17-UD-C-12-57-144	UD	C	12	17	57	144	VT	POR			57	144	VT	P			57	144	0	4	4			17-UD-C-12-57-144-10
17	17-UD-C-12-0-138	UD	C	12	18	0	138	VT	POR			0	138	VT	RI			0	138	3	3	6			17-UD-C-12-0-138-15
17	17-UD-C-12-0-156	UD	C	12	19	0	156	VT	POR			0	156	VT	RI			0	156	4	4	8			17-UD-C-12-0-156-12
17	17-UD-C-12-0-2	UD	C	12	20	0	2	VT	RI			0	2	VT	RI			0	2	4	4	8			17-UD-C-12-0-2-20
17	17-UD-C-12-0-34	UD	C	12	21	0	34	VT	P			0	34	VT	P			0	34	0	10	10			17-UD-C-12-0-34-19
17	17-UD-C-12-14-44	UD	C	12	22	14	44	VT	D			14	44	VT	D			14	44	6	0	19	28	PP	17-UD-C-12-14-44-17
17	17-UD-C-12-15-34	UD	C	12	23	15	34	VT	G			15	34	VT	G			15	34	0	2	2			17-UD-C-12-15-34-18
17	17-UD-C-12-26-156	UD	C	12	24	26	156	VT	POR			26	156	VT	P			26	156	52	0	52			17-UD-C-12-26-156-11
17	17-UD-C-12-32-148	UD	C	12	25	32	148	VT	POR			32	148	VT	D			32	148	6	0	19	28	PP	17-UD-C-12-32-148-14
17	17-UD-C-12-52-156	UD	C	12	26	52	156	VT	POR			52	156	VT	RI			52	156	4	4	8			17-UD-C-12-52-156-13
17	17-UD-C-12-7-30	UD	C	12	27	7	30	VT	P			7	30	VT	G			7	30	0	2	2			17-UD-C-12-7-30-16
17	17-UD-C-13-20-158	UD	C	13	1	20	158	VT	POR			20	158	VT	P			22	156	34	0	34			17-UD-C-13-22-156-1
17	17-UD-C-13-51-156	UD	C	13	3	51	158	VT	POR			51	156	VT	LOF			51	156	4	4	8			17-UD-C-13-51-156-2
17	17-UD-C-13-58-140	UD	C	13	4	57	140	VT	POR			58	140	VT	P			58	140	0	8	8			17-UD-C-13-58-140-3
17	17-UD-C-13-58-119	UD	C	13	5	58	119	VT	POR			58	119	VT	RI			58	119	0	4	4			17-UD-C-13-58-119-4
17	17-UD-C-13-39-98	UD	C	13	6	39	98	VT	TC	0.100		39	98	VT	TS			39	98	6	0	19	28	PP	17-UD-C-13-39-98-5
17	17-UD-C-13-59-98	UD	C	13	7	58	98	VT	POR			59	98	VT	RI			59	98	0	8	8			17-UD-C-13-59-98-6
17	17-UD-C-13-0-37	UD	C	13	8	0	40	VT	POR			0	37	VT	IF			0	37	0	30	30			17-UD-C-13-0-37-7
17	17-UD-C-13-58-42	UD	C	13	9	58	40	VT	POR			58	42	VT	P			58	42	0	4	4			17-UD-C-13-58-42-8
17	17-UD-C-13-59-16	UD	C	13	10	58	20	VT	POR			59	16	VT	P			59	16	0	4	4			17-UD-C-13-59-16-9
17	17-UD-C-13-15-0	UD	C	13	11	15	0	VT	UC	0.125		15	0	VT	UC			30	0	60	0	60			17-UD-C-13-30-0-10
17	17-UD-C-13-0-0	UD	C	13								0	0	VT	RI			0	0	4	4	8			17-UD-C-13-0-0-15
17	17-UD-C-13-0-156	UD	C	13								0	156	VT	RI			0	156	4	4	8			17-UD-C-13-0-156-11
17	17-UD-C-13-0-86	UD	C	13								0	86	VT	P			0	86	0	4	4			17-UD-C-13-0-86-14
17	17-UD-C-13-36-145	UD	C	13								36	145	VT	D			36	145	6	0	19	28	PP	17-UD-C-13-36-145-12
17	17-UD-C-13-59-150	UD	C	13								59	150	VT	RI			59	150	3	3	6			17-UD-C-13-59-150-13
17	17-UD-C-13-60-0	UD	C	13								60	0	VT	RI			60	0	4	4	8			17-UD-C-13-60-0-16
17	17-UD-C-14-72-16	UD	C	14	3	72	0-32	VT	POR X10			72	16	VT	P			75	36	0	72	72			17-UD-C-14-75-36-1
17	17-UD-C-14-5-64	UD	C	14	5	0	64	VT	POR			5	64	VT	P			5	64	0	4	4			17-UD-C-14-5-64-2
17	17-UD-C-14-0-86	UD	C	14	6	0	84	VT	POR			0	86	VT	P			0	86	0	25	25			17-UD-C-14-0-86-3
17	17-UD-C-14-0-121	UD	C	14	7	0	121	VT	TC	0.096		0	121	VT	TS			0	121	6	6	24	36	TSPP	17-UD-C-14-0-121-4
17	17-UD-C-14-0-0	UD	C	14								0	0	VT	RI			0	0	4	4	8			17-UD-C-14-0-0-5
17	17-UD-C-14-0-134	UD	C	14								0	134	VT	P			0	134	0	4	4			17-UD-C-14-0-134-13
17	17-UD-C-14-15-0	UD	C	14								15	0	VT	RI			15	0	4	4	8			17-UD-C-14-15-0-6

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report								EET Prove Up						Recommended Repairs						Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Upside or Downside (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	
17	17-UD-C-14-17-0	UD	C	14								17	0	VT	UC			17	0	34	0	34	0	WR	17-UD-C-14-17-0-8
17	17-UD-C-14-24-70	UD	C	14								24	70	VT	G			24	70	0	2	2	2	WR	17-UD-C-14-24-70-10
17	17-UD-C-14-28-156	UD	C	14								28	156	VT	P			28	156	45	0	45	0	WR	17-UD-C-14-28-156-16
17	17-UD-C-14-29-71	UD	C	14								29	71	VT	G			29	71	0	2	2	2	WR	17-UD-C-14-29-71-11
17	17-UD-C-14-4-52	UD	C	14								4	52	VT	P			4	52	0	9	9	0	WR	17-UD-C-14-4-52-17
17	17-UD-C-14-51-156	UD	C	14								51	156	VT	LOF			51	156	4	4	8	0	WR	17-UD-C-14-51-156-15
17	17-UD-C-14-52-145	UD	C	14								52	145	VT	P			52	145	0	8	8	0	WR	17-UD-C-14-52-145-14
17	17-UD-C-14-61-90	UD	C	14								61	90	VT	RI			61	90	3	3	6	0	WR	17-UD-C-14-61-90-12
17	17-UD-C-14-64-0	UD	C	14								64	0	VT	LOF			64	0	24	0	24	0	WR	17-UD-C-14-64-0-9
17	17-UD-C-14-75-0	UD	C	14								75	0	VT	RI			75	0	4	4	8	0	WR	17-UD-C-14-75-0-7
17	17-UD-C-15-61-130	UD	C	15	3	61	130	VT	POR			61	130	VT	P			61	130	3	3	6	0	WR	17-UD-C-15-61-130-1
17	17-UD-C-15-61-118	UD	C	15	4	61	118	VT	POR			61	118	VT	P			60	115	0	24	24	0	WR	17-UD-C-15-60-115-2
17	17-UD-C-15-60-59	UD	C	15	8	60	59	VT	POR			60	59	VT	P			60	59	3	3	6	0	WR	17-UD-C-15-60-59-3
17	17-UD-C-15-60-40	UD	C	15	9	60	44	VT	POR			60	40	VT	P			60	40	0	8	8	0	WR	17-UD-C-15-60-40-4
17	17-UD-C-15-60-20	UD	C	15	10	60	20	VT	POR			60	20	VT	P			60	12	4	15	19	0	WR	17-UD-C-15-60-12-5
17	17-UD-C-15-60-0	UD	C	15	12	60	0	VT	POR			60	0	VT	UC			60	0	4	4	8	0	WR	17-UD-C-15-60-0-6
17	17-UD-C-15-0-156	UD	C	15								0	156	VT	RI			0	156	4	4	8	0	WR	17-UD-C-15-0-156-9
17	17-UD-C-15-30-0	UD	C	15								30	0	VT	RI			30	0	60	0	60	0	WR	17-UD-C-15-30-0-8
17	17-UD-C-15-60-102	UD	C	15								60	102	VT	RI			60	102	3	3	6	0	WR	17-UD-C-15-60-102-10
17	17-UD-C-15-60-145	UD	C	15								60	145	VT	G			60	145	0	2	2	0	WR	17-UD-C-15-60-145-11
17	17-UD-C-16-13-0	UD	C	16	1	13	0	VT	POR			13	0	VT	RI			13	0	0	5	5	0	WR	17-UD-C-16-13-0-1
17	17-UD-C-16-25-0	UD	C	16	2	25	0	VT	POR			25	0	VT	P			37	0	75	0	75	0	WR	17-UD-C-16-37-0-2
17	17-UD-C-16-74-0	UD	C	16	4	74	0	VT	POR			74	0	VT	P			74	0	4	4	8	0	WR	17-UD-C-16-74-0-3
17	17-UD-C-16-74-10	UD	C	16	5	74	10	VT	POR			74	10	VT	RI			70	23	0	46	46	0	WR	17-UD-C-16-70-23-4
17	17-UD-C-16-9-42	UD	C	16	9	0	38	VT	POR			9	42	VT	LOF			9	42	0	4	4	0	WR	17-UD-C-16-9-42-5
17	17-UD-C-16-0-82	UD	C	16	10	0	82	VT	POR			0	82	VT	P			0	82	3	3	6	0	WR	17-UD-C-16-0-82-6
17	17-UD-C-16-61-88	UD	C	16	13	61	88	VT	POR			61	88	VT	P			61	88	0	8	8	0	WR	17-UD-C-16-61-88-7
17	17-UD-C-16-54-119	UD	C	16	14	61	119	VT	POR/LF			54	119	VT	P			54	119	0	6	6	0	WR	17-UD-C-16-54-119-8
17	17-UD-C-16-40-146	UD	C	16	17	40	146	VT	TC	0.170		40	146	VT	TS			40	146	0	2	2	0	WR	17-UD-C-16-40-146-9
17	17-UD-C-16-58-158	UD	C	16	18	61	158	VT	LF			58	158	VT	LOF			58	158	4	4	8	0	WR	17-UD-C-16-58-158-10
17	17-UD-C-16-0-0	UD	C	16								0	0	VT	RI			0	0	4	4	8	0	WR	17-UD-C-16-0-0-17
17	17-UD-C-16-3-156	UD	C	16								3	156	VT	LOF			3	156	3	3	6	0	WR	17-UD-C-16-3-156-11
17	17-UD-C-16-39-114	UD	C	16								39	114	VT	UC			39	114	0	2	2	0	WR	17-UD-C-16-39-114-13
17	17-UD-C-16-58-108	UD	C	16								58	108	VT	RI			58	108	3	3	6	0	WR	17-UD-C-16-58-108-14
17	17-UD-C-16-59-84	UD	C	16								59	84	VT	RI			59	84	3	3	6	0	WR	17-UD-C-16-59-84-15
17	17-UD-C-16-60-2	UD	C	16								60	2	VT	D			60	2	6	6	24	36	TSPP	17-UD-C-16-60-2-16
17	17-UD-C-16-6-138	UD	C	16								6	138	VT	G			6	138	0	2	2	0	WR	17-UD-C-16-6-138-12
17	17-UD-C-17-0-156	UD	C	17	1	0	158	VT	POR			0	156	VT	P			0	156	4	4	8	0	WR	17-UD-C-17-0-156-1
17	17-UD-C-17-51-156	UD	C	17	2	51	158	VT	POR			51	156	VT	P			51	156	4	4	8	0	WR	17-UD-C-17-51-156-2
17	17-UD-C-17-57-144	UD	C	17	3	57	144	VT	POR			57	144	VT	P			60	156	4	4	8	0	WR	17-UD-C-17-60-156-12
17	17-UD-C-17-0-122	UD	C	17	4	0	122	VT	POR			0	122	VT	P			0	122	0	8	8	0	WR	17-UD-C-17-0-122-3
17	17-UD-C-17-58-122	UD	C	17	5	57	120	VT	POR			58	122	VT	P			58	122	0	5	5	0	WR	17-UD-C-17-58-122-4
17	17-UD-C-17-0-88	UD	C	17	6	0	88	VT	POR			0	88	VT	P			0	88	0	8	8	0	WR	17-UD-C-17-0-88-5
17	17-UD-C-17-57-88	UD	C	17	7	57	88	VT	POR			57	88	VT	P			57	88	4	4	8	0	WR	17-UD-C-17-57-88-6
17	17-UD-C-17-40-74	UD	C	17	8	40	74	VT	TC			40	74	VT	TS			40	74	0	4	4	0	WR	17-UD-C-17-40-74-7
17	17-UD-C-17-58-48	UD	C	17	11	58	48	VT	POR			58	48	VT	P			58	48	0	2	2	0	WR	17-UD-C-17-58-48-8
17	17-UD-C-17-60-22	UD	C	17	12	58	24	VT	POR			60	22	VT	P			60	22	0	4	4	0	WR	17-UD-C-17-60-22-9
17	17-UD-C-17-58-8	UD	C	17	13	58	0-14	VT	POR			58	8	VT	P			58	8	0	16	16	0	WR	17-UD-C-17-58-8-10
17	17-UD-C-17-0-0	UD	C	17	14	0	0-3	VT	POR			0	0	VT	P			0	0	4	4	8	0	WR	17-UD-C-17-0-0-11
17	17-UD-C-17-43-0	UD	C	17								43	0	VT	RI			43	0	0	2	2	0	WR	17-UD-C-17-43-0-13
17	17-UD-C-18-50-18	UD	C	18	2	20	51-53	VT	TC			50	18	VT	TS			50	18	0	2	2	0	WR	17-UD-C-18-50-18-1
17	17-UD-C-18-72-19	UD	C	18	3	72	36	VT	POR/LF			72	19	VT	P			72	19	0	38	38	0	WR	17-UD-C-18-72-19-2
17	17-UD-C-18-68-40	UD	C	18	4	72	40	VT	TC	0.250		68	40	VT	TS			68	40	0	2	2	0	WR	17-UD-C-18-68-40-3
17	17-UD-C-18-66-58	UD	C	18	5	72	58	VT	TC	0.188		66	58	VT	TS			66	58	0	2	2	0	WR	17-UD-C-18-66-58-4
17	17-UD-C-18-60-70	UD	C	18	6	60	70	VT	POR			60	70	VT	P			60	70	0	4	4	0	WR	17-UD-C-18-60-70-5

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report							EEL Probe Up					Recommended Repairs						Repair Number: May Apply to Multiple Indications		
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID	Coordinate X (in)	Coordinate Y (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift (in)	Center of Indication X (in)	Center of Indication Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair X (in)	Center of Repair Y (in)	Width or Dia (in)	Height (in)	Length of W/eld (in)		Area of PP (sq in)	Repair Type (Patch, Weld, Cap)
17	17-UD-C-18-60-74	UD	C	18	7	60	74	VT	POR			60	74	VT	RI			60	74	0	2	2		WR	17-UD-C-18-60-74-6
17	17-UD-C-18-60-82	UD	C	18	8	60	82	VT	LF			60	82	VT	UC			60	82	3	3	6		WR	17-UD-C-18-60-82-7
17	17-UD-C-18-57-112	UD	C	18	9	60	96-115	VT	POR X8			60	112	VT	P			60	112	0	35	35		WR	17-UD-C-18-57-112-8
17	17-UD-C-18-60-146	UD	C	18	10	60	146	VT	POR			60	146	VT	P			60	146	0	4	4		WR	17-UD-C-18-60-146-9
17	17-UD-C-18-51-156	UD	C	18	11	50	158	VT	POR			38	156	VT	P			51	156	4	4	8		WR	17-UD-C-18-51-156-10
17	17-UD-C-18-38-158	UD	C	18	12	38	158	VT	POR			38	158	VT	P			25	156	51	0	51		WR	17-UD-C-18-38-158-11
17	17-UD-C-18-0-136	UD	C	18	15	0	150	VT	POR			0	136	VT	P			0	136	0	4	4		WR	17-UD-C-18-0-136-12
17	17-UD-C-18-20-136	UD	C	18	16	24	134	VT	TC	0.100		20	136	VT	D			20	136	6	0	19	28	PP	17-UD-C-18-20-136-13
17	17-UD-C-18-0-0	UD	C	18								0	0	VT	LOF			0	0	4	4	8		WR	17-UD-C-18-0-0-18
17	17-UD-C-18-0-156	UD	C	18								0	156	VT	RI			0	156	4	4	8		WR	17-UD-C-18-0-156-14
17	17-UD-C-18-12-72	UD	C	18								12	72	VT	G			12	72	0	2	2		WR	17-UD-C-18-12-72-15
17	17-UD-C-18-13-12	UD	C	18								13	12	VT	RI			13	12	0	24	24		WR	17-UD-C-18-13-12-19
17	17-UD-C-18-15-0	UD	C	18								15	0	VT	RI			15	0	4	4	8		WR	17-UD-C-18-15-0-20
17	17-UD-C-18-67-50	UD	C	18								67	50	VT	RI			67	50	3	3	6		WR	17-UD-C-18-67-50-16
17	17-UD-C-18-75-0	UD	C	18								75	0	VT	RI			75	0	4	4	8		WR	17-UD-C-18-75-0-17
17	17-UD-C-19-9-158	UD	C	19	1	9	158	VT	POR			9	158	VT	P			30	156	60	0	60		WR	17-UD-C-19-9-156-1
17	17-UD-C-19-7-108	UD	C	19	5	0-15	108	VT	LF			7	108	VT	RI			8	104	16	0	16		WR	17-UD-C-19-8-104-2
17	17-UD-C-19-30-0	UD	C	19	6	2-19	0	VT	UC/POR	0.090		30	0	VT	UC			30	0	60	0	60		WR	17-UD-C-19-30-0-3
17	17-UD-C-19-61-13	UD	C	19	7	61	0-22	VT	POR/LF			61	13	VT	RI			61	13	0	25	25		WR	17-UD-C-19-61-13-4
17	17-UD-C-19-0-0	UD	C	19								0	0	VT	RI			0	0	4	4	8		WR	17-UD-C-19-0-0-5
17	17-UD-C-19-0-156	UD	C	19								0	156	VT	RI			0	156	4	4	8		WR	17-UD-C-19-0-156-6
17	17-UD-C-19-52-156	UD	C	19								52	156	VT	RI			52	156	4	4	8		WR	17-UD-C-19-52-156-7
17	17-UD-C-19-60-156	UD	C	19								60	156	VT	LOF			60	156	4	4	8		WR	17-UD-C-19-60-156-8
17	17-UD-C-20-14-9	UD	C	20	1	13	0-12	VT	POR/LF			14	9	VT	RI			14	9	0	20	20		WR	17-UD-C-20-14-9-1
17	17-UD-C-20-9-25	UD	C	20	2	12	22	VT	POR			9	25	VT	P			9	25	0	12	12		WR	17-UD-C-20-9-25-2
17	17-UD-C-20-38-0	UD	C	20	3	49	0	VT	POR			38	0	VT	P			38	0	75	0	75		WR	17-UD-C-20-38-0-3
17	17-UD-C-20-74-0	UD	C	20	4	74	0-14	VT	POR/LF			74	0	VT	P			74	0	0	50	50		WR	17-UD-C-20-74-0-4
17	17-UD-C-20-4-60	UD	C	20	5	4	60	VT	POR			4	60	VT	P			4	60	0	6	6		WR	17-UD-C-20-4-60-5
17	17-UD-C-20-0-109	UD	C	20	6	0	108	VT	POR			0	109	VT	P			0	109	0	5	5		WR	17-UD-C-20-0-109-6
17	17-UD-C-20-25-156	UD	C	20	7	22	158	VT	POR			25	156	VT	P			25	156	0	50	50		WR	17-UD-C-20-25-156-7
17	17-UD-C-21-0-156	UD	C	21	1	0	158	VT	POR			0	156	VT	P			0	156	4	4	8		WR	17-UD-C-21-0-156-1
17	17-UD-C-21-14-158	UD	C	21	2	14	158	VT	POR			14	158	VT	LOF			36	156	50	0	50		WR	17-UD-C-21-36-156-2
17	17-UD-C-21-60-156	UD	C	21	6	60	157-158	VT	LF			60	156	VT	G			60	156	4	6	10		WR	17-UD-C-21-60-156-3
17	17-UD-C-21-60-140	UD	C	21	7	60	140	VT	POR			60	140	VT	P			60	140	3	3	6		WR	17-UD-C-21-60-140-4
17	17-UD-C-21-58-30	UD	C	21	11	58	30	VT	POR			58	30	VT	P			58	30	0	2	2		WR	17-UD-C-21-58-30-5
17	17-UD-C-21-60-10	UD	C	21	13	58	0-16	VT	LF			60	10	VT	IF			60	10	4	24	28		WR	17-UD-C-21-60-10-6
17	17-UD-C-21-0-0	UD	C	21								0	0	VT	RI			0	0	4	50	54		WR	17-UD-C-21-0-0-10
17	17-UD-C-21-13-102	UD	C	21								13	102	VT	G			13	102	0	2	2		WR	17-UD-C-21-13-102-7
17	17-UD-C-21-30-0	UD	C	21								30	0	VT	UC			30	0	60	0	60		WR	17-UD-C-21-30-0-9
17	17-UD-C-21-40-12	UD	C	21								40	12	VT	UC			40	12	0	2	2		WR	17-UD-C-21-40-12-8
17	17-UD-C-22-13-11	UD	C	22	1	13	0-12	VT	LF			13	11	VT	LOF			13	11	0	22	22		WR	17-UD-C-22-13-11-1
17	17-UD-C-22-74-0	UD	C	22	2	74	0-12	VT	LF			74	0	VT	LOF			74	0	4	4	8		WR	17-UD-C-22-74-0-2
17	17-UD-C-22-66-13	UD	C	22	3	66	13	VT	TC	0.125		66	13	VT	TS			66	13	0	2	2		WR	17-UD-C-22-66-13-3
17	17-UD-C-22-74-22	UD	C	22	4	74	22	VT	POR			74	22	VT	P			70	23	0	46	46		WR	17-UD-C-22-70-23-4
17	17-UD-C-22-10-36	UD	C	22	8	10	36	VT	POR			10	36	VT	RI			9	34	0	34	34		WR	17-UD-C-22-9-34-5
17	17-UD-C-22-2-81	UD	C	22	10	2	81	VT	POR			2	81	VT	P			2	81	0	24	24		WR	17-UD-C-22-2-81-6
17	17-UD-C-22-61-80	UD	C	22	12	61	80-82	VT	LF			61	80	VT	LOF			61	80	0	11	11		WR	17-UD-C-22-61-80-7
17	17-UD-C-22-54-126	UD	C	22	14	60	115	VT	TC	0.120		54	126	VT	TS			54	126	0	30	30		WR	17-UD-C-22-54-126-8
17	17-UD-C-22-60-156	UD	C	22	15	58	146-156	VT	LF			60	156	VT	LOF			60	156	20	16	36		WR	17-UD-C-22-60-156-9
17	17-UD-C-22-3-157	UD	C	22	16	3	157	VT	POR			3	157	VT	G			0	156	4	6	10		WR	17-UD-C-22-0-156-10
17	17-UD-C-22-0-0	UD	C	22								0	0	VT	RI			0	0	4	20	24		WR	17-UD-C-22-0-0-14
17	17-UD-C-22-0-23	UD	C	22								0	23	VT	RI			0	23	0	10	10		WR	17-UD-C-22-0-23-15
17	17-UD-C-22-22-0	UD	C	22								22	0	VT	RI			22	0	6	6	12		WR	17-UD-C-22-22-0-13
17	17-UD-C-22-40-0	UD	C	22								40	0	VT	RI			40	0	10	10	20		WR	17-UD-C-22-40-0-12
17	17-UD-C-22-70-70	UD	C	22								70	70	VT	P			70	70	0	4	4		WR	17-UD-C-22-70-70-11
17	17-UD-C-23-27-157	UD	C	23	2	27	157	VT	POR			27	157	VT	P			30	156	15	0	15		WR	17-UD-C-23-30-156-1

Enterprise Engineering Inc.
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Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report						EEL Probe Up						Recommended Repairs						Repair Number: May Apply to Multiple Indications									
		Location in Tank	Shell Course	Plate Number	TestTex	Indication ID	X	Y	Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth (in)	Upside or Wall Thickness	Indication (in)	Center of Indication X (in)	Center of Indication Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair X (in)	Center of Repair Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)			
17	17-UD-C-23-12-132-2	UD	C	23	4	12	132	132	132	VT	TC	0.096			12	132	0	2	2	2	2	2	12	132	0	2	2	2	17-UD-C-23-12-132-2		
17	17-UD-C-23-0-118-3	UD	C	23	6	0	118	118	118	VT	POR				12	118	3	3	3	3	3	3	0	118	3	3	6	6	17-UD-C-23-0-118-3		
17	17-UD-C-23-12-118	UD	C	23	7	12	118	118	118	VT	TC	?			12	118	10	10	10	10	10	10	23	116	10	10	40	100	PP		
17	17-UD-C-23-58-72	UD	C	23	9	58	75	75	75	VT	POR				58	72	0	2	2	2	2	2	58	72	0	2	2	2	17-UD-C-23-58-72-5		
17	17-UD-C-23-0-66	UD	C	23	11	0	66	66	66	VT	POR				0	66	0	2	2	2	2	2	0	66	0	2	2	2	17-UD-C-23-0-66-6		
17	17-UD-C-23-0-12	UD	C	23	13	0	12	12	12	VT	POR				0	12	4	6	10	6	10	6	0	12	4	6	10	6	17-UD-C-23-0-156-14		
17	17-UD-C-23-60-0	UD	C	23	14	58	0	12	12	VT	POR				60	0	4	4	8	8	8	8	60	0	4	4	8	8	17-UD-C-23-60-7		
17	17-UD-C-23-0-0	UD	C	23						VT	F/POR/UC	0.156			0	0	0	4	4	4	4	0	0	0	4	4	8	8	17-UD-C-23-0-11		
17	17-UD-C-23-0-156	UD	C	23						VT					0	156	4	4	4	4	4	0	156	4	4	4	8	8	17-UD-C-23-0-156-8		
17	17-UD-C-23-0-60	UD	C	23						VT					0	60	0	4	4	4	4	0	60	0	4	4	8	8	17-UD-C-23-0-60-13		
17	17-UD-C-23-1-32	UD	C	23						VT	G				1	32	0	2	2	2	2	1	32	0	2	2	2	2	2	17-UD-C-23-1-32-12	
17	17-UD-C-23-21-104	UD	C	23						VT	D				21	104	6	0	19	28	28	21	104	6	0	19	28	28	PP		
17	17-UD-C-23-26-0	UD	C	23						VT	UC				26	0	52	0	52	0	52	26	0	52	0	52	0	52	0	17-UD-C-23-26-0-10	
17	17-UD-C-24-0-0	UD	C	24	1	0	1	1	1	VT	POR				0	0	0	4	4	4	4	0	0	0	4	4	8	8	8	17-UD-C-24-0-1	
17	17-UD-C-24-14-0	UD	C	24	2	14	14	14	14	VT	POR				14	0	4	4	4	4	4	14	0	4	4	4	8	8	8	17-UD-C-24-14-0-2	
17	17-UD-C-24-74-0	UD	C	24	3	74	74	74	74	VT	POR				74	0	14	24	38	38	38	74	0	14	24	38	38	38	38	17-UD-C-24-74-0-3	
17	17-UD-C-24-13-21	UD	C	24	4	13	21	21	21	VT	POR				13	21	17	0	22	22	22	11	17	0	22	22	22	22	22	17-UD-C-24-11-17-4	
17	17-UD-C-24-4-54	UD	C	24	6	9	46	46	46	VT	POR				4	54	0	30	30	30	30	4	54	0	30	30	30	30	30	30	17-UD-C-24-4-54-5
17	17-UD-C-24-2-85	UD	C	24	9	2	85	85	85	VT	POR				2	85	0	30	30	30	30	0	88	0	30	30	30	30	30	30	17-UD-C-24-0-88-6
17	17-UD-C-24-22-157	UD	C	24	13	20-24	157	157	157	VT	POR X3				22	157	36	0	36	0	36	33	156	36	0	36	0	36	0	17-UD-C-24-33-156-7	
17	17-UD-C-24-50-156	UD	C	24	15	51	157	157	157	VT	POR				50	156	4	4	8	8	8	50	156	4	4	8	8	8	8	17-UD-C-24-50-156-8	
17	17-UD-C-24-0-14	UD	C	24						VT					0	14	0	18	18	18	18	0	14	0	18	18	18	18	18	17-UD-C-24-0-14-11	
17	17-UD-C-24-36-150	UD	C	24						VT					36	150	0	2	2	2	2	36	150	0	2	2	2	2	2	17-UD-C-24-36-150-9	
17	17-UD-C-24-4-18	UD	C	24						VT					4	18	0	2	2	2	2	4	18	0	2	2	2	2	2	17-UD-C-24-4-18-12	
17	17-UD-C-24-43-0	UD	C	24						VT					43	0	2	2	2	2	2	43	0	2	2	2	2	2	2	17-UD-C-24-43-0-10	
17	17-UD-C-25-8-157	UD	C	25	1	8	157	157	157	VT	POR				8	157	60	0	60	0	60	30	156	60	0	60	0	60	0	17-UD-C-25-30-156-1	
17	17-UD-C-25-53-156	UD	C	25	5	59	157	157	157	VT	POR				53	156	4	4	8	8	8	53	156	4	4	8	8	8	8	17-UD-C-25-53-156-2	
17	17-UD-C-25-0-132	UD	C	25	7	0	132	132	132	VT	POR				0	132	0	27	31	31	31	0	138	4	27	31	31	31	31	17-UD-C-25-0-138-3	
17	17-UD-C-25-0-60	UD	C	25	10	0	60	60	60	VT	POR				0	60	0	8	8	8	8	0	60	0	8	8	8	8	8	17-UD-C-25-0-60-4	
17	17-UD-C-25-0-20	UD	C	25	12	0	20	20	20	VT	TC	0.090			0	20	0	2	2	2	2	0	20	0	2	2	2	2	2	17-UD-C-25-0-20-5	
17	17-UD-C-25-60-0	UD	C	25	13	58	0	20	20	VT	POR				60	0	4	4	8	8	8	60	0	4	4	4	8	8	8	17-UD-C-25-60-0-6	
17	17-UD-C-25-6-0	UD	C	25	15	6	0	6	6	VT	LF				6	0	4	4	4	4	4	6	0	4	4	4	4	4	4	17-UD-C-25-6-0-7	
17	17-UD-C-25-60-132	UD	C	25						VT					60	132	0	4	4	4	4	60	132	0	4	4	4	4	4	17-UD-C-25-60-132-9	
17	17-UD-C-25-60-148	UD	C	25						VT					60	148	3	3	3	3	3	60	148	3	3	3	3	3	3	17-UD-C-25-60-148-8	
17	17-UD-C-26-24-0	UD	C	26	1	9	0	9	9	VT	POR				24	0	4	4	8	8	8	24	0	4	4	4	8	8	8	17-UD-C-26-24-0-1	
17	17-UD-C-26-75-6	UD	C	26	2	60	6	6	6	VT	POR				6	60	6	4	8	8	8	75	6	4	4	4	8	8	8	17-UD-C-26-75-6-2	
17	17-UD-C-26-0-37	UD	C	26	7	0	37	37	37	VT	POR				0	37	0	6	6	6	6	0	37	0	6	6	6	6	6	6	17-UD-C-26-0-37-3
17	17-UD-C-26-7-60	UD	C	26	9	7	60	60	60	VT	POR				7	60	0	5	5	5	5	7	60	0	5	5	5	5	5	5	17-UD-C-26-7-60-4
17	17-UD-C-26-0-78	UD	C	26	10	0	78	78	78	VT	POR				0	78	0	28	32	32	32	0	78	0	28	32	32	32	32	32	17-UD-C-26-0-78-5
17	17-UD-C-26-21-80	UD	C	26	11	21	80	80	80	VT	POR				21	80	0	2	2	2	2	21	80	0	2	2	2	2	2	2	17-UD-C-26-21-80-6
17	17-UD-C-26-66-66	UD	C	26	12	66	66	66	66	VT	POR				66	66	0	16	16	16	16	64	60	0	16	16	16	16	16	16	17-UD-C-26-64-60-7
17	17-UD-C-26-58-106	UD	C	26	15	56	114	114	114	VT	POR				58	106	0	34	34	34	34	58	106	0	34	34	34	34	34	34	17-UD-C-26-58-106-8
17	17-UD-C-26-25-153	UD	C	26	17	25	153	153	153	VT	POR				25	153	50	0	50	0	50	25	156	50	0	50	0	50	0	50	17-UD-C-26-25-156-9
17	17-UD-C-26-0-0	UD	C	26						VT					0	0	4	4	8	8	8	0	0	4	4	4	8	8	8	8	17-UD-C-26-0-14
17	17-UD-C-26-10-24	UD	C	26						VT					10	24	3	3	3	3	3	10	24	3	3	3	3	3	3	17-UD-C-26-10-24-13	
17	17-UD-C-26-13-0	UD	C	26						VT					13	0	7	0	7	0	7	13	0	7	0	7	0	7	0	7	17-UD-C-26-13-0-15
17	17-UD-C-26-20-90	UD	C	26						VT					20	90	0	2	2	2	2	20	90	0	2	2	2	2	2	2	17-UD-C-26-20-90-12
17	17-UD-C-26-50-156	UD	C	26						VT					50	156	4	4	8	8	8	50	156	4	4	4	8	8	8	8	17-UD-C-26-50-156-10
17	17-UD-C-26-52-140	UD	C	26						VT					52	140	0	5	5	5	5	52	140	0	5	5	5	5	5	5	17-UD-C-26-52-140-11
17	17-UD-C-27-22-153	UD	C	27	3	22	153	153	153	VT	POR				22	153	8	0	8	8	8	22	153	8	0	8	8	8	8	8	17-UD-C-27-22-153-1
17	17-UD-C-27-0-63	UD	C	27						VT					0	63	0	14	14	14	14	58	32	0	14	14	14	14	14	14	17-UD-C-27-0-63-2
17	17-UD-C-27-59-38	UD	C	27	9	59	38	38	38	VT	POR				59	38	0	16	16	16	16	58	32	0	16	16	16	16	16	16	17-UD-C-27-58-32-3
17	17-UD-C-27-60-10	UD	C	27	12	60	10	10	10	VT	POR				60	10	0	6	6	6	6	0	6	4	4	4	8	8	8	8	17-UD-C-27-0-6-4
17	17-UD-C-27-8-0	UD	C	27	14	8	0	0	0	VT	UC	0.100			8	0	60	0	60	0	60	30	0	60	0</						

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report							EEL Probe Up						Recommended Repairs						Repair Number; May Apply to Multiple Indications		
		Location in Tank	Shell Course	Plate Number	TestTex	Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)		Area of PP (sq in)	Repair Type (Patch, Weld, Cap)
17	17-UD-C-27-0-156	UD	C	27											VT	RI			0	156	4	4	8		WR	17-UD-C-27-0-156-6
17	17-UD-C-27-16-3	UD	C	27											VT	G			16	3	0	2	2		WR	17-UD-C-27-16-3-11
17	17-UD-C-27-44-156	UD	C	27											VT	UC			44	156	30	0	30		WR	17-UD-C-27-44-156-7
17	17-UD-C-27-50-156	UD	C	27											VT	UC			50	156	4	4	8		WR	17-UD-C-27-50-156-8
17	17-UD-C-28-75-5	UD	C	28	1		75	5	VT	POR X14					VT	P			75	5	0	96	96		WR	17-UD-C-28-75-5-1
17	17-UD-C-28-75-50	UD	C	28	4		13	0-30	VT	TC					VT	TS			25	117	0	2	2		WR	17-UD-C-28-75-50-2
17	17-UD-C-28-25-117	UD	C	28	7		25	117	VT	TC		0.090			VT	TS			25	117	0	2	2		WR	17-UD-C-28-25-117-3
17	17-UD-C-28-14-141	UD	C	28	8		14	141	VT	TC		0.100			VT	TS			14	141	0	2	2		WR	17-UD-C-28-14-141-4
17	17-UD-C-28-52-109	UD	C	28	10		52	109	VT	POR					VT	P			52	109	3	3	6		WR	17-UD-C-28-52-109-5
17	17-UD-C-28-52-144	UD	C	28	11		52	144	VT	POR					VT	P			52	144	0	2	2		WR	17-UD-C-28-52-144-6
17	17-UD-C-28-0-0	UD	C	28											VT	IF			0	0	4	4	8		WR	17-UD-C-28-0-0-11
17	17-UD-C-28-0-156	UD	C	28											VT	UC			0	156	4	4	8		WR	17-UD-C-28-0-156-8
17	17-UD-C-28-0-44	UD	C	28											VT	RI			0	44	0	4	4		WR	17-UD-C-28-0-44-13
17	17-UD-C-28-17-0	UD	C	28											VT	UC			17	0	35	0	35		WR	17-UD-C-28-17-0-12
17	17-UD-C-28-44-0	UD	C	28											VT	RI			44	0	0	2	2		WR	17-UD-C-28-44-0-10
17	17-UD-C-28-52-156	UD	C	28											VT	IF			52	156	4	4	8		WR	17-UD-C-28-52-156-7
17	17-UD-C-28-75-0	UD	C	28											VT	RI			75	0	4	4	8		WR	17-UD-C-28-75-0-9
17	17-UD-C-29-0-153	UD	C	29	8		0	153	VT	GOUGE		0.120			VT	RI			0	153	4	4	8		WR	17-UD-C-29-0-156-1
17	17-UD-C-29-59-132	UD	C	29	11		59	132	VT	POR					VT	P			59	132	0	4	4		WR	17-UD-C-29-59-132-2
17	17-UD-C-29-60-74	UD	C	29	12		60	74	VT	POR					VT	P			60	74	0	14	14		WR	17-UD-C-29-58-76-3
17	17-UD-C-29-13-0	UD	C	29	15		13	0	VT	POR					VT	P			13	0	40	0	40		WR	17-UD-C-29-20-0-4
17	17-UD-C-29-60-0	UD	C	29	17		60	0	VT	POR					VT	P			60	0	4	4	8		WR	17-UD-C-29-60-0-5
17	17-UD-C-29-0-0	UD	C	29											VT	RI			0	0	4	4	8		WR	17-UD-C-29-0-0-6
17	17-UD-C-29-23-156	UD	C	29											VT	RI			23	156	16	0	16		WR	17-UD-C-29-23-156-10
17	17-UD-C-29-51-156	UD	C	29											VT	IF			51	156	4	4	8		WR	17-UD-C-29-51-156-9
17	17-UD-C-29-59-58	UD	C	29											VT	RI			59	58	0	2	2		WR	17-UD-C-29-59-58-7
17	17-UD-C-29-60-156	UD	C	29											VT	IF			60	156	4	4	8		WR	17-UD-C-29-60-156-8
17	17-UD-C-30-14-38	UD	C	30	1		14	38	VT	DENT		0.140			VT	D			14	38	6	6	24	36	TSPP	17-UD-C-30-14-38-1
17	17-UD-C-30-24-139	UD	C	30	4		24	139	VT	TC		0.110			VT	TS			24	139	0	2	2		WR	17-UD-C-30-24-139-2
17	17-UD-C-30-24-153	UD	C	30	5		19-30	153	VT	LF					VT	IF			24	153	50	0	50		WR	17-UD-C-30-25-156-3
17	17-UD-C-30-53-141	UD	C	30	7		53	141	VT	LF					VT	IF			53	141	3	3	6		WR	17-UD-C-30-53-141-4
17	17-UD-C-30-53-133	UD	C	30	8		53	133	VT	POR					VT	P			53	133	3	3	6		WR	17-UD-C-30-53-133-5
17	17-UD-C-30-0-156	UD	C	30											VT	RI			0	156	4	4	8		WR	17-UD-C-30-0-156-6
17	17-UD-C-30-60-156	UD	C	30											VT	RI			60	156	4	4	8		WR	17-UD-C-30-60-156-7
17	17-UD-C-31-36-0	UD	C	31	1		36	0	VT	POR					VT	P			36	0	12	0	12		WR	17-UD-C-31-40-0-1
17	17-UD-C-31-0-74	UD	C	31	3		0	74	VT	TC					VT	RI			0	74	0	9	9		WR	17-UD-C-31-0-74-2
17	17-UD-C-31-60-0	UD	C	31	4		57	1	VT	POR		0.100			VT	UC			60	0	4	4	8		WR	17-UD-C-31-60-0-3
17	17-UD-C-31-60-123	UD	C	31	5		60	123	VT	POR					VT	RI			60	123	0	8	8		WR	17-UD-C-31-60-123-4
17	17-UD-C-31-0-156	UD	C	31	6		0	150	VT	LF					VT	IF			0	156	13	26	39		WR	17-UD-C-31-0-156-5
17	17-UD-C-31-43-153	UD	C	31	9		33	153	VT	POR					VT	P			43	153	25	0	25		WR	17-UD-C-31-43-153-6
17	17-UD-C-31-59-153	UD	C	31	10		59	153	VT	POR					VT	P			59	153	4	4	8		WR	17-UD-C-31-59-153-7
17	17-UD-C-31-25-0	UD	C	31											VT	RI			25	0	4	4	8		WR	17-UD-C-31-25-0-8
17	17-UD-C-32-39-110	UD	C	32	2		39	110	VT	TC		0.120			VT	TS			39	110	8	8	32	64	PP	17-UD-C-32-39-110-1
17	17-UD-C-32-0-101	UD	C	32	3		0	101	VT	POR					VT	RI			0	96	0	21	21		WR	17-UD-C-32-0-96-2
17	17-UD-C-32-0-141	UD	C	32											VT	P			0	141	0	5	5		WR	17-UD-C-32-0-141-4
17	17-UD-C-32-12-156	UD	C	32											VT	P			12	156	5	0	5		WR	17-UD-C-32-12-156-3
17	17-UD-C-32-12-72	UD	C	32											VT	D			12	72	6	0	19	28	PP	17-UD-C-32-12-72-8
17	17-UD-C-32-16-1	UD	C	32											VT	RI			16	1	0	6	6		WR	17-UD-C-32-16-1-11
17	17-UD-C-32-42-156	UD	C	32											VT	LOF			42	156	16	0	16		WR	17-UD-C-32-42-156-5
17	17-UD-C-32-4-59	UD	C	32											VT	P			4	59	0	17	17		WR	17-UD-C-32-4-59-7
17	17-UD-C-32-60-3	UD	C	32											VT	RI			60	3	12	0	12		WR	17-UD-C-32-60-3-10
17	17-UD-C-32-63-84	UD	C	32											VT	RI			63	84	3	0	3		WR	17-UD-C-32-63-84-9
17	17-UD-C-32-9-62	UD	C	32											VT	LOF			9	62	9	0	9		WR	17-UD-C-32-9-62-6
17	17-UD-C-33-41-138	UD	C	33	2		41	138	VT	DENT		0.120			VT	D			41	138	6	0	19	28	PP	17-UD-C-33-41-138-1
17	17-UD-C-33-59-68	UD	C	33	3		59	68	VT	POR					VT	P			59	68	0	24	24		WR	17-UD-C-33-59-64-2
17	17-UD-C-33-36-73	UD	C	33	5		36	73	VT	TC		0.090			VT	TS			36	73	8	10	36	80	PP	17-UD-C-33-36-73-3

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report								EEL Probe Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Thickness	Depth or Topside Indication(in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	
17	17-UD-C-33-23-0	UD	C	33								23	0	VT	LOF			23	0	8	0	8		17-UD-C-33-23-0-4
17	17-UD-C-33-31-0	UD	C	33								31	0	VT	RI			31	0	4	0	4		17-UD-C-33-31-0-5
17	17-UD-C-33-60-1	UD	C	33								60	1	VT	UC			60	1	3	6	9		17-UD-C-33-60-1-6
17	17-UD-C-34-0-116	UD	C	34	1			VT	POR			0	116	VT	P			0	100	0	72	72		17-UD-C-34-0-100-1
17	17-UD-C-34-46-111	UD	C	34	3	46	111	VT	TC		0.120	46	111	VT	G			46	111	6	0	19	28	17-UD-C-34-46-111-2
17	17-UD-C-34-13-1	UD	C	34	9	13	1	VT	TC		0.100	13	1	VT	TS			13	1	2	0	2		17-UD-C-34-13-1-3
17	17-UD-C-34-31-0	UD	C	34	10	31	0	VT	POR			31	0	VT	P			31	0	8	0	8		17-UD-C-34-31-0-4
17	17-UD-C-34-52-0	UD	C	34	11	52	0	VT	UC		0.090	52	0	VT	UC			52	0	10	0	10		17-UD-C-34-52-0-5
17	17-UD-C-34-47-72	UD	C	34	12	47	72	VT	TC		0.090	47	72	VT	TS			47	72	3	0	3		17-UD-C-34-47-72-6
17	17-UD-C-34-38-62	UD	C	34	13	62	69/76	VT	POR X6		0.120	38	62	VT	P			38	62	0	32	32		17-UD-C-34-38-62-7
17	17-UD-C-34-35-137	UD	C	34	14	35	137	VT	TC			35	137	VT	TS			35	137	6	0	19	28	17-UD-C-34-35-137-8
17	17-UD-C-34-25-156	UD	C	34	15	40-47	153	VT	POR X5			25	156	VT	P			25	156	50	12	62		17-UD-C-34-25-156-9
17	17-UD-C-34-13-0	UD	C	34								13	0	VT	LOF			13	0	4	0	4		17-UD-C-34-13-0-10
17	17-UD-C-34-16-2	UD	C	34								16	2	VT	IF			16	2	0	6	6		17-UD-C-34-16-2-11
17	17-UD-C-34-58-62	UD	C	34								58	62	VT	P			58	62	0	32	32		17-UD-C-34-58-62-13
17	17-UD-C-34-65-0	UD	C	34								65	0	VT	RI			65	0	19	0	19		17-UD-C-34-65-0-12
17	17-UD-C-35-30-0	UD	C	35	1	30	0	VT	POR			30	0	VT	P			30	0	2	0	2		17-UD-C-35-30-0-1
17	17-UD-C-35-49-79	UD	C	35	3	49	79	VT	TC		0.110	49	79	VT	G			49	79	1	0	1		17-UD-C-35-49-79-2
17	17-UD-C-35-59-138	UD	C	35	5	59	138	VT	POR			59	138	VT	P			59	138	4	6	10		17-UD-C-35-59-138-3
17	17-UD-C-35-0-0	UD	C	35								0	0	VT	RI			0	0	0	2	2		17-UD-C-35-0-0-4
17	17-UD-C-35-27-59	UD	C	35								27	59	VT	P			27	59	0	15	15		17-UD-C-35-27-59-6
17	17-UD-C-35-60-8	UD	C	35								60	8	VT	P			60	8	0	4	4		17-UD-C-35-60-8-5
17	17-UD-C-36-2-153	UD	C	36	1	2	153	VT	POR			2	153	VT	P			2	156	30	0	30		17-UD-C-36-2-156-1
17	17-UD-C-36-42-140	UD	C	36	6	42	140	VT	TC		0.130	42	140	VT	D			42	140	6	0	19	28	17-UD-C-36-42-140-2
17	17-UD-C-36-23-74	UD	C	36	7	23	74	VT	TC		0.100	23	74	VT	G			23	74	0	2	2		17-UD-C-36-23-74-3
17	17-UD-C-36-0-91	UD	C	36	8	0	91	VT	POR			0	91	VT	LOF			0	80	0	48	48		17-UD-C-36-0-80-4
17	17-UD-C-36-0-58	UD	C	36	11	0	55-62	VT	POR			0	58	VT	P			0	45	0	51	51		17-UD-C-36-0-45-5
17	17-UD-C-36-8-51	UD	C	36	12	8	51	VT	POR			8	51	VT	P			8	51	0	4	4		17-UD-C-36-8-51-6
17	17-UD-C-36-10-36	UD	C	36	13	10	36	VT	POR			10	36	VT	P			12	23	0	33	33		17-UD-C-36-12-23-7
17	17-UD-C-36-4-0	UD	C	36	15	7	1	VT	POR			4	0	VT	P			4	0	18	0	18		17-UD-C-36-4-0-8
17	17-UD-C-36-71-26	UD	C	36	16	71	26	VT	POR			71	26	VT	IF			71	26	4	3	7		17-UD-C-36-71-26-9
17	17-UD-C-36-0-76	UD	C	36								0	76	VT	LOF			0	76	2	0	2		17-UD-C-36-0-76-12
17	17-UD-C-36-5-74	UD	C	36								5	74	VT	RI			5	74	1	2	3		17-UD-C-36-5-74-11
17	17-UD-C-36-9-64	UD	C	36								9	64	VT	UC			9	64	0	8	8		17-UD-C-36-9-64-10
17	17-UD-C-37-0-128	UD	C	37	3	0	128	VT	POR			0	128	VT	P			0	128	0	11	11		17-UD-C-37-0-128-1
17	17-UD-C-37-38-113	UD	C	37	4	38	113	VT	TC		0.130	38	113	VT	TS			38	113	2	3	5		17-UD-C-37-38-113-2
17	17-UD-C-37-0-75	UD	C	37								0	75	VT	P			0	75	0	4	4		17-UD-C-37-0-75-3
17	17-UD-C-37-26-75	UD	C	37								26	75	VT	D			26	75	6	0	19	28	17-UD-C-37-26-75-4
17	17-UD-C-37-39-156	UD	C	37								39	156	VT	LOF			39	156	19	0	19		17-UD-C-37-39-156-6
17	17-UD-C-37-59-140	UD	C	37								59	140	VT	IF			59	140	0	27	27		17-UD-C-37-59-140-5
17	17-UD-C-38-22-136	UD	C	38	2	22	136	VT	TC		0.120	22	136	VT	UC			22	136	0	2	2		17-UD-C-38-22-136-1
17	17-UD-C-38-18-122	UD	C	38	3	18	122	VT	TC		0.140	18	122	VT	G			18	122	8	8	32	64	17-UD-C-38-18-122-2
17	17-UD-C-38-45-127	UD	C	38	4	45	127	VT	TC		0.110	45	127	VT	G			45	127	0	2	2		17-UD-C-38-45-127-3
17	17-UD-C-38-19-153	UD	C	38	5	16-23	153	VT	POR			19	153	VT	P			25	156	51	0	51		17-UD-C-38-25-156-4
17	17-UD-C-38-14-0	UD	C	38	6	14	0	VT	POR			14	0	VT	P			14	0	9	5	14		17-UD-C-38-14-0-5
17	17-UD-C-38-0-0	UD	C	38	7	0	0	VT	POR			0	0	VT	P			0	0	2	2	4		17-UD-C-38-0-0-6
17	17-UD-C-38-12-34	UD	C	38	8	12	34	VT	POR			12	34	VT	P			12	34	0	8	8		17-UD-C-38-12-34-7
17	17-UD-C-38-71-31	UD	C	38	10	71	31	VT	POR			71	31	VT	RI			71	31	0	4	4		17-UD-C-38-71-31-8
17	17-UD-C-38-66-70	UD	C	38	11	66	52-60	VT	POR X6			66	70	VT	LOF			64	70	0	82	82		17-UD-C-38-64-70-9
17	17-UD-C-38-65-95	UD	C	38	12	65	94-97	VT	POR X3			65	95	VT	P			65	95	9	26	35		17-UD-C-38-65-95-10
17	17-UD-C-38-59-109	UD	C	38	15	59	109	VT	POR			59	109	VT	P			59	109	9	0	9		17-UD-C-38-59-109-11
17	17-UD-C-38-57-122	UD	C	38	19	57	119	VT	POR			57	122	VT	P			57	119	0	4	4		17-UD-C-38-57-119-12
17	17-UD-C-38-0-118	UD	C	38								0	118	VT	P			0	118	0	19	19		17-UD-C-38-0-118-13
17	17-UD-C-38-0-26	UD	C	38								0	26	VT	RI			0	26	0	12	12		17-UD-C-38-0-26-18
17	17-UD-C-38-0-50	UD	C	38								0	50	VT	RI			0	50	0	7	7		17-UD-C-38-0-50-17
17	17-UD-C-38-0-87	UD	C	38								0	87	VT	RI			0	87	8	6	14		17-UD-C-38-0-87-14

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report								EEL Probe Up						Recommended Repairs						Repair Number: May Apply to Multiple Indications	
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Indication(in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)		
17	17-UD-C-38-22-75	UD	C	38								22	75	VT	G			22	75	0	4	4		WR	17-UD-C-38-22-75-15	
17	17-UD-C-38-26-72	UD	C	38								26	72	VT	UC			26	72	0	9	9		WR	17-UD-C-38-26-72-16	
17	17-UD-C-38-71-26	UD	C	38								71	26	VT	P			71	26	0	4	4		WR	17-UD-C-38-71-26-19	
17	17-UD-C-38-73-9	UD	C	38								73	9	VT	RI			73	9	6	7	13		WR	17-UD-C-38-73-9-20	
17	17-UD-C-38-74-0	UD	C	38								74	0	VT	RI			74	0	9	3	12		WR	17-UD-C-38-74-0-21	
17	17-UD-C-39-20-102	UD	C	39	5	20	102	VT	DENT		0.100		20	102	VT	D			20	102	8	8	32	64	PP	17-UD-C-39-20-102-1
17	17-UD-C-39-50-89	UD	C	39	6	50	89	VT	TC		0.120		50	89	VT	D			50	89	6	0	19	28	PP	17-UD-C-39-50-89-2
17	17-UD-C-39-0-132	UD	C	39	9	0	132	VT	GOUGE		0.100		0	132	VT	RI			0	132	0	8	8		WR	17-UD-C-39-0-132-3
17	17-UD-C-39-60-73	UD	C	39	10	60	70-76	VT				60	73	VT	IF			60	98	0	84	84		WR	17-UD-C-39-60-98-4	
17	17-UD-C-39-28-0	UD	C	39								28	0	VT	RI			28	0	4	0	4		WR	17-UD-C-39-28-0-5	
17	17-UD-C-39-51-156	UD	C	39								51	156	VT	P			51	156	18	0	18		WR	17-UD-C-39-51-156-6	
17	17-UD-C-40-1-153	UD	C	40	1	0-3	153	VT	POR X3			1	153	VT	P			1	153	14	1	15		WR	17-UD-C-40-1-153-1	
17	17-UD-C-40-24-153	UD	C	40	3	24	153	VT	POR			24	153	VT	P			24	153	6	0	6		WR	17-UD-C-40-24-153-2	
17	17-UD-C-40-31-116	UD	C	40	4	31	116	VT	TC		0.120		31	116	VT	D			31	116	6	0	19	28	PP	17-UD-C-40-31-116-3
17	17-UD-C-40-0-21	UD	C	40	5	0	7-9	VT	POR X3			0	21	VT	RI			0	21	0	30	30		WR	17-UD-C-40-0-21-4	
17	17-UD-C-40-0-0	UD	C	40	6	0	2-5	VT	POR X2			0	0	VT	LOF			0	0	9	8	17		WR	17-UD-C-40-0-0-5	
17	17-UD-C-40-14-3	UD	C	40	7	14	6	VT	POR		0.100		14	3	VT	P			14	3	3	3	6		WR	17-UD-C-40-14-3-6
17	17-UD-C-40-42-25	UD	C	40	8	42	25	VT	TC			42	25	VT	G			42	25	1	0	1		WR	17-UD-C-40-42-25-7	
17	17-UD-C-40-11-13	UD	C	40								11	13	VT	RI			11	13	0	19	19		WR	17-UD-C-40-11-13-12	
17	17-UD-C-40-11-28	UD	C	40								11	28	VT	RI			11	28	0	4	4		WR	17-UD-C-40-11-28-13	
17	17-UD-C-40-12-0	UD	C	40								12	0	VT	UC			12	0	3	0	3		WR	17-UD-C-40-12-0-11	
17	17-UD-C-40-25-111	UD	C	40								25	111	VT	D			25	111	8	8	32	64	PP	17-UD-C-40-25-111-8	
17	17-UD-C-40-49-0	UD	C	40								49	0	VT	RI			49	0	4	0	4		WR	17-UD-C-40-49-0-10	
17	17-UD-C-40-69-28	UD	C	40								69	28	VT	RI			69	28	0	11	11		WR	17-UD-C-40-69-28-9	
17	17-UD-C-41-0-16	UD	C	41	1	0	19	VT	POR			0	16	VT	RI			0	16	0	13	13		WR	17-UD-C-41-0-16-1	
17	17-UD-C-41-0-74	UD	C	41	2	0	53-92	VT	LF/POR			0	74	VT	LOF			0	74	0	84	84		WR	17-UD-C-41-0-74-2	
17	17-UD-C-41-59-87	UD	C	41	3	59	87	VT	POR			59	87	VT	P			59	87	0	120	120		WR	17-UD-C-41-59-87-3	
17	17-UD-C-41-0-153	UD	C	41	5	0	153	VT	LF			0	153	VT	LOF			0	156	60	0	60		WR	17-UD-C-41-30-156-4	
17	17-UD-C-41-0-42	UD	C	41								0	42	VT	LOF			0	42	0	7	7		WR	17-UD-C-41-0-42-7	
17	17-UD-C-41-30-67	UD	C	41								30	67	VT	RI			30	67	12	0	12		WR	17-UD-C-41-30-67-9	
17	17-UD-C-41-47-0	UD	C	41								47	0	VT	RI			47	0	25	0	25		WR	17-UD-C-41-47-0-5	
17	17-UD-C-41-58-128	UD	C	41								58	128	VT	RI			58	128	0	4	4		WR	17-UD-C-41-58-128-10	
17	17-UD-C-41-59-57	UD	C	41								59	57	VT	RI			59	57	0	4	4		WR	17-UD-C-41-59-57-8	
17	17-UD-C-41-60-0	UD	C	41								60	0	VT	IF			60	0	6	0	6		WR	17-UD-C-41-60-0-6	
17	17-UD-C-42-0-152	UD	C	42	1	0	146-150	VT	LF			15	0	VT	LOF			15	0	12	7	19		WR	17-UD-C-42-0-152-1	
17	17-UD-C-42-15-0	UD	C	42								3	0	VT	RI			3	0	4	6	10		WR	17-UD-C-42-15-0-4	
17	17-UD-C-42-3-0	UD	C	42								3	0	VT	LOF			3	0	4	6	10		WR	17-UD-C-42-3-0-3	
17	17-UD-C-42-57-110	UD	C	42								57	110	VT	LOF			57	110	0	20	20		WR	17-UD-C-42-57-110-2	
17	17-UD-C-43-0-21	UD	C	43	1	0	39	VT	POR			0	21	VT	RI			0	21	0	42	42		WR	17-UD-C-43-0-21-1	
17	17-UD-C-43-0-66	UD	C	43	2	0	63-68	VT	POR X3			0	66	VT	P			0	66	0	32	32		WR	17-UD-C-43-0-66-2	
17	17-UD-C-43-0-96	UD	C	43	5	0	96	VT	POR			0	96	VT	RI			0	96	0	4	4		WR	17-UD-C-43-0-96-3	
17	17-UD-C-43-11-96	UD	C	43	6	11	96	VT	DENT		0.080	11	96	VT	D			11	96	10	10	40	100	PP	17-UD-C-43-11-96-4	
17	17-UD-C-43-0-136	UD	C	43	7	0	144-158	VT	POR X4			0	136	VT	IF			0	136	0	41	41		WR	17-UD-C-43-0-136-5	
17	17-UD-C-43-12-156	UD	C	43	8	10	153	VT	POR			12	156	VT	LOF			12	156	17	0	17		WR	17-UD-C-43-12-156-6	
17	17-UD-C-43-43-142	UD	C	43	9	43	138	VT	TC		0.110	43	142	VT	UC			43	142	0	8	8		WR	17-UD-C-43-43-142-7	
17	17-UD-C-43-59-148	UD	C	43	10	59	141	VT	POR			59	148	VT	P			59	148	0	16	16		WR	17-UD-C-43-59-148-8	
17	17-UD-C-43-50-0	UD	C	43	11	50	0	VT	POR			50	0	VT	RI			50	0	4	0	4		WR	17-UD-C-43-50-0-9	
17	17-UD-C-43-0-0	UD	C	43								0	0	VT	UC			0	0	6	5	11		WR	17-UD-C-43-0-0-14	
17	17-UD-C-43-5-156	UD	C	43								5	156	VT	RI			5	156	0	8	8		WR	17-UD-C-43-5-156-10	
17	17-UD-C-43-59-125	UD	C	43								59	125	VT	RI			59	125	0	4	4		WR	17-UD-C-43-59-125-12	
17	17-UD-C-43-59-25	UD	C	43								59	25	VT	RI			59	25	0	17	17		WR	17-UD-C-43-59-25-13	
17	17-UD-C-44-16-153	UD	C	44	2	16	153	VT	POR		0.150	16	153	VT	P			16	153	51	0	51		WR	17-UD-C-44-16-153-1	
17	17-UD-C-44-20-133	UD	C	44	7	20	133	VT	TC		0.150	20	133	VT	G			20	133	6	0	19	28	PP	17-UD-C-44-20-133-2	
17	17-UD-C-44-35-143	UD	C	44	8	35	143	VT	TC		0.150	35	143	VT	UC			35	143	8	8	32	64	PP	17-UD-C-44-35-143-3	
17	17-UD-C-44-35-120	UD	C	44	9	35	120	VT	TC		0.100	35	120	VT	G			35	120	1	0	1		WR	17-UD-C-44-35-120-4	

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report										EEL Probe Up						Recommended Repairs										Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex ID on Plate	X Coordinate (in)	Y Coordinate (in)	Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift (in)	Center of Indication X (in)	Center of Indication Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair X (in)	Center of Repair Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)					
17	17-UD-C-44-0-83	UD	C	44	10	0	78-88	VT	POR				0	83	VT	P			0	74	3	74	77		WR	17-UD-C-44-0-74-5				
17	17-UD-C-44-61-91	UD	C	44	12	61	86	VT	POR				61	91	VT	RI			61	91	0	15	15		WR	17-UD-C-44-61-91-6				
17	17-UD-C-44-64-67	UD	C	44	13	64	63	VT	POR				64	67	VT	LOF			64	67	12	20	32		WR	17-UD-C-44-64-67-7				
17	17-UD-C-44-14-2	UD	C	44	14	14	2	VT	POR				14	2	VT	LOF			14	2	12	0	12		WR	17-UD-C-44-14-2-8				
17	17-UD-C-44-66-0	UD	C	44	15	66	0	VT	POR				66	0	VT	P			66	0	0	18	18		WR	17-UD-C-44-66-0-9				
17	17-UD-C-44-69-17	UD	C	44	16	0	16-19	VT	POR X3				69	17	VT	LOF			69	17	0	48	48		WR	17-UD-C-44-0-27-10				
17	17-UD-C-44-53-150	UD	C	44	19	53	150	VT	TC		0.170		53	150	VT	LOF			53	150	27	42	69		WR	17-UD-C-44-53-150-11				
17	17-UD-C-44-0-0	UD	C	44									0	0	VT	LOF			0	0	17	33	50		WR	17-UD-C-44-0-0-18				
17	17-UD-C-44-0-107	UD	C	44									0	107	VT	P			0	107	0	7	7		WR	17-UD-C-44-0-107-15				
17	17-UD-C-44-12-4	UD	C	44									12	4	VT	RI			12	4	0	4	4		WR	17-UD-C-44-12-4-11				
17	17-UD-C-44-142	UD	C	44									4	142	VT	D			4	142	8	8	32	64	TSP	17-UD-C-44-142-4-16				
17	17-UD-C-44-35-101	UD	C	44									35	101	VT	D			35	101	6	0	19	28	PP	17-UD-C-44-35-101-17				
17	17-UD-C-44-46-0	UD	C	44									46	0	VT	UC			46	0	0	6	6		WR	17-UD-C-44-46-0-13				
17	17-UD-C-44-49-1	UD	C	44									49	1	VT	P			49	1	2	0	2		WR	17-UD-C-44-49-1-14				
17	17-UD-C-45-10-44	UD	C	45	5	10	44	VT	DENT		0.140		10	44	VT	D			10	44	10	10	40	100	PP	17-UD-C-45-10-44-1				
17	17-UD-C-45-39-40	UD	C	45	7	39	40	VT	DENT		0.080		39	40	VT	D			39	40	6	0	19	28	PP	17-UD-C-45-39-40-2				
17	17-UD-C-45-17-0	UD	C	45	8	15-20	0	VT	POR X3				17	0	VT	P			17	0	6	0	6		WR	17-UD-C-45-17-0-3				
17	17-UD-C-45-61-90	UD	C	45	14	61	90	VT	DENT		0.160		61	90	VT	D			61	90	10	10	40	100	PP	17-UD-C-45-61-90-4				
17	17-UD-C-45-61-82	UD	C	45	15	61	75-95	VT	POR/LF				61	82	VT	LOF			61	82	18	112	130		WR	17-UD-C-45-61-82-5				
17	17-UD-C-45-45-156	UD	C	45	16	50	153	VT	POR				45	156	VT	P			45	156	31	0	31		WR	17-UD-C-45-45-156-6				
17	17-UD-C-45-0-130	UD	C	45									0	130	VT	P			0	130	0	7	7		WR	17-UD-C-45-0-130-12				
17	17-UD-C-45-10-0	UD	C	45									10	0	VT	RI			10	0	8	0	8		WR	17-UD-C-45-10-0-7				
17	17-UD-C-45-10-119	UD	C	45									10	119	VT	D			10	119	6	0	19	28	PP	17-UD-C-45-10-119-11				
17	17-UD-C-45-18-68	UD	C	45									18	68	VT	D			18	68	10	12	44	120	PP	17-UD-C-45-18-68-13				
17	17-UD-C-45-40-0	UD	C	45									40	0	VT	RI			40	0	4	0	4		WR	17-UD-C-45-40-0-9				
17	17-UD-C-45-6-14	UD	C	45									6	14	VT	D			6	14	6	0	19	28	PP	17-UD-C-45-6-14-10				
17	17-UD-C-45-62-2	UD	C	45									62	2	VT	UC			62	2	9	14	23		WR	17-UD-C-45-62-2-8				
17	17-UD-C-46-0-59	UD	C	46	4	0	58-61	VT	POR				0	59	VT	RI			0	59	0	8	8		WR	17-UD-C-46-0-59-1				
17	17-UD-C-46-60-106	UD	C	46	9	60	106	VT	LF				60	106	VT	G			60	104	21	60	81		WR	17-UD-C-46-60-104-2				
17	17-UD-C-46-59-79	UD	C	46	11	58-61	79	VT	TC		0.100		59	79	VT	TS			60	79	5	0	5		WR	17-UD-C-46-60-79-3				
17	17-UD-C-46-4-50	UD	C	46	14	4	50	VT	DENT		0.100		4	50	VT	D			3	50	6	8	14		WR	17-UD-C-46-3-50-4				
17	17-UD-C-46-16-2	UD	C	46	15	16	2	VT	POR				16	2	VT	P			16	2	9	6	15		WR	17-UD-C-46-16-2-5				
17	17-UD-C-46-24-6	UD	C	46	16	24	6	VT	DENT		0.140		24	6	VT	D			22	4	22	4	52	88	TSP	17-UD-C-46-22-4-6				
17	17-UD-C-46-34-0	UD	C	46	18	33-35	0	VT	POR				34	0	VT	RI			34	0	10	0	10		WR	17-UD-C-46-34-0-7				
17	17-UD-C-46-76-0	UD	C	46	19	73	7	VT	POR				76	0	VT	P			76	0	38	36	74		WR	17-UD-C-46-76-0-8				
17	17-UD-C-46-0-130	UD	C	46									19	130	VT	RI			0	130	0	4	4		WR	17-UD-C-46-0-130-9				
17	17-UD-C-46-19-156	UD	C	46									19	156	VT	RI			19	156	8	0	8		WR	17-UD-C-46-19-156-10				
17	17-UD-C-46-61-65	UD	C	46									61	65	VT	G			61	65	5	0	5		WR	17-UD-C-46-61-65-11				
17	17-UD-C-46-65-0	UD	C	46									65	0	VT	UC			65	0	10	0	10		WR	17-UD-C-46-65-0-12				
17	17-UD-C-47-19-156	UD	C	47	1	5	153	VT	POR				19	156	VT	LOF			19	156	32	3	35		WR	17-UD-C-47-19-156-1				
17	17-UD-C-47-0-146	UD	C	47	2	0	146	VT	POR				0	146	VT	RI			0	146	0	11	11		WR	17-UD-C-47-0-146-2				
17	17-UD-C-47-31-137	UD	C	47	4	31	137	VT	TC		0.093		31	137	VT	G			31	137	0	3	3		WR	17-UD-C-47-31-137-3				
17	17-UD-C-47-17-59	UD	C	47	8	17	59	VT	TC		0.110		17	59	VT	G			17	59	0	3	3		WR	17-UD-C-47-17-59-4				
17	17-UD-C-47-0-17	UD	C	47	9	0	11	VT	POR				0	17	VT	RI			0	17	0	18	18		WR	17-UD-C-47-0-17-5				
17	17-UD-C-47-8-0	UD	C	47	11	8	0	VT	POR				8	0	VT	P			32	0	54	0	54		WR	17-UD-C-47-32-0-6				
17	17-UD-C-47-0-126	UD	C	47	15	0	126	VT	POR				0	126	VT	P			0	126	9	7	16		WR	17-UD-C-47-0-126-7				
17	17-UD-C-47-60-120	UD	C	47	17	60	120	VT	POR				60	120	VT	RI			60	120	0	7	7		WR	17-UD-C-47-60-120-8				
17	17-UD-C-47-12-144	UD	C	47									12	144	VT	G			12	144	2	0	2		WR	17-UD-C-47-12-144-12				
17	17-UD-C-47-50-77	UD	C	47									50	77	VT	UC			50	77	0	6	6		WR	17-UD-C-47-50-77-10				
17	17-UD-C-47-54-156	UD	C	47									54	156	VT	LOF			54	156	16	0	16		WR	17-UD-C-47-54-156-9				
17	17-UD-C-47-60-40	UD	C	47									60	40	VT	RI			60	40	12	0	12		WR	17-UD-C-47-60-40-11				
17	17-UD-C-48-26-153	UD	C	48	1	21-31	153	VT	POR				26	153	VT	RI			26	153	26	0	26		WR	17-UD-C-48-26-153-1				
17	17-UD-C-48-53-124	UD	C	48	4	54	121-124	VT	POR				53	124	VT	RI			53	124	0	6	6		WR	17-UD-C-48-53-124-2				
17	17-UD-C-48-4-60	UD	C	48	5	4	60	VT	POR				4	60	VT	RI			3	58	0	50	50		WR	17-UD-C-48-3-58-3				
17	17-UD-C-48-10-22	UD	C	48	10	9-11	14-35	VT	POR X15				10	22	VT	P			10	22	0	37	37		WR	17-UD-C-48-10-22-4				
17	17-UD-C-48-0-38	UD	C	48	13	0	38	VT	POR				0	38	VT	LOF			0	22	0	37	37		WR	17-UD-C-48-0-22-5				

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Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report								EEI Probe Up						Recommended Repairs						Repair Number; May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Indon Plate ID	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift or Topside Indication(in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	
17	17-UD-C-48-59-34	UD	C	48	16	68	18-67	VT	POR X23			59	34	VT	P			59	34	0	66	66		17-UD-C-48-59-34-6	
17	17-UD-C-48-0-0	UD	C	48	19	3	0	VT	POR			0	0	VT	P			0	0	18	18	36		17-UD-C-48-0-0-7	
17	17-UD-C-48-15-0	UD	C	48	20	13	6-8	VT	POR			15	0	VT	P			15	0	18	24	42		17-UD-C-48-15-0-8	
17	17-UD-C-48-0-7	UD	C	48	21	0	7	VT	POR			0	7	VT	P			16	0	18	12	30		17-UD-C-48-0-9	
17	17-UD-C-48-57-105	UD	C	48								57	105	VT	RI			57	105	0	6	6		17-UD-C-48-57-105-11	
17	17-UD-C-48-58-81	UD	C	48								58	81	VT	RI			58	81	0	4	4		17-UD-C-48-58-81-12	
17	17-UD-C-48-60-0	UD	C	48								60	0	VT	RI			60	0	22	0	22		17-UD-C-48-60-0-13	
17	17-UD-C-48-9-41	UD	C	48								9	41	VT	RI			9	41	0	4	4		17-UD-C-48-9-41-10	
17	17-UD-8-1-9-24	UD	B	1	2	9	24	VT	Dent	0.150		9	24	VT	D			10	22	6	0	19	28	17-UD-8-1-10-22-1	
17	17-UD-8-1-0-20	UD	B	1	3	0	20	VT	TC	0.180		0	20	VT	TS			0	17	0	4	4		17-UD-8-1-0-17-2	
17	17-UD-8-1-57-136	UD	B	1	5	57	136	VT	POR			57	136	VT	P			57	136	0	4	4		17-UD-8-1-57-136-3	
17	17-UD-8-1-18-156	UD	B	1								18	156	VT	P			19	156	4	0	4		17-UD-8-1-19-156-6	
17	17-UD-8-1-28-156	UD	B	1								28	156	VT	P			28	156	6	0	6		17-UD-8-1-28-156-7	
17	17-UD-8-1-3-156	UD	B	1								3	156	VT	P			3	156	2	2	4		17-UD-8-1-3-156-4	
17	17-UD-8-1-42-156	UD	B	1								42	156	VT	P			42	156	7	0	7		17-UD-8-1-42-156-8	
17	17-UD-8-1-51-156	UD	B	1								51	156	VT	P			51	156	6	0	6		17-UD-8-1-51-156-9	
17	17-UD-8-1-9-156	UD	B	1								9	156	VT	P			9	156	4	0	4		17-UD-8-1-9-156-5	
17	17-UD-8-2-0-100	UD	B	2								0	100	VT	RI			0	100	0	12	12		17-UD-8-2-0-100-1	
17	17-UD-8-2-0-156	UD	B	2								0	156	VT	RI			0	156	0	3	3		17-UD-8-2-0-156-2	
17	17-UD-8-2-0-56	UD	B	2								0	56	VT	RI			0	56	0	5	5		17-UD-8-2-0-56-8	
17	17-UD-8-2-42-156	UD	B	2								42	156	VT	RI			42	156	6	0	6		17-UD-8-2-42-156-3	
17	17-UD-8-2-49-143	UD	B	2								49	143	VT	RI			49	143	0	4	4		17-UD-8-2-49-143-5	
17	17-UD-8-2-51-156	UD	B	2								51	156	VT	RI			51	156	3	3	6		17-UD-8-2-51-156-4	
17	17-UD-8-2-54-59	UD	B	2								54	59	VT	RI			54	59	0	6	6		17-UD-8-2-54-59-6	
17	17-UD-8-2-55-42	UD	B	2								55	42	VT	RI			55	42	0	4	4		17-UD-8-2-55-42-7	
17	17-UD-8-3-0-136	UD	B	3								0	136	VT	RI			0	136	0	7	7		17-UD-8-3-0-136-9	
17	17-UD-8-3-0-155	UD	B	3								0	155	VT	RI			0	155	0	3	3		17-UD-8-3-0-155-1	
17	17-UD-8-3-0-49	UD	B	3								0	49	VT	RI			0	49	0	4	4		17-UD-8-3-0-49-7	
17	17-UD-8-3-1-156	UD	B	3								1	156	VT	RI			1	156	3	0	3		17-UD-8-3-1-156-2	
17	17-UD-8-3-25-130	UD	B	3								25	130	VT	RI			25	130	0	4	4		17-UD-8-3-25-130-6	
17	17-UD-8-3-25-137	UD	B	3								25	137	VT	RI			25	137	0	4	4		17-UD-8-3-25-137-8	
17	17-UD-8-3-25-154	UD	B	3								25	154	VT	RI			25	154	3	0	3		17-UD-8-3-25-154-5	
17	17-UD-8-3-25-155	UD	B	3								25	155	VT	RI			25	155	0	3	3		17-UD-8-3-25-155-4	
17	17-UD-8-3-3-156	UD	B	3								3	156	VT	RI			3	156	0	3	3		17-UD-8-3-3-156-3	
17	17-UD-8-4-0-15	UD	B	4	2	0	15	VT	POR			0	15	VT	P			0	15	0	4	4		17-UD-8-4-0-15-1	
17	17-UD-8-4-0-79	UD	B	4								0	79	VT	P			0	79	0	15	15		17-UD-8-4-0-79-2	
17	17-UD-8-4-0-80	UD	B	4								0	80	VT	P			0	80	0	4	4		17-UD-8-4-0-80-3	
17	17-UD-8-4-59-119	UD	B	4								59	119	VT	P			59	119	0	4	4		17-UD-8-4-59-119-4	
17	17-UD-8-4-59-132	UD	B	4								59	132	VT	P			59	132	0	4	4		17-UD-8-4-59-132-5	
17	17-UD-8-5-0-23	UD	B	5	1	0	20	VT	POR			0	23	VT	P			0	23	0	4	4		17-UD-8-5-0-23-1	
17	17-UD-8-5-0-63	UD	B	5	3	0	63	VT	POR			0	63	VT	P			0	64	0	7	7		17-UD-8-5-0-64-2	
17	17-UD-8-5-0-68	UD	B	5	4	0	68	VT	POR			0	68	VT	P			0	70	0	13	13		17-UD-8-5-0-70-3	
17	17-UD-8-5-0-83	UD	B	5	6	0	83	VT	POR			0	83	VT	P			0	83	0	4	4		17-UD-8-5-0-83-4	
17	17-UD-8-5-13-108	UD	B	5	7	13	108	VT	POR			13	108	VT	P			17	144	0	9	9		17-UD-8-5-17-144-5	
17	17-UD-8-5-0-114	UD	B	5	10	0	113	VT	POR			0	114	VT	P			0	114	0	4	4		17-UD-8-5-0-114-6	
17	17-UD-8-5-0-125	UD	B	5	11	0	125	VT	POR			0	125	VT	P			0	125	0	4	4		17-UD-8-5-0-125-7	
17	17-UD-8-5-18-156	UD	B	5	12	4	19	VT	POR (6)			18	156	VT	P			18	156	7	0	7		17-UD-8-5-18-156-8	
17	17-UD-8-5-0-144	UD	B	5	13	0	142	VT	POR			0	144	VT	P			0	144	0	4	4		17-UD-8-5-0-144-9	
17	17-UD-8-5-0-134	UD	B	5	14	0	132	VT	POR			0	134	VT	P			0	134	0	4	4		17-UD-8-5-0-134-10	
17	17-UD-8-5-0-156	UD	B	5								0	156	VT	LOF			0	156	0	12	12		17-UD-8-5-0-156-14	
17	17-UD-8-5-4-107	UD	B	5								4	107	VT	D			4	107	8	8	32	64	17-UD-8-5-4-107-13	
17	17-UD-8-5-50-145	UD	B	5								50	145	VT	P			50	145	0	14	14		17-UD-8-5-50-145-11	
17	17-UD-8-5-8-156	UD	B	5								8	156	VT	P			8	156	9	0	9		17-UD-8-5-8-156-12	
17	17-UD-8-6-22-0	UD	B	6	1	22	0	VT	POR			22	0	VT	P			22	0	4	0	4		17-UD-8-6-22-0-1	
17	17-UD-8-6-29-42	UD	B	6	2	29	42	VT	POR			29	42	VT	P			29	42	2	0	2		17-UD-8-6-29-42-2	
17	17-UD-8-6-29-44	UD	B	6	3	29	72	VT	Bulge			29	44	VT	B			29	44	0	4	4		17-UD-8-6-29-44-3	

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report							EEL Probe Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications				
		Location in Tank	Shell Course	Plate Number	TestTex ID on Plate	X Coordinate (in)	Y Coordinate (in)	Coordinate (in)	Method	Indication Type	Minimum Wall Thickness (in)	Depth (in)	Indication (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)		Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	
17	17-UD-8-6-7-51	UD 8	B	6											7	51	VT	G			7	51	0	2	2		WR	17-UD-8-6-7-51-4
17	17-UD-8-7-8-0	UD 8	B	7	1										8	0	VT	P			8	0	0	4	4		WR	17-UD-8-7-8-0-1
17	17-UD-8-7-0-89	UD 8	B	7	2										0	89	VT	P			0	89	0	4	4		WR	17-UD-8-7-0-89-2
17	17-UD-8-7-57-0	UD 8	B	7	4										57	0	VT	P			57	0	4	0	4		WR	17-UD-8-7-57-0-3
17	17-UD-8-7-24-37	UD 8	B	7											24	37	VT	G			24	37	6	0	19	28	PP	17-UD-8-7-24-37-4
17	17-UD-8-7-33-105	UD 8	B	7											33	105	VT	G			33	105	4	0	4		WR	17-UD-8-7-33-105-7
17	17-UD-8-7-38-56	UD 8	B	7											38	56	VT	G			38	56	0	2	2		WR	17-UD-8-7-38-56-5
17	17-UD-8-7-38-75	UD 8	B	7											38	75	VT	D			38	75	6	0	19	28	PP	17-UD-8-7-38-75-6
17	17-UD-8-8-0-30	UD 8	B	8	1										0	30	VT	P			0	30	4	0	4		WR	17-UD-8-8-0-30-1
17	17-UD-8-8-54-60	UD 8	B	8	3										54	60	VT	RI			54	61	0	8	8		WR	17-UD-8-8-54-61-2
17	17-UD-8-8-24-156	UD 8	B	8	6										24	156	VT	P			24	156	7	0	7		WR	17-UD-8-8-24-156-6
17	17-UD-8-8-3-156	UD 8	B	8											3	156	VT	P			3	156	5	0	5		WR	17-UD-8-8-3-156-5
17	17-UD-8-8-3-41	UD 8	B	8											3	41	VT	G			3	41	0	2	2		WR	17-UD-8-8-3-41-10
17	17-UD-8-8-51-151	UD 8	B	8											51	151	VT	P			51	151	2	0	2		WR	17-UD-8-8-51-151-9
17	17-UD-8-8-56-78	UD 8	B	8											56	78	VT	P			56	78	2	0	2		WR	17-UD-8-8-56-78-8
17	17-UD-8-8-56-84	UD 8	B	8											56	84	VT	P			56	84	2	0	2		WR	17-UD-8-8-56-84-7
17	17-UD-8-8-58-31	UD 8	B	8											58	31	VT	P			58	31	0	4	4		WR	17-UD-8-8-58-31-3
17	17-UD-8-8-58-38	UD 8	B	8											58	38	VT	P			58	38	0	4	4		WR	17-UD-8-8-58-38-4
17	17-UD-8-9-0-15	UD 8	B	9	1										0	15	VT	P			0	15	0	4	4		WR	17-UD-8-9-0-15-1
17	17-UD-8-9-11-0	UD 8	B	9	2										11	0	VT	P			11	0	4	0	4		WR	17-UD-8-9-11-0-2
17	17-UD-8-9-0-64	UD 8	B	9	3										0	64	VT	P			0	64	0	4	4		WR	17-UD-8-9-0-64-3
17	17-UD-8-9-23-76	UD 8	B	9	4										23	76	VT	RI			23	76	0	2	2		WR	17-UD-8-9-23-76-4
17	17-UD-8-9-0-116	UD 8	B	9	6										0	116	VT	RI			0	116	0	2	2		WR	17-UD-8-9-0-116-5
17	17-UD-8-9-25-154	UD 8	B	9	7										25	154	VT	P			25	154	8	3	11		WR	17-UD-8-9-25-154-6
17	17-UD-8-9-0-153	UD 8	B	9	8										0	153	VT	P			0	153	8	8	16		WR	17-UD-8-9-0-153-7
17	17-UD-8-9-0-0	UD 8	B	9											0	0	VT	P			0	0	2	2	4		WR	17-UD-8-9-0-0-15
17	17-UD-8-9-0-134	UD 8	B	9											0	134	VT	P			0	134	0	4	4		WR	17-UD-8-9-0-134-9
17	17-UD-8-9-0-80	UD 8	B	9											0	80	VT	LOF			0	80	3	7	10		WR	17-UD-8-9-0-80-12
17	17-UD-8-9-0-99	UD 8	B	9											0	99	VT	P			0	99	0	18	18		WR	17-UD-8-9-0-99-11
17	17-UD-8-9-12-153	UD 8	B	9											12	153	VT	D			12	153	6	6	24	36	TSPP	17-UD-8-9-12-153-8
17	17-UD-8-9-28-41	UD 8	B	9											28	41	VT	P			28	41	0	4	4		WR	17-UD-8-9-28-41-13
17	17-UD-8-9-29-24	UD 8	B	9											29	24	VT	P			29	24	0	7	7		WR	17-UD-8-9-29-24-14
17	17-UD-8-9-6-127	UD 8	B	9											6	127	VT	D			6	127	6	0	19	28	PP	17-UD-8-9-6-127-10
17	17-UD-8-10-2-34	UD 8	B	10	1										2	34	VT	D			2	34	8	8	32	64	TSPP	17-UD-8-10-2-34-1
17	17-UD-8-10-0-45	UD 8	B	10	2										0	45	VT	P			0	45	0	4	4		WR	17-UD-8-10-0-45-2
17	17-UD-8-10-0-71	UD 8	B	10	3										0	71	VT	P			0	71	0	4	4		WR	17-UD-8-10-0-71-3
17	17-UD-8-10-0-84	UD 8	B	10	4										0	84	VT	P			0	84	0	15	15		WR	17-UD-8-10-0-84-4
17	17-UD-8-10-0-114	UD 8	B	10	6										0	114	VT	P			0	114	0	4	4		WR	17-UD-8-10-0-114-5
17	17-UD-8-10-0-123	UD 8	B	10	7										0	123	VT	P			0	123	0	5	5		WR	17-UD-8-10-0-123-6
17	17-UD-8-10-0-139	UD 8	B	10	8										0	139	VT	P			0	139	0	4	4		WR	17-UD-8-10-0-139-7
17	17-UD-8-10-18-156	UD 8	B	10	9										18	156	VT	P			18	156	18	0	18		WR	17-UD-8-10-18-156-8
17	17-UD-8-10-57-0	UD 8	B	10	10										57	0	VT	UC			57	0	4	0	4		WR	17-UD-8-10-57-0-9
17	17-UD-8-10-57-58	UD 8	B	10	11										57	58	VT	P			57	58	0	6	6		WR	17-UD-8-10-57-58-10
17	17-UD-8-10-13-81	UD 8	B	10	12										13	81	VT	P			13	81	10	0	10		WR	17-UD-8-10-13-81-11
17	17-UD-8-10-30-108	UD 8	B	10											30	108	VT	LOF			30	108	5	0	5		WR	17-UD-8-10-30-108-17
17	17-UD-8-10-32-0	UD 8	B	10											32	0	VT	LOF			32	0	0	2	2		WR	17-UD-8-10-32-0-12
17	17-UD-8-10-37-20	UD 8	B	10											37	20	VT	G			37	20	0	2	2		WR	17-UD-8-10-37-20-13
17	17-UD-8-10-38-38	UD 8	B	10											38	38	VT	G			38	38	0	2	2		WR	17-UD-8-10-38-38-14
17	17-UD-8-10-38-79	UD 8	B	10											38	79	VT	UC			38	79	0	2	2		WR	17-UD-8-10-38-79-15
17	17-UD-8-10-41-81	UD 8	B	10											41	81	VT	LOF			41	81	5	0	5		WR	17-UD-8-10-41-81-16
17	17-UD-8-10-5-156	UD 8	B	10											5	156	VT	LOF			5	156	0	2	2		WR	17-UD-8-10-5-156-18
17	17-UD-8-10-55-156	UD 8	B	10											55	156	VT	LOF			55	156	9	0	9		WR	17-UD-8-10-55-156-19
17	17-UD-8-11-0-81	UD 8	B	11	2										0	81	VT	P			0	81	0	15	15		WR	17-UD-8-11-0-81-1
17	17-UD-8-11-0-96	UD 8	B	11	3										0	96	VT	P			0	96	0	8	8		WR	17-UD-8-11-0-96-2
17	17-UD-8-11-0-121	UD 8	B	11	5										0	121	VT	P			0	121	0	20	20		WR	17-UD-8-11-0-121-3
17	17-UD-8-11-11-156	UD 8	B	11	7										11	156	VT	LOF			11	156	14	0	14		WR	17-UD-8-11-11-156-4

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report										EEL Probe Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications		
		Location in Tank	Shell Course	Plate Number	TestTex ID on Plate	X Coordinate (in)	Y Coordinate (in)	Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift (in)	Indication (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)		Repair Type (Patch, Weld, Cap)	
17	17-UD-8-11-40-156	UD 8	B	11	8	40	156	VT	POR				40	156	VT	LOF					40	156	9	0	9		WR	17-UD-8-11-40-156-5
17	17-UD-8-11-52-136	UD 8	B	11	10	57	136	VT	POR				52	136	VT	LOF					52	136	0	7	7		WR	17-UD-8-11-52-136-6
17	17-UD-8-11-57-131	UD 8	B	11	11	57	131	VT	UC		0.120		57	131	VT	UC					57	131	3	0	3		WR	17-UD-8-11-57-131-7
17	17-UD-8-11-15-0	UD 8	B	11									15	0	VT	P					15	0	17	0	17		WR	17-UD-8-11-15-0-10
17	17-UD-8-11-41-36	UD 8	B	11									41	36	VT	G					41	36	0	2	2		WR	17-UD-8-11-41-36-9
17	17-UD-8-11-41-59	UD 8	B	11									41	59	VT	G					41	59	0	2	2		WR	17-UD-8-11-41-59-8
17	17-UD-8-12-0-30	UD 8	B	12	1	0	29	VT	POR				0	30	VT	P					0	30	0	8	8		WR	17-UD-8-12-0-30-1
17	17-UD-8-12-29-32	UD 8	B	12	2	29	29	VT	POR				29	32	VT	P					29	32	0	18	18		WR	17-UD-8-12-29-32-2
17	17-UD-8-12-12-156	UD 8	B	12	3	12	156	VT	POR				12	156	VT	P					12	156	4	0	4		WR	17-UD-8-12-12-156-3
17	17-UD-8-12-15-156	UD 8	B	12	4	29	154	VT	LF				15	156	VT	LOF					15	156	3	3	6		WR	17-UD-8-12-15-156-4
17	17-UD-8-12-24-153	UD 8	B	12	5	29	153	VT	POR				24	153	VT	LOF					24	153	0	4	4		WR	17-UD-8-12-24-153-5
17	17-UD-8-12-0-151	UD 8	B	12									0	151	VT	LOF					0	151	3	0	3		WR	17-UD-8-12-0-151-7
17	17-UD-8-12-0-154	UD 8	B	12									0	154	VT	LOF					0	154	0	7	7		WR	17-UD-8-12-0-154-8
17	17-UD-8-12-20-0	UD 8	B	12									20	0	VT	LOF					20	0	20	0	20		WR	17-UD-8-12-20-0-6
17	17-UD-8-13-13-156	UD 8	B	13	1	7	156	VT	POR				13	156	VT	P					13	156	17	0	17		WR	17-UD-8-13-13-156-1
17	17-UD-8-13-57-156	UD 8	B	13	2	57	156	VT	POR				57	156	VT	P					57	156	3	2	5		WR	17-UD-8-13-57-156-2
17	17-UD-8-13-58-89	UD 8	B	13	3	57	90	VT	Dent				58	89	VT	P					58	89	0	7	7		WR	17-UD-8-13-58-89-3
17	17-UD-8-13-54-82	UD 8	B	13	4	35	82	VT	LF				54	82	VT	LOF					54	82	6	0	6		WR	17-UD-8-13-54-82-4
17	17-UD-8-13-18-82	UD 8	B	13	5	6-19	82	VT	LF				18	82	VT	LOF					18	82	25	0	25		WR	17-UD-8-13-18-82-5
17	17-UD-8-13-0-143	UD 8	B	13									0	143	VT	P					0	143	0	4	4		WR	17-UD-8-13-0-143-14
17	17-UD-8-13-0-156	UD 8	B	13									0	156	VT	LOF					0	156	3	3	6		WR	17-UD-8-13-0-156-13
17	17-UD-8-13-0-47	UD 8	B	13									0	47	VT	P					0	47	0	14	14		WR	17-UD-8-13-0-47-8
17	17-UD-8-13-0-4	UD 8	B	13									0	4	VT	P					0	4	0	7	7		WR	17-UD-8-13-0-4-9
17	17-UD-8-13-23-0	UD 8	B	13									23	0	VT	UC					23	0	20	0	20		WR	17-UD-8-13-23-0-10
17	17-UD-8-13-29-108	UD 8	B	13									29	108	VT	LOF					29	108	8	0	8		WR	17-UD-8-13-29-108-16
17	17-UD-8-13-36-72	UD 8	B	13									36	72	VT	RI					36	72	6	0	6		WR	17-UD-8-13-36-72-6
17	17-UD-8-13-44-156	UD 8	B	13									44	156	VT	P					44	156	30	0	30		WR	17-UD-8-13-44-156-15
17	17-UD-8-13-57-0	UD 8	B	13									57	0	VT	LOF					57	0	4	0	4		WR	17-UD-8-13-57-0-11
17	17-UD-8-13-58-62	UD 8	B	13									58	62	VT	P					58	62	0	8	8		WR	17-UD-8-13-58-62-7
17	17-UD-8-13-59-9	UD 8	B	13									59	9	VT	RI					59	9	3	2	5		WR	17-UD-8-13-59-9-12
17	17-UD-8-14-0-156	UD 8	B	14	1	0	156	VT	POR				9	156	VT	P					9	156	11	0	11		WR	17-UD-8-14-0-156-1
17	17-UD-8-14-0-135	UD 8	B	14	2	0	134	VT	POR				0	135	VT	P					0	135	0	12	12		WR	17-UD-8-14-0-135-2
17	17-UD-8-14-0-102	UD 8	B	14	3	0	108	VT	POR				0	102	VT	P					0	102	0	28	28		WR	17-UD-8-14-0-102-3
17	17-UD-8-14-8-0	UD 8	B	14	5	0	6	VT	POR				8	0	VT	UC					8	0	7	0	7		WR	17-UD-8-14-8-0-4
17	17-UD-8-14-38-0	UD 8	B	14	6	7	0	VT	POR				38	0	VT	P					38	0	42	0	42		WR	17-UD-8-14-38-0-5
17	17-UD-8-14-0-47	UD 8	B	14	8	0	47	VT	POR				0	47	VT	P					0	47	0	4	4		WR	17-UD-8-14-0-47-6
17	17-UD-8-14-0-73	UD 8	B	14	9	0	88	VT	POR				0	73	VT	LOF					0	73	0	18	18		WR	17-UD-8-14-0-73-7
17	17-UD-8-14-53-96	UD 8	B	14	10	57	91	VT	POR				53	96	VT	LOF					53	96	0	34	34		WR	17-UD-8-14-53-96-8
17	17-UD-8-14-52-120	UD 8	B	14	11	57	105	VT	POR				52	120	VT	LOF					52	120	3	3	6		WR	17-UD-8-14-52-120-9
17	17-UD-8-14-52-140	UD 8	B	14	12	57	136-148	VT	Bulge				52	140	VT	B					52	140	0	15	15		WR	17-UD-8-14-52-140-10
17	17-UD-8-14-0-5	UD 8	B	14									0	5	VT	P					0	5	0	4	4		WR	17-UD-8-14-0-5-11
17	17-UD-8-14-16-16	UD 8	B	14									16	16	VT	UC					16	16	3	3	6		WR	17-UD-8-14-16-16-13
17	17-UD-8-14-23-156	UD 8	B	14									23	156	VT	UC					23	156	8	0	8		WR	17-UD-8-14-23-156-15
17	17-UD-8-14-41-156	UD 8	B	14									41	156	VT	UC					41	156	15	0	15		WR	17-UD-8-14-41-156-16
17	17-UD-8-14-55-46	UD 8	B	14									55	46	VT	P					55	46	0	12	12		WR	17-UD-8-14-55-46-14
17	17-UD-8-14-59-7	UD 8	B	14									59	7	VT	P					59	7	3	3	6		WR	17-UD-8-14-59-7-12
17	17-UD-8-15-0-0	UD 8	B	15	1	0	0	VT	POR				0	0	VT	P					0	0	3	3	6		WR	17-UD-8-15-0-0-1
17	17-UD-8-15-21-0	UD 8	B	15	3	21	0	VT	POR				21	0	VT	P					21	0	14	0	14		WR	17-UD-8-15-21-0-2
17	17-UD-8-15-0-57	UD 8	B	15	4	0	57	VT	POR				0	57	VT	P					0	57	0	21	21		WR	17-UD-8-15-0-57-3
17	17-UD-8-15-0-79	UD 8	B	15	6	0	79	VT	POR				0	79	VT	P					0	79	0	37	37		WR	17-UD-8-15-0-79-4
17	17-UD-8-15-27-75	UD 8	B	15	16	26	96	VT	POR				27	75	VT	P					27	75	0	28	28		WR	17-UD-8-15-27-75-5
17	17-UD-8-15-11-129	UD 8	B	15	17	12	132	VT	Dent		0.100		11	129	VT	D					11	129	6	0	19		PP	17-UD-8-15-11-129-6
17	17-UD-8-15-24-135	UD 8	B	15	18	24	135	VT	UC				24	135	VT	LOF					24	135	0	6	6		WR	17-UD-8-15-24-135-7
17	17-UD-8-15-0-56	UD 8	B	15									0	56	VT	P					0	56	0	21	21		WR	17-UD-8-15-0-56-10
17	17-UD-8-15-18-157	UD 8	B	15									18	157	VT	UC					18	157	6	0	6		WR	17-UD-8-15-18-157-8
17	17-UD-8-15-20-112	UD 8	B	15																								

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Number	TestTex Report										EEL Probe Up						Recommended Repairs						Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course		TestTex	Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift (in)	Indication (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	
17	17-UD-8-16-18-156	UD 8		16		1	18	156	VT	LF				18	156	VT	IF			25	156	16	0	16		WR	17-UD-8-16-25-156-1
17	17-UD-8-16-31-156	UD 8		16		4	31	156	VT	UC				31	156	VT	UC			55	156	14	0	14		WR	17-UD-8-16-55-156-2
17	17-UD-8-16-58-152	UD 8		16		6	58	152	VT	POR				58	152	VT	P			58	152	0	8	8		WR	17-UD-8-16-58-152-3
17	17-UD-8-16-53-127	UD 8		16		7	52	124	VT	Dent		0.150		58	127	VT	D			53	127	6	0	19	28	PP	17-UD-8-16-53-127-4
17	17-UD-8-16-29-113	UD 8		16		9	29	113	VT	POR				29	113	VT	P			29	113	5	0	5		WR	17-UD-8-16-29-113-5
17	17-UD-8-16-58-110	UD 8		16		9	58	110	VT	POR				58	110	VT	P			58	110	0	8	8		WR	17-UD-8-16-58-110-6
17	17-UD-8-16-58-94	UD 8		16		10	58	94	VT	IF				58	94	VT	IF			58	94	0	15	15		WR	17-UD-8-16-58-94-7
17	17-UD-8-16-15-82	UD 8		16		11	15	82	VT	IF				15	82	VT	UC			15	82	4	0	4		WR	17-UD-8-16-15-82-8
17	17-UD-8-16-0-85	UD 8		16		12	0	84	VT	POR				0	85	VT	P			0	85	0	6	6		WR	17-UD-8-16-0-85-9
17	17-UD-8-16-0-40	UD 8		16		15	0	40	VT	POR				0	40	VT	P			10	0	0	5	5		WR	17-UD-8-16-0-40-10
17	17-UD-8-16-10-0	UD 8		16		16	0	4-58	VT	UC		0.090		56	0	VT	UC			10	0	9	0	9		WR	17-UD-8-16-10-11
17	17-UD-8-16-56-0	UD 8		16					VT	UC				56	0	VT	UC			0	56	4	0	4		WR	17-UD-8-16-0-56-12
17	17-UD-8-17-5-0	UD 8		17		1	0	0-23	VT	UC		0.110		5	0	VT	UC			5	0	14	0	14		WR	17-UD-8-17-5-0-1
17	17-UD-8-17-0-96	UD 8		17		3	0	96	VT	POR				0	96	VT	P			0	100	0	13	13		WR	17-UD-8-17-0-100-2
17	17-UD-8-17-52-130	UD 8		17		6	57	130	VT	POR				52	130	VT	P			52	130	0	11	11		WR	17-UD-8-17-52-130-3
17	17-UD-8-17-12-156	UD 8		17		7	16	158	VT	TC		0.157		12	156	VT	TS			12	156	4	0	4		WR	17-UD-8-17-12-156-4
17	17-UD-8-17-52-140	UD 8		17		8	37	140	VT	POR				52	140	VT	P			52	140	0	4	4		WR	17-UD-8-17-52-140-5
17	17-UD-8-17-52-146	UD 8		17		9	57	148	VT	POR				52	146	VT	P			52	146	0	4	4		WR	17-UD-8-17-52-146-6
17	17-UD-8-17-46-156	UD 8		17		10	50	158	VT	POR				46	156	VT	P			46	156	4	0	4		WR	17-UD-8-17-46-156-7
17	17-UD-8-17-21-156	UD 8		17					VT	P				21	156	VT	P			21	156	4	0	4		WR	17-UD-8-17-21-156-8
17	17-UD-8-17-32-156	UD 8		17					VT	P				32	156	VT	P			32	156	4	0	4		WR	17-UD-8-17-32-156-9
17	17-UD-8-18-4-157	UD 8		18		1	3	157	VT	POR				4	157	VT	P			4	157	4	0	4		WR	17-UD-8-18-4-157-1
17	17-UD-8-18-14-157	UD 8		18		2	12	157	VT	POR				14	157	VT	P			14	157	4	0	4		WR	17-UD-8-18-14-157-2
17	17-UD-8-18-23-175	UD 8		18		3	23	175	VT	POR				23	175	VT	P			23	175	4	0	4		WR	17-UD-8-18-23-175-3
17	17-UD-8-18-26-85	UD 8		18		5	24	84	VT	POR				26	85	VT	P			26	85	0	4	4		WR	17-UD-8-18-26-85-4
17	17-UD-8-18-30-34	UD 8		18		6	24	34	VT	POR				30	34	VT	P			30	34	0	4	4		WR	17-UD-8-18-30-34-5
17	17-UD-8-18-30-12	UD 8		18		7	24	12	VT	POR				30	12	VT	P			30	12	0	4	4		WR	17-UD-8-18-30-12-6
17	17-UD-8-18-0-0	UD 8		18					VT	P				0	0	VT	P			0	0	0	3	3		WR	17-UD-8-18-0-0-7
17	17-UD-8-19-0-0	UD 8		19		1	9	0	VT	POR				9	0	VT	P			9	0	4	0	4		WR	17-UD-8-19-0-0-1
17	17-UD-8-19-0-2	UD 8		19		2	0	2	VT	POR				0	2	VT	P			0	2	0	2	2		WR	17-UD-8-19-0-2-2
17	17-UD-8-19-58-94	UD 8		19		6	58	95	VT	POR				58	94	VT	P			58	94	0	4	4		WR	17-UD-8-19-58-94-3
17	17-UD-8-19-58-100	UD 8		19		7	58	100	VT	POR				58	100	VT	P			58	100	0	4	4		WR	17-UD-8-19-58-100-4
17	17-UD-8-19-0-157	UD 8		19		8	0	157	VT	POR				0	157	VT	P			0	157	0	3	3		WR	17-UD-8-19-0-157-5
17	17-UD-8-19-8-157	UD 8		19		9	7	157	VT	POR				8	157	VT	P			8	157	4	0	4		WR	17-UD-8-19-8-157-6
17	17-UD-8-19-17-157	UD 8		19		10	16	157	VT	POR				17	157	VT	P			17	157	4	0	4		WR	17-UD-8-19-17-157-7
17	17-UD-8-19-27-157	UD 8		19		11	27	157	VT	POR				27	157	VT	P			27	157	6	0	6		WR	17-UD-8-19-27-157-8
17	17-UD-8-19-36-157	UD 8		19		12	36	157	VT	POR				36	157	VT	P			36	157	4	0	4		WR	17-UD-8-19-36-157-9
17	17-UD-8-19-53-157	UD 8		19		13	54	157	VT	POR				53	157	VT	P			53	157	4	0	4		WR	17-UD-8-19-53-157-10
17	17-UD-8-19-58-157	UD 8		19		14	58	157	VT	POR				58	157	VT	P			58	157	0	3	3		WR	17-UD-8-19-58-157-11
17	17-UD-8-19-55-0	UD 8		19					VT	P				55	0	VT	RI			55	0	4	0	4		WR	17-UD-8-19-55-0-12
17	17-UD-8-20-1-157	UD 8		20		1	0	157	VT	POR				1	157	VT	P			1	157	4	0	4		WR	17-UD-8-20-1-157-1
17	17-UD-8-20-34-157	UD 8		20		2	30-38	157	VT	NW/LF				34	157	VT	LOF			34	157	7	0	7		WR	17-UD-8-20-34-157-2
17	17-UD-8-20-52-148	UD 8		20		4	51	148	VT	H				52	148	VT	RI			52	148	0	4	4		WR	17-UD-8-20-52-148-3
17	17-UD-8-20-51-144	UD 8		20		5	51	144	VT	POR		0.160		51	144	VT	P			51	131	0	24	24		WR	17-UD-8-20-51-131-4
17	17-UD-8-20-45-157	UD 8		20		9	46	157	VT	POR				45	157	VT	P			45	157	3	0	3		WR	17-UD-8-20-45-157-5
17	17-UD-8-20-0-90	UD 8		20		10	0	90	VT	POR				0	90	VT	P			0	90	0	4	4		WR	17-UD-8-20-0-90-6
17	17-UD-8-20-54-107	UD 8		20		11	51	107	VT	POR				54	107	VT	P			54	107	0	6	6		WR	17-UD-8-20-54-107-7
17	17-UD-8-20-54-96	UD 8		20		12	51	96	VT	POR				54	96	VT	P			54	96	0	4	4		WR	17-UD-8-20-54-96-8
17	17-UD-8-20-54-72	UD 8		20		13	51	80	VT	POR				54	72	VT	P			54	72	0	9	9		WR	17-UD-8-20-54-72-9
17	17-UD-8-20-51-9	UD 8		20		15	51	0-20	VT	IF				51	9	VT	IF			51	9	0	18	18		WR	17-UD-8-20-51-9-10
17	17-UD-8-20-0-39	UD 8		20		16	0	15-30	VT	POR/PW				0	39	VT	P			0	28	0	20	20		WR	17-UD-8-20-0-28-11
17	17-UD-8-20-26-0	UD 8		20		18	2-51	0	VT	UC/LF/PW		0.188		26	0	VT	UC			30	0	60	0	60		WR	17-UD-8-20-30-0-12
17	17-UD-8-21-31-5	UD 8		21		1	31	2	VT	POR				31	5	VT	P			31	5	0	9	9		WR	17-UD-8-21-31-5-1
17	17-UD-8-21-0-14	UD 8		21		2	0	24	VT	POR				0	14	VT	P			0	14	0	18	18		WR	17-UD-8-21-0-14-2
17	17-UD-8-21-31-60	UD 8		21		3	31	60	VT	WG				31	60	VT	G			31	60	2	0	2		WR	17-UD-8-21-31-60-3
17	17-UD-8-21-0-71	UD 8		21		4	0	72	VT	POR				0	71	VT	P			0	71	0	9	9		WR	17-UD-8-21-0-71-4

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Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report								EEL Probe Up				Recommended Repairs								Repair Number: May Apply to Multiple Indications		
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	Coordinate X (in)	Coordinate Y (in)	Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Upright (in)	Center of Indication X (in)	Center of Indication Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair X (in)	Center of Repair Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)		Area of PP (sq in)	Repair Type (Patch, Weld, Cap)
17	17-UD-B-21-31-68	UD	B	21	5	31	68	VT	WG			31	68	VT	RI	0.000			31	68	2	0	2		WR	17-UD-B-21-31-68-5
17	17-UD-B-21-25-108	UD	B	21	6	27	108	VT	WG			25	108	VT	P				25	111	0	20	20		WR	17-UD-B-21-25-111-6
17	17-UD-B-21-0-126	UD	B	21	8	0	126	VT	POR			0	126	VT	P				0	126	0	8	8		WR	17-UD-B-21-0-126-7
17	17-UD-B-21-7-157	UD	B	21	9	157	7	VT	POR			7	157	VT	P				7	157	2	0	2		WR	17-UD-B-21-7-157-8
17	17-UD-B-21-22-157	UD	B	21	10	23	157	VT	LF			22	157	VT	LOF				22	157	0	2	2		WR	17-UD-B-21-22-157-9
17	17-UD-B-21-0-138	UD	B	21								0	138	VT	P				0	138	0	4	4		WR	17-UD-B-21-0-138-13
17	17-UD-B-21-0-155	UD	B	21								0	155	VT	P				0	155	2	0	2		WR	17-UD-B-21-0-155-10
17	17-UD-B-21-24-135	UD	B	21								24	135	VT	P				24	135	0	4	4		WR	17-UD-B-21-24-135-14
17	17-UD-B-21-24-156	UD	B	21								24	156	VT	P				24	156	4	0	4		WR	17-UD-B-21-24-156-12
17	17-UD-B-21-6-156	UD	B	21								6	156	VT	P				6	156	12	0	12		WR	17-UD-B-21-6-156-11
17	17-UD-B-22-0-0	UD	B	22	1	0	0	VT	UC		0.100	0	0	VT	UC				0	0	4	0	4		WR	17-UD-B-22-0-0-1
17	17-UD-B-22-0-19	UD	B	22	2	0	19	VT	POR		0.300	26	35	VT	P				26	35	8	8	32	64	PP	17-UD-B-22-0-19-2
17	17-UD-B-22-26-35	UD	B	22	3	26	35	VT	Dent			0	82	VT	P				0	82	0	4	4		WR	17-UD-B-22-0-82-4
17	17-UD-B-22-0-82	UD	B	22	4	0	82	VT	POR			0	82	VT	P				0	82	0	4	4		WR	17-UD-B-22-0-82-5
17	17-UD-B-22-0-85	UD	B	22	5	0	85	VT	POR			0	85	VT	P				0	85	0	4	4		WR	17-UD-B-22-0-113-7
17	17-UD-B-22-0-113	UD	B	22	7	0	113	VT	POR			0	113	VT	P				0	113	0	4	4		WR	17-UD-B-22-0-113-7
17	17-UD-B-22-0-135	UD	B	22	8	0	135	VT	POR			0	135	VT	P				0	135	0	4	4		WR	17-UD-B-22-0-135-8
17	17-UD-B-22-0-143	UD	B	22	9	0	143	VT	POR			0	143	VT	P				0	143	0	4	4		WR	17-UD-B-22-0-143-9
17	17-UD-B-22-0-157	UD	B	22	10	0	157	VT	LF			0	157	VT	LOF				0	157	0	1	1		WR	17-UD-B-22-0-157-10
17	17-UD-B-22-13-157	UD	B	22	11	13	157	VT	POR			13	157	VT	P				13	157	4	0	4		WR	17-UD-B-22-13-157-11
17	17-UD-B-22-34-157	UD	B	22	12	34	157	VT	POR			34	157	VT	P				34	157	4	0	4		WR	17-UD-B-22-34-157-12
17	17-UD-B-22-57-157	UD	B	22	14	57	157	VT	LF/POR			57	157	VT	LOF				57	157	4	0	4		WR	17-UD-B-22-57-157-13
17	17-UD-B-22-57-116	UD	B	22	15	57	110	VT	POR			57	116	VT	P				57	116	0	4	4		WR	17-UD-B-22-57-116-14
17	17-UD-B-22-57-101	UD	B	22	16	57	105	VT	POR			57	101	VT	P				57	101	0	4	4		WR	17-UD-B-22-57-101-15
17	17-UD-B-22-57-2	UD	B	22	19	57	0	VT	POR			57	2	VT	P				57	2	0	4	4		WR	17-UD-B-22-57-2-16
17	17-UD-B-22-0-142	UD	B	22								0	142	VT	P				0	142	0	4	4		WR	17-UD-B-22-0-142-19
17	17-UD-B-22-0-60	UD	B	22								0	60	VT	P				0	60	0	4	4		WR	17-UD-B-22-0-60-18
17	17-UD-B-22-16-52	UD	B	22								16	52	VT	G				16	52	2	0	2		WR	17-UD-B-22-16-52-17
17	17-UD-B-22-31-157	UD	B	22								31	157	VT	LOF				31	157	6	0	6		WR	17-UD-B-22-31-157-21
17	17-UD-B-22-48-0	UD	B	22								48	0	VT	P				48	0	4	0	4		WR	17-UD-B-22-48-0-20
17	17-UD-B-23-0-157	UD	B	23	1	14	157	VT	POR			20	157	VT	P				20	157	16	0	16		WR	17-UD-B-23-0-157-1
17	17-UD-B-23-0-134	UD	B	23	2	0	134	VT	POR			0	134	VT	P				0	134	0	6	6		WR	17-UD-B-23-0-134-2
17	17-UD-B-23-19-100	UD	B	23	3	19	100	VT	POR			19	100	VT	P				19	100	4	0	4		WR	17-UD-B-23-19-100-3
17	17-UD-B-23-52-118	UD	B	23	4	52	118	VT	POR			52	118	VT	P				52	118	4	0	4		WR	17-UD-B-23-52-118-4
17	17-UD-B-23-0-75	UD	B	23	6	0	75	VT	POR			0	75	VT	P				0	75	0	8	8		WR	17-UD-B-23-0-67-5
17	17-UD-B-23-53-72	UD	B	23	8	53	72	VT	POR			53	72	VT	P				53	72	4	0	4		WR	17-UD-B-23-53-72-6
17	17-UD-B-23-56-40	UD	B	23	9	53	38.45	VT	POR			56	40	VT	P				56	40	0	12	12		WR	17-UD-B-23-56-40-7
17	17-UD-B-23-56-14	UD	B	23	10	56	12	VT	POR			56	14	VT	P				56	14	0	4	4		WR	17-UD-B-23-56-14-8
17	17-UD-B-23-56-0	UD	B	23	11	56	0	VT	POR			56	0	VT	P				56	0	0	4	4		WR	17-UD-B-23-56-0-9
17	17-UD-B-23-0-157	UD	B	23								0	157	VT	LOF				0	157	4	0	4		WR	17-UD-B-23-0-157-10
17	17-UD-B-23-43-157	UD	B	23								43	157	VT	P				43	157	4	0	4		WR	17-UD-B-23-43-157-12
17	17-UD-B-23-51-157	UD	B	23								51	157	VT	LOF				51	157	0	4	4		WR	17-UD-B-23-51-157-13
17	17-UD-B-23-52-157	UD	B	23								52	157	VT	RI				52	157	0	2	2		WR	17-UD-B-23-52-157-14
17	17-UD-B-23-56-3	UD	B	23								56	3	VT	RI				56	3	4	0	4		WR	17-UD-B-23-56-3-15
17	17-UD-B-23-8-157	UD	B	23								8	157	VT	RI				8	157	0	2	2		WR	17-UD-B-23-8-157-11
17	17-UD-B-24-0-10	UD	B	24	1	0	10	VT	POR			0	10	VT	P				0	10	0	4	4		WR	17-UD-B-24-0-10-1
17	17-UD-B-24-0-23	UD	B	24	3	0	23	VT	POR			0	23	VT	P				0	23	0	4	4		WR	17-UD-B-24-0-23-2
17	17-UD-B-24-31-0	UD	B	24	4	29	0	VT	POR			31	0	VT	P				31	0	4	0	4		WR	17-UD-B-24-31-0-3
17	17-UD-B-24-30-20	UD	B	24	5	7	20	VT	POR			30	20	VT	P				30	20	0	4	4		WR	17-UD-B-24-30-20-4
17	17-UD-B-24-28-54	UD	B	24	6	29	54	VT	POR			28	54	VT	P				28	54	0	6	6		WR	17-UD-B-24-28-54-5
17	17-UD-B-24-0-68	UD	B	24	7	0	64	VT	POR			0	68	VT	P				0	68	0	8	8		WR	17-UD-B-24-0-68-6
17	17-UD-B-24-29-82	UD	B	24	8	29	78.87	VT	LF/POR			29	82	VT	LOF				29	82	6	9	15		WR	17-UD-B-24-29-82-7
17	17-UD-B-24-0-101	UD	B	24								0	101	VT	P				0	101	3	0	3		WR	17-UD-B-24-0-101-10
17	17-UD-B-24-0-105	UD	B	24								0	105	VT	P				0	105	0	4	4		WR	17-UD-B-24-0-105-11
17	17-UD-B-24-0-118	UD	B	24								0	118	VT	P				0	118	3	0	3		WR	17-UD-B-24-0-118-12
17	17-UD-B-24-0-125	UD	B	24								0	125	VT	P				0	125	0	6	6		WR	17-UD-B-24-0-125-14

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report							EEL Probe Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications			
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID	X Coordinate (in)	Y Coordinate (in)	Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift (in)	Center of Indication X (in)	Center of Indication Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair X (in)	Center of Repair Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)		Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	
17	17-UD-8-24-0-142	UD	B	24									0	142	VT	RI			0	142	0	30	30			WR	17-UD-8-24-0-142-15
17	17-UD-8-24-0-157	UD	B	24									0	157	VT	RI	0.000		0	157	2	0	2			WR	17-UD-8-24-0-157-16
17	17-UD-8-24-0-157	UD	B	24									0	157	VT	LOF			0	157	0	9	9			WR	17-UD-8-24-0-157-17
17	17-UD-8-24-26-116	UD	B	24									26	116	VT	G			26	116	2	0	2			WR	17-UD-8-24-26-116-13
17	17-UD-8-24-26-98	UD	B	24									26	98	VT	P			26	98	0	4	4			WR	17-UD-8-24-26-98-9
17	17-UD-8-24-27-72	UD	B	24									27	72	VT	LIN			27	72	0	6	6			WR	17-UD-8-24-27-72-8
17	17-UD-8-24-29-156	UD	B	24									29	156	VT	P			29	156	10	0	10			WR	17-UD-8-24-29-156-18
17	17-UD-8-25-0-8	UD	B	25	1	0	8	VT	POR				0	8	VT	P			0	8	0	4	4			WR	17-UD-8-25-0-8-1
17	17-UD-8-25-0-20	UD	B	25	2	0	21	VT	POR				0	20	VT	P			0	20	0	6	6			WR	17-UD-8-25-0-20-2
17	17-UD-8-25-29-0	UD	B	25	3	29	0	VT	POR				29	0	VT	P			29	0	4	0	4			WR	17-UD-8-25-29-0-3
17	17-UD-8-25-32-17	UD	B	25	4	32	16	VT	Dent	0.188			32	17	VT	D			32	17	8	8	32	64		PP	17-UD-8-25-32-17-4
17	17-UD-8-25-16-67	UD	B	25	5	15	62	VT	Gouge	0.190			16	67	VT	G			16	67	2	0	2			WR	17-UD-8-25-16-67-5
17	17-UD-8-25-0-72	UD	B	25	6	0	73	VT	POR				0	72	VT	P			0	72	0	15	15			WR	17-UD-8-25-0-72-6
17	17-UD-8-25-43-156	UD	B	25	7	15	68	VT	POR				43	156	VT	P			43	156	4	0	4			WR	17-UD-8-25-43-156-7
17	17-UD-8-25-59-151	UD	B	25	8	56	151	VT	POR				59	151	VT	LOF			59	151	0	3	3			WR	17-UD-8-25-59-151-8
17	17-UD-8-25-58-140	UD	B	25	9	56	142	VT	POR				58	140	VT	P			58	140	0	4	4			WR	17-UD-8-25-58-140-9
17	17-UD-8-25-50-97	UD	B	25	11	50	97	VT	POR				50	97	VT	RI			50	97	8	0	8			WR	17-UD-8-25-50-97-10
17	17-UD-8-25-56-99	UD	B	25	12	56	99	VT	POR				56	99	VT	P			56	105	0	42	42			WR	17-UD-8-25-56-105-12
17	17-UD-8-25-58-35	UD	B	25	15	56	48	VT	POR				58	35	VT	P			58	35	0	4	4			WR	17-UD-8-25-58-35-11
17	17-UD-8-25-58-28	UD	B	25	16	56	28	VT	POR				58	28	VT	P			58	28	0	4	4			WR	17-UD-8-25-58-28-25
17	17-UD-8-25-58-10	UD	B	25	17	56	12	VT	POR				58	10	VT	P			58	10	0	6	6			WR	17-UD-8-25-58-10-13
17	17-UD-8-25-58-0	UD	B	25	18	56	0	VT	POR				58	0	VT	P			58	0	0	2	2			WR	17-UD-8-25-58-0-14
17	17-UD-8-25-0-48	UD	B	25									0	48	VT	LOF			0	48	0	4	4			WR	17-UD-8-25-0-48-16
17	17-UD-8-25-0-82	UD	B	25									0	82	VT	RI			0	82	0	9	9			WR	17-UD-8-25-0-82-23
17	17-UD-8-25-16-67	UD	B	25									16	67	VT	G	0.000		16	67	2	0	2			WR	17-UD-8-25-16-67-24
17	17-UD-8-25-18-157	UD	B	25									18	157	VT	RI			18	157	2	0	2			WR	17-UD-8-25-18-157-18
17	17-UD-8-25-50-98	UD	B	25									50	98	VT	P			50	98	0	4	4			WR	17-UD-8-25-50-98-21
17	17-UD-8-25-58-101	UD	B	25									58	101	VT	P			58	101	0	4	4			WR	17-UD-8-25-58-101-20
17	17-UD-8-25-58-123	UD	B	25									58	123	VT	P			58	123	0	4	4			WR	17-UD-8-25-58-123-19
17	17-UD-8-25-58-49	UD	B	25									58	49	VT	P			58	49	0	4	4			WR	17-UD-8-25-58-49-17
17	17-UD-8-25-58-72	UD	B	25									58	72	VT	P			58	72	0	15	15			WR	17-UD-8-25-58-72-15
17	17-UD-8-25-58-90	UD	B	25									58	90	VT	P			58	90	0	10	10			WR	17-UD-8-25-58-90-22
17	17-UD-8-26-20-156	UD	B	26	1	18	156	VT	POR				20	156	VT	P			20	156	12	0	12			WR	17-UD-8-26-20-156-1
17	17-UD-8-26-42-156	UD	B	26	2	42	156	VT	POR				42	156	VT	P			42	156	6	0	6			WR	17-UD-8-26-42-156-2
17	17-UD-8-26-0-120	UD	B	26	3	0	110-118	VT	POR				0	120	VT	P			0	120	0	21	21			WR	17-UD-8-26-0-120-3
17	17-UD-8-26-0-15	UD	B	26	5	0	15	VT	POR				0	15	VT	P			0	15	0	6	6			WR	17-UD-8-26-0-15-4
17	17-UD-8-26-59-0	UD	B	26	6	57	0	VT	POR-IF				59	0	VT	P			59	0	4	0	4			WR	17-UD-8-26-59-0-5
17	17-UD-8-26-56-40	UD	B	26	7	57	38	VT	POR				56	40	VT	P			56	40	0	6	6			WR	17-UD-8-26-56-40-6
17	17-UD-8-26-0-62	UD	B	26	8	0	60	VT	PORX2				0	62	VT	P			0	62	0	6	6			WR	17-UD-8-26-0-62-7
17	17-UD-8-26-52-120	UD	B	26	9	49	118-122	VT	PORX7				52	120	VT	P			52	120	0	12	12			WR	17-UD-8-26-52-120-8
17	17-UD-8-26-0-130	UD	B	26	10	0	130	VT	POR				0	130	VT	P			0	130	0	4	4			WR	17-UD-8-26-0-130-9
17	17-UD-8-26-51-157	UD	B	26	11	49	157	VT	UC/POR	0.090			51	157	VT	UC			51	157	0	4	4			WR	17-UD-8-26-51-157-10
17	17-UD-8-26-0-0	UD	B	26									0	0	VT	RI			0	0	0	2	2			WR	17-UD-8-26-0-0-11
17	17-UD-8-26-0-144	UD	B	26									0	144	VT	P			0	144	0	6	6			WR	17-UD-8-26-0-144-19
17	17-UD-8-26-0-156	UD	B	26									0	156	VT	LOF			0	156	0	3	3			WR	17-UD-8-26-0-156-18
17	17-UD-8-26-0-43	UD	B	26									0	43	VT	P			0	43	0	8	8			WR	17-UD-8-26-0-43-14
17	17-UD-8-26-2-0	UD	B	26									2	0	VT	P			2	0	0	3	3			WR	17-UD-8-26-2-0-12
17	17-UD-8-26-24-75	UD	B	26									24	75	VT	D			24	75	6	0	19	28		PP	17-UD-8-26-24-75-16
17	17-UD-8-26-29-4	UD	B	26									29	4	VT	D			29	4	6	0	19	28		PP	17-UD-8-26-29-4-13
17	17-UD-8-26-3-100	UD	B	26									3	100	VT	D			3	100	6	6	24	36		TSPP	17-UD-8-26-3-100-17
17	17-UD-8-26-34-156	UD	B	26									34	156	VT	LOF			34	156	4	0	4			WR	17-UD-8-26-34-156-21
17	17-UD-8-26-5-156	UD	B	26									5	156	VT	LOF			5	156	4	0	4			WR	17-UD-8-26-5-156-20
17	17-UD-8-26-55-64	UD	B	26									55	64	VT	P			55	64	0	9	9			WR	17-UD-8-26-55-64-15
17	17-UD-8-27-0-38	UD	B	27	1	0	36	VT	POR				0	38	VT	P			0	38	0	7	7			WR	17-UD-8-27-0-38-1
17	17-UD-8-27-0-58	UD	B	27	2	0	60	VT	POR				0	58	VT	P			0	58	0	14	14			WR	17-UD-8-27-0-58-2
17	17-UD-8-27-0-72	UD	B	27	3	0	72	VT	POR				0	72	VT	P			0	72	0	4	4			WR	17-UD-8-27-0-72-3

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report								EEL Prove Up						Recommended Repairs						Repair Number: May Apply to Multiple Indications		
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside Indication(in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)		Repair Type (Patch, Weld, Cap)	
17	17-UD-B-27-26-69	UD	B	27	4	26	69	VT	POR			26	69	VT	P			26	69	0	4	4		WR	17-UD-B-27-26-69-4	
17	17-UD-B-27-0-125	UD	B	27	5	0	125	VT	POR			0	125	VT	P			0	125	3	0	3		WR	17-UD-B-27-0-125-5	
17	17-UD-B-27-22-157	UD	B	27	6	26	157	VT	POR			22	157	VT	P			22	157	8	0	8		WR	17-UD-B-27-22-157-6	
17	17-UD-B-27-0-0	UD	B	27								0	0	VT	RI	0.000		0	0	4	0	4		WR	17-UD-B-27-0-0-13	
17	17-UD-B-27-0-3	UD	B	27								0	3	VT	RI	0.000		0	3	4	0	4		WR	17-UD-B-27-0-3-14	
17	17-UD-B-27-24-118	UD	B	27								24	118	VT	P			24	118	0	4	4		WR	17-UD-B-27-24-118-8	
17	17-UD-B-27-24-157	UD	B	27								24	157	VT	RI			24	157	0	2	2		WR	17-UD-B-27-24-157-7	
17	17-UD-B-27-26-53	UD	B	27								26	53	VT	P			26	53	0	11	11		WR	17-UD-B-27-26-53-11	
17	17-UD-B-27-26-84	UD	B	27								26	84	VT	UC			26	84	4	0	4		WR	17-UD-B-27-26-84-10	
17	17-UD-B-27-26-84	UD	B	27								26	84	VT	P			26	84	0	4	4		WR	17-UD-B-27-26-84-9	
17	17-UD-B-27-29-44	UD	B	27								29	44	VT	RI	0.000		29	44	2	0	2		WR	17-UD-B-27-29-44-12	
17	17-UD-B-28-0-15	UD	B	28	1	0	15	VT	POR			0	15	VT	P			0	15	0	4	4		WR	17-UD-B-28-0-15-1	
17	17-UD-B-28-0-52	UD	B	28	2	0	52	VT	POR			0	52	VT	P			0	52	0	4	4		WR	17-UD-B-28-0-52-2	
17	17-UD-B-28-0-68	UD	B	28	3	0	68	VT	POR			0	68	VT	P			0	68	0	4	4		WR	17-UD-B-28-0-68-3	
17	17-UD-B-28-0-76	UD	B	28	4	0	75	VT	POR			0	76	VT	P			0	76	0	4	4		WR	17-UD-B-28-0-76-4	
17	17-UD-B-28-0-84	UD	B	28	5	0	84	VT	POR			0	84	VT	G			0	84	4	4	8		WR	17-UD-B-28-0-84-5	
17	17-UD-B-28-0-89	UD	B	28	6	0	90	VT	POR			0	89	VT	P			0	89	0	12	12		WR	17-UD-B-28-0-89-6	
17	17-UD-B-28-0-104	UD	B	28	7	0	106	VT	POR			0	104	VT	P			0	104	0	4	4		WR	17-UD-B-28-0-104-7	
17	17-UD-B-28-0-120	UD	B	28	8	0	120	VT	POR			0	120	VT	P			0	134	0	38	38		WR	17-UD-B-28-0-134-8	
17	17-UD-B-28-6-157	UD	B	28	12	6	157	VT	POR			6	157	VT	LOF			30	157	60	0	60		WR	17-UD-B-28-30-157-9	
17	17-UD-B-28-57-133	UD	B	28	14	57	132	VT	POR			57	133	VT	P			57	133	0	15	15		WR	17-UD-B-28-57-133-10	
17	17-UD-B-28-57-123	UD	B	28	15	57	120	VT	POR			57	123	VT	P			57	123	0	10	10		WR	17-UD-B-28-57-123-11	
17	17-UD-B-28-57-114	UD	B	28	17	57	115	VT	POR			57	114	VT	P			57	114	0	4	4		WR	17-UD-B-28-57-114-12	
17	17-UD-B-28-57-103	UD	B	28	18	57	103	VT	POR			57	103	VT	P			57	103	0	4	4		WR	17-UD-B-28-57-103-13	
17	17-UD-B-28-57-96	UD	B	28	19	57	97	VT	POR			57	96	VT	P			57	96	0	5	5		WR	17-UD-B-28-57-96-14	
17	17-UD-B-28-57-84	UD	B	28	20	57	84	VT	POR			57	84	VT	LOF			57	84	4	4	8		WR	17-UD-B-28-57-84-15	
17	17-UD-B-28-57-49	UD	B	28	22	57	49	VT	POR			57	49	VT	P			57	49	0	4	4		WR	17-UD-B-28-57-49-16	
17	17-UD-B-28-57-24	UD	B	28	23	57	24	VT	POR			57	24	VT	P			57	24	0	4	4		WR	17-UD-B-28-57-24-17	
17	17-UD-B-28-42-12	UD	B	28	26	42	12	VT	TC	0.157		42	12	VT	RI			42	12	2	0	2		WR	17-UD-B-28-42-12-18	
17	17-UD-B-28-0-157	UD	B	28								0	157	VT	RI			0	157	0	1	1		WR	17-UD-B-28-0-157-23	
17	17-UD-B-28-0-80	UD	B	28								0	80	VT	P			0	80	0	4	4		WR	17-UD-B-28-0-80-28	
17	17-UD-B-28-23-0	UD	B	28								23	0	VT	RI			23	0	3	6	9		WR	17-UD-B-28-23-0-20	
17	17-UD-B-28-32-108	UD	B	28								32	108	VT	P			32	108	0	4	4		WR	17-UD-B-28-32-108-22	
17	17-UD-B-28-35-4	UD	B	28								35	4	VT	LOF			35	4	4	0	4		WR	17-UD-B-28-35-4-19	
17	17-UD-B-28-58-34	UD	B	28								58	34	VT	P			58	34	0	4	4		WR	17-UD-B-28-58-34-26	
17	17-UD-B-28-58-40	UD	B	28								58	40	VT	P			58	40	0	4	4		WR	17-UD-B-28-58-40-27	
17	17-UD-B-28-59-4	UD	B	28								59	4	VT	LOF			59	4	3	7	10		WR	17-UD-B-28-59-4-21	
17	17-UD-B-28-60-157	UD	B	28								60	157	VT	LOF			60	157	6	0	6		WR	17-UD-B-28-60-157-25	
17	17-UD-B-29-0-157	UD	B	29	1	0	157	VT	POR			0	157	VT	P			25	156	51	0	51		WR	17-UD-B-29-25-156-1	
17	17-UD-B-29-22-140	UD	B	29	5	22	140	VT	Gouge			22	140	VT	G			22	140	6	0	19	28		PP	17-UD-B-29-22-140-2
17	17-UD-B-29-0-106	UD	B	29	6	0	106	VT	POR			0	106	VT	P			0	96	0	32	32		WR	17-UD-B-29-0-96-3	
17	17-UD-B-29-0-69	UD	B	29	9	0	69	VT	POR			0	69	VT	P			0	69	0	4	4		WR	17-UD-B-29-0-69-4	
17	17-UD-B-29-0-57	UD	B	29	10	0	58	VT	POR			0	57	VT	P			0	57	0	4	4		WR	17-UD-B-29-0-57-5	
17	17-UD-B-29-0-38	UD	B	29	11	0	38	VT	POR			0	38	VT	P			0	29	0	23	23		WR	17-UD-B-29-0-29-6	
17	17-UD-B-29-58-6	UD	B	29	13	58	0	VT	UC/POR	0.900		58	6	VT	UC			58	6	6	12	18		WR	17-UD-B-29-58-6-7	
17	17-UD-B-29-58-97	UD	B	29	14	58	84-95	VT	PORXC			58	97	VT	P			58	97	0	32	32		WR	17-UD-B-29-58-97-8	
17	17-UD-B-29-34-120	UD	B	29	16	34	120	VT	LF/POR			34	120	VT	LOF			34	120	0	24	24		WR	17-UD-B-29-34-120-9	
17	17-UD-B-29-52-126	UD	B	29	17	58	123	VT	POR			52	126	VT	RI	0.000		52	126	0	15	15		WR	17-UD-B-29-52-126-10	
17	17-UD-B-29-52-133	UD	B	29	18	29	133	VT	POR			52	133	VT	P			52	144	9	24	33		WR	17-UD-B-29-52-144-11	
17	17-UD-B-29-23-120	UD	B	29	22	23	120	VT	TC	0.110		23	120	VT	D			23	120	6	0	19	28		PP	17-UD-B-29-23-120-12
17	17-UD-B-29-0-0	UD	B	29								0	0	VT	RI			0	0	6	7	13		WR	17-UD-B-29-0-0-13	
17	17-UD-B-29-0-126	UD	B	29								0	126	VT	RI			0	126	0	13	13		WR	17-UD-B-29-0-126-25	
17	17-UD-B-29-0-139	UD	B	29								0	139	VT	RI			0	139	0	4	4		WR	17-UD-B-29-0-139-18	
17	17-UD-B-29-0-156	UD	B	29								0	156	VT	RI			0	156	8	0	8		WR	17-UD-B-29-0-156-19	
17	17-UD-B-29-16-112	UD	B	29								16	112	VT	RI			16	112	2	0	2		WR	17-UD-B-29-16-112-15	

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Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report							EEL Probe Up						Recommended Repairs						Repair Number; May Apply to Multiple Indications		
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift Topside (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)		Repair Type (Patch, Weld, Cap)	
17	17-UD-8-32-57-145	UD	B	32	14	57	144	VT	POR			57	145	VT	P	P			57	145	0	7	7		WR	17-UD-8-32-57-145-12
17	17-UD-8-32-15-157	UD	B	32								15	157	VT	RI	RI			15	157	4	0	4		WR	17-UD-8-32-15-157-13
17	17-UD-8-32-51-134	UD	B	32								51	134	VT	P	P			51	134	0	4	4		WR	17-UD-8-32-51-134-14
17	17-UD-8-32-56-35	UD	B	32								56	35	VT	P	P			56	35	0	4	4		WR	17-UD-8-32-56-35-15
17	17-UD-8-33-24-133	UD	B	33	2	23	132	VT	POR			24	133	VT	P	P			24	133	0	4	4		WR	17-UD-8-33-24-133-1
17	17-UD-8-33-0-99	UD	B	33	3	0	99	VT	POR			0	99	VT	P	P			0	99	0	4	4		WR	17-UD-8-33-0-99-2
17	17-UD-8-33-28-50	UD	B	33	4	23	50	VT	POR			28	50	VT	P	P			28	50	0	4	4		WR	17-UD-8-33-28-50-3
17	17-UD-8-33-11-0	UD	B	33	6	0	6-18	VT	UC	0.094		11	0	VT	UC	UC			11	0	15	0	15		WR	17-UD-8-33-11-0-4
17	17-UD-8-33-0-42	UD	B	33								0	42	VT	P	P			0	42	0	4	4		WR	17-UD-8-33-0-42-8
17	17-UD-8-33-0-8	UD	B	33								0	8	VT	P	P			0	8	0	6	6		WR	17-UD-8-33-0-8-5
17	17-UD-8-33-13-126	UD	B	33								13	126	VT	D	D			13	126	6	0	19	28	PP	17-UD-8-33-13-126-9
17	17-UD-8-33-29-29	UD	B	33								29	29	VT	P	P			29	29	0	4	4		WR	17-UD-8-33-29-29-7
17	17-UD-8-33-33-0	UD	B	33								33	0	VT	LOF	LOF			33	0	11	8	19		WR	17-UD-8-33-33-0-6
17	17-UD-8-34-24-157	UD	B	34	1	24	157	VT	POR			24	157	VT	LOF	LOF			24	157	6	0	6		WR	17-UD-8-34-24-157-1
17	17-UD-8-34-0-132	UD	B	34	2	0	132	VT	POR			0	132	VT	P	P			0	132	0	4	4		WR	17-UD-8-34-0-132-2
17	17-UD-8-34-0-72	UD	B	34	3	0	70	VT	POR			0	72	VT	P	P			0	72	0	8	8		WR	17-UD-8-34-0-72-3
17	17-UD-8-34-0-3	UD	B	34	4	0	3	VT	POR			0	3	VT	LOF	LOF			0	3	0	3	0		WR	17-UD-8-34-0-3-4
17	17-UD-8-34-39-0	UD	B	34	5	36	0	VT	POR			39	0	VT	UC	UC			39	0	14	0	14		WR	17-UD-8-34-39-0-5
17	17-UD-8-34-59-0	UD	B	34	6	56	2	VT	POR			59	0	VT	RI	RI			59	0	3	3	6		WR	17-UD-8-34-59-0-6
17	17-UD-8-34-57-80	UD	B	34	7	57	82	VT	POR			57	80	VT	P	P			57	80	0	7	7		WR	17-UD-8-34-57-80-7
17	17-UD-8-34-19-15	UD	B	34								19	15	VT	D	D			19	15	6	0	19	28	PP	17-UD-8-34-19-15-10
17	17-UD-8-34-58-68	UD	B	34								58	68	VT	RI	RI			58	68	3	0	3		WR	17-UD-8-34-58-68-8
17	17-UD-8-34-59-55	UD	B	34								59	55	VT	LOF	LOF			59	55	0	20	20		WR	17-UD-8-34-59-55-9
17	17-UD-8-35-0-11	UD	B	35	1	0	11	VT	POR			0	11	VT	P	P			0	11	0	30	30		WR	17-UD-8-35-0-11-1
17	17-UD-8-35-0-55	UD	B	35	4	0	52-60	VT	POR/WG	0.090		0	55	VT	P	P			0	55	0	15	15		WR	17-UD-8-35-0-55-2
17	17-UD-8-35-0-103	UD	B	35	5	0	103	VT	POR			0	103	VT	P	P			0	103	0	8	8		WR	17-UD-8-35-0-103-3
17	17-UD-8-35-56-50	UD	B	35	6	56	50	VT	POR			56	50	VT	P	P			56	50	0	6	6		WR	17-UD-8-35-56-50-4
17	17-UD-8-35-0-1	UD	B	35								0	1	VT	RI	RI			0	1	3	2	5		WR	17-UD-8-35-0-1-11
17	17-UD-8-35-0-72	UD	B	35								0	72	VT	P	P			0	72	0	9	9		WR	17-UD-8-35-0-72-9
17	17-UD-8-35-0-92	UD	B	35								0	92	VT	P	P			0	92	0	4	4		WR	17-UD-8-35-0-92-8
17	17-UD-8-35-19-156	UD	B	35								19	156	VT	UC	UC			19	156	4	0	4		WR	17-UD-8-35-19-156-5
17	17-UD-8-35-51-156	UD	B	35								51	156	VT	LOF	LOF			51	156	3	0	3		WR	17-UD-8-35-51-156-6
17	17-UD-8-35-52-151	UD	B	35								52	151	VT	IF	IF			52	151	3	0	3		WR	17-UD-8-35-52-151-7
17	17-UD-8-35-54-84	UD	B	35								54	84	VT	P	P			54	84	0	6	6		WR	17-UD-8-35-54-84-10
17	17-UD-8-36-2-157	UD	B	36	1	0	157	VT	POR			2	157	VT	P	P			2	157	5	0	5		WR	17-UD-8-36-2-157-1
17	17-UD-8-36-22-157	UD	B	36	2	23	157	VT	POR			22	157	VT	P	P			22	157	5	0	5		WR	17-UD-8-36-22-157-2
17	17-UD-8-36-26-92	UD	B	36	3	92	92	VT	POR			26	92	VT	P	P			26	92	0	7	7		WR	17-UD-8-36-26-92-3
17	17-UD-8-36-0-91	UD	B	36	4	0	91	VT	POR			0	91	VT	P	P			0	91	0	7	7		WR	17-UD-8-36-0-91-4
17	17-UD-8-36-23-62	UD	B	36	6	23	61	VT	POR			23	62	VT	P	P			23	62	0	8	8		WR	17-UD-8-36-23-62-5
17	17-UD-8-36-14-60	UD	B	36	7	14	60	VT	TC	0.100		14	60	VT	RI	RI			14	60	0	2	2		WR	17-UD-8-36-14-60-6
17	17-UD-8-36-8-48	UD	B	36	8	9	48	VT	Dent	0.130		8	48	VT	D	D			8	48	8	8	32	64	PP	17-UD-8-36-8-48-7
17	17-UD-8-36-0-31	UD	B	36	9	0	34	VT	POR			0	31	VT	P	P			0	31	0	4	4		WR	17-UD-8-36-0-31-8
17	17-UD-8-36-0-22	UD	B	36	10	0	24	VT	POR			0	22	VT	P	P			0	22	0	6	6		WR	17-UD-8-36-0-22-9
17	17-UD-8-36-32-3	UD	B	36	11	36	0	VT	POR			32	3	VT	P	P			32	3	0	6	6		WR	17-UD-8-36-32-3-10
17	17-UD-8-36-24-0	UD	B	36	12	36	0	VT	POR			24	0	VT	RI	RI			24	0	0	2	2		WR	17-UD-8-36-24-0-11
17	17-UD-8-36-0-6	UD	B	36	13	0	6	VT	POR			0	6	VT	P	P			0	6	0	10	10		WR	17-UD-8-36-0-6-12
17	17-UD-8-36-0-153	UD	B	36								0	153	VT	P	P			0	153	0	6	6		WR	17-UD-8-36-0-153-14
17	17-UD-8-36-10-156	UD	B	36								10	156	VT	LOF	LOF			10	156	5	0	5		WR	17-UD-8-36-10-156-15
17	17-UD-8-36-26-80	UD	B	36								26	80	VT	RI	RI			26	80	0	2	2		WR	17-UD-8-36-26-80-13
17	17-UD-8-37-0-134	UD	B	37	1	0	138	VT	POR			0	134	VT	P	P			0	134	0	4	4		WR	17-UD-8-37-0-134-1
17	17-UD-8-37-0-112	UD	B	37	2	0	118	VT	POR			0	112	VT	P	P			0	112	0	10	10		WR	17-UD-8-37-0-112-2
17	17-UD-8-37-0-91	UD	B	37	3	0	96	VT	POR			0	91	VT	P	P			0	91	0	20	20		WR	17-UD-8-37-0-91-3
17	17-UD-8-37-0-76	UD	B	37	4	0	81	VT	POR			0	76	VT	P	P			0	76	0	11	11		WR	17-UD-8-37-0-76-4
17	17-UD-8-37-25-0	UD	B	37	5	8-40	0	VT	UC	0.100		25	0	VT	UC	UC			25	0	45	0	45		WR	17-UD-8-37-25-0-5
17	17-UD-8-37-14-62	UD	B	37	8	14	60	VT	TC			14	62	VT	TS	TS			14	62	0	2	2		WR	17-UD-8-37-14-62-6
17	17-UD-8-37-57-100	UD	B	37	10	57	40	VT	POR			57	100	VT	P	P			57	100	0	39	39		WR	17-UD-8-37-57-100-7

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report								EEL Probe Up						Recommended Repairs						Repair Number: May Apply to Multiple Indications		
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Upright Indication (in)	Center of Indication X (in)	Center of Indication Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair X (in)	Center of Repair Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)			
17	17-UD-8-37-57-128	UD	B	37	11	57	130	VT	POR					57	128	VT	P			57	128	0	9	9		WR	17-UD-8-37-57-128-8
17	17-UD-8-37-0-67	UD	B	37										0	67	VT	P			0	67	0	4	4		WR	17-UD-8-37-0-67-12
17	17-UD-8-37-35-156	UD	B	37										35	156	VT	P			35	156	36	0	36		WR	17-UD-8-37-35-156-9
17	17-UD-8-37-36-31	UD	B	37										36	31	VT	UC			36	31	0	2	2		WR	17-UD-8-37-36-31-13
17	17-UD-8-37-58-144	UD	B	37										58	144	VT	P			58	144	0	8	8		WR	17-UD-8-37-58-144-11
17	17-UD-8-37-59-156	UD	B	37										59	156	VT	LOF			59	156	11	3	14		WR	17-UD-8-37-59-156-10
17	17-UD-8-37-60-0	UD	B	37										60	0	VT	LOF			60	0	8	6	14		WR	17-UD-8-37-60-0-14
17	17-UD-8-38-37-153	UD	B	38	1	37	153	VT	POR	0.125				37	153	VT	RI			26	156	40	0	40		WR	17-UD-8-38-26-156-1
17	17-UD-8-38-1-140	UD	B	38	10	1	140	VT	POR	0.063				1	140	VT	P			1	140	0	5	5		WR	17-UD-8-38-1-140-2
17	17-UD-8-38-1-67	UD	B	38	11	1	67	VT	POR	0.125				1	67	VT	P			0	80	0	32	32		WR	17-UD-8-38-0-80-3
17	17-UD-8-38-2-1	UD	B	38	14	2	1	VT	POR	0.063				2	1	VT	P			30	0	50	0	50		WR	17-UD-8-38-30-0-4
17	17-UD-8-38-0-120	UD	B	38										0	120	VT	RI			0	120	0	7	7		WR	17-UD-8-38-0-120-5
17	17-UD-8-38-57-35	UD	B	38										57	35	VT	RI			57	35	0	1	1		WR	17-UD-8-38-57-35-7
17	17-UD-8-38-9-100	UD	B	38										9	100	VT	RI			9	100	2	0	2		WR	17-UD-8-38-9-100-6
17	17-UD-8-39-32-2	UD	B	39	1	33	2	VT	POR					33	2	VT	P			32	3	0	6	6		WR	17-UD-8-39-32-3-1
17	17-UD-8-39-32-19	UD	B	39	3	32	19	VT	POR					32	19	VT	P			32	19	0	8	8		WR	17-UD-8-39-32-19-2
17	17-UD-8-39-1-3	UD	B	39	5	1	3	VT	POR					1	3	VT	P			1	3	0	3	3		WR	17-UD-8-39-1-3-9
17	17-UD-8-39-7-15	UD	B	39	6	7	15	VT	TC	0.090				7	15	VT	TS			7	15	0	6	6		WR	17-UD-8-39-7-15-3
17	17-UD-8-39-29-70	UD	B	39	9	29	70	VT	TC	0.100				29	70	VT	RI			29	70	0	2	2		WR	17-UD-8-39-29-70-4
17	17-UD-8-39-11-86	UD	B	39	10	11	86	VT	Dent	0.160				11	86	VT	D			11	86	8	8	32	64	PP	17-UD-8-39-11-86-5
17	17-UD-8-39-0-81	UD	B	39										0	81	VT	RI			0	81	0	6	6		WR	17-UD-8-39-0-81-8
17	17-UD-8-39-25-116	UD	B	39										25	116	VT	RI			25	116	0	4	4		WR	17-UD-8-39-25-116-6
17	17-UD-8-39-27-101	UD	B	39										27	101	VT	RI			27	101	0	10	10		WR	17-UD-8-39-27-101-7
17	17-UD-8-40-59-95	UD	B	40	2	59	95	VT	POR					59	95	VT	RI			59	95	0	4	4		WR	17-UD-8-40-59-95-1
17	17-UD-8-40-35-119	UD	B	40	3	35	119	VT	Dent	0.150				35	119	VT	D			35	119	8	8	32	64	PP	17-UD-8-40-35-119-2
17	17-UD-8-40-27-153	UD	B	40	4	27	153	VT	POR					27	153	VT	RI			27	153	4	0	4		WR	17-UD-8-40-27-153-3
17	17-UD-8-40-1-1	UD	B	40	7	1	1	VT	UC	0.090				1	1	VT	UC			1	1	4	4	8		WR	17-UD-8-40-1-1-4
17	17-UD-8-40-0-14	UD	B	40										0	14	VT	RI			0	14	0	4	4		WR	17-UD-8-40-0-14-7
17	17-UD-8-40-0-156	UD	B	40										0	156	VT	RI			0	156	17	7	24		WR	17-UD-8-40-0-156-9
17	17-UD-8-40-0-85	UD	B	40										0	85	VT	RI			0	85	0	5	5		WR	17-UD-8-40-0-85-8
17	17-UD-8-40-48-110	UD	B	40										48	110	VT	D			48	110	6	0	19	28	PP	17-UD-8-40-48-110-12
17	17-UD-8-40-57-156	UD	B	40										57	156	VT	RI			57	156	5	0	5		WR	17-UD-8-40-57-156-11
17	17-UD-8-40-58-32	UD	B	40										58	32	VT	RI			58	32	0	4	4		WR	17-UD-8-40-58-32-6
17	17-UD-8-40-58-64	UD	B	40										58	64	VT	RI			58	64	0	6	6		WR	17-UD-8-40-58-64-5
17	17-UD-8-40-9-156	UD	B	40										9	156	VT	LOF			9	156	6	0	6		WR	17-UD-8-40-9-156-10
17	17-UD-8-41-57-39	UD	B	41	1	57	39	VT	POR					57	39	VT	RI			57	39	0	12	12		WR	17-UD-8-41-57-39-1
17	17-UD-8-41-1-97	UD	B	41	2	1	97	VT	POR					1	97	VT	P			1	97	0	16	16		WR	17-UD-8-41-1-97-2
17	17-UD-8-41-1-95	UD	B	41	3	1	95	VT	POR					1	95	VT	P			1	95	0	16	16		WR	17-UD-8-41-1-95-2
17	17-UD-8-41-1-85	UD	B	41	4	1	85	VT	POR					1	85	VT	P			1	85	0	16	16		WR	17-UD-8-41-1-85-2
17	17-UD-8-41-54-105	UD	B	41	5	54	105	VT	POR					54	105	VT	RI			54	105	0	14	14		WR	17-UD-8-41-54-105-3
17	17-UD-8-41-0-71	UD	B	41										0	71	VT	P			0	71	0	6	6		WR	17-UD-8-41-0-71-7
17	17-UD-8-41-12-113	UD	B	41										12	113	VT	LOF			12	113	20	0	20		WR	17-UD-8-41-12-113-8
17	17-UD-8-41-17-30	UD	B	41										17	30	VT	D			17	30	6	0	19	28	PP	17-UD-8-41-17-30-6
17	17-UD-8-41-31-156	UD	B	41										31	156	VT	RI			31	156	0	6	6		WR	17-UD-8-41-31-156-9
17	17-UD-8-41-46-156	UD	B	41										46	156	VT	LOF			46	156	5	0	5		WR	17-UD-8-41-46-156-10
17	17-UD-8-41-52-121	UD	B	41										52	121	VT	P			52	121	0	4	4		WR	17-UD-8-41-52-121-4
17	17-UD-8-41-55-66	UD	B	41										55	66	VT	RI			55	66	0	20	20		WR	17-UD-8-41-55-66-5
17	17-UD-8-42-14-84	UD	B	42	3	14	84	VT	TC	0.150				14	84	VT	G			14	84	6	0	19	28	PP	17-UD-8-42-14-84-1
17	17-UD-8-42-27-64	UD	B	42	4	27	64	VT	TC	0.150				27	64	VT	G			27	64	0	6	6		WR	17-UD-8-42-27-64-2
17	17-UD-8-42-14-57	UD	B	42	5	14	57	VT	TC	0.140				14	57	VT	G			14	57	0	3	3		WR	17-UD-8-42-14-57-3
17	17-UD-8-42-0-133	UD	B	42										0	133	VT	LOF			0	133	0	6	6		WR	17-UD-8-42-0-133-4
17	17-UD-8-42-16-156	UD	B	42										16	156	VT	RI			16	156	18	0	18		WR	17-UD-8-42-16-156-6
17	17-UD-8-42-30-33	UD	B	42										30	33	VT	RI			30	33	0	4	4		WR	17-UD-8-42-30-33-5
17	17-UD-8-43-2-1	UD	B	43	5	2	1	VT	POR					2	1	VT	P			2	1	5	5	10		WR	17-UD-8-43-2-1-2
17	17-UD-8-43-3-109	UD	B	43										3	109	VT	RI			3	109	3	0	3		WR	17-UD-8-43-3-109-7
17	17-UD-8-43-3-68	UD	B	43										3	68	VT	G			3	68	0	6	6		WR	17-UD-8-43-3-68-6

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report							EEL Probe Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications				
		Location in Tank	Shell Course	Plate Number	TestTex ID on Plate	X Coordinate (in)	Y Coordinate (in)	Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)		Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	
17	17-UD-843-43-111	UD	B	43	1	43	111	VT	TC		0.100	43	111	VT	TS				43	111	8	8	32	64	PP	17-UD-843-43-111-1	
17	17-UD-843-49-156	UD	B	43								49	156	VT	RI				49	156	20	0	20		WR	17-UD-843-49-156-5	
17	17-UD-843-59-111	UD	B	43								59	111	VT	RI				59	111	0	4	4		WR	17-UD-843-59-111-4	
17	17-UD-843-6-156	UD	B	43								6	156	VT	RI				6	156	11	0	11		WR	17-UD-843-6-156-3	
17	17-UD-844-15-1	UD	B	44	1	15	1	VT	POR			15	1	VT	RI				15	1	2	2	4		WR	17-UD-844-15-1-1	
17	17-UD-844-52-131	UD	B	44	2	52	131	VT	POR			52	131	VT	LOF				52	131	6	12	18		WR	17-UD-844-52-131-2	
17	17-UD-844-14-144	UD	B	44	3	14	144	VT	Dent		0.800	14	144	VT	D				14	144	8	8	32	64	PP	17-UD-844-14-144-3	
17	17-UD-844-53-29	UD	B	44	4	53	29	VT	TC		0.100	53	29	VT	TS				53	29	3	0	3		WR	17-UD-844-53-29-4	
17	17-UD-844-54-37	UD	B	44	5	54	37	VT	TC		0.100	54	37	VT	TS				54	37	3	0	3		WR	17-UD-844-54-37-5	
17	17-UD-844-0-60	UD	B	44								0	60	VT	RI				0	60	0	4	4		WR	17-UD-844-0-60-6	
17	17-UD-844-44-156	UD	B	44								44	156	VT	RI				44	156	6	6	12		WR	17-UD-844-44-156-10	
17	17-UD-844-51-156	UD	B	44								51	156	VT	LOF				51	156	0	4	4		WR	17-UD-844-51-156-11	
17	17-UD-844-52-69	UD	B	44								52	69	VT	LOF				52	69	6	0	6		WR	17-UD-844-52-69-8	
17	17-UD-844-54-34	UD	B	44								54	34	VT	LOF				54	34	6	0	6		WR	17-UD-844-54-34-7	
17	17-UD-844-54-69	UD	B	44								54	69	VT	RI				54	69	0	4	4		WR	17-UD-844-54-69-9	
17	17-UD-845-0-29	UD	B	45	4	0	29	VT	IF			0	29	VT	RI				0	29	12	8	20		WR	17-UD-845-0-29-3	
17	17-UD-845-1-144	UD	B	45	5	1	144	VT	POR			1	144	VT	RI				1	144	0	4	4		WR	17-UD-845-1-144-1	
17	17-UD-845-26-108	UD	B	45	6	26	108	VT	POR			26	108	VT	RI				26	108	0	4	4		WR	17-UD-845-26-108-2	
17	17-UD-845-4-156	UD	B	45								4	156	VT	RI				4	156	6	0	6		WR	17-UD-845-4-156-4	
17	17-UD-845-6-0	UD	B	45								6	0	VT	RI				6	0	11	0	11		WR	17-UD-845-6-0-5	
17	17-UD-846-30-59	UD	B	46	1	30	59	VT	Dent		0.500	30	59	VT	D				30	59	8	8	32	64	PP	17-UD-846-30-59-1	
17	17-UD-846-59-83	UD	B	46	4	59	83	VT	POR			59	83	VT	RI				59	83	0	4	4		WR	17-UD-846-59-83-2	
17	17-UD-846-47-137	UD	B	46	5	47	137	VT	TC		0.150	47	137	VT	G				47	137	4	0	4		WR	17-UD-846-47-137-3	
17	17-UD-846-0-77	UD	B	46								0	77	VT	RI				0	77	0	6	6		WR	17-UD-846-0-77-6	
17	17-UD-846-23-156	UD	B	46								23	156	VT	RI				23	156	4	0	4		WR	17-UD-846-23-156-7	
17	17-UD-846-29-110	UD	B	46								29	110	VT	RI				29	110	10	6	16		WR	17-UD-846-29-110-9	
17	17-UD-846-59-29	UD	B	46								59	29	VT	RI				59	29	0	4	4		WR	17-UD-846-59-29-11	
17	17-UD-846-59-57	UD	B	46								59	57	VT	RI				59	57	0	4	4		WR	17-UD-846-59-57-10	
17	17-UD-846-60-156	UD	B	46								60	156	VT	RI				60	156	17	8	25		WR	17-UD-846-60-156-8	
17	17-UD-847-49-132	UD	B	47	2	49	125	VT	TC		0.090	49	132	VT	G				49	132	3	0	3		WR	17-UD-847-49-132-1	
17	17-UD-847-49-116	UD	B	47	3	49	116	VT	TC		0.090	49	116	VT	G				49	116	3	0	3		WR	17-UD-847-49-116-2	
17	17-UD-847-52-82	UD	B	47	4	52	82	VT	TC		0.100	52	82	VT	G				52	82	3	0	3		WR	17-UD-847-52-82-3	
17	17-UD-847-5-18	UD	B	47	5	5	18	VT	Dent		0.120	5	18	VT	D				5	18	8	8	32	64	TSPP	17-UD-847-5-16-4	
17	17-UD-847-54-21	UD	B	47	6	54	21	VT	TC		0.100	54	21	VT	G				54	21	4	0	4		WR	17-UD-847-54-21-5	
17	17-UD-847-26-1	UD	B	47	7	26	1	VT	POR			26	1	VT	P				26	1	4	0	4		WR	17-UD-847-26-1-6	
17	17-UD-847-0-40	UD	B	47								0	40	VT	RI				0	40	0	4	4		WR	17-UD-847-0-40-8	
17	17-UD-847-13-156	UD	B	47								13	156	VT	RI				13	156	12	0	12		WR	17-UD-847-13-156-7	
17	17-UD-847-37-156	UD	B	47								37	156	VT	RI				37	156	13	0	13		WR	17-UD-847-37-156-10	
17	17-UD-847-38-128	UD	B	47								38	128	VT	LOF				38	128	8	0	8		WR	17-UD-847-38-128-9	
17	17-UD-848-0-152	UD	B	48	1	0	152	VT	UC		0.125	0	152	VT	UC				0	152	6	0	6		WR	17-UD-848-0-152-1	
17	17-UD-848-1-113	UD	B	48	2	1	113	VT	POR		0.125	1	113	VT	RI				1	113	0	4	4		WR	17-UD-848-1-113-2	
17	17-UD-848-25-111	UD	B	48	3	25	111	VT	POR		0.375	25	111	VT	RI				25	111	0	6	6		WR	17-UD-848-25-111-3	
17	17-UD-848-0-94	UD	B	48	4	0	94	VT	TC		0.150	0	94	VT	G				0	94	0	3	3		WR	17-UD-848-0-94-4	
17	17-UD-848-0-39	UD	B	48								0	39	VT	RI				0	39	0	6	6		WR	17-UD-848-0-39-8	
17	17-UD-848-0-49	UD	B	48								0	49	VT	RI				0	49	0	4	4		WR	17-UD-848-0-49-7	
17	17-UD-848-10-156	UD	B	48								10	156	VT	RI				10	156	18	0	18		WR	17-UD-848-10-156-6	
17	17-UD-848-21-0	UD	B	48								21	0	VT	RI				21	0	6	0	6		WR	17-UD-848-21-0-9	
17	17-UD-849-59-28	UD	B	49	1	59	28	VT	POR		0.093	28	59	VT	P				28	59	28	0	4	4		WR	17-UD-849-59-28-1
17	17-UD-849-22-1	UD	B	49	2	22	1	VT	POR		0.093	22	1	VT	P				12	1	23	0	23		WR	17-UD-849-22-1-2	
17	17-UD-849-1-162	UD	B	49	3	1	62	VT	POR		0.250	1	62	VT	P				1	62	0	6	6		WR	17-UD-849-1-62-3	
17	17-UD-849-1-108	UD	B	49	4	1	108	VT	POR		0.156	1	108	VT	P				1	108	0	8	8		WR	17-UD-849-1-108-4	
17	17-UD-849-58-119	UD	B	49	5	58	116-127	VT	POR		0.125	58	119	VT	P				58	119	0	15	15		WR	17-UD-849-58-119-5	
17	17-UD-849-58-151	UD	B	49	6	58	151	VT	POR		0.125	58	151	VT	P				58	151	10	0	10		WR	17-UD-849-58-151-6	
17	17-UD-849-43-153	UD	B	49	7	43	153	VT	POR			43	153	VT	P				43	153	8	0	8		WR	17-UD-849-43-153-12	
17	17-UD-849-29-153	UD	B	49	8	27-30	153	VT	POR		0.125	29	153	VT	P				29	153	32	0	32		WR	17-UD-849-29-153-7	
17	17-UD-849-7-153	UD	B	49	9	7	153	VT	POR		0.250	7	153	VT	P				0	149	10	0	10		WR	17-UD-849-0-149-8	

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report								EEL Probe Up						Recommended Repairs						Repair Number; May Apply to Multiple Indications	
		Location in Tank	Shell Course	Plate Number	TestTex	Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uppside	Center of Indication X (in)	Center of Indication Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair X (in)	Center of Repair Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)		Repair Type (Patch, Weld, Cap)
17	17-UD-8-49-50-110-9	UD	8	49															50	110	4	0	4		WR	17-UD-8-49-50-110-9
17	17-UD-8-49-59-77-11	UD	8	49															59	77	0	5	5		WR	17-UD-8-49-59-77-11
17	17-UD-8-49-60-96-10	UD	8	49															60	96	2	0	2		WR	17-UD-8-49-60-96-10
17	17-UD-8-50-1-110-1	UD	8	50	2	1	108-113			VT	POR		0.125						1	110	0	6	6		WR	17-UD-8-50-1-110-1
17	17-UD-8-50-21-60-2	UD	8	50	5	21	60			VT	Dent		0.090						21	60	6	0	19	28	PP	17-UD-8-50-21-60-2
17	17-UD-8-50-31-42-3	UD	8	50	6	31	42			VT	TC		0.100						31	42	4	0	4		WR	17-UD-8-50-31-42-3
17	17-UD-8-50-0-0-4	UD	8	50						VT									0	0	20	20	40		WR	17-UD-8-50-0-0-4
17	17-UD-8-50-0-17-5	UD	8	50						VT									0	17	17	0	17		WR	17-UD-8-50-0-17-5
17	17-UD-8-50-53-119-6	UD	8	50						VT									53	119	0	4	4		WR	17-UD-8-50-53-119-6
17	17-UD-8-51-0-0-8	UD	8	51						VT									0	0	28	32	60		WR	17-UD-8-51-0-0-8
17	17-UD-8-51-1-126-6	UD	8	51	1	1	126-131			VT	POR		0.187						1	126	0	21	21		WR	17-UD-8-51-1-126-6
17	17-UD-8-51-1-21-1	UD	8	51	3	1	21			VT	POR		0.093						12	21	0	4	4		WR	17-UD-8-51-1-21-1
17	17-UD-8-51-12-32-2	UD	8	51	4	12	32			VT	Dent		0.060						12	32	6	0	19	28	PP	17-UD-8-51-12-32-2
17	17-UD-8-51-153-12-7	UD	8	51	5	153	12			VT	POR		0.125						153	12	32	8	40		WR	17-UD-8-51-153-12-7
17	17-UD-8-51-17-0-8	UD	8	51						VT									17	0	24	0	24		WR	17-UD-8-51-17-0-8
17	17-UD-8-51-1-82-4	UD	8	51	6	1	73			VT	POR		0.125						1	73	0	28	28		WR	17-UD-8-51-1-82-4
17	17-UD-8-51-26-121-5	UD	8	51	9	26	121			VT	POR		0.094						26	121	0	4	4		WR	17-UD-8-51-26-121-5
17	17-UD-8-51-26-42-3	UD	8	51	10	26	42			VT	Dent		0.060						26	42	6	0	19	28	PP	17-UD-8-51-26-42-3
17	17-UD-8-51-34-0-9	UD	8	51						VT									34	0	16	12	28		WR	17-UD-8-51-34-0-9
17	17-UD-8-52-14-4-1	UD	8	52	1	14	4			VT	TC		0.090						14	4	0	3	3		WR	17-UD-8-52-14-4-1
17	17-UD-8-52-41-146-2	UD	8	52	3	41	146			VT	TC		0.160						41	146	0	3	3		WR	17-UD-8-52-41-146-2
17	17-UD-8-52-22-153-3	UD	8	52	4	22	153			VT	POR		0.125						27	155	24	0	24		WR	17-UD-8-52-22-153-3
17	17-UD-8-52-1-148-4	UD	8	52	5	1	148			VT	POR		0.125						1	148	0	4	4		WR	17-UD-8-52-1-148-4
17	17-UD-8-52-0-114-5	UD	8	52						VT									0	114	0	5	5		WR	17-UD-8-52-0-114-5
17	17-UD-8-52-53-87-6	UD	8	52						VT									53	87	30	0	30		WR	17-UD-8-52-53-87-6
17	17-UD-8-52-54-154-8	UD	8	52						VT									54	154	10	0	10		WR	17-UD-8-52-54-154-8
17	17-UD-8-52-57-119-7	UD	8	52						VT									57	119	0	10	10		WR	17-UD-8-52-57-119-7
17	17-UD-8-53-51-152-1	UD	8	53	1	51	153			VT	POR		0.125						51	152	8	0	8		WR	17-UD-8-53-51-152-1
17	17-UD-8-53-0-115-2	UD	8	53	2	0	118			VT	POR		0.125						0	115	0	20	20		WR	17-UD-8-53-0-115-2
17	17-UD-8-53-0-0-5	UD	8	53						VT									0	0	6	0	6		WR	17-UD-8-53-0-0-5
17	17-UD-8-53-1-30-4	UD	8	53						VT									1	30	0	11	11		WR	17-UD-8-53-1-30-4
17	17-UD-8-53-3-22-6	UD	8	53						VT									3	22	6	0	6		WR	17-UD-8-53-3-22-6
17	17-UD-8-53-53-103-10	UD	8	53						VT									53	103	0	4	4		WR	17-UD-8-53-53-103-10
17	17-UD-8-53-53-108-9	UD	8	53						VT									53	108	0	6	6		WR	17-UD-8-53-53-108-9
17	17-UD-8-53-53-114-8	UD	8	53						VT									53	114	0	16	16		WR	17-UD-8-53-53-114-8
17	17-UD-8-53-56-18-7	UD	8	53						VT									56	18	0	12	12		WR	17-UD-8-53-56-18-7
17	17-UD-8-54-21-153-1	UD	8	54	1	21	153			VT	POR								21	153	4	0	4		WR	17-UD-8-54-21-153-1
17	17-UD-8-54-1-130-2	UD	8	54	2	1	126			VT	POR								1	130	0	6	6		WR	17-UD-8-54-1-130-2
17	17-UD-8-54-1-104-3	UD	8	54	3	1	103-110			VT	POR								1	106	0	18	18		WR	17-UD-8-54-1-104-3
17	17-UD-8-54-3-73-5	UD	8	54	5	3	73			VT	TC		0.090						3	73	4	0	4		WR	17-UD-8-54-3-73-5
17	17-UD-8-54-3-1-6	UD	8	54	6	3	1			VT	POR								3	1	28	28	56		WR	17-UD-8-54-3-1-6
17	17-UD-8-54-28-88-9	UD	8	54						VT									28	88	0	8	8		WR	17-UD-8-54-28-88-9
17	17-UD-8-54-3-110-8	UD	8	54						VT									3	110	6	0	6		WR	17-UD-8-54-3-110-8
17	17-UD-8-55-0-107-1	UD	8	55	1	0	115			VT	G		0.090						0	107	0	4	4		WR	17-UD-8-55-0-107-1
17	17-UD-8-55-58-149-2	UD	8	55	2	58	149			VT	POR		0.250						58	149	12	12	24		WR	17-UD-8-55-58-149-2
17	17-UD-8-55-43-153-3	UD	8	55	3	48	153			VT	POR		0.125						43	153	18	0	18		WR	17-UD-8-55-43-153-3
17	17-UD-8-55-16-153-4	UD	8	55	5	18	153			VT	POR		0.125						16	153	15	0	15		WR	17-UD-8-55-16-153-4
17	17-UD-8-55-1-153-5	UD	8	55	7	1	153			VT	POR		0.093						1	153	14	6	20		WR	17-UD-8-55-1-153-5
17	17-UD-8-55-0-0-6	UD	8	55						VT									0	0	14	10	24		WR	17-UD-8-55-0-0-6
17	17-UD-8-55-59-116-8	UD	8	55						VT									59	116	0	4	4		WR	17-UD-8-55-59-116-8
17	17-UD-8-55-8-0-7	UD	8	55						VT									8	0	8	0	8		WR	17-UD-8-55-8-0-7
17	17-UD-8-56-58-128-1	UD	8	56	1	58	97-154			VT	UC		0.125						58	128	6	116	122		WR	17-UD-8-56-58-128-1
17	17-UD-8-56-26-153-2	UD	8	56	6	23-29	153			VT	POR		0.125						20	153	35	0	35		WR	17-UD-8-56-20-153-2
17	17-UD-8-56-0-109-3	UD	8	56	8	0	112			VT	POR		0.063						0	109	0	11	11		WR	17-UD-8-56-0-109-3
17	17-UD-8-56-0-33-4	UD	8	56	10	0	35			VT	POR		0.187						0	33	0	13	13		WR	17-UD-8-56-0-33-4
17	17-UD-8-56-0-0-5	UD	8	56						VT									0	0	13	7	20		WR	17-UD-8-56-0-0-5

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report										EEL Prove Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside Indication(in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)		
17	17-UD-B-57-29-105	UD	B	57	1	29	105	VT	POR		0.125	29	105	VT	RI			29	105	0	4	4		WR	17-UD-B-57-29-105-1	
17	17-UD-B-57-0-74	UD	B	57	2	0	74	VT	POR		0.125	0	74	VT	RI			0	75	0	14	14		WR	17-UD-B-57-0-75-2	
17	17-UD-B-57-28-153	UD	B	57	4	28	153	VT	POR		0.187	28	153	VT	RI			28	153	0	4	4		WR	17-UD-B-57-28-153-3	
17	17-UD-B-57-0-5	UD	B	57								0	0	VT	RI			0	0	26	26	52		WR	17-UD-B-57-0-5	
17	17-UD-B-57-0-46	UD	B	57								4	46	VT	UC			4	46	6	22	28		WR	17-UD-B-57-0-46-4	
17	17-UD-B-57-4-34	UD	B	57								4	34	VT	RI			4	34	6	4	10		WR	17-UD-B-57-4-34-6	
17	17-UD-B-58-0-118	UD	B	58								0	118	VT	RI			0	118	0	4	4		WR	17-UD-B-58-0-118-3	
17	17-UD-B-58-0-125	UD	B	58	1	0	125	VT	POR		0.187	0	125	VT	P			0	141	0	22	22		WR	17-UD-B-58-0-141-2	
17	17-UD-B-58-0-42	UD	B	58								0	42	VT	RI			0	42	0	4	4		WR	17-UD-B-58-0-42-4	
17	17-UD-B-58-107-58	UD	B	58								107	58	VT	RI			107	58	0	5	5		WR	17-UD-B-58-107-58-8	
17	17-UD-B-58-58-0	UD	B	58								58	0	VT	UC		0.14	58	0	4	0	4		WR	17-UD-B-58-58-0-5	
17	17-UD-B-58-58-153	UD	B	58	2	58	153	VT	POR		0.187	58	153	VT	RI			58	153	6	0	6		WR	17-UD-B-58-58-153-1	
17	17-UD-B-58-60-0	UD	B	58								60	0	VT	RI			60	0	12	6	18		WR	17-UD-B-58-60-0-6	
17	17-UD-B-58-75-40	UD	B	58								75	40	VT	G		0.14	75	40	0	4	4		WR	17-UD-B-58-75-40-7	
17	17-UD-B-59-21-153	UD	B	59	1	21	153	VT	POR		0.125	21	153	VT	P			21	153	11	0	11		WR	17-UD-B-59-21-153-1	
17	17-UD-B-59-59-150	UD	B	59	2	59	150	VT	POR		0.150	59	150	VT	RI			59	150	24	30	54		WR	17-UD-B-59-59-150-2	
17	17-UD-B-59-58-116	UD	B	59	3	58	116	VT	TC		0.200	58	116	VT	G			58	116	0	6	6		WR	17-UD-B-59-58-116-3	
17	17-UD-B-59-58-71	UD	B	59	4	58	71	VT	POR		0.125	58	71	VT	UC			58	68	0	50	50		WR	17-UD-B-59-58-68-4	
17	17-UD-B-59-0-42	UD	B	59	6	0	42	VT	POR		0.125	0	42	VT	RI			0	42	0	4	4		WR	17-UD-B-59-0-42-5	
17	17-UD-B-59-41-156	UD	B	59								41	156	VT	RI			41	156	15	0	15		WR	17-UD-B-59-41-156-6	
17	17-UD-B-60-24-91	UD	B	60	1	24	91	VT	Gouge		0.090	24	91	VT	G			24	91	0	4	4		WR	17-UD-B-60-24-91-1	
17	17-UD-B-60-32-109	UD	B	60	2	32	109	VT	POR		0.120	32	109	VT	RI			32	109	0	7	7		WR	17-UD-B-60-32-109-2	
17	17-UD-B-60-0-121	UD	B	60	3	0	121	VT	POR		0.121	0	121	VT	RI			0	121	0	4	4		WR	17-UD-B-60-0-121-3	
17	17-UD-B-60-32-127	UD	B	60	4	32	127	VT	POR		0.127	32	127	VT	RI			32	127	0	10	10		WR	17-UD-B-60-32-127-4	
17	17-UD-B-60-0-134	UD	B	60	5	0	134	VT	POR		0.134	0	134	VT	RI			0	134	0	6	6		WR	17-UD-B-60-0-134-5	
17	17-UD-B-60-32-68	UD	B	60								32	68	VT	RI			32	68	0	8	8		WR	17-UD-B-60-32-68-7	
17	17-UD-B-61-0-34	UD	B	61	1	0	34	VT	POR		0.125	0	34	VT	RI			0	34	0	4	4		WR	17-UD-B-61-0-34-1	
17	17-UD-B-61-58-48	UD	B	61	2	58	48	VT	POR		0.250	58	48	VT	RI			58	49	0	15	15		WR	17-UD-B-61-58-48-2	
17	17-UD-B-61-59-107	UD	B	61	4	59	107	VT	Gouge		0.120	59	107	VT	G			59	107	4	0	4		WR	17-UD-B-61-59-107-3	
17	17-UD-B-61-0-110	UD	B	61	5	0	110	VT	POR		0.187	0	110	VT	RI			0	110	0	4	4		WR	17-UD-B-61-0-110-4	
17	17-UD-B-61-58-120	UD	B	61	7	58	120	VT	POR		0.125	58	120	VT	RI			58	120	0	6	6		WR	17-UD-B-61-58-120-6	
17	17-UD-B-61-0-140	UD	B	61	8	0	127-154	VT	PORX26		0.125	0	140	VT	RI			0	138	0	27	27		WR	17-UD-B-61-0-138-7	
17	17-UD-B-61-0-156	UD	B	61								0	156	VT	RI			0	156	10	10	20		WR	17-UD-B-61-0-156-8	
17	17-UD-B-61-43-98	UD	B	61								43	98	VT	RI			43	98	3	0	3		WR	17-UD-B-61-43-98-9	
17	17-UD-B-61-58-108	UD	B	61								58	108	VT	RI			58	108	0	6	6		WR	17-UD-B-61-58-108-10	
17	17-UD-B-61-60-0	UD	B	61								60	0	VT	LOF			60	0	22	10	32		WR	17-UD-B-61-60-0-11	
17	17-UD-B-62-12-153	UD	B	62	1	12	153	VT	POR		0.187	12	153	VT	RI			12	153	4	6	10		WR	17-UD-B-62-12-153-1	
17	17-UD-B-62-51-140	UD	B	62	3	51	140	VT	POR		0.140	51	140	VT	RI			51	140	0	5	5		WR	17-UD-B-62-51-140-2	
17	17-UD-B-62-0-88	UD	B	62	4	0	88	VT	POR		0.088	0	88	VT	RI			0	88	0	4	4		WR	17-UD-B-62-0-88-3	
17	17-UD-B-62-0-40	UD	B	62	5	0	40	VT	POR		0.040	0	40	VT	RI			0	40	0	4	4		WR	17-UD-B-62-0-40-4	
17	17-UD-B-63-23-153	UD	B	63								54	72	VT	RI			54	72	0	6	6		WR	17-UD-B-63-23-153-5	
17	17-UD-B-63-0-74	UD	B	63	2	23	153	VT	POR		0.187	23	153	VT	P			23	153	8	4	12		WR	17-UD-B-63-23-153-1	
17	17-UD-B-63-0-89	UD	B	63								0	74	VT	RI			0	74	0	5	5		WR	17-UD-B-63-0-74-5	
17	17-UD-B-63-0-89	UD	B	63								0	89	VT	RI			0	89	0	4	4		WR	17-UD-B-63-0-89-4	
17	17-UD-B-63-26-116	UD	B	63								26	116	VT	RI			26	116	0	22	22		WR	17-UD-B-63-26-116-3	
17	17-UD-B-63-29-63	UD	B	63								29	63	VT	RI			29	63	0	12	12		WR	17-UD-B-63-29-63-6	
17	17-UD-B-63-6-156	UD	B	63								6	156	VT	RI			6	156	9	0	9		WR	17-UD-B-63-6-156-2	
17	17-UD-B-64-0-62	UD	B	64	2	0	62	VT	POR		0.187	0	62	VT	P			0	64	0	13	13		WR	17-UD-B-64-0-64-1	
17	17-UD-B-64-0-134	UD	B	64	5	0	134	VT	POR		0.134	0	134	VT	P			0	134	0	4	4		WR	17-UD-B-64-0-134-2	
17	17-UD-B-64-23-156	UD	B	64								23	156	VT	RI			23	156	4	0	4		WR	17-UD-B-64-23-156-3	
17	17-UD-B-65-35-98	UD	B	65	2	35	98	VT	Dent		0.110	35	98	VT	D			35	98	6	0	19	28	PP	17-UD-B-65-35-98-1	
17	17-UD-B-65-0-65	UD	B	65	5	0	65	VT	POR		0.125	0	65	VT	P			0	65	0	4	4		WR	17-UD-B-65-0-65-2	
17	17-UD-B-65-32-60	UD	B	65	6	32	60	VT	POR		0.187	32	60	VT	P			32	60	0	36	36		WR	17-UD-B-65-32-60-3	
17	17-UD-B-65-55-32	UD	B	65	7	32	32	VT	POR		0.187	32	32	VT	P			32	32	0	31	31		WR	17-UD-B-65-32-31-4	
17	17-UD-B-65-0-156	UD	B	65								0	156	VT	RI			0	156	12	6	18		WR	17-UD-B-65-0-156-5	
17	17-UD-B-65-54-109	UD	B	65								54	109	VT	RI			54	109	6	23	29		WR	17-UD-B-65-54-109-7	

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report							EEI Probe Up						Recommended Repairs						Repair Number; May Apply to Multiple Indications	
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside Indication(in)	Center of Indication X (in)	Center of Indication Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair X (in)	Center of Repair Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)		Repair Type (Patch, Weld, Cap)
17	17-UD-B-65-54-145	UD	B	65								54	145	VT	RI			54	145	6	12	18		WR	17-UD-B-65-54-145-8
17	17-UD-B-65-6-156	UD	B	65								6	156	VT	RI			6	156	8	0	8		WR	17-UD-B-65-6-156-6
17	17-UD-B-66-32-28	UD	B	66	1	32	28	VT	POR			32	28	VT	P			32	31	0	16	16		WR	17-UD-B-66-32-31-1
17	17-UD-B-66-32-60	UD	B	66	6	32	60	VT	POR			32	60	VT	RI			32	60	0	6	6		WR	17-UD-B-66-32-60-2
17	17-UD-B-66-10-154	UD	B	66	8	10	154	VT	TC	.210 +		10	154	VT	RI	0.000		10	154	4	0	4		WR	17-UD-B-66-10-154-3
17	17-UD-B-67-0-5	UD	B	67								0	5	VT	RI			0	5	0	4	4		WR	17-UD-B-67-0-5-4
17	17-UD-B-67-27-110	UD	B	67								27	110	VT	RI			27	110	10	20	30		WR	17-UD-B-67-27-110-3
17	17-UD-B-67-4-156	UD	B	67								4	156	VT	RI			4	156	0	9	9		WR	17-UD-B-67-4-156-2
17	17-UD-B-67-58-12	UD	B	67								58	12	VT	RI			58	12	0	4	4		WR	17-UD-B-67-58-12-5
17	17-UD-B-67-58-45	UD	B	67	1	58	45	VT	POR	0.125		58	45	VT	RI			58	45	0	36	36		WR	17-UD-B-67-58-45-1
17	17-UD-B-68-0-152	UD	B	68	2	0	152	VT	UC	0.090		0	152	VT	UC			0	152	0	8	20		WR	17-UD-B-68-0-152-1
17	17-UD-B-68-5-153	UD	B	68	3	5	153	VT	POR	0.187		5	153	VT	RI			5	153	5	0	5		WR	17-UD-B-68-5-153-2
17	17-UD-B-68-35-153	UD	B	68	4	35	153	VT	POR	0.180		35	153	VT	P			35	153	18	0	18		WR	17-UD-B-68-37-156-7
17	17-UD-B-68-0-110	UD	B	68								0	110	VT	RI			0	110	0	4	4		WR	17-UD-B-68-0-110-3
17	17-UD-B-68-51-125	UD	B	68								51	125	VT	RI			51	125	0	24	24		WR	17-UD-B-68-51-125-5
17	17-UD-B-68-51-145	UD	B	68								51	145	VT	RI			51	145	0	4	4		WR	17-UD-B-68-51-145-6
17	17-UD-B-68-58-14	UD	B	68								58	14	VT	RI			58	14	12	14	26		WR	17-UD-B-68-58-14-4
17	17-UD-B-69-33-16	UD	B	69	2	33	16	VT	POR	0.125		33	16	VT	P			33	18	0	10	10		WR	17-UD-B-69-33-18-1
17	17-UD-B-69-1-132	UD	B	69	4	1	132	VT	POR	0.125		1	132	VT	RI			1	142	0	12	12		WR	17-UD-B-69-1-142-2
17	17-UD-B-69-33-126	UD	B	69	5	33	126	VT	POR	0.063		33	126	VT	RI			33	134	0	17	17		WR	17-UD-B-69-33-134-3
17	17-UD-B-69-9-153	UD	B	69	6	9	153	VT	POR	0.187		9	153	VT	RI			16	153	19	0	19		WR	17-UD-B-69-16-153-4
17	17-UD-B-69-24-154	UD	B	69								24	154	VT	RI			24	154	4	0	4		WR	17-UD-B-69-24-154-5
17	17-UD-B-69-33-112	UD	B	69								33	112	VT	RI			33	112	0	9	9		WR	17-UD-B-69-33-112-6
17	17-UD-B-69-33-7	UD	B	69								33	7	VT	RI			33	7	0	4	4		WR	17-UD-B-69-33-7-8
17	17-UD-B-70-25-29	UD	B	70	1	23-28	28-30	VT	Dent	0.249		25	29	VT	D			25	29	10	10	40	100	PP	17-UD-B-70-25-29-1
17	17-UD-B-70-0-52	UD	B	70	2	0	52	VT	POR	0.188		0	52	VT	RI			0	53	0	9	9		WR	17-UD-B-70-0-53-2
17	17-UD-B-70-0-81	UD	B	70	3	0	81	VT	POR	0.188		0	81	VT	RI			0	86	0	6	6		WR	17-UD-B-70-0-86-3
17	17-UD-B-70-59-68	UD	B	70	5	59	68	VT	POR	0.125		59	68	VT	RI			59	66	0	4	4		WR	17-UD-B-70-59-66-4
17	17-UD-B-70-0-152	UD	B	70	6	0	152	VT	POR	0.250		0	152	VT	P			0	155	14	10	24		WR	17-UD-B-70-0-155-5
17	17-UD-B-70-14-154	UD	B	70	7	14	154	VT	POR	0.188		14	154	VT	RI			24	154	32	0	32		WR	17-UD-B-70-24-154-6
17	17-UD-B-70-59-128	UD	B	70	10	59	128	VT	POR	0.125		59	128	VT	RI			59	126	0	13	13		WR	17-UD-B-70-59-126-7
17	17-UD-B-70-0-70	UD	B	70								0	70	VT	RI			0	70	0	4	4		WR	17-UD-B-70-0-70-8
17	17-UD-B-70-58-101	UD	B	70								58	101	VT	RI			58	101	0	4	4		WR	17-UD-B-70-58-101-9
17	17-UD-B-70-58-86	UD	B	70								58	86	VT	RI			58	86	0	6	6		WR	17-UD-B-70-58-86-10
17	17-UD-B-71-59-13	UD	B	71	1	59	13	VT	POR	0.063		59	13	VT	P			59	23	0	4	4		WR	17-UD-B-71-59-23-1
17	17-UD-B-71-50-128	UD	B	71	2	50	128	VT	POR	0.188		50	128	VT	P			51	133	0	24	24		WR	17-UD-B-71-51-133-2
17	17-UD-B-71-30-154	UD	B	71								30	154	VT	RI			30	154	33	0	33		WR	17-UD-B-71-30-154-3
17	17-UD-B-72-6-18	UD	B	72	1	5-7	17-19	VT	Dent	0.250		6	18	VT	D			6	18	6	0	19	28	PP	17-UD-B-72-6-18-1
17	17-UD-B-72-0-112	UD	B	72	2	0	112	VT	POR	0.188		0	112	VT	G			0	112	0	2	2		WR	17-UD-B-72-0-112-2
17	17-UD-B-72-0-122	UD	B	72	3	0	122	VT	POR	0.094		0	122	VT	RI			0	128	0	15	15		WR	17-UD-B-72-0-128-3
17	17-UD-B-72-0-50	UD	B	72								0	50	VT	RI			0	50	0	6	6		WR	17-UD-B-72-0-50-4
17	17-UD-B-72-58-30	UD	B	72								58	30	VT	RI			58	30	0	18	18		WR	17-UD-B-72-58-30-5
17	17-UD-A-1-1-64	UD	A	1	1	1	64	VT	POR			1	64	VT	P			1	64	0	24	24		WR	17-UD-A-1-1-64-1
17	17-UD-A-1-1-6	UD	A	1	3	1	6	VT	POR			1	6	VT	P			1	6	3	3	6		WR	17-UD-A-1-1-6-2
17	17-UD-A-1-0-104	UD	A	1								0	104	VT	P			0	104	0	2	2		WR	17-UD-A-1-0-104-5
17	17-UD-A-1-0-150	UD	A	1								0	150	VT	P			0	150	0	12	12		WR	17-UD-A-1-0-150-3
17	17-UD-A-1-0-73	UD	A	1								0	73	VT	P			0	73	0	2	2		WR	17-UD-A-1-0-73-8
17	17-UD-A-1-0-94	UD	A	1								0	94	VT	P			0	94	0	6	6		WR	17-UD-A-1-0-94-7
17	17-UD-A-1-34-119	UD	A	1								34	119	VT	D			34	119	6	0	19	28	PP	17-UD-A-1-34-119-6
17	17-UD-A-1-35-144	UD	A	1								35	144	VT	UC			35	144	2	0	2		WR	17-UD-A-1-35-144-4
17	17-UD-A-1-43-30	UD	A	1								43	30	VT	D			43	30	6	0	19	28	PP	17-UD-A-1-43-30-9
17	17-UD-A-2-53-132	UD	A	2	1	53	132	VT	TC	0.090		53	132	VT	UC			53	132	0	2	2		WR	17-UD-A-2-53-132-1
17	17-UD-A-2-11-84	UD	A	2	2	11	84	VT	Dent	0.200		11	84	VT	D			11	84	6	0	19	28	PP	17-UD-A-2-11-84-2
17	17-UD-A-2-44-132	UD	A	2								44	132	VT	LOF			44	132	0	2	2		WR	17-UD-A-2-44-132-5
17	17-UD-A-2-56-150	UD	A	2								56	150	VT	P			56	150	0	4	4		WR	17-UD-A-2-56-150-4

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report										EEL Probe Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside Indication(in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)			
17	17-UD-A-2-56-157	UD A	A	2								56	157	VT	LOF			56	157	0	5	5		WR	17-UD-A-2-56-157-3		
17	17-UD-A-2-56-21	UD A	A	2								56	21	VT	D			56	21	6	6	24	36	TSPP	17-UD-A-2-56-21-8		
17	17-UD-A-2-57-37	UD A	A	2								57	37	VT	IF			57	37	3	0	3		WR	17-UD-A-2-57-37-7		
17	17-UD-A-2-57-43	UD A	A	2								57	43	VT	P			57	43	0	5	5		WR	17-UD-A-2-57-43-6		
17	17-UD-A-3-10-0	UD A	A	3	1	10	0	VT	TC	0.120		10	0	VT	TS			10	0	2	0	2		WR	17-UD-A-3-10-0-1		
17	17-UD-A-3-12-0	UD A	A	3	2	12	0	VT	TC	0.100		12	0	VT	TS			12	0	2	0	2		WR	17-UD-A-3-12-0-2		
17	17-UD-A-3-156	UD A	A	3								156	0	VT	P			156	0	156	0	6	6	WR	17-UD-A-3-156-7		
17	17-UD-A-3-15-48	UD A	A	3								15	48	VT	D			15	48	10	10	40	100	PP	17-UD-A-3-15-48-5		
17	17-UD-A-3-29-156	UD A	A	3								29	156	VT	LOF			29	156	6	0	6		WR	17-UD-A-3-29-156-8		
17	17-UD-A-3-30-51	UD A	A	3								30	51	VT	D			30	51	9	9	36	81	TSPP	17-UD-A-3-30-51-4		
17	17-UD-A-3-44	UD A	A	3								4	44	VT	D			4	44	8	8	32	64	TSPP	17-UD-A-3-44-3		
17	17-UD-A-3-8-53	UD A	A	3								8	53	VT	D			8	53	6	0	19	28	PP	17-UD-A-3-8-53-6		
17	17-UD-A-4-130	UD A	A	4	1	2	130	VT	TC	0.100		2	130	VT	UC			2	130	0	2	2		WR	17-UD-A-4-130-1		
17	17-UD-A-4-23-122	UD A	A	4	2	23	122	VT	DENT			23	122	VT	D			23	122	10	10	40	100	PP	17-UD-A-4-23-122-2		
17	17-UD-A-4-57-154	UD A	A	4	3	57	154	VT	POR			57	154	VT	P			57	154	0	4	4		WR	17-UD-A-4-57-154-3		
17	17-UD-A-4-58-30	UD A	A	4	4	58	30	VT	POR			58	30	VT	P			58	30	0	6	6		WR	17-UD-A-4-58-30-4		
17	17-UD-A-4-0-17	UD A	A	4								0	17	VT	IF			0	17	0	19	10		WR	17-UD-A-4-0-17-7		
17	17-UD-A-4-44-100	UD A	A	4								44	100	VT	LOF			44	100	0	10	10		WR	17-UD-A-4-44-100-5		
17	17-UD-A-4-54-80	UD A	A	4								54	80	VT	G			54	80	0	2	2		WR	17-UD-A-4-54-80-6		
17	17-UD-A-5-8-120	UD A	A	5	1	10	120	VT	TC	0.200		8	120	VT	G			8	120	8	8	32	64	PP	17-UD-A-5-8-120-1		
17	17-UD-A-5-9-86	UD A	A	5	2	12	86	VT	DENT			9	86	VT	D			9	86	10	10	40	100	PP	17-UD-A-5-9-86-2		
17	17-UD-A-5-46-78	UD A	A	5	3	46	78	VT	DENT			46	78	VT	D			46	78	8	8	32	64	PP	17-UD-A-5-46-78-3		
17	17-UD-A-5-23-16	UD A	A	5	4	22	20	VT	POR			23	16	VT	P			23	16	6	0	6		WR	17-UD-A-5-23-16-4		
17	17-UD-A-5-2-103	UD A	A	5								2	103	VT	D			2	103	8	8	32	64	PP	17-UD-A-5-2-103-6		
17	17-UD-A-5-26-156	UD A	A	5								26	156	VT	LOF			26	156	4	0	4		WR	17-UD-A-5-26-156-5		
17	17-UD-A-6-0-90	UD A	A	6	1	0	90	VT	POR			0	90	VT	P			0	90	0	36	36		WR	17-UD-A-6-0-90-1		
17	17-UD-A-6-34-90	UD A	A	6	4	34	90	VT	POR			34	90	VT	P			34	90	0	4	4		WR	17-UD-A-6-34-90-2		
17	17-UD-A-6-36-58	UD A	A	6	7	36	54	VT	POR			36	58	VT	P			36	58	0	12	12		WR	17-UD-A-6-36-58-2		
17	17-UD-A-6-0-24	UD A	A	6	8	0	24	VT	POR			0	24	VT	P			0	16	0	25	25		WR	17-UD-A-6-0-16-3		
17	17-UD-A-6-15-156	UD A	A	6								15	156	VT	LOF			15	156	13	0	13		WR	17-UD-A-6-15-156-5		
17	17-UD-A-6-3-156	UD A	A	6								3	156	VT	P			3	156	8	0	8		WR	17-UD-A-6-3-156-4		
17	17-UD-A-7-24-70	UD A	A	7	1	24	70	VT	DENT			24	70	VT	D			24	70	6	0	19	28	PP	17-UD-A-7-24-70-1		
17	17-UD-A-7-59-6	UD A	A	7	2	59	6	VT	IC/SG/POR	0.110		59	6	VT	G			59	6	0	11	11		WR	17-UD-A-7-59-6-2		
17	17-UD-A-7-43-144	UD A	A	7	3	43	144	VT	GOUGE	0.094		43	144	VT	G			43	144	0	2	2		WR	17-UD-A-7-43-144-3		
17	17-UD-A-7-0-156	UD A	A	7								0	156	VT	P			0	156	0	4	4		WR	17-UD-A-7-0-156-5		
17	17-UD-A-7-0-16	UD A	A	7								0	16	VT	P			0	16	0	11	11		WR	17-UD-A-7-0-16-7		
17	17-UD-A-7-51-156	UD A	A	7								51	156	VT	LOF			51	156	16	0	16		WR	17-UD-A-7-51-156-6		
17	17-UD-A-7-58-72	UD A	A	7								58	72	VT	P			58	72	0	10	10		WR	17-UD-A-7-58-72-4		
17	17-UD-A-8-9-142	UD A	A	8	2	9	142	VT	TC	0.125		9	142	VT	G			9	142	2	0	2		WR	17-UD-A-8-9-142-1		
17	17-UD-A-8-0-84	UD A	A	8	3	0	84	VT	POR			0	84	VT	P			0	84	0	4	4		WR	17-UD-A-8-0-84-2		
17	17-UD-A-8-9-81	UD A	A	8	4	9	81	VT	POR			9	81	VT	P			9	81	8	0	8		WR	17-UD-A-8-9-81-3		
17	17-UD-A-8-0-98	UD A	A	8	5	0	98	VT	POR			0	98	VT	P			0	98	2	0	2		WR	17-UD-A-8-0-98-4		
17	17-UD-A-8-16-10	UD A	A	8	6	16	10	VT	DENT			16	10	VT	D			16	10	6	0	19	28	PP	17-UD-A-8-16-10-5		
17	17-UD-A-8-55-140	UD A	A	8	7	55	140	VT	POR			55	140	VT	P			55	140	0	30	30		WR	17-UD-A-8-55-140-6		
17	17-UD-A-8-55-93	UD A	A	8	9	55	93	VT	POR			55	93	VT	P			55	88	0	22	22		WR	17-UD-A-8-55-88-7		
17	17-UD-A-8-56-65	UD A	A	8	12	56	65	VT	POR			56	65	VT	P			56	65	0	10	10		WR	17-UD-A-8-56-65-8		
17	17-UD-A-8-56-48	UD A	A	8	14	56	48	VT	POR			56	48	VT	P			56	48	0	7	7		WR	17-UD-A-8-56-48-9		
17	17-UD-A-8-15-92	UD A	A	8								15	92	VT	D			15	92	8	8	32	64	PP	17-UD-A-8-15-92-11		
17	17-UD-A-9-15-134	UD A	A	9	1	15	134	VT	TC	0.094		15	134	VT	TS			15	134	2	0	2		WR	17-UD-A-9-15-134-1		
17	17-UD-A-9-20-80	UD A	A	9	2	20	80	VT	GOUGE			20	80	VT	G			20	80	10	10	40	100	PP	17-UD-A-9-20-80-2		
17	17-UD-A-9-34-80	UD A	A	9	4	34	80	VT	POR			34	80	VT	P			34	80	0	8	8		WR	17-UD-A-9-34-80-3		
17	17-UD-A-9-34-4	UD A	A	9	5	34	4	VT	TC	0.096		34	4	VT	TS			34	4	2	0	2		WR	17-UD-A-9-34-4-4		
17	17-UD-A-9-34-0	UD A	A	9	6	34	0	VT	POR			34	0	VT	P			34	0	0	6	6		WR	17-UD-A-9-34-0-5		
17	17-UD-A-9-6-0	UD A	A	9	7	6	0	VT	POR			6	0	VT	P			6	0	0	4	4		WR	17-UD-A-9-6-0-6		
17	17-UD-A-9-0-9	UD A	A	9								0	9	VT	UC			0	9	3	3	6		WR	17-UD-A-9-0-9-8		

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Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report							EEL Probe Up				Recommended Repairs							Repair Number: May Apply to Multiple Indications		
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside Indication(in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)		Area of PP (sq in)	Repair Type (Patch, Weld, Cap)
17	17-UD-A-9-35-156	UD	A	9								35	156	VT	P			35	156	2	0	2		WR	17-UD-A-9-35-156-7
17	17-UD-A-10-27-157	UD	A	10	1	27	157	VT	POR			27	157	VT	P			27	157	4	4	8		WR	17-UD-A-10-27-157-1
17	17-UD-A-10-36-152	UD	A	10	2	36	152	VT	GOUGE		0.110	36	152	VT	G			36	152	2	0	2		WR	17-UD-A-10-36-152-2
17	17-UD-A-10-57-157	UD	A	10	3	57	157	VT	UC		0.090	57	157	VT	UC			57	157	4	4	8		WR	17-UD-A-10-57-157-3
17	17-UD-A-10-27-88	UD	A	10	4	27	88	VT	POR			27	88	VT	P			27	88	2	0	2		WR	17-UD-A-10-27-88-4
17	17-UD-A-10-0-66	UD	A	10	5	0	66	VT	POR			0	66	VT	P			0	66	0	7	7		WR	17-UD-A-10-0-66-5
17	17-UD-A-10-80-44	UD	A	10	6	80	44	VT	GOUGE		0.094	80	44	VT	G			80	44	10	10	40	100	PP	17-UD-A-10-80-44-6
17	17-UD-A-10-1-50	UD	A	10	7	1	50	VT	UC			1	50	VT	UC			1	50	2	0	2		WR	17-UD-A-10-1-50-7
17	17-UD-A-10-16-48	UD	A	10	9	16	48	VT	GOUGE		0.110	16	48	VT	G			16	48	8	8	32	64	PP	17-UD-A-10-16-48-8
17	17-UD-A-10-37-51	UD	A	10	10	37	51	VT	GOUGE		0.130	37	51	VT	G			37	51	2	0	2		WR	17-UD-A-10-37-51-9
17	17-UD-A-10-58-38	UD	A	10	11	58	38	VT	POR			58	38	VT	P			58	38	0	4	4		WR	17-UD-A-10-58-38-10
17	17-UD-A-10-10-0	UD	A	10	12	10	0	VT	POR			10	0	VT	P			10	0	20	0	20		WR	17-UD-A-10-10-0-11
17	17-UD-A-10-44-0	UD	A	10	14	44	0	VT	POR			44	0	VT	P			44	0	24	0	24		WR	17-UD-A-10-44-0-12
17	17-UD-A-10-0-4	UD	A	10								0	4	VT	G			0	4	0	8	8		WR	17-UD-A-10-0-4-13
17	17-UD-A-10-59-72	UD	A	10								59	72	VT	P			59	72	2	0	2		WR	17-UD-A-10-59-72-14
17	17-UD-A-11-15-157	UD	A	11	1	15	157	VT	POR			15	157	VT	P			15	157	30	0	30		WR	17-UD-A-11-15-157-1
17	17-UD-A-11-55-152	UD	A	11	3	55	152	VT	POR			55	152	VT	P			55	152	0	4	4		WR	17-UD-A-11-55-152-2
17	17-UD-A-11-10-144	UD	A	11	4	10	144	VT	GOUGE		0.094	10	144	VT	G			10	144	2	0	2		WR	17-UD-A-11-10-144-3
17	17-UD-A-11-55-130	UD	A	11	5	55	130	VT	POR			55	130	VT	P			55	130	0	6	6		WR	17-UD-A-11-55-130-4
17	17-UD-A-11-4-114	UD	A	11	6	4	114	VT	DENT		0.070	4	114	VT	D			4	114	6	0	19	28	PP	17-UD-A-11-4-114-5
17	17-UD-A-11-55-114	UD	A	11	7	55	114	VT	POR			55	114	VT	P			55	114	0	6	6		WR	17-UD-A-11-55-114-6
17	17-UD-A-11-2-70	UD	A	11	11	2	70	VT	GOUGE		0.094	2	70	VT	G			2	70	2	0	2		WR	17-UD-A-11-2-70-7
17	17-UD-A-11-24-25	UD	A	11	13	24	25	VT	DENT		0.100	24	25	VT	D			24	25	6	0	19	28	PP	17-UD-A-11-24-25-8
17	17-UD-A-11-57-69	UD	A	11	14	57	69	VT	POR			57	69	VT	P			57	69	0	12	12		WR	17-UD-A-11-57-69-9
17	17-UD-A-11-38-32	UD	A	11	15	38	32	VT	DENT		0.060	38	32	VT	D			38	32	6	0	19	28	PP	17-UD-A-11-38-32-10
17	17-UD-A-11-58-47	UD	A	11	16	58	47	VT	POR			58	47	VT	P			58	47	0	6	6		WR	17-UD-A-11-58-47-11
17	17-UD-A-11-49-56	UD	A	11	17	49	56	VT	GOUGE		0.120	49	56	VT	G			49	56	8	8	32	64	PP	17-UD-A-11-49-56-12
17	17-UD-A-11-57-24	UD	A	11	18	57	24	VT	POR			57	24	VT	P			57	24	9	6	15		WR	17-UD-A-11-57-24-13
17	17-UD-A-11-50-0	UD	A	11	19	50	0	VT	POR			50	0	VT	P			50	0	8	0	8		WR	17-UD-A-11-50-0-14
17	17-UD-A-11-50-72	UD	A	11								50	72	VT	P			50	72	6	0	19	28	PP	17-UD-A-11-50-72-17
17	17-UD-A-11-57-145	UD	A	11								57	145	VT	P			57	145	2	0	2		WR	17-UD-A-11-57-145-16
17	17-UD-A-11-57-156	UD	A	11								57	156	VT	P			57	156	2	0	2		WR	17-UD-A-11-57-156-15
17	17-UD-A-11-57-36	UD	A	11								57	36	VT	G			57	36	2	0	2		WR	17-UD-A-11-57-36-19
17	17-UD-A-11-58-25	UD	A	11								58	25	VT	LOF			58	25	3	3	6		WR	17-UD-A-11-58-25-20
17	17-UD-A-11-58-58	UD	A	11								58	58	VT	LOF			58	58	3	3	6		WR	17-UD-A-11-58-58-18
17	17-UD-A-11-58-9	UD	A	11								58	9	VT	LOF			58	9	3	10	13		WR	17-UD-A-11-58-9-21
17	17-UD-A-12-0-157	UD	A	12	1	0	157	VT	POR			0	157	VT	P			0	157	2	0	2		WR	17-UD-A-12-0-157-1
17	17-UD-A-12-23-157	UD	A	12	2	23	157	VT	POR			23	157	VT	P			23	157	17	0	17		WR	17-UD-A-12-23-157-2
17	17-UD-A-12-0-106	UD	A	12	5	0	106	VT	TC		0.096	0	106	VT	TS			0	106	2	0	2		WR	17-UD-A-12-0-106-5
17	17-UD-A-12-0-99	UD	A	12	6	0	99	VT	POR			0	99	VT	P			0	99	0	7	7		WR	17-UD-A-12-0-99-6
17	17-UD-A-12-0-85	UD	A	12	7	0	85	VT	POR			0	85	VT	P			0	85	0	4	4		WR	17-UD-A-12-0-85-7
17	17-UD-A-12-33-63	UD	A	12	8	33	63	VT	POR			33	63	VT	P			33	63	0	24	24		WR	17-UD-A-12-33-63-8
17	17-UD-A-12-33-54	UD	A	12	9	33	54	VT	POR			33	54	VT	P			33	54	2	0	2		WR	17-UD-A-12-33-54-9
17	17-UD-A-12-0-47	UD	A	12	10	0	47	VT	POR			0	47	VT	P			0	47	0	2	2		WR	17-UD-A-12-0-47-10
17	17-UD-A-12-33-36	UD	A	12	11	33	36	VT	POR			33	36	VT	P			33	36	0	12	12		WR	17-UD-A-12-33-36-11
17	17-UD-A-12-33-4	UD	A	12	14	33	4	VT	TC		0.094	33	4	VT	UC			33	4	0	2	2		WR	17-UD-A-12-33-4-12
17	17-UD-A-12-12-2	UD	A	12	16	12	2	VT	GOUGE		0.100	12	2	VT	G			12	2	6	0	19	28	PP	17-UD-A-12-12-2-14
17	17-UD-A-12-0-146	UD	A	12	18	0	40	VT	GOUGE		0.094	0	40	VT	P			0	40	0	4	4		WR	17-UD-A-12-0-146-15
17	17-UD-A-12-3-11	UD	A	12								3	11	VT	UC			3	11	0	2	2		WR	17-UD-A-12-3-11-16
17	17-UD-A-12-3-118	UD	A	12								3	118	VT	G			3	118	0	2	2		WR	17-UD-A-12-3-118-18
17	17-UD-A-12-34-157	UD	A	12								34	157	VT	P			34	157	4	4	8		WR	17-UD-A-12-34-157-20
17	17-UD-A-12-36-7	UD	A	12								36	7	VT	G			36	7	0	2	2		WR	17-UD-A-12-36-7-17
17	17-UD-A-13-2-157	UD	A	13	1	2	157	VT	POR		0.070	2	157	VT	P			2	157	54	0	54		WR	17-UD-A-13-2-157-1
17	17-UD-A-13-27-144	UD	A	13	4	27	144	VT	DENT			27	144	VT	D			27	144	8	8	32	64	PP	17-UD-A-13-27-144-2
17	17-UD-A-13-0-60	UD	A	13	5	0	60	VT	POR			0	60	VT	P			0	60	0	16	16		WR	17-UD-A-13-0-60-3

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Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report										EEL Probe Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift (in)	Center of Indication X (in)	Center of Indication Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair X (in)	Center of Repair Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)		
17	17-UD-A-13-10-60	UD A	A	13	7	10	60	VT	GOUGE		0.094	10	60	VT	G			10	60	2	0	2		WR	17-UD-A-13-10-60-4	
17	17-UD-A-13-18-38	UD A	A	13	9	18	38	VT	DENT		0.094	18	38	VT	D			18	38	8	8	32	64	PP	17-UD-A-13-18-38-5	
17	17-UD-A-13-57-155	UD A	A	13	10	57	154-157	VT	GOUGE		0.156	57	155	VT	G			57	155	6	0	19	28	PP	17-UD-A-13-57-155-6	
17	17-UD-A-13-57-61	UD A	A	13	11	57	61	VT	POR			57	61	VT	P			57	61	3	3	6		WR	17-UD-A-13-57-61-7	
17	17-UD-A-13-57-24	UD A	A	13	13	57	24	VT	POR			57	24	VT	P			57	24	3	3	6		WR	17-UD-A-13-57-24-8	
17	17-UD-A-13-57-8	UD A	A	13	14	57	8	VT	POR			57	8	VT	P			57	8	3	8	11		WR	17-UD-A-13-57-8-9	
17	17-UD-A-13-0-142	UD A	A	13								0	142	VT	P			0	142	0	4	4		WR	17-UD-A-13-0-142-11	
17	17-UD-A-13-10-48	UD A	A	13								10	48	VT	D			10	48	6	0	19	28	PP	17-UD-A-13-10-48-17	
17	17-UD-A-13-1-138	UD A	A	13								1	138	VT	D			1	138	6	6	24	36	TSPP	17-UD-A-13-1-138-13	
17	17-UD-A-13-13-23	UD A	A	13								13	23	VT	D			13	23	6	0	19	28	PP	17-UD-A-13-13-23-22	
17	17-UD-A-13-14-62	UD A	A	13								14	62	VT	D			14	62	6	0	19	28	PP	17-UD-A-13-14-62-16	
17	17-UD-A-13-15-44	UD A	A	13								15	44	VT	D			15	44	6	0	19	28	PP	17-UD-A-13-15-44-18	
17	17-UD-A-13-25-44	UD A	A	13								25	44	VT	D			25	44	6	0	19	28	PP	17-UD-A-13-25-44-19	
17	17-UD-A-13-54-156	UD A	A	13								54	156	VT	RI			54	156	2	0	2		WR	17-UD-A-13-54-156-10	
17	17-UD-A-13-58-126	UD A	A	13								58	126	VT	P			58	126	0	4	4		WR	17-UD-A-13-58-126-12	
17	17-UD-A-13-5-82	UD A	A	13								5	82	VT	D			5	82	6	6	24	36	TSPP	17-UD-A-13-5-82-14	
17	17-UD-A-13-7-54	UD A	A	13								7	54	VT	D			7	54	6	0	19	28	PP	17-UD-A-13-7-54-15	
17	17-UD-A-13-8-27	UD A	A	13								8	27	VT	D			8	27	6	0	19	28	PP	17-UD-A-13-8-27-21	
17	17-UD-A-13-8-34	UD A	A	13								8	34	VT	D			8	34	8	8	32	64	PP	17-UD-A-13-8-34-20	
17	17-UD-A-14-0-157	UD A	A	14	1	0	157	VT	POR			0	157	VT	P			0	157	28	0	28		WR	17-UD-A-14-0-157-1	
17	17-UD-A-14-0-119	UD A	A	14	3	0	119	VT	POR			0	119	VT	P			0	119	0	34	34		WR	17-UD-A-14-0-119-2	
17	17-UD-A-14-2-123	UD A	A	14	4	2	123	VT	TC			2	123	VT	TS			2	123	6	6	24	36	TSPP	17-UD-A-14-2-123-3	
17	17-UD-A-14-1-109	UD A	A	14	5	1	109	VT	TC			1	109	VT	UC			1	109	2	0	2		WR	17-UD-A-14-1-109-4	
17	17-UD-A-14-0-2	UD A	A	14	9	0	2	VT	POR			0	2	VT	P			0	2	0	4	4		WR	17-UD-A-14-0-2-5	
17	17-UD-A-14-13-0	UD A	A	14	10	13	0	VT	POR			13	0	VT	P			13	0	4	0	4		WR	17-UD-A-14-13-0-6	
17	17-UD-A-14-28-0	UD A	A	14	11	28	0	VT	POR			28	0	VT	P			28	0	4	0	4		WR	17-UD-A-14-28-0-7	
17	17-UD-A-14-50-120	UD A	A	14	12	50	120	VT	GOUGE			50	120	VT	G			50	120	2	0	2		WR	17-UD-A-14-50-120-8	
17	17-UD-A-14-50-12	UD A	A	14	13	50	12	VT	GOUGE			50	12	VT	G			50	12	6	0	19	28	PP	17-UD-A-14-50-12-9	
17	17-UD-A-14-55-0	UD A	A	14	14	55	0	VT	Dent			55	0	VT	D			55	0	4	0	4		WR	17-UD-A-14-55-0-10	
17	17-UD-A-14-53-17	UD A	A	14								53	17	VT	D			53	17	8	8	32	64	PP	17-UD-A-14-53-17-12	
17	17-UD-A-14-59-22	UD A	A	14								59	22	VT	LOF			59	22	3	3	6		WR	17-UD-A-14-59-22-11	
17	17-UD-A-14-9-144	UD A	A	14								9	144	VT	D			9	144	6	0	19	28	PP	17-UD-A-14-9-144-13	
17	17-UD-A-15-0-157	UD A	A	15	1	0	157	VT	POR			0	157	VT	P			0	157	2	0	2		WR	17-UD-A-15-0-157-1	
17	17-UD-A-15-8-157	UD A	A	15	2	8	157	VT	POR			8	157	VT	P			8	157	16	0	16		WR	17-UD-A-15-8-157-2	
17	17-UD-A-15-2-104	UD A	A	15	3	2	104	VT	DENT		0.094	2	104	VT	D			2	104	6	6	24	36	TSPP	17-UD-A-15-2-104-3	
17	17-UD-A-15-0-50	UD A	A	15	4	0	50	VT	POR			0	50	VT	P			0	50	0	4	4		WR	17-UD-A-15-0-50-4	
17	17-UD-A-15-0-33	UD A	A	15	5	0	33	VT	POR			0	33	VT	P			0	33	0	8	8		WR	17-UD-A-15-0-33-5	
17	17-UD-A-15-0-23	UD A	A	15	7	0	23	VT	POR			0	23	VT	P			0	23	3	3	6		WR	17-UD-A-15-0-23-6	
17	17-UD-A-15-0-12	UD A	A	15	8	0	12	VT	POR			0	12	VT	P			0	12	0	4	4		WR	17-UD-A-15-0-12-7	
17	17-UD-A-15-37-7	UD A	A	15	9	37	7	VT	POR			37	7	VT	P			37	7	3	3	6		WR	17-UD-A-15-37-8	
17	17-UD-A-16-0-144	UD A	A	16	1	0	144	VT	POR			0	144	VT	P			0	144	0	12	12		WR	17-UD-A-16-0-144-1	
17	17-UD-A-16-21-156	UD A	A	16	2	21	156	VT	POR			21	156	VT	P			21	156	60	0	60		WR	17-UD-A-16-21-156-2	
17	17-UD-A-16-0-120	UD A	A	16	5	0	120	VT	POR			0	120	VT	P			0	120	0	7	7		WR	17-UD-A-16-0-120-3	
17	17-UD-A-16-58-80	UD A	A	16	6	58	80	VT	POR X2			58	80	VT	P			58	80	0	15	15		WR	17-UD-A-16-58-80-4	
17	17-UD-A-16-4-0	UD A	A	16	8	4	0	VT	POR			4	0	VT	P			4	0	4	0	4		WR	17-UD-A-16-4-0-5	
17	17-UD-A-16-19-0	UD A	A	16	9	19	0	VT	POR			19	0	VT	P			19	0	6	0	6		WR	17-UD-A-16-19-0-6	
17	17-UD-A-16-57-4	UD A	A	16	10	57	0	VT	POR			57	0	VT	P			57	0	4	0	8		WR	17-UD-A-16-57-4-7	
17	17-UD-A-16-8-17	UD A	A	16								8	17	VT	D			8	17	8	8	32	64	PP	17-UD-A-16-8-17-8	
17	17-UD-A-17-24-157	UD A	A	17	1	24	157	VT	POR X2			24	157	VT	P			24	157	48	0	48		WR	17-UD-A-17-24-157-1	
17	17-UD-A-17-8-80	UD A	A	17	2	8	80	UT	POR/BC		0.199	8	80	VT	P			8	80	10	0	10		WR	17-UD-A-17-8-80-2	
17	17-UD-A-17-0-2	UD A	A	17	4	0	0-4	VT	POR/UC		0.094	0	0-4	VT	P			0	0	2	0	8		WR	17-UD-A-17-0-2-3	
17	17-UD-A-17-2-71	UD A	A	17								2	71	VT	D			2	71	6	6	24	36	TSPP	17-UD-A-17-2-71-6	
17	17-UD-A-17-56-156	UD A	A	17								56	156	VT	LOF			56	156	4	4	8		WR	17-UD-A-17-56-156-4	
17	17-UD-A-17-56-92	UD A	A	17								56	92	VT	G			56	92	2	0	2		WR	17-UD-A-17-56-92-5	
17	17-UD-A-18-2-135	UD A	A	18	2	2	135	VT	POR			2	135	VT	P			2	135	6	6	24	36	TSPP	17-UD-A-18-2-135-1	
17	17-UD-A-18-35-108	UD A	A	18	4	35	108	VT	POR			35	108	VT	P			35	108	2	0	2		WR	17-UD-A-18-35-108-2	

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Number	TestTex Report							EEL Probe Up							Recommended Repairs						Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course		Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth (in)	Indication: X (in)	Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of X (in)	Center of Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	
17	17-UD-A-18-35-31	UD A	A	18	5	35	31	VT	POR			35	31	VT	P			35	31	62	0	62		WR	17-UD-A-18-35-31-3
17	17-UD-A-18-0-48	UD A	A	18	6	0	48	VT	POR			0	48	VT	P			0	48	0	6	6		WR	17-UD-A-18-0-48-4
17	17-UD-A-18-10-111	UD A	A	18								10	111	VT	G			10	111	2	0	2		WR	17-UD-A-18-10-111-6
17	17-UD-A-18-18-156	UD A	A	18								18	156	VT	P			18	156	36	0	36		WR	17-UD-A-18-18-156-7
17	17-UD-A-18-18-108	UD A	A	18								4	108	VT	D			4	108	8	8	32	64	PP	17-UD-A-18-18-108-5
17	17-UD-A-19-0-150	UD A	A	19	1	0	150	VT	POR			0	150	VT	P			0	150	0	4	4		WR	17-UD-A-19-0-150-1
17	17-UD-A-19-2-57	UD A	A	19	3	2	57	VT	POR			2	57	VT	P			2	57	6	0	6		WR	17-UD-A-19-2-57-2
17	17-UD-A-19-0-16	UD A	A	19	3	0	16	VT	POR X12			0	16	VT	P			0	16	0	31	31		WR	17-UD-A-19-0-16-3
17	17-UD-A-19-25-0	UD A	A	19	4	25	0	VT	POR			25	0	VT	P			25	0	0	4	4		WR	17-UD-A-19-25-0-4
17	17-UD-A-19-57-150	UD A	A	19	5	57	150	VT	POR			57	150	VT	P			57	150	0	4	4		WR	17-UD-A-19-57-150-5
17	17-UD-A-19-57-50	UD A	A	19	6	57	50	VT	POR			57	50	VT	P			57	50	0	6	6		WR	17-UD-A-19-57-50-6
17	17-UD-A-19-57-18	UD A	A	19	7	57	18	VT	POR			57	18	VT	P			57	18	10	10	40	100	TSPP	17-UD-A-19-57-18-7
17	17-UD-A-19-19-48	UD A	A	19	9	57	48	VT	POR			19	48	VT	P			19	48	4	0	4		WR	17-UD-A-19-19-48-8
17	17-UD-A-19-57	UD A	A	19	10	9	57	VT	POR			9	57	VT	P			9	57	3	3	6		WR	17-UD-A-19-57-9
17	17-UD-A-19-48-156	UD A	A	19								48	156	VT	P			48	156	0	2	2		WR	17-UD-A-19-48-156-10
17	17-UD-A-19-56-156	UD A	A	19								56	156	VT	P			56	156	0	2	2		WR	17-UD-A-19-56-156-11
17	17-UD-A-20-0-90	UD A	A	20	1	0	90	VT	POR			0	90	VT	P			0	90	28	0	28		WR	17-UD-A-20-0-90-1
17	17-UD-A-20-0-44	UD A	A	20	3	0	40	VT	POR X4			0	44	VT	P			0	44	0	58	58		WR	17-UD-A-20-0-44-2
17	17-UD-A-20-31-32	UD A	A	20	5	31	32	VT	DENT			31	32	VT	D			31	32	10	10	40	100	PP	17-UD-A-20-31-32-3
17	17-UD-A-20-57-84	UD A	A	20	6	57	84	VT	POR			57	84	VT	P			57	84	0	8	8		WR	17-UD-A-20-57-84-4
17	17-UD-A-20-57-6	UD A	A	20	7	57	6	VT	POR			57	6	VT	P			57	6	3	3	6		WR	17-UD-A-20-57-6-5
17	17-UD-A-20-0-156	UD A	A	20								0	156	VT	RI			0	156	4	4	8		WR	17-UD-A-20-0-156-6
17	17-UD-A-20-28-156	UD A	A	20								28	156	VT	P			28	156	56	0	56		WR	17-UD-A-20-28-156-7
17	17-UD-A-20-56-156	UD A	A	20								56	156	VT	RI			56	156	4	4	8		WR	17-UD-A-20-56-156-8
17	17-UD-A-21-12-157	UD A	A	21	2	12	157	VT	POR			12	157	VT	P			12	157	6	0	6		WR	17-UD-A-21-12-157-1
17	17-UD-A-21-28-157	UD A	A	21	3	28	157	VT	POR			28	157	VT	P			28	157	6	0	6		WR	17-UD-A-21-28-157-2
17	17-UD-A-21-34-157	UD A	A	21	4	34	157	VT	POR			34	157	VT	P			34	157	4	4	8		WR	17-UD-A-21-34-157-3
17	17-UD-A-21-0-108	UD A	A	21	6	0	108	VT	TC			0	108	VT	TS			0	108	6	6	24	36	TSPP	17-UD-A-21-0-108-4
17	17-UD-A-21-35-110	UD A	A	21	7	35	110	VT	TC			35	110	VT	TS			35	110	2	0	2		WR	17-UD-A-21-35-110-5
17	17-UD-A-21-0-61	UD A	A	21	8	0	61	VT	POR			0	61	VT	P			0	61	2	0	2		WR	17-UD-A-21-0-61-6
17	17-UD-A-21-35-59	UD A	A	21	9	35	59	VT	POR			35	59	VT	P			35	59	0	44	44		WR	17-UD-A-21-35-59-7
17	17-UD-A-21-0-36	UD A	A	21	10	0	36	VT	POR			0	36	VT	P			0	36	0	6	6		WR	17-UD-A-21-0-36-8
17	17-UD-A-21-12-48	UD A	A	21	11	12	48	VT	TC			12	48	VT	TS			12	48	2	0	2		WR	17-UD-A-21-12-48-9
17	17-UD-A-21-34-25	UD A	A	21								34	25	VT	G			34	25	2	0	2		WR	17-UD-A-21-34-25-11
17	17-UD-A-21-36-19	UD A	A	21								36	19	VT	P			36	19	0	4	4		WR	17-UD-A-21-36-19-12
17	17-UD-A-21-6-92	UD A	A	21								6	92	VT	D			6	92	6	0	19	28	PP	17-UD-A-21-6-92-10
17	17-UD-A-22-57-130	UD A	A	22	1	0	157	VT	POR			0	157	VT	P			0	157	60	0	60		WR	17-UD-A-22-57-130-2
17	17-UD-A-22-35-71	UD A	A	22	8	57	130	VT	POR			57	130	VT	P			57	130	0	10	10		WR	17-UD-A-22-35-71-3
17	17-UD-A-22-52-70	UD A	A	22	9	35	71	VT	TC			35	71	VT	TS			35	71	2	0	2		WR	17-UD-A-22-52-70-4
17	17-UD-A-22-0-6	UD A	A	22	10	52	70	VT	POR			52	70	VT	P			52	70	0	9	9		WR	17-UD-A-22-0-6-5
17	17-UD-A-22-0-76	UD A	A	22	11	0	0-9	VT	LF/POR			0	0	VT	LOF			0	0	6	0	12	12	WR	17-UD-A-22-0-76-6
17	17-UD-A-23-54-157	UD A	A	23	1	54	157	VT	UC			54	157	VT	P			54	157	4	4	8		WR	17-UD-A-23-54-157-1
17	17-UD-A-23-0-62	UD A	A	23	3	0	60	VT	POR			0	62	VT	UC			0	62	0	12	12		WR	17-UD-A-23-0-62-2
17	17-UD-A-23-0-4	UD A	A	23	4	0	0-3	VT	UC/POR			0	0	VT	UC			0	0	4	0	8		WR	17-UD-A-23-0-4-3
17	17-UD-A-23-34-3	UD A	A	23	5	54	0	VT	POR			34	3	VT	P			34	3	0	6	6		WR	17-UD-A-23-34-3-4
17	17-UD-A-23-0-156	UD A	A	23								0	156	VT	RI			0	156	2	2	4		WR	17-UD-A-23-0-156-5
17	17-UD-A-24-8-140	UD A	A	24	1	8	140	VT	POR X6			8	140	VT	P			8	140	0	24	24		WR	17-UD-A-24-8-140-1
17	17-UD-A-24-35-148	UD A	A	24	2	33	143	VT	POR			33	148	VT	P			33	148	0	20	20		WR	17-UD-A-24-35-148-2
17	17-UD-A-24-0-80	UD A	A	24	3	0	80	VT	POR			0	80	VT	P			0	80	0	4	4		WR	17-UD-A-24-0-80-3
17	17-UD-A-24-0-3	UD A	A	24	4	0	2	VT	POR			0	3	VT	P			0	3	0	6	6		WR	17-UD-A-24-0-3-4
17	17-UD-A-24-33-21	UD A	A	24	5	33	21	VT	POR			33	21	VT	P			36	21	0	10	10		WR	17-UD-A-24-33-21-5
17	17-UD-A-24-14-7	UD A	A	24	7	14	7	VT	POR X6			14	7	VT	P			14	7	3	4	14	12	PP	17-UD-A-24-14-7-6
17	17-UD-A-24-0-33	UD A	A	24	8	0	33	VT	POR			0	33	VT	P			0	33	0	4	4		WR	17-UD-A-24-0-33-7
17	17-UD-A-24-0-49	UD A	A	24								0	49	VT	RI			0	49	0	4	4		WR	17-UD-A-24-0-49-8
17	17-UD-A-25-18-157	UD A	A	25	4	0-4	157	VT	POR			18	157	VT	P			18	157	28	0	28		WR	17-UD-A-25-18-157-1

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report								EEL Probe Up						Recommended Repairs						Repair Number; May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Uplift or Topside Indication(in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	
17	17-UD-A-25-33-96	UD	A	25	5	33	96	VT	DENT		0.125	33	96	VT	D			33	96	8	8	32	64	PP	17-UD-A-25-33-96-2
17	17-UD-A-25-12-0	UD	A	25	6	12	0	VT	POR			12	0	VT	P			12	0	6	0	6		WR	17-UD-A-25-12-0-3
17	17-UD-A-25-57-128	UD	A	25	8	57	128	VT	POR			57	128	VT	P			57	128	0	6	6		WR	17-UD-A-25-57-128-4
17	17-UD-A-25-55-0	UD	A	25	9	55	0	VT	POR			55	0	VT	P			55	0	8	0	8		WR	17-UD-A-25-55-0-5
17	17-UD-A-25-57-3	UD	A	25	10	57	0.5	VT	POR			57	3	VT	P			57	3	0	6	6		WR	17-UD-A-25-57-3-6
17	17-UD-A-25-35-12	UD	A	25	11	35	12	VT	TC		0.094	35	12	VT	G			35	12	2	2	4		WR	17-UD-A-25-35-12-7
17	17-UD-A-25-20-140	UD	A	25								20	140	VT	P			20	140	6	0	19	28	PP	17-UD-A-25-20-140-8
17	17-UD-A-26-0-157	UD	A	26	1	0	157	VT	POR		0.094	0	157	VT	P			0	157	4	4	8		WR	17-UD-A-26-0-157-1
17	17-UD-A-26-0-60	UD	A	26	2	0	60	VT	GOUGE			0	60	VT	G			0	60	0	2	2		WR	17-UD-A-26-0-60-2
17	17-UD-A-26-0-44	UD	A	26	3	0	38	VT	POR			0	44	VT	P			0	44	0	16	16		WR	17-UD-A-26-0-44-3
17	17-UD-A-26-35-145	UD	A	26	4	35	145	VT	POR			35	145	VT	P			35	145	0	4	4		WR	17-UD-A-26-35-145-4
17	17-UD-A-26-43-10	UD	A	26	6	43	10	VT	DENT		0.219	43	10	VT	D			43	10	8	8	32	64	PP	17-UD-A-26-43-10-5
17	17-UD-A-26-56-26	UD	A	26	7	55	0.4	VT	LF/POR			56	26	VT	LOF			56	26	0	52	52		WR	17-UD-A-26-56-26-6
17	17-UD-A-26-0-132	UD	A	26								0	132	VT	RI			0	132	0	4	4		WR	17-UD-A-26-0-132-9
17	17-UD-A-26-0-4	UD	A	26								0	4	VT	RI			0	4	0	8	8		WR	17-UD-A-26-0-4-14
17	17-UD-A-26-20-156	UD	A	26								20	156	VT	RI			20	156	26	0	26		WR	17-UD-A-26-20-156-8
17	17-UD-A-26-40-101	UD	A	26								40	101	VT	D			40	101	6	0	19	28	PP	17-UD-A-26-40-101-12
17	17-UD-A-26-55-136	UD	A	26								55	136	VT	RI			55	136	3	3	6		WR	17-UD-A-26-55-136-10
17	17-UD-A-26-55-156	UD	A	26								55	156	VT	RI			55	156	4	4	8		WR	17-UD-A-26-55-156-7
17	17-UD-A-26-56-103	UD	A	26								56	103	VT	P			56	103	0	2	2		WR	17-UD-A-26-56-103-13
17	17-UD-A-26-56-122	UD	A	26								56	122	VT	RI			56	122	0	7	7		WR	17-UD-A-26-56-122-11
17	17-UD-A-27-17-157	UD	A	27	2	6	157	VT	POR			17	157	VT	P			17	157	34	0	34		WR	17-UD-A-27-17-157-1
17	17-UD-A-27-0-144	UD	A	27	3	0	144	VT	POR			0	144	VT	P			0	144	0	4	4		WR	17-UD-A-27-0-144-2
17	17-UD-A-27-134-30	UD	A	27	6	134	30	VT	DENT		0.125	134	30	VT	D			134	30	10	10	40	100	TSPP	17-UD-A-27-134-30-3
17	17-UD-A-27-12-80	UD	A	27	7	12	80	VT	GOUGE		0.094	12	80	VT	G			12	80	0	2	2		WR	17-UD-A-27-12-80-4
17	17-UD-A-27-0-4	UD	A	27	8	0	0.3	VT	LF/POR			0	4	VT	LOF			0	4	0	8	8		WR	17-UD-A-27-0-4-5
17	17-UD-A-27-36-18	UD	A	27	9	36	24	VT	POR			36	18	VT	P			36	18	0	24	24		WR	17-UD-A-27-36-18-6
17	17-UD-A-27-0-43	UD	A	27								0	43	VT	P			0	43	0	6	6		WR	17-UD-A-27-0-43-8
17	17-UD-A-27-36-67	UD	A	27								36	67	VT	P			36	67	0	12	12		WR	17-UD-A-27-36-67-9
17	17-UD-A-27-37-7	UD	A	27								37	7	VT	RI			37	7	3	3	6		WR	17-UD-A-27-37-7-7
17	17-UD-A-28-10-157	UD	A	28	1	2	157	VT	POR			10	157	VT	P			10	157	16	0	16		WR	17-UD-A-28-10-157-1
17	17-UD-A-28-19-157	UD	A	28	2	16-21	157	VT	POR			19	157	VT	P			19	157	6	6	12		WR	17-UD-A-28-19-157-2
17	17-UD-A-28-41-157	UD	A	28	3	41	157	VT	POR			41	157	VT	P			41	157	5	0	5		WR	17-UD-A-28-41-157-3
17	17-UD-A-28-14-105	UD	A	28	4	14	105	VT	GOUGE		0.094	14	105	VT	D			14	105	6	0	19	28	PP	17-UD-A-28-14-105-4
17	17-UD-A-28-55-6	UD	A	28	6	55	1.5	VT	POR/UC		0.094	55	6	VT	P			55	6	3	3	6		WR	17-UD-A-28-55-6-5
17	17-UD-A-28-0-23	UD	A	28	8	0	22	VT	POR			0	23	VT	P			0	23	0	16	16		WR	17-UD-A-28-0-23-6
17	17-UD-A-28-0-49	UD	A	28								0	49	VT	P			0	49	0	8	8		WR	17-UD-A-28-0-49-12
17	17-UD-A-28-26-102	UD	A	28								26	102	VT	LOF			26	102	0	2	2		WR	17-UD-A-28-26-102-10
17	17-UD-A-28-56-36	UD	A	28								56	36	VT	P			56	36	0	4	4		WR	17-UD-A-28-56-36-11
17	17-UD-A-28-59-132	UD	A	28								59	132	VT	P			59	132	0	11	11		WR	17-UD-A-28-59-132-9
17	17-UD-A-28-59-143	UD	A	28								59	143	VT	RI			59	143	0	5	5		WR	17-UD-A-28-59-143-8
17	17-UD-A-28-59-156	UD	A	28								59	156	VT	RI			59	156	4	4	8		WR	17-UD-A-28-59-156-7
17	17-UD-A-29-16-156	UD	A	29	2	36-46	157	VT	POR X3			16	156	VT	RI			16	156	13	0	13		WR	17-UD-A-29-16-156-1
17	17-UD-A-29-40-156	UD	A	29	4	0	140	VT	POR			40	156	VT	RI			44	156	17	0	17		WR	17-UD-A-29-40-156-2
17	17-UD-A-29-0-140	UD	A	29	6	53	116	VT	GOUGE		0.094	0	140	VT	RI			0	137	4	18	22		WR	17-UD-A-29-0-137-3
17	17-UD-A-29-53-116	UD	A	29	8	50	46	VT	DENT		0.060	53	116	VT	G			53	116	0	4	4		WR	17-UD-A-29-53-116-4
17	17-UD-A-29-50-46	UD	A	29	10	0	36	VT	POR			50	46	VT	D			50	46	6	0	19	28	PP	17-UD-A-29-50-46-5
17	17-UD-A-29-0-31	UD	A	29	11	0	8	VT	POR			0	31	VT	RI			0	31	0	7	7		WR	17-UD-A-29-0-31-6
17	17-UD-A-29-0-10	UD	A	29								0	10	VT	RI			0	10	0	13	13		WR	17-UD-A-29-0-10-7
17	17-UD-A-29-39-24	UD	A	29	13	39	24	VT	POR			39	24	VT	RI			39	24	10	10	20		WR	17-UD-A-29-39-24-8
17	17-UD-A-29-56-27	UD	A	29	14	55	30	VT	POR			56	27	VT	RI			56	27	0	45	45		WR	17-UD-A-29-56-27-9
17	17-UD-A-29-53-0	UD	A	29	15	55	0	VT	POR			53	0	VT	P			53	0	4	0	4		WR	17-UD-A-29-53-0-10
17	17-UD-A-29-0-114	UD	A	29								114	0	VT	P			0	114	0	4	4		WR	17-UD-A-29-0-114-13
17	17-UD-A-29-0-156	UD	A	29								156	0	VT	UC			0	156	9	1	10		WR	17-UD-A-29-0-156-11
17	17-UD-A-29-0-60	UD	A	29								60	0	VT	RI			0	60	0	4	4		WR	17-UD-A-29-0-60-15
17	17-UD-A-29-0-84	UD	A	29								84	0	VT	RI			0	84	0	4	4		WR	17-UD-A-29-0-84-14

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report								EEL Probe Up						Recommended Repairs						Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex ID	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	
17	17-UD-A-29-133-29	UD	A	29										VT	LOF			133	29	8	0	8		WR	17-UD-A-29-133-29-12
17	17-UD-A-30-1-157	UD	A	30	1		157	VT	POR			1	157	VT	LOF			8	156	16	0	16		WR	17-UD-A-30-8-156-1
17	17-UD-A-30-34-100	UD	A	30	4	34	100	VT	POR			34	100	VT	LOF			34	100	9	0	9		WR	17-UD-A-30-34-100-3
17	17-UD-A-30-34-58	UD	A	30	5	34	58	VT	POR			34	58	VT	RI			34	58	0	8	8		WR	17-UD-A-30-34-58-4
17	17-UD-A-30-8-0	UD	A	30	7	8	0	VT	POR			8	0	VT	RI			8	0	4	0	4		WR	17-UD-A-30-8-0-5
17	17-UD-A-30-32-0	UD	A	30	8	31	0	VT	POR			32	0	VT	RI			32	0	9	0	9		WR	17-UD-A-30-32-0-6
17	17-UD-A-30-35-3	UD	A	30	9	35	3	VT	POR			35	3	VT	LOF			37	6	9	0	9		WR	17-UD-A-30-37-6-7
17	17-UD-A-30-35-21	UD	A	30	11	35	35	VT	POR			35	21	VT	RI			35	21	0	33	33		WR	17-UD-A-30-35-21-8
17	17-UD-A-30-0-35	UD	A	30	12	0	35	VT	POR			0	35	VT	RI			0	26	0	36	36		WR	17-UD-A-30-0-26-9
17	17-UD-A-30-0-152	UD	A	30				VT				0	152	VT	UC			0	152	9	0	9		WR	17-UD-A-30-0-152-10
17	17-UD-A-30-34-156	UD	A	30				VT				34	156	VT	RI			34	156	20	16	36		WR	17-UD-A-30-34-156-11
17	17-UD-A-30-34-88	UD	A	30				VT				34	88	VT	RI			34	88	9	0	9		WR	17-UD-A-30-34-88-12
17	17-UD-A-31-0-137	UD	A	31	1	0	140	VT	POR			10	137	VT	RI			0	137	0	4	4		WR	17-UD-A-31-0-137-1
17	17-UD-A-31-10-151	UD	A	31	2	10	157	VT	POR		0.125	10	151	VT	LOF			30	156	60	0	60		WR	17-UD-A-31-30-156-2
17	17-UD-A-31-8-75	UD	A	31	6	8	75	W TC				8	75	VT	G			8	75	4	0	4		WR	17-UD-A-31-8-75-3
17	17-UD-A-31-0-8	UD	A	31	7	0	8	VT	POR			0	8	VT	P			0	19	0	23	23		WR	17-UD-A-31-0-19-4
17	17-UD-A-31-37-153	UD	A	31	10	37	153	VT	POR		0.125	37	153	VT	D			37	153	12	12	48	144	TSPP	17-UD-A-31-37-153-5
17	17-UD-A-31-55-157	UD	A	31	31	55	157	VT	DENT			55	157	VT	LOF			55	157	33	3	36		WR	17-UD-A-31-55-157-6
17	17-UD-A-31-35-109	UD	A	31				VT				35	109	VT	P			35	109	6	0	19	28	PP	17-UD-A-31-35-109-8
17	17-UD-A-31-58-141	UD	A	31				VT				58	141	VT	P			58	141	0	10	10		WR	17-UD-A-31-58-141-7
17	17-UD-A-31-58-83	UD	A	31				VT				58	83	VT	RI			58	83	0	4	4		WR	17-UD-A-31-58-83-9
17	17-UD-A-31-60-6	UD	A	31				VT				60	6	VT	LOF			60	6	9	0	9		WR	17-UD-A-31-60-6-10
17	17-UD-A-32-29-156	UD	A	32	1	25	157	VT	POR			29	156	VT	LOF			29	156	9	0	9		WR	17-UD-A-32-29-156-1
17	17-UD-A-32-55-134	UD	A	32	3	55	134	VT	POR			55	134	VT	RI			56	134	7	0	7		WR	17-UD-A-32-56-134-2
17	17-UD-A-32-50-10	UD	A	32	4	50	10	VT	GOUGE			54	11	VT	G			54	11	6	0	6		WR	17-UD-A-32-54-11-3
17	17-UD-A-32-55-22	UD	A	32	6	55	22	VT	GOUGE		0.094	55	22	VT	RI			59	23	0	4	4		WR	17-UD-A-32-59-23-4
17	17-UD-A-32-58-12	UD	A	32	7	55	12	VT	POR			58	12	VT	RI			59	17	0	4	4		WR	17-UD-A-32-59-17-5
17	17-UD-A-32-10-47	UD	A	32				VT				10	47	VT	G			10	47	0	4	4		WR	17-UD-A-32-10-47-8
17	17-UD-A-32-28-57	UD	A	32				VT				28	57	VT	G			28	57	0	4	4		WR	17-UD-A-32-28-57-7
17	17-UD-A-32-57-156	UD	A	32				VT				57	156	VT	UC			57	156	6	6	12		WR	17-UD-A-32-57-156-6
17	17-UD-A-33-33-157	UD	A	33	1	33	157	VT	LF/POR			33	157	VT	LOF			33	157	14	25	39		WR	17-UD-A-33-33-157-1
17	17-UD-A-33-0-138	UD	A	33	2	0	138	VT	POR			0	138	VT	LOF			0	138	0	11	11		WR	17-UD-A-33-0-138-2
17	17-UD-A-33-33-144	UD	A	33	3	33	144	VT	POR			33	144	VT	P			33	144	0	5	5		WR	17-UD-A-33-33-144-3
17	17-UD-A-33-6-120	UD	A	33	4	6	120	VT	DENT			33	120	VT	D			6	120	10	10	40	100	TSPP	17-UD-A-33-6-120-4
17	17-UD-A-33-14-55	UD	A	33	5	14	55	VT	GOUGE		0.094	14	55	VT	G			14	55	4	0	4		WR	17-UD-A-33-14-55-5
17	17-UD-A-33-0-8	UD	A	33	6	0	8	VT	UC		0.090	0	8	VT	UC			0	8	9	6	15		WR	17-UD-A-33-0-8-6
17	17-UD-A-34-48-84	UD	A	34	1	48	84	VT	BC			48	84	VT	LOF			48	84	8	0	8		WR	17-UD-A-34-48-84-1
17	17-UD-A-34-57-84	UD	A	34	2	57	84	VT	LF			57	84	VT	LOF			57	84	9	8	17		WR	17-UD-A-34-57-84-2
17	17-UD-A-34-0-53	UD	A	34	3	0	53	VT	POR			0	53	VT	RI			0	53	0	4	4		WR	17-UD-A-34-0-53-3
17	17-UD-A-34-57-60	UD	A	34	4	57	60	VT	POR			57	60	VT	P			57	60	0	7	7		WR	17-UD-A-34-57-60-4
17	17-UD-A-34-0-62	UD	A	34	5	0	0	VT	POR			0	62	VT	LOF			0	62	9	6	15		WR	17-UD-A-34-0-62-5
17	17-UD-A-34-23-34	UD	A	34	6	23	34	VT	DENT			23	34	VT	D			23	34	8	8	32	64	PP	17-UD-A-34-23-34-6
17	17-UD-A-34-44-0	UD	A	34	7	44	0	VT	POR			44	0	VT	LOF			44	0	4	0	4		WR	17-UD-A-34-44-0-7
17	17-UD-A-34-57-0	UD	A	34	8	57	0	VT	POR			57	0	VT	LOF			57	0	9	6	15		WR	17-UD-A-34-57-0-8
17	17-UD-A-34-30-156	UD	A	34				VT				30	156	VT	LOF			30	156	4	0	4		WR	17-UD-A-34-30-156-12
17	17-UD-A-34-43-156	UD	A	34				VT				43	156	VT	LOF			43	156	4	0	4		WR	17-UD-A-34-43-156-11
17	17-UD-A-34-44-72	UD	A	34				VT				44	72	VT	G			44	72	0	2	2		WR	17-UD-A-34-44-72-14
17	17-UD-A-34-57-156	UD	A	34				VT				57	156	VT	LOF			57	156	7	0	7		WR	17-UD-A-34-57-156-10
17	17-UD-A-34-59-126	UD	A	34				VT				59	126	VT	G			59	126	2	0	2		WR	17-UD-A-34-59-126-13
17	17-UD-A-34-60-147	UD	A	34				VT				60	147	VT	G			60	147	2	0	2		WR	17-UD-A-34-60-147-9
17	17-UD-A-35-2-157	UD	A	35	1	0	157	VT	POR			2	157	VT	P			2	157	6	0	6		WR	17-UD-A-35-2-157-1
17	17-UD-A-35-36-150	UD	A	35	2	36	150	VT	GOUGE		0.125	36	150	VT	G			36	150	0	5	5		WR	17-UD-A-35-36-150-2
17	17-UD-A-35-0-87	UD	A	35	3	0	87	VT	POR			0	87	VT	P			0	87	8	8	16		WR	17-UD-A-35-0-87-3
17	17-UD-A-35-12-72	UD	A	35	4	12	72	VT	OR/GOUGE			12	72	VT	G			12	72	0	6	6		WR	17-UD-A-35-12-72-4
17	17-UD-A-35-0-2	UD	A	35	5	0	0	VT	POR			0	2	VT	P			0	2	8	4	12		WR	17-UD-A-35-0-2-5
17	17-UD-A-35-0-118	UD	A	35				VT				0	118	VT	UC			0	118	4	2	6		WR	17-UD-A-35-0-118-7

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report							EEL Probe Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications			
		Location in Tank	Shell Course	Plate Number	TestTex ID on Plate	X (in)	Coordinate Y (in)	Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside Indication(in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)		Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	
17	17-UD-A-35-0-66	UD	A	35									0	66	VT	LOF			0	66	0	5	5			17-UD-A-35-0-66-10	
17	17-UD-A-35-42-58	UD	A	35									42	58	VT	LOF			42	58	0	6	6			17-UD-A-35-42-58-9	
17	17-UD-A-35-43-138	UD	A	35									43	138	VT	IF			43	138	8	0	8			17-UD-A-35-43-138-8	
17	17-UD-A-35-57-156	UD	A	35									57	156	VT	P			57	156	0	4	4			17-UD-A-35-57-156-6	
17	17-UD-A-36-34-147	UD	A	36	1		34	147		VT	POR				34	147	VT	RI		34	147	0	4	4			17-UD-A-36-34-147-1
17	17-UD-A-36-36-25	UD	A	36	2		36	25		VT	UC		0.110		36	25	VT	G		36	25	0	6	6			17-UD-A-36-36-25-2
17	17-UD-A-36-36-8	UD	A	36	3		36	8		VT	POR				36	8	VT	P		36	8	4	8	12			17-UD-A-36-36-8-3
17	17-UD-A-36-0-100	UD	A	36	4		1	100		VT	POR				0	100	VT	RI		0	100	0	4	4			17-UD-A-36-0-100-4
17	17-UD-A-36-18-44	UD	A	36									18	44	VT	G			18	44	0	4	4			17-UD-A-36-18-44-7	
17	17-UD-A-36-35-156	UD	A	36									35	156	VT	LOF			35	156	6	0	6			17-UD-A-36-35-156-5	
17	17-UD-A-36-5-107	UD	A	36									5	107	VT	G			5	107	0	2	2			17-UD-A-36-5-107-6	
17	17-UD-A-37-59-140	UD	A	37	1		59	139-141		VT	POR X3				59	140	VT	D		58	138	0	14	14			17-UD-A-37-58-138-1
17	17-UD-A-37-49-42	UD	A	37	2		49	42		VT	DENT		0.150		49	42	VT	RI		49	42	8	8	32	64		17-UD-A-37-49-42-2
17	17-UD-A-37-50-60	UD	A	37	3		50	60		VT	GOUGE		0.125		50	60	VT	G		50	60	12	12	48	144		17-UD-A-37-50-60-3
17	17-UD-A-37-0-108	UD	A	37									0	108	VT	RI			0	108	0	4	4			17-UD-A-37-0-108-8	
17	17-UD-A-37-0-19	UD	A	37									0	19	VT	RI			0	19	0	4	4			17-UD-A-37-0-19-13	
17	17-UD-A-37-11-56	UD	A	37									11	56	VT	G			11	56	4	0	4			17-UD-A-37-11-56-10	
17	17-UD-A-37-13-156	UD	A	37									13	156	VT	RI			13	156	2	0	2			17-UD-A-37-13-156-7	
17	17-UD-A-37-2-72	UD	A	37									2	72	VT	G			2	72	0	2	2			17-UD-A-37-2-72-9	
17	17-UD-A-37-39-156	UD	A	37									39	156	VT	RI			39	156	38	0	38			17-UD-A-37-39-156-4	
17	17-UD-A-37-58-156	UD	A	37									58	156	VT	LOF			58	156	8	0	8			17-UD-A-37-58-156-5	
17	17-UD-A-37-59-15	UD	A	37									59	15	VT	RI			59	15	0	4	4			17-UD-A-37-59-15-12	
17	17-UD-A-37-60-6	UD	A	37									60	6	VT	LOF			60	6	12	8	20			17-UD-A-37-60-6-11	
17	17-UD-A-38-57-1	UD	A	38	2		55-60	0-3		UT	BC	0.188			57	1	PAUT	BC		56	9	32	18	100	576		17-UD-A-38-56-9-1
17	17-UD-A-38-57-129	UD	A	38	5		57	129		VT	POR		0.090		57	129	VT	P		57	129	0	4	4			17-UD-A-38-56-128-5
17	17-UD-A-38-44-155	UD	A	38	6		44	155		VT	UC		0.250		44	155	VT	LOF		29	156	58	0	58			17-UD-A-38-29-156-2
17	17-UD-A-38-0-139	UD	A	38	12		1	136-144		VT	TC				0	139	VT	RI		0	139	0	6	6			17-UD-A-38-0-139-2
17	17-UD-A-38-0-123	UD	A	38									0	123	VT	RI			0	123	0	4	4			17-UD-A-38-0-123-4	
17	17-UD-A-38-27-76	UD	A	38									27	76	VT	G			27	76	2	2	4			17-UD-A-38-27-76-7	
17	17-UD-A-38-56-115	UD	A	38									56	115	VT	RI			56	115	0	10	10			17-UD-A-38-56-115-6	
17	17-UD-A-38-57-36	UD	A	38									57	36	VT	P			57	36	0	5	5			17-UD-A-38-57-36-8	
17	17-UD-A-38-58-156	UD	A	38									58	156	VT	LOF			58	156	24	24	48			17-UD-A-38-58-156-3	
17	17-UD-A-39-2-131	UD	A	39	1		1-3	132		VT	TC		0.090		2	131	VT	G		2	131	4	0	4			17-UD-A-39-2-131-1
17	17-UD-A-39-0-117	UD	A	39	2		0	117		VT	POR				0	117	VT	RI		0	116	0	12	12			17-UD-A-39-0-116-2
17	17-UD-A-40-36-18	UD	A	40	2		36	18		VT	GOUGE		0.100		36	18	VT	G		36	18	0	3	3			17-UD-A-40-36-18-1
17	17-UD-A-40-0-153	UD	A	40	3		0	153		VT	POR				0	153	VT	LOF		0	153	9	2	11			17-UD-A-40-0-153-2
17	17-UD-A-40-0-114	UD	A	40									0	114	VT	P			0	114	0	4	4			17-UD-A-40-0-114-5	
17	17-UD-A-40-0-6	UD	A	40									0	6	VT	UC			0	6	9	0	9			17-UD-A-40-0-6-8	
17	17-UD-A-40-0-82	UD	A	40									0	82	VT	P			0	82	0	5	5			17-UD-A-40-0-82-6	
17	17-UD-A-40-0-90	UD	A	40									0	90	VT	P			0	90	0	4	4			17-UD-A-40-0-90-7	
17	17-UD-A-40-58-115	UD	A	40									58	115	VT	RI			58	115	0	4	4			17-UD-A-40-58-115-4	
17	17-UD-A-41-40-143	UD	A	41	1		40	143		VT	DENT		0.150		40	143	VT	D		40	143	16	16	64	256		17-UD-A-41-40-143-1
17	17-UD-A-41-58-132	UD	A	41	2		58	132		VT	TC		0.110		58	132	VT	G		58	132	0	2	2			17-UD-A-41-58-132-2
17	17-UD-A-41-0-7	UD	A	41	4		0	7		VT	POR				0	7	VT	P		0	5	17	9	26			17-UD-A-41-0-5-3
17	17-UD-A-41-9-18	UD	A	41	7		9	18		VT	POR				9	18	VT	P		10	19	10	10	20			17-UD-A-41-10-19-4
17	17-UD-A-41-0-156	UD	A	41									0	156	VT	IF			0	156	4	4	8			17-UD-A-41-0-156-5	
17	17-UD-A-41-0-15	UD	A	41									0	15	VT	P			0	15	0	13	13			17-UD-A-41-0-15-7	
17	17-UD-A-41-37-0	UD	A	41									37	0	VT	LOF			37	0	18	0	18			17-UD-A-41-37-0-8	
17	17-UD-A-41-38-156	UD	A	41									38	156	VT	G			38	156	21	0	21			17-UD-A-41-38-156-6	
17	17-UD-A-42-1-141	UD	A	42	1		0	130		VT	TC		0.090		1	141	VT	G		1	141	0	1	1			17-UD-A-42-1-141-1
17	17-UD-A-42-1-68	UD	A	42	4		0	68		VT	POR				1	68	VT	RI		1	68	0	6	6			17-UD-A-42-1-68-2
17	17-UD-A-42-0-56	UD	A	42	5		0	54-58		VT	POR				0	56	VT	RI		0	56	0	7	7			17-UD-A-42-0-56-3
17	17-UD-A-42-1-7	UD	A	42	6		0	7		VT	POR				1	7	VT	RI		0	5	9	22	31			17-UD-A-42-0-5-4
17	17-UD-A-42-0-21	UD	A	42									0	21	VT	RI			0	21	0	4	4			17-UD-A-42-0-21-7	
17	17-UD-A-42-0-47	UD	A	42									0	47	VT	RI			0	47	0	4	4			17-UD-A-42-0-47-9	

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report						EEL Probe Up						Recommended Repairs						Repair Number: May Apply to Multiple Indications				
		Location in Tank	Shell Course	Plate Number	TestTex ID on Plate	X Coordinate (in)	Y Coordinate (in)	Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside Indication (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)		Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	
17	17-UD-A42-0-97	UD	A	42									0	97	VT	LOF			0	97	0	4	4			WR	17-UD-A42-0-97-10
17	17-UD-A42-11-10	UD	A	42									11	10	VT	RI			11	10	12	0	12			WR	17-UD-A42-11-10-6
17	17-UD-A42-16-156	UD	A	42									16	156	VT	LOF			16	156	9	0	9			WR	17-UD-A42-16-156-12
17	17-UD-A42-19-0	UD	A	42									19	0	VT	LOF			19	0	38	0	38			WR	17-UD-A42-19-0-5
17	17-UD-A42-30-156	UD	A	42									30	156	VT	P			30	156	4	0	4			WR	17-UD-A42-30-156-13
17	17-UD-A42-34-136	UD	A	42									34	136	VT	RI			34	136	0	5	5			WR	17-UD-A42-34-136-11
17	17-UD-A42-34-154	UD	A	42									34	154	VT	RI			34	154	3	5	8			WR	17-UD-A42-34-154-14
17	17-UD-A42-35-30	UD	A	42									35	30	VT	RI			35	30	0	4	4			WR	17-UD-A42-35-30-8
17	17-UD-A43-55-0	UD	A	43	1	55	0		VT	POR			55	0	VT	LOF			45	0	30	0	30			WR	17-UD-A43-55-0-1
17	17-UD-A43-3-5	UD	A	43	2	0.7	0		VT	POR/LF			3	5	VT	RI			0	5	9	7	16			WR	17-UD-A43-0-5-2
17	17-UD-A43-35-102	UD	A	43	4	35	102		VT	DENT		.250 (?)	35	102	VT	D			35	102	10	10	40	100		PP	17-UD-A43-35-102-3
17	17-UD-A43-0-105	UD	A	43					VT				0	105	VT	RI			0	105	0	4	4			WR	17-UD-A43-0-105-9
17	17-UD-A43-0-122	UD	A	43					VT				0	122	VT	RI			0	122	0	4	4			WR	17-UD-A43-0-122-7
17	17-UD-A43-0-155	UD	A	43					VT				0	155	VT	P			0	155	0	3	3			WR	17-UD-A43-0-155-4
17	17-UD-A43-0-60	UD	A	43					VT				0	60	VT	P			0	60	0	4	4			WR	17-UD-A43-0-60-11
17	17-UD-A43-0-78	UD	A	43					VT				0	78	VT	RI			0	78	0	4	4			WR	17-UD-A43-0-78-12
17	17-UD-A43-0-87	UD	A	43					VT				0	87	VT	P			0	87	0	4	4			WR	17-UD-A43-0-87-8
17	17-UD-A43-40-166	UD	A	43					VT				40	166	VT	P			40	166	2	2	4			WR	17-UD-A43-40-166-6
17	17-UD-A43-58-97	UD	A	43					VT				58	97	VT	LOF			58	97	0	6	6			WR	17-UD-A43-58-97-10
17	17-UD-A43-6-156	UD	A	43					VT				6	156	VT	P			6	156	2	2	4			WR	17-UD-A43-6-156-5
17	17-UD-A44-38-23	UD	A	44	2	38	23		VT	G		0.110	38	23	VT	G			38	23	0	2	2			WR	17-UD-A44-38-23-1
17	17-UD-A44-25-128	UD	A	44	4	25	128		VT	DENT		0.080	25	128	VT	D			25	128	6	0	19	28		PP	17-UD-A44-25-128-2
17	17-UD-A44-45-131	UD	A	44	5	45	131		VT	TC		0.220	45	131	VT	G			45	131	6	0	19	28		PP	17-UD-A44-45-131-3
17	17-UD-A44-0-6	UD	A	44	6	0	6		VT	POR/LF			0	6	VT	P			0	6	9	6	15			WR	17-UD-A44-0-6-4
17	17-UD-A44-0-0	UD	A	44					VT				0	0	VT	RI			0	0	2	2	4			WR	17-UD-A44-0-0-9
17	17-UD-A44-0-144	UD	A	44					VT				0	144	VT	RI			0	144	0	8	8			WR	17-UD-A44-0-144-7
17	17-UD-A44-17-106	UD	A	44					VT				17	106	VT	RI			17	106	5	0	5			WR	17-UD-A44-17-106-5
17	17-UD-A44-52-156	UD	A	44					VT				52	156	VT	LOF			52	156	9	0	9			WR	17-UD-A44-52-156-6
17	17-UD-A44-56-89	UD	A	44					VT				56	89	VT	P			56	89	0	4	4			WR	17-UD-A44-56-89-8
17	17-UD-A44-57-41	UD	A	44					VT				57	41	VT	P			57	41	0	4	4			WR	17-UD-A44-57-41-12
17	17-UD-A44-58-14	UD	A	44					VT				58	14	VT	RI			58	14	0	11	11			WR	17-UD-A44-58-14-11
17	17-UD-A44-8-0	UD	A	44					VT				8	0	VT	LOF			8	0	4	0	4			WR	17-UD-A44-8-0-10
17	17-UD-A45-35-54	UD	A	45	2	35	54		VT	POR			35	54	VT	RI			35	54	0	9	9			WR	17-UD-A45-35-54-1
17	17-UD-A45-1-38	UD	A	45	4	0	38		VT	POR			1	38	VT	RI			0	37	0	7	7			WR	17-UD-A45-0-37-2
17	17-UD-A45-0-12	UD	A	45		6	0		VT	POR			0	12	VT	RI			0	12	0	6	6			WR	17-UD-A45-0-12-3
17	17-UD-A45-0-126	UD	A	45					VT				0	126	VT	RI			0	126	0	4	4			WR	17-UD-A45-0-126-6
17	17-UD-A45-0-15	UD	A	45					VT				0	15	VT	RI			0	15	0	6	6			WR	17-UD-A45-0-15-10
17	17-UD-A45-0-156	UD	A	45					VT				0	156	VT	LOF			0	156	2	2	4			WR	17-UD-A45-0-156-4
17	17-UD-A45-0-6	UD	A	45					VT				0	6	VT	IF			0	6	12	8	20			WR	17-UD-A45-0-6-9
17	17-UD-A45-27-156	UD	A	45					VT				27	156	VT	LOF			27	156	4	0	4			WR	17-UD-A45-27-156-5
17	17-UD-A45-34-103	UD	A	45					VT				34	103	VT	P			34	103	0	4	4			WR	17-UD-A45-34-103-8
17	17-UD-A45-35-20	UD	A	45					VT				35	20	VT	RI			35	20	0	24	24			WR	17-UD-A45-35-20-7
17	17-UD-A46-59-99	UD	A	46	2	59	99		VT	TC		0.100	59	99	VT	UC			59	99	0	4	4			WR	17-UD-A46-59-99-1
17	17-UD-A46-0-89	UD	A	46	3	0	89		VT	TC		0.090	0	89	VT	G			0	89	12	8	20			WR	17-UD-A46-0-89-2
17	17-UD-A46-0-0	UD	A	46					VT				0	0	VT	LOF			0	0	2	2	4			WR	17-UD-A46-0-0-7
17	17-UD-A46-0-65	UD	A	46					VT				0	65	VT	RI			0	65	0	4	4			WR	17-UD-A46-0-65-6
17	17-UD-A46-0-6	UD	A	46					VT				0	6	VT	IF			0	6	9	4	13			WR	17-UD-A46-0-6-8
17	17-UD-A46-0-78	UD	A	46					VT				0	78	VT	RI			0	78	0	4	4			WR	17-UD-A46-0-78-4
17	17-UD-A46-45-156	UD	A	46					VT				45	156	VT	RI			45	156	23	0	23			WR	17-UD-A46-45-156-3
17	17-UD-A46-50-0	UD	A	46					VT				50	0	VT	LOF			50	0	20	0	20			WR	17-UD-A46-50-0-9
17	17-UD-A46-59-72	UD	A	46					VT				59	72	VT	P			59	72	0	7	7			WR	17-UD-A46-59-72-5
17	17-UD-A47-57-79	UD	A	47	1	57	79		VT	POR		0.900	57	79	VT	P			57	79	0	14	14			WR	17-UD-A47-57-79-1
17	17-UD-A47-0-0	UD	A	47					VT				0	0	VT	LOF			0	0	2	2	4			WR	17-UD-A47-0-0-8
17	17-UD-A47-0-125	UD	A	47					VT				0	125	VT	RI			0	125	0	4	4			WR	17-UD-A47-0-125-3
17	17-UD-A47-0-150	UD	A	47					VT				0	150	VT	P			0	150	0	8	8			WR	17-UD-A47-0-150-2
17	17-UD-A47-0-5	UD	A	47					VT				0	5	VT	RI			0	5	9	8	17			WR	17-UD-A47-0-5-7

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report							EEL Prove Up						Recommended Repairs							Repair Number: May Apply to Multiple Indications			
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Length or Topside	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Repair: X (in)	Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)		Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	
17	17-UD-A-47-0-90	UD	A	47											0	90	VT	RI	0	90	9	0	9		WR	17-UD-A-47-0-90-4	
17	17-UD-A-47-26-0	UD	A	47											26	0	VT	LOF	26	0	4	0	4		WR	17-UD-A-47-26-0-9	
17	17-UD-A-47-37-47	UD	A	47											37	47	VT	G	37	47	10	10	40	100	PP	17-UD-A-47-37-47-5	
17	17-UD-A-47-45-0	UD	A	47											45	0	VT	LOF	45	0	4	0	4		WR	17-UD-A-47-45-0-10	
17	17-UD-A-47-57-54	UD	A	47											57	54	VT	RI	57	54	0	5	5		WR	17-UD-A-47-57-54-6	
17	17-UD-A-48-0-16	UD	A	48											0	16	VT	UC	0	16	0	5	5		WR	17-UD-A-48-0-16-5	
17	17-UD-A-48-0-31	UD	A	48											0	31	VT	RI	0	31	0	4	4		WR	17-UD-A-48-0-31-8	
17	17-UD-A-48-0-80	UD	A	48											0	80	VT	RI	0	80	0	4	4		WR	17-UD-A-48-0-80-3	
17	17-UD-A-48-10-21	UD	A	48											10	21	VT	LOF	10	21	9	8	17		WR	17-UD-A-48-10-21-6	
17	17-UD-A-48-13-156	UD	A	48											13	156	VT	LOF	13	156	9	6	15		WR	17-UD-A-48-13-156-2	
17	17-UD-A-48-34-75	UD	A	48											34	75	VT	RI	34	75	0	6	6		WR	17-UD-A-48-34-75-4	
17	17-UD-A-48-35-15	UD	A	48											35	15	VT	P	35	15	0	10	10		WR	17-UD-A-48-35-15-7	
17	17-UD-A-48-5-156	UD	A	48											5	156	VT	P	5	156	4	0	4		WR	17-UD-A-48-5-156-1	
17	17-UD-A-49-0-70	UD	A	49	1		0	70		VT	POR				0	70	VT	P	0	70	12	16	28		WR	17-UD-A-49-0-71-1	
17	17-UD-A-49-0-69	UD	A	49	3		0	8		VT	POR				0	69	VT	P	0	69	0	6	6		WR	17-UD-A-49-0-69-2	
17	17-UD-A-49-15-119	UD	A	49	7		15	119		VT	DENT	0.040			15	119	VT	D	15	119	8	8	32	64	PP	17-UD-A-49-15-119-3	
17	17-UD-A-49-58-133	UD	A	49	10		58	133		VT	TC	0.090			58	133	VT	UC	58	133	0	2	2		WR	17-UD-A-49-58-133-4	
17	17-UD-A-49-48-118	UD	A	49	11		48	118		VT	TC	0.100			48	118	VT	G	48	118	0	2	2		WR	17-UD-A-49-48-118-5	
17	17-UD-A-49-58-112	UD	A	49	12		58	112		VT	TC	0.150			58	112	VT	UC	58	112	0	4	4		WR	17-UD-A-49-58-112-6	
17	17-UD-A-49-56-99	UD	A	49	13		56	99		VT	POR				56	99	VT	P	56	99	4	0	4		WR	17-UD-A-49-56-99-7	
17	17-UD-A-49-29-2	UD	A	49	15		0-59	0-4		UT	BC	0.119			29	2	PAUT	BC	27	47	9	28	19	94	532	TSPP	17-UD-A-49-29-8
17	17-UD-A-49-0-13	UD	A	49						VT					0	13	VT	P	0	13	0	6	6		WR	17-UD-A-49-0-13-12	
17	17-UD-A-49-0-91	UD	A	49						VT					0	91	VT	RI	0	91	9	4	13		WR	17-UD-A-49-0-91-10	
17	17-UD-A-49-4-0	UD	A	49						VT					4	0	VT	UC	4	0	4	0	4		WR	17-UD-A-49-4-0-13	
17	17-UD-A-49-59-147	UD	A	49						VT					59	147	VT	RI	59	147	0	4	4		WR	17-UD-A-49-59-147-9	
17	17-UD-A-49-59-72	UD	A	49						VT					59	72	VT	LOF	59	72	0	4	4		WR	17-UD-A-49-59-72-11	
17	17-UD-A-50-13-146	UD	A	50	2		13	146		VT	DENT	0.260			13	146	VT	D	13	146	8	8	32	64	PP	17-UD-A-50-13-146-1	
17	17-UD-A-50-56-123	UD	A	50	3		56	123		VT	TC	0.110			56	123	VT	G	56	123	2	0	2		WR	17-UD-A-50-56-123-2	
17	17-UD-A-50-18-26	UD	A	50	5		18	26		VT	TC	0.210			18	26	VT	D	18	26	8	8	32	64	PP	17-UD-A-50-18-26-3	
17	17-UD-A-50-102	UD	A	50						VT					0	102	VT	RI	0	102	9	2	11		WR	17-UD-A-50-102-7	
17	17-UD-A-50-0-140	UD	A	50						VT					0	140	VT	RI	0	140	9	0	9		WR	17-UD-A-50-0-140-6	
17	17-UD-A-50-0-21	UD	A	50						VT					0	21	VT	RI	0	21	9	4	13		WR	17-UD-A-50-0-21-8	
17	17-UD-A-50-19-156	UD	A	50						VT					19	156	VT	P	19	156	16	0	16		WR	17-UD-A-50-19-156-4	
17	17-UD-A-50-47-156	UD	A	50						VT					47	156	VT	P	47	156	9	0	9		WR	17-UD-A-50-47-156-5	
17	17-UD-A-51-0-0	UD	A	51						VT					0	0	VT	RI	0	0	2	2	4		WR	17-UD-A-51-0-0-8	
17	17-UD-A-51-0-129	UD	A	51	1		0	129		VT	POR				0	129	VT	P	0	122	0	23	23		WR	17-UD-A-51-0-122-2	
17	17-UD-A-51-0-141	UD	A	51						VT					0	141	VT	RI	0	141	0	6	6		WR	17-UD-A-51-0-141-4	
17	17-UD-A-51-0-51	UD	A	51						VT					0	51	VT	G	0	51	2	0	2		WR	17-UD-A-51-0-51-6	
17	17-UD-A-51-0-5	UD	A	51						VT					0	5	VT	RI	0	5	9	8	17		WR	17-UD-A-51-0-5-9	
17	17-UD-A-51-0-84	UD	A	51						VT					0	84	VT	LOF	0	84	12	0	12		WR	17-UD-A-51-0-84-5	
17	17-UD-A-51-34-25	UD	A	51	4		34	25		VT	DENT	0.060			34	25	VT	P	34	25	6	6	24	36	TSPP	17-UD-A-51-34-25-1	
17	17-UD-A-51-35-22	UD	A	51						VT					35	22	VT	D	35	22	0	12	12		WR	17-UD-A-51-35-22-10	
17	17-UD-A-51-35-49	UD	A	51						VT					35	49	VT	P	35	49	0	17	17		WR	17-UD-A-51-35-49-7	
17	17-UD-A-51-7-46	UD	A	51	5		7	46		VT	TC	0.100			7	46	VT	RI	7	46	1	0	1		WR	17-UD-A-51-7-46-3	
17	17-UD-A-52-59-131	UD	A	52	1		59	134		VT	POR				59	131	VT	RI	59	131	0	7	7		WR	17-UD-A-52-59-131-1	
17	17-UD-A-52-41-114	UD	A	52	2		41	113-114		VT	DENT	0.300			41	114	VT	D	41	114	10	10	40	100	PP	17-UD-A-52-41-114-2	
17	17-UD-A-52-59-114	UD	A	52	3		59	109		VT	POR				59	114	VT	P	59	114	0	19	19		WR	17-UD-A-52-59-114-3	
17	17-UD-A-52-46-70	UD	A	52	5		46	70		VT	TC	0.150			46	70	VT	G	46	70	6	0	19	28	PP	17-UD-A-52-46-70-4	
17	17-UD-A-52-0-65	UD	A	52	6		0	65		VT	TC	0.110			0	65	VT	RI	0	65	0	3	3		WR	17-UD-A-52-0-65-5	
17	17-UD-A-52-37-64	UD	A	52	7		37	64		VT	TC	0.140			37	64	VT	G	37	64	1	0	1		WR	17-UD-A-52-37-64-6	
17	17-UD-A-52-29-44	UD	A	52	10		29	44		VT	DENT	0.180			29	44	VT	D	29	44	10	10	40	100	PP	17-UD-A-52-29-44-7	
17	17-UD-A-52-0-15	UD	A	52						VT					0	15	VT	LOF	0	15	9	0	9		WR	17-UD-A-52-0-15-14	
17	17-UD-A-52-0-18	UD	A	52						VT					0	18	VT	P	0	18	0	5	5		WR	17-UD-A-52-0-18-15	
17	17-UD-A-52-11-89	UD	A	52						VT					11	89	VT	G	11	89	0	5	5		WR	17-UD-A-52-11-89-12	
17	17-UD-A-52-50-156	UD	A	52						VT					50	156	VT	LOF	50	156	19	0	19		WR	17-UD-A-52-50-156-9	
17	17-UD-A-52-5-156	UD	A	52						VT					5	156	VT	LOF	5	156	10	0	10		WR	17-UD-A-52-5-156-8	

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report										EEL Prove Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications	
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	X (in)	Coordinate Y (in)	Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside Indication (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair type (Patch, Weld, Cap)		
17	17-UD-A-52-58-70	UD	A	52									58	70	VT	RI				58	70	0	8	8		WR	17-UD-A-52-58-70-13
17	17-UD-A-52-59-138	UD	A	52									59	138	VT	P				59	138	9	4	13		WR	17-UD-A-52-59-138-10
17	17-UD-A-52-9-83	UD	A	52									9	83	VT	P				9	83	4	0	4		WR	17-UD-A-52-9-83-11
17	17-UD-A-53-0-31	UD	A	53	2	0	31		VT	GOUGE	0.100										36	24	48	72		WR	17-UD-A-53-0-36-1
17	17-UD-A-53-0-49	UD	A	53	5	0	49		VT	TC	0.110										49	0	3	3		WR	17-UD-A-53-0-49-2
17	17-UD-A-53-5-94	UD	A	53	9	6-8	97		VT	POR/UC	0.090										94	18	0	18		WR	17-UD-A-53-5-94-3
17	17-UD-A-53-0-0	UD	A	53					VT				0	0	VT	RI				0	0	2	2	4		WR	17-UD-A-53-0-0-6
17	17-UD-A-53-0-104	UD	A	53					VT				0	104	VT	RI				0	104	0	2	2		WR	17-UD-A-53-0-104-5
17	17-UD-A-53-0-13	UD	A	53					VT				0	13	VT	P				0	13	0	4	4		WR	17-UD-A-53-0-13-9
17	17-UD-A-53-0-19	UD	A	53					VT				0	19	VT	RI				0	19	0	4	4		WR	17-UD-A-53-0-19-10
17	17-UD-A-53-0-4	UD	A	53					VT				0	4	VT	RI				0	4	0	4	4		WR	17-UD-A-53-0-4-7
17	17-UD-A-53-0-9	UD	A	53					VT				0	9	VT	LOF				0	9	0	4	4		WR	17-UD-A-53-0-9-8
17	17-UD-A-53-12-156	UD	A	53					VT				12	156	VT	P				12	156	4	0	4		WR	17-UD-A-53-12-156-4
17	17-UD-A-53-46-0	UD	A	53					VT				46	0	VT	D				46	0	3	0	3		WR	17-UD-A-53-46-0-11
17	17-UD-A-54-0-23	UD	A	54	2	0	29		VT	POR	0.100									0	31	0	10	10		WR	17-UD-A-54-0-31-1
17	17-UD-A-54-0-29	UD	A	54	3	20-21	79		VT	DENT	0.100									20	79	8	8	32	64	PP	17-UD-A-54-20-79-2
17	17-UD-A-54-0-50	UD	A	54	4	0	51		VT	POR/LF			0	50	VT	P				0	50	0	16	16		WR	17-UD-A-54-0-50-3
17	17-UD-A-54-0-73	UD	A	54	5	0	73		VT	UC	0.090									73	16	0	16		WR	17-UD-A-54-0-73-4	
17	17-UD-A-54-15-156	UD	A	54					VT				15	156	VT	P				15	156	4	0	4		WR	17-UD-A-54-15-156-5
17	17-UD-A-54-26-156	UD	A	54					VT	TC	0.090									26	156	10	0	10		WR	17-UD-A-54-26-156-6
17	17-UD-A-55-23-130	UD	A	55	1	23	130		VT	GOUGE	0.130									23	130	6	0	19	28	PP	17-UD-A-55-23-130-1
17	17-UD-A-55-18-104	UD	A	55	2	18	103-105		VT	DENT	0.130									19	104	10	10	40	100	PP	17-UD-A-55-19-104-2
17	17-UD-A-55-6-92	UD	A	55	4	6	92		VT	DENT	0.065									6	92	8	8	32	64	PP	17-UD-A-55-6-92-3
17	17-UD-A-55-24-75	UD	A	55	6	24	75		VT	DENT										25	74	10	10	40	100	PP	17-UD-A-55-25-74-4
17	17-UD-A-55-59-64	UD	A	55	9	59	64		VT	POR										59	64	0	4	4		WR	17-UD-A-55-59-64-5
17	17-UD-A-55-0-9	UD	A	55	10	0-2	7-10		VT	OR/GOUGE	0.090									0	9	12	0	12		WR	17-UD-A-55-0-9-6
17	17-UD-A-55-38-16	UD	A	55	11	38	16		VT	GOUGE	0.187									38	16	0	4	4		WR	17-UD-A-55-38-16-7
17	17-UD-A-55-22-0	UD	A	55	12	18-26	1		VT	TC										22	0	13	0	13		WR	17-UD-A-55-22-0-8
17	17-UD-A-55-0-153	UD	A	55					VT	P			0	153	VT	P				0	153	0	6	6		WR	17-UD-A-55-0-153-9
17	17-UD-A-55-12-156	UD	A	55					VT	P			12	156	VT	P				12	156	4	0	4		WR	17-UD-A-55-12-156-10
17	17-UD-A-55-35-156	UD	A	55					VT	UC			35	156	VT	UC				35	156	0	9	9		WR	17-UD-A-55-35-156-11
17	17-UD-A-55-44-156	UD	A	55					VT	RI			44	156	VT	RI				44	156	14	0	14		WR	17-UD-A-55-44-156-12
17	17-UD-A-55-51-156	UD	A	55					VT	RI			51	156	VT	RI				51	156	4	4	8		WR	17-UD-A-55-51-156-13
17	17-UD-A-55-58-44	UD	A	55					VT	P			58	44	VT	P				58	44	0	4	4		WR	17-UD-A-55-58-44-15
17	17-UD-A-55-59-134	UD	A	55					VT	P			59	134	VT	P				59	134	0	6	6		WR	17-UD-A-55-59-134-14
17	17-UD-A-56-43-150	UD	A	56	1	44-45	147		VT	TC	0.100									43	150	8	8	32	64	PP	17-UD-A-56-43-150-1
17	17-UD-A-56-50-127	UD	A	56	3	50	127		VT	TC	0.140									50	127	6	0	19	28	PP	17-UD-A-56-50-127-2
17	17-UD-A-56-3-114	UD	A	56	4	3	114		VT	TC	0.120									3	114	6	12	36	72	TSPP	17-UD-A-56-3-114-3
17	17-UD-A-56-40-75	UD	A	56	7	40-41	75-76		VT	DENT	0.100									39	76	6	0	19	28	PP	17-UD-A-56-39-76-4
17	17-UD-A-56-54-131	UD	A	56	8	51-58	131		VT	POR										56	133	0	7	7		WR	17-UD-A-56-56-133-5
17	17-UD-A-56-0-156	UD	A	56					VT				0	156	VT	RI				0	156	18	0	18		WR	17-UD-A-56-0-156-6
17	17-UD-A-56-0-7	UD	A	56					VT				0	7	VT	LOF				0	7	9	0	9		WR	17-UD-A-56-0-7-8
17	17-UD-A-56-27-156	UD	A	56					VT				27	156	VT	RI				27	156	8	0	8		WR	17-UD-A-56-27-156-7
17	17-UD-A-57-36-38	UD	A	57	4	36	38		VT	POR										36	38	0	4	4		WR	17-UD-A-57-36-38-1
17	17-UD-A-57-32-51	UD	A	57	5	32	51-52		VT	DENT	?									32	51	8	8	32	64	TSPP	17-UD-A-57-32-51-2
17	17-UD-A-57-35-69	UD	A	57	6	35	69		VT	POR										35	69	0	5	5		WR	17-UD-A-57-35-69-3
17	17-UD-A-57-7-82	UD	A	57	8	7-8	82		VT	DENT	0.040									7	82	6	0	19	28	PP	17-UD-A-57-7-82-4
17	17-UD-A-57-2-143	UD	A	57	9	2-3	143		VT	TC	0.100									2	143	6	6	24	36	TSPP	17-UD-A-57-2-143-5
17	17-UD-A-57-0-120	UD	A	57					VT				0	120	VT	LOF				0	120	12	0	12		WR	17-UD-A-57-0-120-9
17	17-UD-A-57-0-142	UD	A	57					VT				0	142	VT	RI				0	142	0	3	3		WR	17-UD-A-57-0-142-7
17	17-UD-A-57-0-15	UD	A	57					VT				0	15	VT	LOF				0	15	0	6	6		WR	17-UD-A-57-0-15-11
17	17-UD-A-57-22-97	UD	A	57					VT				22	97	VT	G				22	97	8	8	32	64	PP	17-UD-A-57-22-97-10
17	17-UD-A-57-26-156	UD	A	57					VT				26	156	VT	LOF				26	156	18	0	18		WR	17-UD-A-57-26-156-6
17	17-UD-A-57-33-144	UD	A	57					VT				33	144	VT	P				33	144	0	7	7		WR	17-UD-A-57-33-144-8
17	17-UD-A-58-11-108	UD	A	58	1	11	108		VT	DENT	0.100									12	112	12	12	48	144	PP	17-UD-A-58-12-112-1
17	17-UD-A-58-32-112	UD	A	58	3	32	112		VT	DENT	0.100									32	112	8	8	32	64	PP	17-UD-A-58-32-112-2

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report						EEL Probe Up						Recommended Repairs						Repair Number; May Apply to Multiple Indications				
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside Indication(in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)		Area of PP (sq in)	Repair Type (Patch, Weld, Cap)		
17	17-UD-A-58-32-83	UD	A	58	5	32	83-84	VT	POR			32	83	VT	P			33	86	8	0	8			WR	17-UD-A-58-33-86-3	
17	17-UD-A-58-16-59	UD	A	58	8	16	59	VT	TC	0.200		16	59	VT	D			16	59	8	8	32	64		PP	17-UD-A-58-16-59-4	
17	17-UD-A-58-14-37	UD	A	58	10	14	37	VT	TC	0.150		14	37	VT	D			14	37	6	0	19	28		PP	17-UD-A-58-14-37-5	
17	17-UD-A-58-0-7	UD	A	58	12	0	7	VT	LF	0.100		0	7	VT	IF			0	7	9	0	9			WR	17-UD-A-58-0-7-6	
17	17-UD-A-58-0-156	UD	A	58								0	156	VT	RI			0	156	4	4	8			WR	17-UD-A-58-0-156-7	
17	17-UD-A-58-0-17	UD	A	58								0	17	VT	P			0	17	0	4	4			WR	17-UD-A-58-0-17-13	
17	17-UD-A-58-0-34	UD	A	58								0	34	VT	LOF			0	34	0	2	2			WR	17-UD-A-58-0-34-11	
17	17-UD-A-58-13-10	UD	A	58								13	10	VT	LOF			13	10	4	0	4			WR	17-UD-A-58-13-10-12	
17	17-UD-A-58-19-156	UD	A	58								19	156	VT	G			19	156	7	0	7			WR	17-UD-A-58-19-156-8	
17	17-UD-A-58-3-88	UD	A	58								3	88	VT	RI			3	88	6	6	24	36		TSPP	17-UD-A-58-3-88-10	
17	17-UD-A-58-46-156	UD	A	58								46	156	VT	LOF			46	156	23	0	23			WR	17-UD-A-58-46-156-9	
17	17-UD-A-59-0-14	UD	A	59	1	0	14	VT	POR	0.150		0	14	VT	RI			0	14	0	4	4				WR	17-UD-A-59-0-14-1
17	17-UD-A-59-21-26	UD	A	59	2	21	26	VT	DENT	0.140		21	26	VT	D			21	26	10	10	40	100		PP	17-UD-A-59-21-26-2	
17	17-UD-A-59-28-144	UD	A	59	5	28	144	VT	POR			28	144	VT	LOF			28	144	6	6	12			WR	17-UD-A-59-28-144-3	
17	17-UD-A-59-0-103	UD	A	59	6	0-1	103	VT	UC	0.110		0	103	VT	UC			0	103	9	0	9			WR	17-UD-A-59-0-103-4	
17	17-UD-A-59-0-148	UD	A	59								0	148	VT	P			0	148	9	0	9			WR	17-UD-A-59-0-148-7	
17	17-UD-A-59-0-156	UD	A	59								0	156	VT	RI			0	156	9	0	9			WR	17-UD-A-59-0-156-5	
17	17-UD-A-59-21-35	UD	A	59								21	35	VT	G			21	35	0	2	2			WR	17-UD-A-59-21-35-9	
17	17-UD-A-59-29-145	UD	A	59								29	145	VT	LOF			29	145	12	0	12			WR	17-UD-A-59-29-145-11	
17	17-UD-A-59-36-0	UD	A	59								36	0	VT	UC			36	0	8	0	8			WR	17-UD-A-59-36-0-10	
17	17-UD-A-59-57-69	UD	A	59								57	69	VT	P			57	69	0	4	4			WR	17-UD-A-59-57-69-8	
17	17-UD-A-59-6-156	UD	A	59								6	156	VT	RI			6	156	4	0	4			WR	17-UD-A-59-6-156-6	
17	17-UD-A-60-24-129	UD	A	60	2	24	129	VT	DENT	0.110		24	129	VT	D			24	129	6	0	19	28		PP	17-UD-A-60-24-129-1	
17	17-UD-A-60-25-116	UD	A	60	3	25	116	VT	GOUGE	0.190		25	116	VT	G			25	116	6	0	19	28		WR	17-UD-A-60-25-116-2	
17	17-UD-A-60-30-88	UD	A	60	5	30	88	VT	GOUGE	0.095		30	88	VT	G			30	88	4	0	4			WR	17-UD-A-60-30-88-3	
17	17-UD-A-60-34-83	UD	A	60	6	34	83	VT	POR			34	83	VT	P			34	83	0	4	4			WR	17-UD-A-60-34-83-4	
17	17-UD-A-60-2-34	UD	A	60	10	2	34	VT	TC	0.150		2	34	VT	G			2	34	0	2	2			WR	17-UD-A-60-2-34-5	
17	17-UD-A-60-0-156	UD	A	60	11	0	156	VT	RI			0	156	VT	RI			0	156	21	9	30			WR	17-UD-A-60-0-156-6	
17	17-UD-A-60-34-156	UD	A	60	12	34	156	VT	RI			34	156	VT	RI			34	156	17	8	25			WR	17-UD-A-60-34-156-7	
17	17-UD-A-60-26-156	UD	A	60	13	26	156	VT	RI			26	156	VT	RI			26	156	4	0	4			WR	17-UD-A-60-26-156-8	
17	17-UD-A-60-0-20	UD	A	60								0	20	VT	RI			0	20	0	3	3			WR	17-UD-A-60-0-20-11	
17	17-UD-A-60-0-26	UD	A	60								0	26	VT	RI			0	26	0	3	3			WR	17-UD-A-60-0-26-12	
17	17-UD-A-60-0-60	UD	A	60								0	60	VT	P			0	60	0	4	4			WR	17-UD-A-60-0-60-13	
17	17-UD-A-60-1-129	UD	A	60								1	129	VT	G			1	129	1	0	1			WR	17-UD-A-60-1-129-9	
17	17-UD-A-60-34-40	UD	A	60								34	40	VT	LOF			34	40	0	4	4			WR	17-UD-A-60-34-40-10	
17	17-UD-A-61-49-148	UD	A	61	1	49	148	VT	TC	0.090		49	148	VT	G			49	148	0	2	2			WR	17-UD-A-61-49-148-1	
17	17-UD-A-61-53-135	UD	A	61	2	53	135	VT	GOUGE	0.170		53	135	VT	G			53	135	10	10	40	100		TSPP	17-UD-A-61-53-135-2	
17	17-UD-A-61-18-46	UD	A	61	5	18	46	VT	DENT	0.170		18	46	VT	D			18	46	8	10	36	80		PP	17-UD-A-61-18-46-3	
17	17-UD-A-61-44-76	UD	A	61	7	44	76	VT	TC	0.170		44	76	VT	G			44	76	1	0	1			WR	17-UD-A-61-44-76-4	
17	17-UD-A-61-43-72	UD	A	61	8	43	72	VT	TC	0.130		43	72	VT	G			43	72	1	0	1			WR	17-UD-A-61-43-72-5	
17	17-UD-A-61-49-76	UD	A	61	9	49	76	VT	TC	0.170		49	76	VT	G			49	76	1	0	1			WR	17-UD-A-61-49-76-6	
17	17-UD-A-61-35-33	UD	A	61	10	35	33	VT	DENT	0.070		35	33	VT	D			35	33	0	2	2			WR	17-UD-A-61-35-33-7	
17	17-UD-A-61-0-5	UD	A	61								0	5	VT	RI			0	5	9	0	9			WR	17-UD-A-61-0-5-14	
17	17-UD-A-61-30-85	UD	A	61								30	85	VT	RI			30	85	1	1	2			WR	17-UD-A-61-30-85-15	
17	17-UD-A-61-52-156	UD	A	61								52	156	VT	LOF			52	156	10	0	10			WR	17-UD-A-61-52-156-9	
17	17-UD-A-61-58-140	UD	A	61								58	140	VT	P			58	140	0	5	5			WR	17-UD-A-61-58-140-11	
17	17-UD-A-61-58-151	UD	A	61								58	151	VT	RI			58	151	0	6	6			WR	17-UD-A-61-58-151-10	
17	17-UD-A-61-58-2	UD	A	61								58	2	VT	G			58	2	1	6	7			WR	17-UD-A-61-58-2-13	
17	17-UD-A-61-58-69	UD	A	61								58	69	VT	RI			58	69	0	8	8			WR	17-UD-A-61-58-69-12	
17	17-UD-A-61-6-156	UD	A	61								6	156	VT	RI			6	156	13	2	15			WR	17-UD-A-61-6-156-8	
17	17-UD-A-62-0-33	UD	A	62	2	0	34	VT	POR			0	33	VT	P			0	33	0	6	6			WR	17-UD-A-62-0-33-1	
17	17-UD-A-62-0-27	UD	A	62	3	0	27	VT	POR			0	27	VT	RI			0	27	0	3	3			WR	17-UD-A-62-0-27-2	
17	17-UD-A-62-0-42	UD	A	62	5	0	42	VT	POR			0	42	VT	LOF			0	42	0	3	3			WR	17-UD-A-62-0-42-3	
17	17-UD-A-62-0-70	UD	A	62	7	0	67-69	VT	POR			0	70	VT	RI			0	70	0	6	6			WR	17-UD-A-62-0-70-4	
17	17-UD-A-62-0-78	UD	A	62	8	0	78	VT	POR			0	78	VT	RI			0	83	0	10	10			WR	17-UD-A-62-0-83-5	
17	17-UD-A-62-1-117	UD	A	62	10	3	118-122	VT	TC	0.150		1	117	VT	G			3	117	0	6	6			WR	17-UD-A-62-3-117-6	

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report							EEL Probe Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications			
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)		Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	
17	17-UD-A-62-0-144	UD	A	62	11	1	143	VT	TC					0	144	VT	RI		1	144	0	2	2		WR	17-UD-A-62-1-144-7
17	17-UD-A-62-0-152	UD	A	62	14	0	149-151	VT	POR					0	152	VT	P		0	152	0	8	8		WR	17-UD-A-62-0-152-8
17	17-UD-A-62-0-156	UD	A	62	15	0	152-155	VT	POR					0	156	VT	P		0	156	3	0	3		WR	17-UD-A-62-0-156-9
17	17-UD-A-62-0-106	UD	A	62										0	106	VT	LOF		0	106	0	2	2		WR	17-UD-A-62-0-106-17
17	17-UD-A-62-0-112	UD	A	62										0	112	VT	RI		0	112	0	6	6		WR	17-UD-A-62-0-112-15
17	17-UD-A-62-26-156	UD	A	62										26	156	VT	LOF		26	156	4	6	10		WR	17-UD-A-62-26-156-10
17	17-UD-A-62-28-156	UD	A	62										28	156	VT	P		28	156	4	0	4		WR	17-UD-A-62-28-156-11
17	17-UD-A-62-32-156	UD	A	62										32	156	VT	IF		32	156	2	0	2		WR	17-UD-A-62-32-156-12
17	17-UD-A-62-39-156	UD	A	62										39	156	VT	IF		39	156	0	4	4		WR	17-UD-A-62-39-156-13
17	17-UD-A-62-49-156	UD	A	62										49	156	VT	P		49	156	14	0	14		WR	17-UD-A-62-49-156-14
17	17-UD-A-62-53-0	UD	A	62										53	0	VT	LOF		53	0	10	0	10		WR	17-UD-A-62-53-0-19
17	17-UD-A-62-55-130	UD	A	62										55	130	VT	RI		55	130	0	4	4		WR	17-UD-A-62-55-130-16
17	17-UD-A-62-57-31	UD	A	62										57	31	VT	RI		57	31	0	4	4		WR	17-UD-A-62-57-31-18
17	17-UD-A-62-57-44	UD	A	62										57	44	VT	RI		57	44	0	4	4		WR	17-UD-A-62-57-44-18
17	17-UD-A-63-12-154	UD	A	63	2	12	154	VT	POR					12	154	VT	RI		15	156	26	0	26		WR	17-UD-A-63-15-156-1
17	17-UD-A-63-0-115	UD	A	63	3	0	115	VT	POR					0	115	VT	P		0	121	0	7	7		WR	17-UD-A-63-0-121-2
17	17-UD-A-63-35-70	UD	A	63	5	35	70	VT	POR					35	70	VT	RI		34	73	0	6	6		WR	17-UD-A-63-34-73-3
17	17-UD-A-63-36-53	UD	A	63	6	36	47-60	VT	POR X10					36	53	VT	RI		34	52	0	21	21		WR	17-UD-A-63-34-52-4
17	17-UD-A-63-0-5	UD	A	63	7	0	5	VT	POR/LF					0	5	VT	LOF		0	6	9	7	16		WR	17-UD-A-63-0-6-5
17	17-UD-A-63-0-149	UD	A	63										0	149	VT	LOF		0	149	9	0	9		WR	17-UD-A-63-0-149-7
17	17-UD-A-63-0-155	UD	A	63										0	155	VT	P		0	155	0	2	2		WR	17-UD-A-63-0-155-6
17	17-UD-A-63-30-156	UD	A	63										30	156	VT	LOF		30	156	10	4	14		WR	17-UD-A-63-30-156-8
17	17-UD-A-63-32-142	UD	A	63										32	142	VT	RI		32	142	0	4	4		WR	17-UD-A-63-32-142-10
17	17-UD-A-63-35-6	UD	A	63										35	6	VT	LOF		35	6	0	7	7		WR	17-UD-A-63-35-6-9
17	17-UD-A-64-2-153	UD	A	64	1	2	153	VT	GOUGE					2	153	VT	G		2	153	3	0	3		WR	17-UD-A-64-2-153-1
17	17-UD-A-64-0-79	UD	A	64	4	0	81	VT	POR					0	79	VT	RI		0	79	0	7	7		WR	17-UD-A-64-0-79-2
17	17-UD-A-64-59-34	UD	A	64	8	59	34	VT	POR					59	34	VT	RI		59	34	0	7	7		WR	17-UD-A-64-59-34-3
17	17-UD-A-64-52-156	UD	A	64										52	156	VT	LOF		52	156	13	0	13		WR	17-UD-A-64-52-156-4
17	17-UD-A-65-25-155	UD	A	65	1	25	155	VT	POR					25	155	VT	P		29	155	58	0	58		WR	17-UD-A-65-29-155-1
17	17-UD-A-65-3-122	UD	A	65	3	3	122	VT	TC	0.150				3	122	VT	G		3	122	0	2	2		WR	17-UD-A-65-3-122-2
17	17-UD-A-65-21-113	UD	A	65	4	21	113	VT	DENT	0.230				21	113	VT	D		21	113	18	14	64	252	PP	17-UD-A-65-21-113-3
17	17-UD-A-65-27-94	UD	A	65	5	27	94	VT	DENT	0.240				27	94	VT	D		29	93	22	20	84	440	PP	17-UD-A-65-29-93-4
17	17-UD-A-65-11-51	UD	A	65	7	11	51	VT	GOUGE	0.110				11	51	VT	D		11	51	8	8	32	64	PP	17-UD-A-65-11-51-5
17	17-UD-A-65-34-58	UD	A	65	8	34	58	VT	DENT	0.090				34	58	VT	D		39	54	27	27	108	729	PP	17-UD-A-65-39-54-6
17	17-UD-A-65-40-30	UD	A	65	11	40	30	VT	DENT	0.095				40	30	VT	D		40	30	10	18	56	180	PP	17-UD-A-65-40-30-7
17	17-UD-A-65-4-40	UD	A	65	12	4	40	VT	DENT	0.120				4	40	VT	D		4	40	6	6	24	36	TSPP	17-UD-A-65-4-40-8
17	17-UD-A-65-0-8	UD	A	65	13	0	8	VT	POR					0	8	VT	P		0	7	6	7	13		WR	17-UD-A-65-0-7-9
17	17-UD-A-65-0-156	UD	A	65										0	156	VT	RI		0	156	17	16	33		WR	17-UD-A-65-0-156-11
17	17-UD-A-65-0-59	UD	A	65										0	59	VT	LOF		0	59	0	4	4		WR	17-UD-A-65-0-59-10
17	17-UD-A-65-57-32	UD	A	65										57	32	VT	RI		57	32	0	4	4		WR	17-UD-A-65-57-32-12
17	17-UD-A-66-12-154	UD	A	66	1	12	154	VT	POR					12	154	VT	RI		12	154	3	3	6		WR	17-UD-A-66-12-154-1
17	17-UD-A-66-9-118	UD	A	66	2	9	118	VT	DENT	0.300				9	118	VT	D		9	118	8	8	32	64	PP	17-UD-A-66-9-118-2
17	17-UD-A-66-4-70	UD	A	66	4	4	70	VT	POR	0.170				4	70	VT	G		4	70	4	0	4		WR	17-UD-A-66-4-70-3
17	17-UD-A-66-31-79	UD	A	66	5	31	77-81	VT	GOUGE	0.180				31	79	VT	D		31	79	6	10	32	60	PP	17-UD-A-66-31-79-4
17	17-UD-A-66-0-5	UD	A	66	6	0	5	VT	POR					0	5	VT	P		0	5	0	5	5		WR	17-UD-A-66-0-5-5
17	17-UD-A-66-0-105	UD	A	66										0	105	VT	RI		0	105	3	0	3		WR	17-UD-A-66-0-105-10
17	17-UD-A-66-0-156	UD	A	66										0	156	VT	LOF		0	156	4	4	8		WR	17-UD-A-66-0-156-7
17	17-UD-A-66-0-80	UD	A	66										0	80	VT	P		0	80	0	4	4		WR	17-UD-A-66-0-80-11
17	17-UD-A-66-33-125	UD	A	66										33	125	VT	P		33	125	0	4	4		WR	17-UD-A-66-33-125-9
17	17-UD-A-66-34-11	UD	A	66										34	11	VT	G		34	11	4	0	4		WR	17-UD-A-66-34-11-8
17	17-UD-A-66-35-82	UD	A	66										35	82	VT	RI		35	82	0	4	4		WR	17-UD-A-66-35-82-6
17	17-UD-A-67-59-147	UD	A	67	1	59	147	VT	POR					59	147	VT	P		58	148	0	16	16		WR	17-UD-A-67-58-148-1
17	17-UD-A-67-17-118	UD	A	67	4	17	118	VT	TC	0.110				17	118	VT	G		17	118	0	5	5		WR	17-UD-A-67-17-118-2
17	17-UD-A-67-52-101	UD	A	67	5	52	101	VT	DENT	0.110				52	101	VT	D		53	100	12	12	48	144	TSPP	17-UD-A-67-53-100-3
17	17-UD-A-67-13-76	UD	A	67	7	13	76	VT	DENT	0.140				13	76	VT	D		13	76	10	10	40	100	PP	17-UD-A-67-13-76-4
17	17-UD-A-67-8-54	UD	A	67	8	8	54	VT	DENT	0.100				8	54	VT	D		8	54	7	7	28	49	PP	17-UD-A-67-8-54-5

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report								EEL Probe Up				Recommended Repairs							Repair Number: May Apply to Multiple Indications		
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift (in)	Center of Indication X (in)	Center of Indication Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair X (in)	Center of Repair Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)		Area of PP (sq in)	Repair Type
17	17-UD-A-67-46-50	UD	A	67	9	46	50	VT	DENT		0.140	46	50	VT	D			46	50	10	10	40	100	PP	17-UD-A-67-46-50-6
17	17-UD-A-67-25-27	UD	A	67	10	25	27	VT	DENT		0.140	25	27	VT	D			25	27	12	12	48	144	PP	17-UD-A-67-25-27-7
17	17-UD-A-67-59-80	UD	A	67	11	59	80	VT	POR			59	80	VT	RI			59	80	0	6	6		WR	17-UD-A-67-59-80-8
17	17-UD-A-67-59-60	UD	A	67	12	59	60	VT	POR			59	60	VT	P			57	57	0	12	12		WR	17-UD-A-67-57-57-9
17	17-UD-A-67-25-13	UD	A	67	14	25	13	VT	DENT			25	13	VT	D			25	13	6	0	19	28	PP	17-UD-A-67-25-13-10
17	17-UD-A-67-0-153	UD	A	67				VT				0	153	VT	RI			0	153	0	6	6		WR	17-UD-A-67-0-153-11
17	17-UD-A-67-0-57	UD	A	67				VT				0	57	VT	UC			0	57	0	5	5		WR	17-UD-A-67-0-57-15
17	17-UD-A-67-11-156	UD	A	67				VT				11	156	VT	LOF			11	156	7	0	7		WR	17-UD-A-67-11-156-12
17	17-UD-A-67-51-156	UD	A	67				VT				51	156	VT	LOF			51	156	4	0	4		WR	17-UD-A-67-51-156-13
17	17-UD-A-67-57-122	UD	A	67				VT				57	122	VT	RI			57	122	0	11	11		WR	17-UD-A-67-57-122-14
17	17-UD-A-67-58-16	UD	A	67				VT				58	16	VT	P			58	16	0	5	5		WR	17-UD-A-67-58-16-18
17	17-UD-A-67-60-4	UD	A	67				VT				60	4	VT	RI			60	4	0	7	7		WR	17-UD-A-67-60-4-17
17	17-UD-A-67-7-0	UD	A	67				VT				7	0	VT	UC			7	0	14	0	14		WR	17-UD-A-67-7-0-16
17	17-UD-A-68-35-50	UD	A	68	1	35	50	VT	GOUGE		0.150	35	50	VT	G			35	50	6	0	19	28	PP	17-UD-A-68-35-50-1
17	17-UD-A-68-0-72	UD	A	68	2	0	72	VT	POR			0	72	VT	RI			0	72	0	4	4		WR	17-UD-A-68-0-72-2
17	17-UD-A-68-0-57	UD	A	68	3	0	57	VT	POR			0	57	VT	RI			0	46	0	28	28		WR	17-UD-A-68-0-46-3
17	17-UD-A-68-0-136	UD	A	68				VT				0	136	VT	RI			0	136	0	9	9		WR	17-UD-A-68-0-136-6
17	17-UD-A-68-55-129	UD	A	68				VT				55	129	VT	RI			55	129	0	6	6		WR	17-UD-A-68-55-129-7
17	17-UD-A-68-55-141	UD	A	68				VT				55	141	VT	P			55	141	0	5	5		WR	17-UD-A-68-55-141-5
17	17-UD-A-68-55-153	UD	A	68				VT				55	153	VT	P			55	153	0	6	6		WR	17-UD-A-68-55-153-4
17	17-UD-A-68-55-79	UD	A	68				VT				55	79	VT	P			55	79	0	6	6		WR	17-UD-A-68-55-79-8
17	17-UD-A-69-21-132	UD	A	69	1	21	132	VT	TC		0.090	21	132	VT	D			21	132	3	0	3		WR	17-UD-A-69-21-132-1
17	17-UD-A-69-35-128	UD	A	69	2	35	128	VT	POR			35	128	VT	LOF			34	127	0	14	14		WR	17-UD-A-69-34-127-2
17	17-UD-A-69-35-107	UD	A	69	4	37	100-111	VT	UC			35	107	VT	UC			35	107	0	7	7		WR	17-UD-A-69-35-107-3
17	17-UD-A-69-20-116	UD	A	69	5	20	116	VT	DENT			20	116	VT	D			20	116	6	0	19	28	PP	17-UD-A-69-20-116-4
17	17-UD-A-69-8-97	UD	A	69	6	8	97	VT	TC			8	97	VT	P			8	97	12	10	44	120	PP	17-UD-A-69-8-97-5
17	17-UD-A-69-0-142	UD	A	69				VT				0	142	VT	P			0	142	0	4	4		WR	17-UD-A-69-0-142-7
17	17-UD-A-69-2-156	UD	A	69				VT				2	156	VT	RI			2	156	4	0	4		WR	17-UD-A-69-2-156-6
17	17-UD-A-69-34-97	UD	A	69				VT				34	97	VT	RI			34	97	0	4	4		WR	17-UD-A-69-34-97-8
17	17-UD-A-70-0-140	UD	A	70	1	0	140	VT	POR			0	140	VT	P			0	140	0	4	4		WR	17-UD-A-70-0-140-1
17	17-UD-A-70-39-148	UD	A	70	2	39	148	VT	TC		0.100	39	148	VT	UC			39	148	8	0	25	50	PP	17-UD-A-70-39-148-2
17	17-UD-A-70-58-138	UD	A	70	3	58	138	VT	POR			58	138	VT	RI			57	131	0	14	14		WR	17-UD-A-70-57-131-3
17	17-UD-A-70-29-112	UD	A	70	5	29	112	VT	TC		0.140	29	112	VT	UC			29	112	3	0	3		WR	17-UD-A-70-29-112-4
17	17-UD-A-70-34-42	UD	A	70	6	34	42	VT	GOUGE		0.100	34	42	VT	D			34	42	6	0	19	28	PP	17-UD-A-70-34-42-5
17	17-UD-A-70-0-32	UD	A	70				VT				0	32	VT	P			0	32	0	4	4		WR	17-UD-A-70-0-32-8
17	17-UD-A-70-18-149	UD	A	70				VT				18	149	VT	RI			18	149	8	8	32	64	PP	17-UD-A-70-18-149-7
17	17-UD-A-70-20-156	UD	A	70				VT				20	156	VT	RI			20	156	0	24	24		WR	17-UD-A-70-20-156-6
17	17-UD-A-70-54-0	UD	A	70				VT				54	0	VT	LOF			54	0	7	0	7		WR	17-UD-A-70-54-0-9
17	17-UD-A-70-57-26	UD	A	70				VT				57	26	VT	RI			57	26	0	4	4		WR	17-UD-A-70-57-26-11
17	17-UD-A-70-57-38	UD	A	70				VT				57	38	VT	P			57	38	0	7	7		WR	17-UD-A-70-57-38-10
17	17-UD-A-71-0-126	UD	A	71	1	0	120-132	VT	POR			0	126	VT	RI			0	126	0	15	15		WR	17-UD-A-71-0-126-1
17	17-UD-A-71-33-93	UD	A	71	2	33	93	VT	TC		0.125	33	93	VT	G			33	93	0	2	2		WR	17-UD-A-71-33-93-2
17	17-UD-A-71-0-156	UD	A	71				VT				0	156	VT	P			0	156	4	2	6		WR	17-UD-A-71-0-156-3
17	17-UD-A-71-13-156	UD	A	71				VT				13	156	VT	RI			13	156	3	0	3		WR	17-UD-A-71-13-156-4
17	17-UD-A-71-32-94	UD	A	71				VT				32	94	VT	G			32	94	2	0	2		WR	17-UD-A-71-32-94-10
17	17-UD-A-71-38-156	UD	A	71				VT				38	156	VT	LOF			38	156	4	0	4		WR	17-UD-A-71-38-156-5
17	17-UD-A-71-41-139	UD	A	71				VT				41	139	VT	G			41	139	3	0	3		WR	17-UD-A-71-41-139-9
17	17-UD-A-71-42-156	UD	A	71				VT				42	156	VT	RI			42	156	3	0	3		WR	17-UD-A-71-42-156-6
17	17-UD-A-71-54-156	UD	A	71				VT				54	156	VT	RI			54	156	6	0	6		WR	17-UD-A-71-54-156-8
17	17-UD-A-71-57-156	UD	A	71				VT				57	156	VT	RI			57	156	3	0	3		WR	17-UD-A-71-57-156-7
17	17-UD-A-72-5-138	UD	A	72	1	5	138	VT	DENT		0.100	5	138	VT	D			5	138	8	8	32	64	TSPP	17-UD-A-72-5-138-1
17	17-UD-A-72-11-103	UD	A	72	2	11	103	VT	DENT		0.120	11	103	VT	D			11	103	8	8	32	64	PP	17-UD-A-72-11-103-2
17	17-UD-A-72-0-98	UD	A	72	3	0	98	VT	POR			0	98	VT	P			0	98	0	4	4		WR	17-UD-A-72-0-98-3
17	17-UD-A-72-0-84	UD	A	72	4	0	84	VT	LF			0	84	VT	RI			0	84	0	7	7		WR	17-UD-A-72-0-84-4
17	17-UD-A-72-34-83	UD	A	72	5	34	83-84	VT	POR/LF			34	83	VT	RI			34	83	0	45	45		WR	17-UD-A-72-34-67-5
17	17-UD-A-72-0-123	UD	A	72				VT				0	123	VT	P			0	123	0	6	6		WR	17-UD-A-72-0-123-6

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report								EEL Probe Up						Recommended Repairs						Repair Number; May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	
17	17-UD-A-72-0-43	UD	A	72																					17-UD-A-72-0-43-7
17	17-ER-E4-1-0-10	ER	E4	1	1	0	9.5	VT	POR																17-ER-E4-1-0-10-1
17	17-ER-E4-1-105-23	ER	E4	1																					17-ER-E4-1-105-22-4
17	17-ER-E4-1-166-25	ER	E4	1																					17-ER-E4-1-166-25-5
17	17-ER-E4-1-35-12	ER	E4	1																					17-ER-E4-1-35-12-2
17	17-ER-E4-1-88-25	ER	E4	1																					17-ER-E4-1-88-25-3
17	17-ER-E4-2-122-15	ER	E4	2	1	122	15	VT	DENT		0.150														17-ER-E4-2-122-15-1
17	17-ER-E4-2-116-77	ER	E4	2		116	77	VT	UC		0.090														17-ER-E4-2-116-77-2
17	17-ER-E4-2-228-44	ER	E4	2	3	228	44	VT	DENT																17-ER-E4-2-228-44-3
17	17-ER-E4-2-145-25	ER	E4	2																					17-ER-E4-2-145-25-5
17	17-ER-E4-2-168-25	ER	E4	2																					17-ER-E4-2-168-25-6
17	17-ER-E4-2-186-0	ER	E4	2																					17-ER-E4-2-186-0-4
17	17-ER-E4-2-234-10	ER	E4	2																					17-ER-E4-2-234-10-7
17	17-ER-E4-3-0-25	ER	E4	3	1	0	25	VT	LF																17-ER-E4-3-0-25-1
17	17-ER-E4-3-0-0	ER	E4	3	2	0	0	VT	UC		0.150														17-ER-E4-3-0-0-2
17	17-ER-E4-3-128-2	ER	E4	3	3	110	1	VT	TC		0.110														17-ER-E4-3-128-2-3
17	17-ER-E4-3-160-0	ER	E4	3	4	160	0	VT	TC		0.250														17-ER-E4-3-160-0-4
17	17-ER-E4-3-212-12	ER	E4	3	5	212	12	VT	DENT		0.090														17-ER-E4-3-204-14-5
17	17-ER-E4-3-105-25	ER	E4	3																					17-ER-E4-3-105-25-12
17	17-ER-E4-3-170-25	ER	E4	3																					17-ER-E4-3-170-25-14
17	17-ER-E4-3-198-25	ER	E4	3																					17-ER-E4-3-198-25-15
17	17-ER-E4-3-217-25	ER	E4	3																					17-ER-E4-3-217-25-16
17	17-ER-E4-3-232-17	ER	E4	3																					17-ER-E4-3-232-17-17
17	17-ER-E4-3-26-0	ER	E4	3																					17-ER-E4-3-26-0-8
17	17-ER-E4-3-29-15	ER	E4	3																					17-ER-E4-3-29-15-7
17	17-ER-E4-3-50-25	ER	E4	3																					17-ER-E4-3-50-25-9
17	17-ER-E4-3-7-16	ER	E4	3																					17-ER-E4-3-7-16-6
17	17-ER-E4-3-84-25	ER	E4	3																					17-ER-E4-3-84-25-10
17	17-ER-E4-3-88-0	ER	E4	3																					17-ER-E4-3-88-0-13
17	17-ER-E4-3-96-25	ER	E4	3																					17-ER-E4-3-96-25-11
17	17-ER-E4-4-0-0	ER	E4	4	1	0	0	VT	UC																17-ER-E4-4-0-0-1
17	17-ER-E4-4-0-24	ER	E4	4	2	0	24	VT	LF																17-ER-E4-4-0-24-2
17	17-ER-E4-4-30-23	ER	E4	4	3	30	23	VT	G		0.100														17-ER-E4-4-30-23-3
17	17-ER-E4-4-24-12	ER	E4	4	5	24	12	VT	SG		0.125														17-ER-E4-4-24-12-4
17	17-ER-E4-4-132-0	ER	E4	4	6	132	0	VT	SG		0.110														17-ER-E4-4-132-0-5
17	17-ER-E4-4-165-24	ER	E4	4	8	165	24	VT	POR		0.125														17-ER-E4-4-165-24-6
17	17-ER-E4-4-167-18	ER	E4	4	9	167	18	VT	DENT																17-ER-E4-4-167-18-7
17	17-ER-E4-4-210-0	ER	E4	4	10	210	0	VT	LOF																17-ER-E4-4-210-0-8
17	17-ER-E4-4-115-0	ER	E4	4																					17-ER-E4-4-115-0-11
17	17-ER-E4-4-207-24	ER	E4	4																					17-ER-E4-4-207-24-10
17	17-ER-E4-4-234-24	ER	E4	4																					17-ER-E4-4-234-24-9
17	17-ER-E4-4-32-24	ER	E4	4																					17-ER-E4-4-32-24-14
17	17-ER-E4-4-62-0	ER	E4	4																					17-ER-E4-4-62-0-15
17	17-ER-E4-4-94-0	ER	E4	4																					17-ER-E4-4-94-0-13
17	17-ER-E4-4-96-24	ER	E4	4																					17-ER-E4-4-96-24-12
17	17-ER-E4-5-0-25	ER	E4	5	1	0	25	VT	LOF																17-ER-E4-5-0-25-1
17	17-ER-E4-5-0-4	ER	E4	5	2	0	4	VT	POR																17-ER-E4-5-0-4-2
17	17-ER-E4-5-84-0	ER	E4	5	3	84	0	VT	UC																17-ER-E4-5-84-0-3
17	17-ER-E4-5-34-65	ER	E4	5	4	34	65	VT	DENT																17-ER-E4-5-34-65-4
17	17-ER-E4-5-60-14	ER	E4	5	5	60	14	VT	SG		0.094														17-ER-E4-5-60-14-5
17	17-ER-E4-5-156-12	ER	E4	5	7	156	12	VT	BC		0.199														17-ER-E4-5-156-12-6
17	17-ER-E4-5-170-70	ER	E4	5	8	170	70	VT	BC		0.189														17-ER-E4-5-172-9-7
17	17-ER-E4-5-240-9	ER	E4	5	9	240	9	VT	LOF																17-ER-E4-5-240-9-8
17	17-ER-E4-5-210-0	ER	E4	5	10	210	0	VT	LOF		0.188														17-ER-E4-5-210-0-9
17	17-ER-E4-5-6-24	ER	E4	5																					17-ER-E4-5-6-24-11
17	17-ER-E4-5-66-16	ER	E4	5																					17-ER-E4-5-66-16-10

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report										EEL Probe Up					Recommended Repairs										Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside Indication (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair type (Patch, Weld, Cap)				
17	17-ER-E4-6-0-12	ER	E4	6	1	0	10 to 16	0	VT	UC		0.080	0	12	VT	RI			0	12	0	24	24		WR	17-ER-E4-6-0-12-1			
17	17-ER-E4-6-14-0	ER	E4	6	2	14	0	0	VT	UC		0.094	14	0	VT	UC			14	0	28	0	28		WR	17-ER-E4-6-14-0-2			
17	17-ER-E4-6-112-0	ER	E4	6	3	112	0	0	VT	POR		0.188	112	0	VT	RI			112	0	9	0	9		WR	17-ER-E4-6-112-0-3			
17	17-ER-E4-6-146-0	ER	E4	6	4	146	0	0	VT	POR			146	0	VT	RI			146	0	4	0	4		WR	17-ER-E4-6-146-0-4			
17	17-ER-E4-6-240-15	ER	E4	6	5	240	15	0	VT	POR			240	15	VT	LOF			240	15	0	8	8		WR	17-ER-E4-6-240-15-5			
17	17-ER-E4-6-108-11	ER	E4	6									108	11	VT	G			108	11	6	0	6		WR	17-ER-E4-6-108-11-13			
17	17-ER-E4-6-132-24	ER	E4	6									132	24	VT	RI			132	24	7	0	7		WR	17-ER-E4-6-132-24-12			
17	17-ER-E4-6-144-24	ER	E4	6									144	24	VT	LOF			144	24	5	0	5		WR	17-ER-E4-6-144-24-11			
17	17-ER-E4-6-148-24	ER	E4	6									148	24	VT	LOF			148	24	6	0	6		WR	17-ER-E4-6-148-24-10			
17	17-ER-E4-6-174-0	ER	E4	6									174	0	VT	UC			174	0	8	0	8		WR	17-ER-E4-6-174-0-9			
17	17-ER-E4-6-174-24	ER	E4	6									174	24	VT	P			174	24	4	0	4		WR	17-ER-E4-6-174-24-8			
17	17-ER-E4-6-204-24	ER	E4	6									204	24	VT	G			204	24	0	2	2		WR	17-ER-E4-6-204-24-7			
17	17-ER-E4-6-230-6	ER	E4	6									230	6	VT	LOF			230	6	0	2	2		WR	17-ER-E4-6-230-6-6			
17	17-ER-E4-6-31-15	ER	E4	6									31	15	VT	G			31	15	6	0	6		WR	17-ER-E4-6-31-15-18			
17	17-ER-E4-6-38-0	ER	E4	6									38	0	VT	RI			38	0	14	0	14		WR	17-ER-E4-6-38-0-17			
17	17-ER-E4-6-48-24	ER	E4	6									48	24	VT	P			48	24	6	0	6		WR	17-ER-E4-6-48-24-16			
17	17-ER-E4-6-68-0	ER	E4	6									68	0	VT	LOF			68	0	5	0	5		WR	17-ER-E4-6-68-0-15			
17	17-ER-E4-6-74-24	ER	E4	6									74	24	VT	RI			74	24	5	0	5		WR	17-ER-E4-6-74-24-14			
17	17-ER-E4-7-0-21	ER	E4	7	1	0	18-25	0	VT	POR			0	21	VT	RI			0	21	9	12	21		WR	17-ER-E4-7-0-21-1			
17	17-ER-E4-7-138-0	ER	E4	7	3	138	0	0	VT	UC		0.094	138	0	VT	LOF			138	0	8	0	8		WR	17-ER-E4-7-138-0-2			
17	17-ER-E4-7-156-7	ER	E4	7	4	156	7	0	VT	TC		0.094	156	7	VT	G			156	7	6	0	6		WR	17-ER-E4-7-156-7-3			
17	17-ER-E4-7-0-0	ER	E4	7									0	0	VT	RI			0	0	2	2	4		WR	17-ER-E4-7-0-0-10			
17	17-ER-E4-7-0-12	ER	E4	7									0	12	VT	RI			0	12	0	16	16		WR	17-ER-E4-7-0-12-9			
17	17-ER-E4-7-143-24	ER	E4	7									143	24	VT	LOF			143	24	16	0	16		WR	17-ER-E4-7-143-24-8			
17	17-ER-E4-7-173-24	ER	E4	7									173	24	VT	LOF			173	24	21	0	21		WR	17-ER-E4-7-173-24-7			
17	17-ER-E4-7-186-24	ER	E4	7									186	24	VT	LOF			186	24	11	0	11		WR	17-ER-E4-7-186-24-5			
17	17-ER-E4-7-218-24	ER	E4	7									218	24	VT	LOF			218	24	11	0	11		WR	17-ER-E4-7-218-24-6			
17	17-ER-E4-7-23-0	ER	E4	7									23	0	VT	UC			23	0	12	0	12		WR	17-ER-E4-7-23-0-11			
17	17-ER-E4-7-240-14	ER	E4	7									240	14	VT	RI			240	14	0	4	4		WR	17-ER-E4-7-240-14-4			
17	17-ER-E4-8-236-8	ER	E4	8	2	236	8	0	VT	SG		0.094	236	8	VT	G			236	8	4	0	4		WR	17-ER-E4-8-236-8-1			
17	17-ER-E4-8-236-9	ER	E4	8	3	236	9	0	VT	POR			236	9	VT	RI			236	9	0	16	16		WR	17-ER-E4-8-240-14-2			
17	17-ER-E4-8-0-0	ER	E4	8									0	0	VT	UC			0	0	12	18	30		WR	17-ER-E4-8-0-0-12			
17	17-ER-E4-8-0-20	ER	E4	8									0	20	VT	IF			0	20	6	6	12		WR	17-ER-E4-8-0-20-15			
17	17-ER-E4-8-0-24	ER	E4	8									0	24	VT	IF			0	24	12	6	18		WR	17-ER-E4-8-0-24-16			
17	17-ER-E4-8-111-0	ER	E4	8									111	0	VT	LOF			111	0	8	0	8		WR	17-ER-E4-8-111-0-4			
17	17-ER-E4-8-14-0	ER	E4	8									14	0	VT	LOF			14	0	0	2	2		WR	17-ER-E4-8-14-0-11			
17	17-ER-E4-8-144-17	ER	E4	8									144	17	VT	D			144	17	8	8	32	64	PP	17-ER-E4-8-144-17-7			
17	17-ER-E4-8-15-24	ER	E4	8									15	24	VT	LOF			15	24	8	0	8		WR	17-ER-E4-8-15-24-14			
17	17-ER-E4-8-168-24	ER	E4	8									168	24	VT	LOF			168	24	4	0	4		WR	17-ER-E4-8-168-24-6			
17	17-ER-E4-8-18-24	ER	E4	8									18	24	VT	WI			18	24	11	0	11		WR	17-ER-E4-8-18-24-17			
17	17-ER-E4-8-184-24	ER	E4	8									184	24	VT	LOF			184	24	7	0	7		WR	17-ER-E4-8-184-24-5			
17	17-ER-E4-8-226-24	ER	E4	8									226	24	VT	LOF			226	24	2	0	2		WR	17-ER-E4-8-226-24-3			
17	17-ER-E4-8-23-0	ER	E4	8									23	0	VT	LOF			23	0	6	12	18		WR	17-ER-E4-8-23-0-13			
17	17-ER-E4-8-59-0	ER	E4	8									59	0	VT	P			59	0	2	0	2		WR	17-ER-E4-8-59-0-10			
17	17-ER-E4-8-82-24	ER	E4	8									82	24	VT	LOF			82	24	10	0	10		WR	17-ER-E4-8-82-24-9			
17	17-ER-E4-8-96-0	ER	E4	8									96	0	VT	LOF			96	0	0	1	1		WR	17-ER-E4-8-96-0-8			
17	17-ER-E4-9-0-3	ER	E4	9	1	0	3	0	VT	UC		0.090	0	3	VT	UC			0	3	9	18	27		WR	17-ER-E4-9-0-3-1			
17	17-ER-E4-9-95-0	ER	E4	9	3	95	0	0	VT	GOUGE		0.100	95	0	VT	LOF			95	0	12	0	12		WR	17-ER-E4-9-95-0-2			
17	17-ER-E4-9-86-3	ER	E4	9	4	86	3	0	VT	TC		0.110	86	3	VT	LOF			86	3	0	12	12		WR	17-ER-E4-9-86-3-3			
17	17-ER-E4-9-134-1	ER	E4	9	5	134	1	0	VT	TC		0.130	134	1	VT	TS			166	0	38	0	38		WR	17-ER-E4-9-166-0-4			
17	17-ER-E4-9-224-4	ER	E4	9	8	224	4	0	VT	DENT		0.130	224	4	VT	D			224	4	8	8	32	64	TSPP	17-ER-E4-9-224-4-6			
17	17-ER-E4-9-0-24	ER	E4	9									0	24	VT	LOF			0	24	12	0	12		WR	17-ER-E4-9-0-24-12			
17	17-ER-E4-9-186-24	ER	E4	9									186	24	VT	LOF			186	24	3	0	3		WR	17-ER-E4-9-186-24-9			
17	17-ER-E4-9-240-0	ER	E4	9									240	0	VT	IF			240	0	9	3	12		WR	17-ER-E4-9-240-0-7			
17	17-ER-E4-9-240-15	ER	E4	9									240	15	VT	P			240	15	0	6	6		WR	17-ER-E4-9-240-15-8			
17	17-ER-E4-9-38-24	ER	E4	9									38	24	VT	LOF			38	24	6	0	6		WR	17-ER-E4-9-38-24-11			

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report						EEL Probe Up						Recommended Repairs						Repair Number: May Apply to Multiple Indications										
		Location in Tank	Shell Course	Plate Number	TestTex	Indication ID	X	Y	Coordinate	Method	Indication Type	Minimum Thickness	Wall Thickness	Depth or Uplift	Indication Type	Minimum Thickness	Depth (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type		
17	17-ER-E4-9-73-24	ER E4		9														73	24	VT	P				73	24	9	0	9		WR	17-ER-E4-9-73-24-13
17	17-ER-E4-9-95-24	ER E4		9														95	24	VT	LOF				95	24	12	0	12		WR	17-ER-E4-9-95-24-10
17	17-ER-E4-10-64-1	ER E4		10		1	64	1	1	VT	POR							64	1	VT	P				64	1	2	0	2		WR	17-ER-E4-10-64-1-1
17	17-ER-E4-10-22-1	ER E4		10		2	22	1	1	VT	POR							22	1	VT	P				22	1	4	0	4		WR	17-ER-E4-10-22-1-2
17	17-ER-E4-10-150-1	ER E4		10		4	150	1	1	VT	RI	0.350						150	1	VT	P				150	1	4	0	4		WR	17-ER-E4-10-150-1-3
17	17-ER-E4-10-17-1	ER E4		10		5	17	1	1	VT	POR							17	1	VT	P				17	1	4	0	4		WR	17-ER-E4-10-17-1-4
17	17-ER-E4-10-216-15	ER E4		10		6	216	15	15	VT	DENT	0.120						216	15	VT	P				216	15	6	0	19	28	PP	17-ER-E4-10-216-15-5
17	17-ER-E4-10-138-1	ER E4		10														138	1	VT	P				138	1	0	4	4		WR	17-ER-E4-10-138-1-6
17	17-ER-E4-10-240-14	ER E4		10														240	14	VT	P				240	14	0	4	4		WR	17-ER-E4-10-240-14-7
17	17-ER-E4-11-65-6	ER E4		11		1	65	6	6	VT	DENT	0.200						65	6	VT	D				65	6	8	8	32	64	TSP	17-ER-E4-11-65-6-1
17	17-ER-E4-11-120-19	ER E4		11		2	113 to 121	13 to 26	26	VT	BC	.15 to .23						120	19	PAUT	BC	0.160			119	21	22	10	64	220	PP	17-ER-E4-11-119-21-2
17	17-ER-E4-11-189-25	ER E4		11		3	189	25	25	VT	POR							189	25	VT	P				189	25	4	0	4		WR	17-ER-E4-11-189-25-3
17	17-ER-E4-11-232-1	ER E4		11		4	229 to 235	1	1	VT	POR							232	1	VT	P				231	1	6	0	6		WR	17-ER-E4-11-231-1-6
17	17-ER-E4-11-0-0	ER E4		11														0	0	VT	UC				0	0	2	0	2		WR	17-ER-E4-11-0-0-7
17	17-ER-E4-11-103-24	ER E4		11														103	24	VT	RI				103	24	4	0	4		WR	17-ER-E4-11-103-24-10
17	17-ER-E4-11-242-0	ER E4		11														242	0	VT	P				242	0	0	4	4		WR	17-ER-E4-11-242-0-11
17	17-ER-E4-11-57-24	ER E4		11														57	24	VT	P				57	24	4	0	4		WR	17-ER-E4-11-57-24-8
17	17-ER-E4-11-80-0	ER E4		11														80	0	VT	P				80	0	4	0	4		WR	17-ER-E4-11-80-0-9
17	17-ER-E4-12-1-24	ER E4		12		1	1	24	24	VT	P							1	24	VT	P				1	24	0	4	4		WR	17-ER-E4-12-1-24-1
17	17-ER-E4-12-1-1	ER E4		12		2	1	1	1	VT	P							1	1	VT	P				1	1	0	3	3		WR	17-ER-E4-12-1-1-2
17	17-ER-E4-12-64-18	ER E4		12		3	64	18	18	VT	DENT	0.100						64	18	VT	D				64	18	8	8	32	64	PP	17-ER-E4-12-64-18-3
17	17-ER-E4-12-118-1	ER E4		12		6	118	1	1	VT	GOUGE	0.140						118	1	VT	G				118	1	4	0	4		WR	17-ER-E4-12-118-1-4
17	17-ER-E4-12-152-26	ER E4		12		9	152	26	26	VT	POR							152	26	VT	P				156	26	14	0	14		WR	17-ER-E4-12-156-26-5
17	17-ER-E4-12-146-0	ER E4		12		11	146	0	0	VT	GOUGE	0.170						146	0	VT	G				146	0	2	0	2		WR	17-ER-E4-12-146-0-6
17	17-ER-E4-12-140-18	ER E4		12		12	140	18	18	VT	IF							140	18	VT	IF				140	18	10	0	10		WR	17-ER-E4-12-140-18-7
17	17-ER-E4-12-238-24	ER E4		12		15	238	24	24	VT	POR							238	24	VT	P				238	20	0	8	8		WR	17-ER-E4-12-238-20-8
17	17-ER-E4-12-238-3	ER E4		12		18	238	3	3	VT	POR							238	3	VT	P				238	3	0	5	5		WR	17-ER-E4-12-238-3-9
17	17-ER-E4-12-136-26	ER E4		12		19	136	26	26	VT	TC							136	26	VT	G				136	26	4	0	4		WR	17-ER-E4-12-136-26-10
17	17-ER-E4-13-2-27	ER E4		13		2	2	27	27	VT	POR							2	27	VT	P				2	27	5	0	5		WR	17-ER-E4-13-2-27-1
17	17-ER-E4-13-0-9	ER E4		13		2	0	9	9	VT	P							0	9	VT	P				0	9	0	4	4		WR	17-ER-E4-13-0-9-2
17	17-ER-E4-13-60-18	ER E4		13		3	60	18 to 19	19	VT	PIT							60	18	VT	G				60	19	6	0	19	28	PP	17-ER-E4-13-60-19-3
17	17-ER-E4-13-118-18	ER E4		13		4	118	18	18	VT	PIT	0.110						118	18	VT	G				118	18	4	0	4		WR	17-ER-E4-13-118-18-4
17	17-ER-E4-13-237-9	ER E4		13		6	237	9	9	VT	P	0.260						237	9	VT	G				237	9	0	2	2		WR	17-ER-E4-13-237-9-5
17	17-ER-E4-13-108-26	ER E4		13														108	26	VT	RI				108	26	4	0	4		WR	17-ER-E4-13-108-26-6
17	17-ER-E4-13-160-19	ER E4		13														160	19	VT	P				160	19	5	0	5		WR	17-ER-E4-13-160-19-7
17	17-ER-E4-13-192-0	ER E4		13														192	0	VT	P				192	0	0	2	2		WR	17-ER-E4-13-192-0-8
17	17-ER-E4-14-235-26	ER E4		14		11	235	26	26	VT	LOF							235	26	VT	LOF				235	26	0	4	4		WR	17-ER-E4-14-235-26-1
17	17-ER-E4-14-235-3	ER E4		14		12	235	3	3	VT	POR							235	3	VT	P				235	3	0	4	4		WR	17-ER-E4-14-235-3-2
17	17-ER-E4-14-112-26	ER E4		14														112	26	VT	RI				112	26	12	0	12		WR	17-ER-E4-14-112-26-3
17	17-ER-E4-14-135-26	ER E4		14														135	26	VT	P				135	26	4	0	4		WR	17-ER-E4-14-135-26-4
17	17-ER-E4-14-170-26	ER E4		14														170	26	VT	P				170	26	12	0	12		WR	17-ER-E4-14-170-26-5
17	17-ER-E4-14-209-26	ER E4		14														209	26	VT	P				209	26	4	0	4		WR	17-ER-E4-14-209-26-6
17	17-ER-E4-15-116-18	ER E4		15		5	116 to 117	17 to 19	19	VT	TC							116	18	VT	G				116	18	6	0	19	28	PP	17-ER-E4-15-116-18-1
17	17-ER-E4-15-133-20	ER E4		15		6	133 to 134	20 to 21	21	VT	DENT	0.090						133	20	VT	D				133	20	8	0	25	50	PP	17-ER-E4-15-133-20-2
17	17-ER-E4-15-146-1	ER E4		15		7	144 to 148	1	1	VT	LOF							146	1	VT	LOF				146	1	4	0	4		WR	17-ER-E4-15-146-1-3
17	17-ER-E4-15-164-13	ER E4		15		8	163 to 165	11 to 15	15	VT	DENT	0.170						164	13	VT	D				164	13	0	6	6		WR	17-ER-E4-15-164-13-4
17	17-ER-E4-15-170-26	ER E4		15														170	26	VT	P				170	26	4	0	4		WR	17-ER-E4-15-170-26-7
17	17-ER-E4-15-191-26	ER E4		15														191	26	VT	P				191	26	4	0	4		WR	17-ER-E4-15-191-26-8
17	17-ER-E4-15-48-26	ER E4		15														48	26	VT	RI				48	26	6	0	6		WR	17-ER-E4-15-48-26-5
17	17-ER-E4-15-89-16	ER E4		15														89	16	VT	LOF				89	16	18	0	18		WR	17-ER-E4-15-89-16-6
17	17-ER-E4-16-64-1	ER E4		16		1	64	1	1	VT	UC	0.110						64	1	VT	UC				64	1	4	0	4		WR	17-ER-E4-16-64-1-1
17	17-ER-E4-16-120-26	ER E4		16														120	26	VT	RI				120	26	4	0	4		WR	17-ER-E4-16-120-26-4
17	17-ER-E4-16-29-26	ER E4		16														29	26	VT	P				29	26	4	0	4		WR	17-ER-E4-16-29-26-2
17	17-ER-E4-16-74-26	ER E4		16														74	26	VT	P				74	26	4	0	4		WR	17-ER-E4-16-74-26-3
17	17-ER-E3-1-8-56																															

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report										EEL Probe Up						Recommended Repairs						Repair Number; May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift (in)	Center of Indication (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)		
17	17-ER-E3-1-36-56	ER	E3	1	3	36	56	VT	POR				36	56	VT	P			36	56	4	0	4		WR	17-ER-E3-1-36-56-3	
17	17-ER-E3-1-55-49	ER	E3	1	4	55	49	VT	DENT				55	49	VT	D			55	49	0	2	2		WR	17-ER-E3-1-55-49-4	
17	17-ER-E3-1-75-56	ER	E3	1	5	75	56	VT	POR				75	56	VT	P			75	56	2	2	4		WR	17-ER-E3-1-75-56-5	
17	17-ER-E3-1-33-33	ER	E3	1	6	3	33	VT	TS	0.125			3	33	VT	TS			3	33	0	2	2		WR	17-ER-E3-1-33-33-6	
17	17-ER-E3-2-118-60	ER	E3	2	1	118	60	VT	TS	0.250			118	60	VT	G			118	60	4	0	4		PP	17-ER-E3-2-118-60-1	
17	17-ER-E3-2-162-35	ER	E3	2	2	162	35	VT	TS	0.094			162	35	VT	G			162	35	6	0	19	28	PP	17-ER-E3-2-162-35-2	
17	17-ER-E3-2-224-60	ER	E3	2	4	224	60	VT	TS	0.250			224	60	VT	G			224	60	0	4	4		WR	17-ER-E3-2-224-60-3	
17	17-ER-E3-2-283-27	ER	E3	2	5	283	27	VT	SG	0.094			283	27	VT	G			283	27	0	2	2		WR	17-ER-E3-2-283-27-4	
17	17-ER-E3-2-285-3	ER	E3	2	6	285	3	VT	SG	0.094			285	3	VT	G			285	3	0	8	8		WR	17-ER-E3-2-285-3-5	
17	17-ER-E3-2-297-38	ER	E3	2	8	297	38	VT	POR				297	38	VT	P			297	38	0	2	2		WR	17-ER-E3-2-297-38-6	
17	17-ER-E3-2-0-1	ER	E3	2	9	0	1	VT	GOUGE	0.130			0	1	VT	G			0	1	3	0	2		WR	17-ER-E3-2-0-1-7	
17	17-ER-E3-2-12-56	ER	E3	2	10	12	56	VT	POR				12	56	VT	P			12	56	2	0	2		WR	17-ER-E3-2-12-56-8	
17	17-ER-E3-2-35-56	ER	E3	2	12	35	56	VT	POR				35	56	VT	P			35	56	4	0	4		WR	17-ER-E3-2-35-56-9	
17	17-ER-E3-2-48-13	ER	E3	2	13	48	13	VT	TS	0.120			48	13	VT	G			48	13	0	3	3		WR	17-ER-E3-2-48-13-10	
17	17-ER-E3-2-69-48	ER	E3	2	14	69	48	VT	TS	0.100			69	48	VT	G			69	48	12	12	48	144	PP	17-ER-E3-2-69-48-11	
17	17-ER-E3-3-20-5	ER	E3	3	1	20	5	VT	SG	0.094			20	5	VT	G			20	5	0	8	8		WR	17-ER-E3-3-20-5-1	
17	17-ER-E3-3-38-3	ER	E3	3	3	38	3	VT	DENT	0.240			38	3	VT	D			38	3	8	8	32	64	TSPP	17-ER-E3-3-38-3-2	
17	17-ER-E3-3-22-83	ER	E3	3	3	22	83	VT	DENT	0.230			22	83	VT	D			22	83	8	0	25	50		WR	17-ER-E3-3-22-83-3
17	17-ER-E3-3-120-5	ER	E3	3	7	120	5	VT	SG	0.094			120	5	VT	G			120	5	0	3	3		WR	17-ER-E3-3-120-5-4	
17	17-ER-E3-3-136-36	ER	E3	3	7	136	36	VT	SG	0.150			136	36	VT	G			136	36	6	0	19	28		PP	17-ER-E3-3-136-36-5
17	17-ER-E3-3-150-15	ER	E3	3	8	150	15	VT	SG	0.100			150	15	VT	G			150	15	0	2	2		WR	17-ER-E3-3-150-15-6	
17	17-ER-E3-3-94-56	ER	E3	3	9	94	56	VT	GOUGE	0.125			94	56	VT	G			94	56	3	0	3		WR	17-ER-E3-3-94-56-7	
17	17-ER-E3-3-274-40	ER	E3	3	12	274	40	VT	SG	0.140			274	40	VT	G			274	40	6	10	32	60		PP	17-ER-E3-3-274-40-8
17	17-ER-E3-3-297-46	ER	E3	3	13	297	46	VT	DENT	0.190			297	46	VT	D			297	46	8	0	25	50		PP	17-ER-E3-3-297-46-9
17	17-ER-E3-3-300-29	ER	E3	3	14	300	29	VT	DENT				300	29	VT	D			300	29	8	0	25	50		PP	17-ER-E3-3-300-29-10
17	17-ER-E3-3-324-0	ER	E3	3	15	324	0	VT	POR				324	0	VT	P			324	0	4	0	4		WR	17-ER-E3-3-324-0-11	
17	17-ER-E3-3-274-0	ER	E3	3	17	274	0	VT	DENT				274	0	VT	P			274	0	8	8	32	64		PP	17-ER-E3-3-274-0-12
17	17-ER-E3-3-116-1	ER	E3	3									116	1	VT	P			116	1	5	0	5		WR	17-ER-E3-3-116-1-13	
17	17-ER-E3-3-83-60	ER	E3	3									83	60	VT	P			83	60	8	0	8		WR	17-ER-E3-3-83-60-14	
17	17-ER-E3-4-36-48	ER	E3	4	1	36	48	VT	DENT	0.125			36	48	VT	D			36	48	8	0	25	50		PP	17-ER-E3-4-36-48-1
17	17-ER-E3-4-52-50	ER	E3	4	3	52	50	VT	DENT				52	50	VT	D			52	50	8	0	25	50		PP	17-ER-E3-4-52-50-2
17	17-ER-E3-4-96-60	ER	E3	4	4	96	60	VT	LF/POR				96	60	VT	P			96	60	4	0	4		WR	17-ER-E3-4-96-60-3	
17	17-ER-E3-4-165-60	ER	E3	4	7	165	60	VT	UC				165	60	VT	UC			165	60	4	0	4		WR	17-ER-E3-4-165-60-4	
17	17-ER-E3-4-200-60	ER	E3	4	8	200	60	VT	POR				200	60	VT	P			200	60	4	0	4		WR	17-ER-E3-4-200-60-5	
17	17-ER-E3-4-220-60	ER	E3	4	9	220	60	VT	POR				220	60	VT	P			220	60	4	0	4		WR	17-ER-E3-4-220-60-6	
17	17-ER-E3-4-237-60	ER	E3	4	10	237	60	VT	POR				237	60	VT	P			237	60	0	3	3		WR	17-ER-E3-4-237-60-7	
17	17-ER-E3-4-245-0	ER	E3	4	12	245	0	VT	DENT	0.250			245	0	VT	P			246	1	12	12	48	144		PP	17-ER-E3-4-246-1-8
17	17-ER-E3-5-39-60	ER	E3	5	1	39	60	VT	POR				39	60	VT	P			39	60	4	0	4		WR	17-ER-E3-5-39-60-1	
17	17-ER-E3-5-284-60	ER	E3	5									284	60	VT	RI			284	60	14	0	14		WR	17-ER-E3-5-284-60-3	
17	17-ER-E3-5-49-60	ER	E3	5									49	60	VT	UC			49	60	6	0	6		WR	17-ER-E3-5-49-60-2	
17	17-ER-E3-6-10-60	ER	E3	6	1	10	60	VT	POR				10	60	VT	P			10	60	4	0	4		WR	17-ER-E3-6-10-60-1	
17	17-ER-E3-6-191-1	ER	E3	6	2	36 to 49	60	VT	POR				191	1	VT	P			191	1	2	0	2		WR	17-ER-E3-6-191-1-2	
17	17-ER-E3-7-42-60	ER	E3	7	2	88	60	VT	POR				42	60	VT	P			42	60	20	0	20		WR	17-ER-E3-7-42-60-1	
17	17-ER-E3-7-88-60	ER	E3	7	3	0	39	VT	POR				88	60	VT	P			88	60	6	0	6		WR	17-ER-E3-7-88-60-2	
17	17-ER-E3-7-0-39	ER	E3	7	3	0	39	VT	POR				0	39	VT	P			0	39	0	4	4		WR	17-ER-E3-7-0-39-3	
17	17-ER-E3-7-194-60	ER	E3	7	6	194	60	VT	POR				194	60	VT	P			182	60	32	0	32		WR	17-ER-E3-7-182-60-4	
17	17-ER-E3-7-280-35	ER	E3	7	7	280	35	VT	DENT				280	35	VT	D			280	35	6	0	19	28		PP	17-ER-E3-7-280-35-5
17	17-ER-E3-7-52-0	ER	E3	7									52	0	VT	RI			52	0	7	0	7		WR	17-ER-E3-7-52-0-6	
17	17-ER-E3-8-310-59	ER	E3	8	1	310	59	VT	POR				310	59	VT	P			310	59	9	4	13		WR	17-ER-E3-8-310-59-1	
17	17-ER-E3-8-303-39	ER	E3	8	2	303	39	VT	GOUGE	0.095			303	39	VT	G			303	39	0	1	1		WR	17-ER-E3-8-303-39-2	
17	17-ER-E3-8-289-59	ER	E3	8	3	289	59	VT	POR				289	59	VT	P			289	59	4	0	4		WR	17-ER-E3-8-289-59-3	
17	17-ER-E3-8-58-16	ER	E3	8	4	58	16 to 17	VT	DENT	0.100			58	16	VT	D			58	17	6	0	19	28		PP	17-ER-E3-8-58-17-4
17	17-ER-E3-8-76-31	ER	E3	8	5	70 to 82	21 to 42	VT	BC	0.156			76	31	PAUT	BC			82	37	18	24	84	432		PP	17-ER-E3-8-82-37-5
17	17-ER-E3-8-0-51	ER	E3	8									0	51	VT	P			0	51	0	5	5		WR	17-ER-E3-8-0-51-7	
17	17-ER-E3-8-155-59	ER	E3	8									155	59	VT	P			155	59	4	0	4		WR	17-ER-E3-8-155-59-6	
17	17-ER-E3-9-90-8	ER	E3	9	1	90	7 to 10	VT	GOUGE	0.100			90	8	VT	G			90	8	0	3	3		WR	17-ER-E3-9-90-8-1	

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report										EEL Probe Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications	
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift Indication(in)	Center of Indication X (in)	Center of Indication Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair X (in)	Center of Repair Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)		
17	17-ER-E3-9-250-40	ER E3	9	3	250	40	VT	DENT			0.080	250	40	VT	D				250	40	6	0	19	28	PP	17-ER-E3-9-250-40-2	
17	17-ER-E3-9-215-0-3	ER E3	9	4	215	0	VT	PIT			0.150	215	0	VT	PIT				215	0	1	0	1			WR	17-ER-E3-9-215-0-3
17	17-ER-E3-9-187-59	ER E3	9	5	187	59	VT	PIT			0.170	187	59	VT	PIT				187	59	2	0	2			WR	17-ER-E3-9-187-59-4
17	17-ER-E3-9-124-9-5	ER E3	9	7	124	9 to 10	VT	DENT			0.140	124	9 to 10	VT	D				124	9	0	4	4			WR	17-ER-E3-9-124-9-5
17	17-ER-E3-9-3-58	ER E3	9	9	1 to 5	58	VT	LOF				3	58	VT	LOF				3	58	6	0	6			WR	17-ER-E3-9-3-58-6
17	17-ER-E3-9-1-27	ER E3	9	12	1	25 to 29	VT	LOF			0.500	1	27	VT	LOF				1	27	0	5	5			WR	17-ER-E3-9-1-27-7
17	17-ER-E3-9-155-59	ER E3	9	15	154 to 156	59	VT	POR				155	59	VT	P				155	59	10	0	10			WR	17-ER-E3-9-155-59-8
17	17-ER-E3-9-141-60	ER E3	9									141	60	VT	P				141	60	4	0	4			WR	17-ER-E3-9-141-60-11
17	17-ER-E3-9-213-10	ER E3	9									213	10	VT	RI				213	10	3	0	3			WR	17-ER-E3-9-213-10-9
17	17-ER-E3-9-283-60	ER E3	9	8	283	60	VT	P				283	60	VT	P				283	60	4	0	4			WR	17-ER-E3-9-283-60-13
17	17-ER-E3-9-302-0	ER E3	9									302	0	VT	P				302	0	4	0	4			WR	17-ER-E3-9-302-0-10
17	17-ER-E3-9-64-60	ER E3	9									64	60	VT	RI				64	60	4	0	4			WR	17-ER-E3-9-64-60-12
17	17-ER-E3-10-1-57	ER E3	10	1	1	57	VT	GOUGE			0.110	1	57	VT	G				1	57	5	0	5			WR	17-ER-E3-10-1-57-1
17	17-ER-E3-10-27-17	ER E3	10	2	27 to 28	17 to 18	VT	DENT			0.320	27	17	VT	D				28	18	6	0	19	28		PP	17-ER-E3-10-28-18-2
17	17-ER-E3-10-0-1	ER E3	10									0	1	VT	P				0	1	0	3	3			WR	17-ER-E3-10-0-1-3
17	17-ER-E3-10-259-60	ER E3	10									259	60	VT	P				259	60	4	0	4			WR	17-ER-E3-10-259-60-5
17	17-ER-E3-10-267-60	ER E3	10									267	60	VT	P				267	60	4	0	4			WR	17-ER-E3-10-267-60-6
17	17-ER-E3-10-36-60	ER E3	10									36	60	VT	RI				36	60	4	0	4			WR	17-ER-E3-10-36-60-4
17	17-ER-E3-11-248-49	ER E3	11	1	248	49	VT	DENT			0.080	248	49	VT	D				248	49	6	0	19	28		PP	17-ER-E3-11-248-49-1
17	17-ER-E3-11-243-9	ER E3	11	2	42 to 43	9	VT	DENT			0.220	243	9	VT	D				243	9	11	7	36	77		PP	17-ER-E3-11-243-9-2
17	17-ER-E3-11-166-40	ER E3	11	4	166 to 167	40 to 41	VT	DENT			0.090	166	40	VT	D				166	40	6	0	19	28		PP	17-ER-E3-11-166-40-3
17	17-ER-E3-11-104-54	ER E3	11	6	104	54	VT	GOUGE			0.140	104	54	VT	G				104	54	2	0	3			WR	17-ER-E3-11-104-54-4
17	17-ER-E3-11-104-27	ER E3	11	7	104	27	VT	TS			0.130	104	27	VT	G				104	27	0	3	2			WR	17-ER-E3-11-104-27-5
17	17-ER-E3-11-79-18	ER E3	11	8	79	18	VT	PIT			0.100	79	18	VT	G				79	18	0	2	2			WR	17-ER-E3-11-79-18-6
17	17-ER-E3-11-0-0	ER E3	11									0	0	VT	P				0	0	0	1	1			WR	17-ER-E3-11-0-0-7
17	17-ER-E3-11-0-12	ER E3	11									0	12	VT	RI				0	12	0	4	4			WR	17-ER-E3-11-0-12-8
17	17-ER-E3-11-147-60	ER E3	11									147	60	VT	P				147	60	5	0	4			WR	17-ER-E3-11-147-60-10
17	17-ER-E3-11-188-60	ER E3	11									188	60	VT	RI				188	60	4	0	4			WR	17-ER-E3-11-188-60-11
17	17-ER-E3-11-254-60	ER E3	11									254	60	VT	P				254	60	4	0	4			WR	17-ER-E3-11-254-60-12
17	17-ER-E3-11-97-60	ER E3	11									97	60	VT	P				97	60	4	0	4			WR	17-ER-E3-11-97-60-9
17	17-ER-E3-12-274-41	ER E3	12	1	274	41	VT	DENT			0.150	274	41	VT	D				274	41	8	8	32	64		PP	17-ER-E3-12-274-41-1
17	17-ER-E3-12-255-43	ER E3	12	2	255	42 to 45	VT	DENT			0.250	255	43	VT	D				255	43	12	12	48	144		PP	17-ER-E3-12-255-43-2
17	17-ER-E3-12-238-31	ER E3	12	3	238	28 to 34	VT	DENT			0.250	238	31	VT	D				238	31	8	12	40	96		PP	17-ER-E3-12-238-31-3
17	17-ER-E3-12-231-27	ER E3	12	4	231	27	VT	GOUGE			0.150	231	27	VT	G				231	27	2	0	2			WR	17-ER-E3-12-231-27-4
17	17-ER-E3-12-139-59	ER E3	12	7	139	59	VT	POR				139	59	VT	P				139	59	4	0	4			WR	17-ER-E3-12-139-59-5
17	17-ER-E3-12-68-38	ER E3	12	9	68	34 to 35	VT	DENT			0.125	69	34	VT	D				68	38	14	14	56	196		PP	17-ER-E3-12-68-38-6
17	17-ER-E3-12-13-22	ER E3	12	10	13	22	VT	DENT			0.220	13	22	VT	D				13	22	7	7	28	49		PP	17-ER-E3-12-13-22-7
17	17-ER-E3-12-25-22	ER E3	12	11	25	22	VT	DENT			0.150	25	22	VT	D				25	22	7	7	28	49		PP	17-ER-E3-12-25-22-8
17	17-ER-E3-12-172-15	ER E3	12	12	172	15	VT	POR				172	15	VT	P				174	15	8	0	8			WR	17-ER-E3-12-174-15-9
17	17-ER-E3-12-149-60	ER E3	12									149	60	VT	RI				149	60	4	0	4			WR	17-ER-E3-12-149-60-10
17	17-ER-E3-12-16-60	ER E3	12									16	60	VT	P				16	60	16	0	16			WR	17-ER-E3-12-16-60-13
17	17-ER-E3-12-244-60	ER E3	12									244	60	VT	RI				244	60	4	0	4			WR	17-ER-E3-12-244-60-11
17	17-ER-E3-12-45-60	ER E3	12									45	60	VT	LOF				45	60	5	0	5			WR	17-ER-E3-12-45-60-12
17	17-ER-E3-13-4-56	ER E3	13	1	4	56	VT	DENT			0.290	4	56	VT	D				4	56	8	8	32	64		TSPP	17-ER-E3-13-4-56-1
17	17-ER-E3-13-50-32	ER E3	13	3	50	32	VT	DENT			0.180	50	32	VT	D				50	32	6	0	19	28		PP	17-ER-E3-13-50-32-2
17	17-ER-E3-13-77-20	ER E3	13	4	77	20	VT	DENT			0.140	77	20	VT	D				77	20	6	0	19	28		PP	17-ER-E3-13-77-20-3
17	17-ER-E3-13-267-12	ER E3	13	5	267	12	VT	DENT			0.625	267	12	VT	D				267	12	8	8	32	64		PP	17-ER-E3-13-267-12-4
17	17-ER-E3-13-280-47	ER E3	13	6	280	47	VT	DENT			0.375	280	47	VT	D				280	47	6	8	28	48		PP	17-ER-E3-13-280-47-5
17	17-ER-E3-13-320-37	ER E3	13									320	37	VT	RI				320	37	0	2	2			WR	17-ER-E3-13-320-37-6
17	17-ER-E3-13-73-60	ER E3	13									73	60	VT	P				73	60	2	0	2			WR	17-ER-E3-13-73-60-7
17	17-ER-E2-1-227-32	ER E2	1	1	227	2																					

Tank No.	ID Applied to TestTex Reported Indication	Shell Location	Plate Number	TestTex Indication ID	X Coordinate (in)	Y Coordinate (in)	Coordinate (in)	Method	Indication Type	Minimum Thickness	Wall Thickness	Depth (in)	Topside	TestTex Report	EEL Probe Up	Center of Indication X (in)	Center of Indication Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair X (in)	Center of Repair Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	Repair Number: May Apply to Multiple Indications
17	17-ER-E2-2-0-9	ER E2	2	1	0	9	9	VT	POR							0	9	VT	P					15	6	21		WR	17-ER-E2-2-0-9-1
17	17-ER-E2-2-18-0	ER E2	2	2	18	0	0	VT	POR							18	0	VT	P					5	0	5		WR	17-ER-E2-2-18-0-2
17	17-ER-E2-2-60-39	ER E2	2	3	60	39	39	VT	POR							60	39	VT	P					6	0	19	28	PP	17-ER-E2-2-58-39-3
17	17-ER-E2-2-169-34	ER E2	2	4	151 to 186	34	34	VT	LOF							169	34	VT	IF					53	0	53		WR	17-ER-E2-2-160-54-4
17	17-ER-E2-2-236-54	ER E2	2	5	200 to 271	54	54	VT	POR							236	54	VT	P					84	0	84		WR	17-ER-E2-2-240-60-5
17	17-ER-E2-2-197-14	ER E2	2	6	197	14	14	VT	SG							197	14	VT	G					2	2	2		WR	17-ER-E2-2-197-14-6
17	17-ER-E2-2-303-54	ER E2	2	7	303	54	54	VT	SG							303	54	VT	G					24	24	96	576	PP	17-ER-E2-2-305-54-7
17	17-ER-E2-2-128-47	ER E2	2					VT								128	47	VT	RI					0	3	3		WR	17-ER-E2-2-128-47-8
17	17-ER-E2-2-129-39	ER E2	2					VT								129	39	VT	RI					0	3	3		WR	17-ER-E2-2-129-39-9
17	17-ER-E2-3-6-23	ER E2	3	2	6	23	23	VT	G							6	23	VT	G					2	2	2		WR	17-ER-E2-3-6-23-1
17	17-ER-E2-3-36-54	ER E2	3	3	36	54	54	VT	P							36	54	VT	P					2	0	2		WR	17-ER-E2-3-36-54-2
17	17-ER-E2-3-60-40	ER E2	3	4	60	40	40	VT	POR							60	40	VT	P					8	8	32	64	PP	17-ER-E2-3-60-40-3
17	17-ER-E2-3-10-54	ER E2	3	5	10	54	54	VT	POR							10	54	VT	P					8	0	8		WR	17-ER-E2-3-10-54-4
17	17-ER-E2-3-204-54	ER E2	3	7	204	54	54	VT	POR							204	54	VT	P					2	0	2		WR	17-ER-E2-3-204-54-5
17	17-ER-E2-3-218-24	ER E2	3	8	218	24	24	VT	POR							218	24	VT	P					2	0	2		WR	17-ER-E2-3-218-24-6
17	17-ER-E2-3-292-16	ER E2	3	9	292	16	16	VT	POR							292	16	VT	RI					9	9	9		WR	17-ER-E2-3-292-16-7
17	17-ER-E2-3-0-9	ER E2	3					VT								0	9	VT	RI					12	10	22		WR	17-ER-E2-3-0-9-12
17	17-ER-E2-3-139-54	ER E2	3					VT								139	54	VT	RI					4	0	4		WR	17-ER-E2-3-139-54-8
17	17-ER-E2-3-145-46	ER E2	3					VT								145	46	VT	RI					4	0	4		WR	17-ER-E2-3-145-46-9
17	17-ER-E2-3-147-54	ER E2	3					VT								147	54	VT	RI					5	0	5		WR	17-ER-E2-3-147-54-10
17	17-ER-E2-3-218-5	ER E2	3					VT								218	5	VT	TTH					16	20	72	320	TSPP	17-ER-E2-3-218-10-13
17	17-ER-E2-3-261-54	ER E2	3					VT								261	54	VT	P					6	16	22		WR	17-ER-E2-3-261-54-11
17	17-ER-E2-4-0-1	ER E2	4	3	0	1	1	VT	POR							0	1	VT	P					4	0	4		WR	17-ER-E2-4-0-1-1
17	17-ER-E2-4-115-39	ER E2	4					VT								115	39	VT	LOF					9	0	9		WR	17-ER-E2-4-115-39-3
17	17-ER-E2-4-118-60	ER E2	4					VT								118	60	VT	LOF					5	0	5		WR	17-ER-E2-4-118-60-5
17	17-ER-E2-4-156-60	ER E2	4					VT								156	60	VT	LOF					6	0	6		WR	17-ER-E2-4-156-60-4
17	17-ER-E2-4-246-5	ER E2	4					VT								246	5	VT	TTH					12	12	48	144	TSPP	17-ER-E2-4-246-5-7
17	17-ER-E2-4-300-14	ER E2	4					VT								300	14	VT	LOF					6	18	24		WR	17-ER-E2-4-300-14-6
17	17-ER-E2-4-60-37	ER E2	4					VT								60	37	VT	P					6	0	6		WR	17-ER-E2-4-60-37-2
17	17-ER-E2-5-48-55	ER E2	5	1	48	55	55	VT	TC				0.250			48	55	VT	G					4	0	4		WR	17-ER-E2-5-48-55-1
17	17-ER-E2-5-100-55	ER E2	5	4	100	55	55	VT	POR							100	55	VT	P					4	0	4		WR	17-ER-E2-5-100-55-2
17	17-ER-E2-5-172-58	ER E2	5	5	172	58	58	VT	POR							172	58	VT	P					4	0	4		WR	17-ER-E2-5-172-58-3
17	17-ER-E2-5-24-5	ER E2	5	6	24	5	5	VT	DENT				0.100			24	5	VT	D					12	12	48	144	TSPP	17-ER-E2-5-24-5-4
17	17-ER-E2-5-15-5	ER E2	5	7	15	5	5	VT	DENT				0.110			15	5	VT	D					6	0	19	28	PP	17-ER-E2-5-15-5-5
17	17-ER-E2-5-116-19	ER E2	5	8	116	19	19	VT	TC				0.125			116	19	VT	G					2	0	2		WR	17-ER-E2-5-116-19-6
17	17-ER-E2-5-194-55	ER E2	5	9	188-200	55	55	VT	POR							194	55	VT	P					16	0	16		WR	17-ER-E2-5-194-60-7
17	17-ER-E2-5-240-55	ER E2	5	10	240	55	55	VT	TC				0.125			240	55	VT	G					2	0	2		WR	17-ER-E2-5-240-60-8
17	17-ER-E2-5-248-55	ER E2	5	11	248	55	55	VT	POR							248	55	VT	P					32	0	32		WR	17-ER-E2-5-259-60-9
17	17-ER-E2-5-18-60	ER E2	5					VT								18	60	VT	P					4	0	4		WR	17-ER-E2-5-18-60-10
17	17-ER-E2-5-243-37	ER E2	5					VT								243	37	VT	P					6	0	6		WR	17-ER-E2-5-243-37-12
17	17-ER-E2-5-91-38	ER E2	5	2	91	38	38	VT	POR							91	38	VT	RI					4	0	4		WR	17-ER-E2-5-91-38-11
17	17-ER-E2-6-16-61	ER E2	6	4	41 to 53	61	61	VT	LOF							41	61	VT	P					23	0	23		WR	17-ER-E2-6-20-61-1
17	17-ER-E2-6-47-61	ER E2	6	5	59	37 to 39	39	VT	DENT				0.410			59	38	VT	LOF					40	0	40		WR	17-ER-E2-6-55-61-2
17	17-ER-E2-6-59-38	ER E2	6	8	88 to 94	38	38	VT	DENT				0.250			91	15	VT	D					10	10	40	154	PC	17-ER-E2-6-58-38-3
17	17-ER-E2-6-91-15	ER E2	6	9	96	61	61	VT	POR							96	61	VT	P					4	0	4		WR	17-ER-E2-6-91-15-4
17	17-ER-E2-6-96-61	ER E2	6	10	104	61	61	VT	POR							104	61	VT	P					8	0	8		WR	17-ER-E2-6-104-61-6
17	17-ER-E2-6-104-61	ER E2	6	11	263	29	29	VT	TS				0.110			263	29	VT	G					2	0	2		WR	17-ER-E2-6-263-29-7
17	17-ER-E2-6-263-29	ER E2	6	12	204	12	12	VT	TS				0.100			204	12	VT	G					2	0	2		WR	17-ER-E2-6-204-12-8
17	17-ER-E2-6-204-12	ER E2	6	13	267	31	31	VT	POR				0.198			267	31	VT	P					8	0	8		WR	17-ER-E2-6-267-31-9
17	17-ER-E2-6-267-31	ER E2	6	14	88	36	36	VT	TS				0.125			88	36	VT	G					2	0	2		WR	17-ER-E2-6-28-36-10
17	17-ER-E2-6-88-36	ER E2	6					VT								28	36	VT	P					3	0	3		WR	17-ER-E2-6-28-36-10
17	17-ER-E2-6-125-34	ER E2	6					VT								125	34	VT	P					5	0	5		WR	17-ER-E2-6-125-34-12
17	17-ER-E2-6-204-61	ER E2	6					VT								204	61	VT	P					5	0	5		WR	17-ER-E2-6-204-61-11
17	17-ER-E2-6-265-60	ER E2	6					VT								265	60	VT	P					8	0	8		WR	17-ER-E2-6-265-60-13
17	17-ER-E2-6-282-60	ER E2	6					VT								282	60	VT	P					8	0	8		WR	17-ER-E2-6-282-60-14
17	17-ER-E2-6-315-60	ER E2	6					VT								315	60	VT	P					4	0	4		WR	17-ER-E2-6-315-60-15

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report										EEL Probe Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications	
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID	X Coordinate (in)	Y Coordinate (in)	Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift (in)	Center of Indication X (in)	Center of Indication Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair X (in)	Center of Repair Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)		
17	17-ER-E2-7-0-41	ER	E2	7	1	0	33-50	VT	TC			0.094		0	41	VT	TS		0	41	0	4	4			WR	17-ER-E2-7-0-41-1
17	17-ER-E2-7-206-45	ER	E2	7	6	206	45	VT	DENT					206	45	VT	D		206	45	6	0	19	28		PP	17-ER-E2-7-206-45-2
17	17-ER-E2-7-222-50	ER	E2	7	7	222	50	VT	DENT					222	50	VT	D		222	50	6	0	19	28		PP	17-ER-E2-7-222-50-3
17	17-ER-E2-7-240-50	ER	E2	7	8	240	50	VT	DENT					240	50	VT	D		240	50	6	0	19	28		PP	17-ER-E2-7-240-50-4
17	17-ER-E2-7-214-2	ER	E2	7	9	214	2	VT	DENT					214	2	VT	D		214	2	10	10	40	100		TSPP	17-ER-E2-7-214-2-5
17	17-ER-E2-7-122-34	ER	E2	7	11	108-134	17-55	LFET	BC	0.145				122	34	PAUT	BC	< 0.160	122	34	34	44	156	1496		PP	17-ER-E2-7-122-34-6
17	17-ER-E2-7-0-10	ER	E2	7										0	10	VT	P		0	10	6	8	14			WR	17-ER-E2-7-0-10-13
17	17-ER-E2-7-0-60	ER	E2	7										0	60	VT	LOF		0	60	6	0	6			WR	17-ER-E2-7-0-60-8
17	17-ER-E2-7-118-60	ER	E2	7										118	60	VT	P		118	60	4	0	4			WR	17-ER-E2-7-118-60-11
17	17-ER-E2-7-15-0	ER	E2	7										15	0	VT	RI		15	0	2	0	2			WR	17-ER-E2-7-15-0-14
17	17-ER-E2-7-159-6	ER	E2	7										159	6	VT	RI		159	6	6	0	6			WR	17-ER-E2-7-159-6-16
17	17-ER-E2-7-288-60	ER	E2	7										288	60	VT	P		288	60	4	0	4			WR	17-ER-E2-7-288-60-12
17	17-ER-E2-7-4-56	ER	E2	7										4	56	VT	TS	0.11	4	56	2	0	2			WR	17-ER-E2-7-4-56-7
17	17-ER-E2-7-57-60	ER	E2	7										57	60	VT	P		57	60	9	0	9			WR	17-ER-E2-7-57-60-9
17	17-ER-E2-7-7-5	ER	E2	7										7	5	VT	TTH		7	5	10	10	40	100		TSPP	17-ER-E2-7-7-5-15
17	17-ER-E2-7-97-43	ER	E2	7										97	43	VT	LOF		97	43	3	0	3			WR	17-ER-E2-7-97-43-10
17	17-ER-E2-8-54-5	ER	E2	8	2	54	5	VT	TC		0.100			54	5	VT	G		54	5	2	0	2			WR	17-ER-E2-8-54-5-1
17	17-ER-E2-8-86-40	ER	E2	8	3	85-88	40	VT	POR					86	40	VT	P		86	40	3	0	3			WR	17-ER-E2-8-86-40-2
17	17-ER-E2-8-242-0	ER	E2	8	7	185-234	0-3	VT	DENT		0.120			242	0	VT	D		242	0	6	6	24	36		TSPP	17-ER-E2-8-242-0-3
17	17-ER-E2-8-279-53	ER	E2	8	9	279	53	VT	GOUGE		0.110			279	53	VT	G		279	53	3	0	3			WR	17-ER-E2-8-279-53-4
17	17-ER-E2-8-217-12	ER	E2	8	10	315-322	8-12	LFET	BC	0.178				217	12	PAUT	BC	< 0.160	217	12	8	10	36	80		TSPP	17-ER-E2-8-217-12-5
17	17-ER-E2-8-141-60	ER	E2	8										141	60	VT	UC		141	60	2	0	2			WR	17-ER-E2-8-141-60-10
17	17-ER-E2-8-202-60	ER	E2	8										202	60	VT	P		202	60	4	0	4			WR	17-ER-E2-8-202-60-11
17	17-ER-E2-8-20-9	ER	E2	8										20	9	VT	RI		20	9	4	0	4			WR	17-ER-E2-8-20-9-13
17	17-ER-E2-8-31-0	ER	E2	8										31	0	VT	TTH		31	0	8	10	36	80		TSPP	17-ER-E2-8-31-0-14
17	17-ER-E2-8-331-60	ER	E2	8										331	60	VT	P		331	60	2	0	2			WR	17-ER-E2-8-331-60-12
17	17-ER-E2-8-35-36	ER	E2	8										35	36	VT	P		35	36	3	0	3			WR	17-ER-E2-8-35-36-6
17	17-ER-E2-8-73-60	ER	E2	8										73	60	VT	P		73	60	3	0	3			WR	17-ER-E2-8-73-60-7
17	17-ER-E2-8-87-60	ER	E2	8										87	60	VT	P		87	60	2	0	2			WR	17-ER-E2-8-87-60-8
17	17-ER-E2-8-93-60	ER	E2	8										93	60	VT	P		93	60	2	0	2			WR	17-ER-E2-8-93-60-9
17	17-ER-E2-9-164-10	ER	E2	9	1	164	10	VT	POR					164	10	VT	RI		164	10	0	13	13			WR	17-ER-E2-9-164-6-1
17	17-ER-E2-9-164-4	ER	E2	9	2	164	4	VT	POR					164	4	VT	P		164	4	0	13	13			WR	17-ER-E2-9-164-4-1
17	17-ER-E2-9-183-38	ER	E2	9	3	188	40	VT	DENT		0.170			183	38	VT	D		183	38	12	12	48	144		PP	17-ER-E2-9-183-38-2
17	17-ER-E2-9-249-47	ER	E2	9	5	249	47	VT	TC		0.100			249	47	VT	TS		249	47	6	0	6			WR	17-ER-E2-9-249-47-3
17	17-ER-E2-9-306-45	ER	E2	9	6	306	45	VT	DENT		0.140			306	45	VT	D		306	45	6	0	19	28		PP	17-ER-E2-9-306-45-4
17	17-ER-E2-9-312-47	ER	E2	9	7	312	47	VT	DENT		0.110			312	47	VT	P		312	47	6	0	19	28		PP	17-ER-E2-9-312-47-5
17	17-ER-E2-9-0-2	ER	E2	9										0	2	VT	P		0	2	0	4	4			WR	17-ER-E2-9-0-2-12
17	17-ER-E2-9-0-60	ER	E2	9										0	60	VT	P		0	60	0	4	4			WR	17-ER-E2-9-0-60-6
17	17-ER-E2-9-195-41	ER	E2	9										195	41	VT	P		195	41	0	4	4			WR	17-ER-E2-9-195-41-8
17	17-ER-E2-9-242-0	ER	E2	9										242	0	VT	LOF		242	0	6	6	12			WR	17-ER-E2-9-242-0-13
17	17-ER-E2-9-289-46	ER	E2	9										289	46	VT	P		289	46	6	0	6			WR	17-ER-E2-9-289-46-7
17	17-ER-E2-9-39-5	ER	E2	9										39	5	VT	TTH		39	5	8	10	36	80		TSPP	17-ER-E2-9-39-5-11
17	17-ER-E2-9-73-41	ER	E2	9										73	41	VT	RI		73	41	0	3	3			WR	17-ER-E2-9-73-41-10
17	17-ER-E2-9-78-60	ER	E2	9										78	60	VT	RI		78	60	4	0	4			WR	17-ER-E2-9-78-60-9
17	17-ER-E2-10-65-54	ER	E2	10	1	65	54	VT	TC		0.120			65	54	VT	TS		65	54	1	0	1			WR	17-ER-E2-10-65-54-1
17	17-ER-E2-10-153-2	ER	E2	10	2	153	2	VT	TC		0.100			153	2	VT	TS		153	2	2	0	2			WR	17-ER-E2-10-153-2-2
17	17-ER-E2-10-228-58	ER	E2	10	4	228	58	VT	DENT		0.150			228	58	VT	D		228	58	6	0	19	28		PP	17-ER-E2-10-228-58-3
17	17-ER-E2-10-0-9	ER	E2	10										0	9	VT	RI		0	9	6	6	12			WR	17-ER-E2-10-0-9-9
17	17-ER-E2-10-156-46	ER	E2	10										156	46	VT	P		156	46	0	2	2			WR	17-ER-E2-10-156-46-7
17	17-ER-E2-10-171-44	ER	E2	10										171	44	VT	LOF		171	44	14	20	68	280		PP	17-ER-E2-10-171-44-8
17	17-ER-E2-10-209-0	ER	E2	10										209	0	VT	UC		209	0	4	0	4			WR	17-ER-E2-10-209-0-10
17	17-ER-E2-10-40-5	ER	E2	10										40	5	VT	TTH		40	5	8	10	36	80		TSPP	17-ER-E2-10-40-5-4
17	17-ER-E2-10-72-43	ER	E2	10										72	43	VT	LOF		72	43	21	16	74	336		PP	17-ER-E2-10-72-43-5
17	17-ER-E2-10-73-60	ER	E2	10										73	60	VT	P		73	60	4	0	4			WR	

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report							EEL Prove Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications		
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	Coordinate X (in)	Coordinate Y (in)	Method	Indication Type	Minimum Wall Thickness	Uplift or Topside Indication(in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)		Area of PP (sq in)	Repair Type (Patch, Weld, Cap)
17	17-ER-E2-11-186-42	ER	E2	11								186	42	VT	P			186	42	2	0	2		WR	17-ER-E2-11-186-42-3
17	17-ER-E2-11-79-44	ER	E2	11								79	44	VT	D			79	44	13	19	64	247	PP	17-ER-E2-11-79-44-4
17	17-ER-E2-12-20-22	ER	E2	12	1	20	22	VT	DENT		0.180	20	22	VT	D			20	22	8	0	25	50	PP	17-ER-E2-12-20-22-1
17	17-ER-E2-12-29-4	ER	E2	12	2	29	6	VT	DENT		0.200	29	4	VT	D			29	4	8	8	32	64	TSPP	17-ER-E2-12-29-4-2
17	17-ER-E2-12-167-0	ER	E2	12								167	0	VT	TTH			167	0	12	8	40	96	TSPP	17-ER-E2-12-167-0-5
17	17-ER-E2-12-4-60	ER	E2	12								4	60	VT	RI			4	60	5	0	5		WR	17-ER-E2-12-4-60-4
17	17-ER-E2-12-57-0	ER	E2	12								57	0	VT	RI			57	0	0	3	3		WR	17-ER-E2-12-57-0-3
17	17-ER-E1-1-161-0	ER	E1	1	1	165	0	VT	UC			161	0	VT	LOF			161	0	0	8	8		WR	17-ER-E1-1-161-0-1
17	17-ER-E1-1-115-0	ER	E1	1								115	0	VT	RI			115	0	5	0	5		WR	17-ER-E1-1-115-0-3
17	17-ER-E1-1-125-14	ER	E1	1								125	14	VT	RI			125	14	4	0	4		WR	17-ER-E1-1-125-14-5
17	17-ER-E1-1-134-0	ER	E1	1								134	0	VT	P			134	0	5	0	5		WR	17-ER-E1-1-134-0-4
17	17-ER-E1-1-186-14	ER	E1	1								186	14	VT	RI			186	14	6	0	6		WR	17-ER-E1-1-186-14-6
17	17-ER-E1-1-237-0	ER	E1	1								237	0	VT	P			237	0	4	0	4		WR	17-ER-E1-1-237-0-7
17	17-ER-E1-1-82-0	ER	E1	1								82	0	VT	P			82	0	2	0	2		WR	17-ER-E1-1-82-0-2
17	17-ER-E1-2-140-4	ER	E1	2	1	140	4	UT	BC	0.200		140	4	PAUT	BC	< 0.160		140	4	10	8	36	80	TSPP	17-ER-E1-2-140-4-1
17	17-ER-E1-2-205-3	ER	E1	2	2	205	3	VT	TC		0.250	205	3	VT	RI			205	3	12	9	42	108	TSPP	17-ER-E1-2-205-3-2
17	17-ER-E1-2-125-0	ER	E1	2								125	0	VT	P			125	0	3	0	3		WR	17-ER-E1-2-125-0-6
17	17-ER-E1-2-178-0	ER	E1	2								178	0	VT	RI			178	0	2	0	2		WR	17-ER-E1-2-178-0-13
17	17-ER-E1-2-185-13	ER	E1	2								185	13	VT	P			185	13	3	0	3		WR	17-ER-E1-2-185-13-7
17	17-ER-E1-2-2-0	ER	E1	2								2	0	VT	P			2	0	5	0	5		WR	17-ER-E1-2-2-0-3
17	17-ER-E1-2-204-0	ER	E1	2								204	0	VT	RI			204	0	3	0	3		WR	17-ER-E1-2-204-0-14
17	17-ER-E1-2-206-13	ER	E1	2								206	13	VT	LOF			206	13	8	0	25	50	PP	17-ER-E1-2-206-13-11
17	17-ER-E1-2-206-5	ER	E1	2								206	5	VT	TTH			206	5	12	12	48	144	TSPP	17-ER-E1-2-206-5-10
17	17-ER-E1-2-214-13	ER	E1	2								214	13	VT	RI			214	13	3	3	12	9	PP	17-ER-E1-2-214-13-12
17	17-ER-E1-2-228-0	ER	E1	2								228	0	VT	LOF			228	0	2	0	2		WR	17-ER-E1-2-228-0-8
17	17-ER-E1-2-235-0	ER	E1	2								235	0	VT	RI			235	0	7	0	7		WR	17-ER-E1-2-235-0-9
17	17-ER-E1-2-68-0	ER	E1	2								68	0	VT	P			68	0	4	0	4		WR	17-ER-E1-2-68-0-5
17	17-ER-E1-2-73-0	ER	E1	2								73	0	VT	RI			73	0	16	0	16		WR	17-ER-E1-2-73-0-4
17	17-ER-E1-3-120-7	ER	E1	3								120	7	VT	RI			120	7	0	12	12		WR	17-ER-E1-3-120-7-9
17	17-ER-E1-3-128-13	ER	E1	3								128	13	VT	RI			128	13	12	0	12		WR	17-ER-E1-3-128-13-8
17	17-ER-E1-3-133-0	ER	E1	3								133	0	VT	RI			133	0	8	0	8		WR	17-ER-E1-3-133-0-12
17	17-ER-E1-3-159-13	ER	E1	3								159	13	VT	RI			159	13	12	0	12		WR	17-ER-E1-3-159-13-13
17	17-ER-E1-3-172-13	ER	E1	3								172	13	VT	RI			172	13	15	0	15		WR	17-ER-E1-3-172-13-14
17	17-ER-E1-3-176-13	ER	E1	3								176	13	VT	RI			176	13	15	0	15		WR	17-ER-E1-3-176-13-15
17	17-ER-E1-3-183-0	ER	E1	3								183	0	VT	RI			183	0	8	0	8		WR	17-ER-E1-3-183-0-18
17	17-ER-E1-3-188-13	ER	E1	3								188	13	VT	RI			188	13	12	0	12		WR	17-ER-E1-3-188-13-16
17	17-ER-E1-3-218-13	ER	E1	3								218	13	VT	RI			218	13	12	0	12		WR	17-ER-E1-3-218-13-17
17	17-ER-E1-3-230-0	ER	E1	3								230	0	VT	RI			230	0	8	0	8		WR	17-ER-E1-3-230-0-19
17	17-ER-E1-3-235-0	ER	E1	3								235	0	VT	RI			235	0	16	0	16		WR	17-ER-E1-3-235-0-20
17	17-ER-E1-3-240-0	ER	E1	3								240	0	VT	RI			240	0	7	0	7		WR	17-ER-E1-3-240-0-10
17	17-ER-E1-3-32-0	ER	E1	3								32	0	VT	P			32	0	4	0	4		WR	17-ER-E1-3-32-0-2
17	17-ER-E1-3-35-0	ER	E1	3								35	0	VT	RI			35	0	8	0	25	50	PP	17-ER-E1-3-35-0-4
17	17-ER-E1-3-4-0	ER	E1	3								4	0	VT	RI			4	0	14	0	14		WR	17-ER-E1-3-4-0-3
17	17-ER-E1-3-41-0	ER	E1	3								41	0	VT	RI			41	0	4	0	4		WR	17-ER-E1-3-41-0-5
17	17-ER-E1-3-66-13	ER	E1	3								66	13	VT	RI			66	13	12	0	12		WR	17-ER-E1-3-66-13-6
17	17-ER-E1-3-7-13	ER	E1	3								7	13	VT	RI			7	13	12	0	12		WR	17-ER-E1-3-7-13-1
17	17-ER-E1-3-85-0	ER	E1	3								85	0	VT	RI			85	0	8	0	8		WR	17-ER-E1-3-85-0-11
17	17-ER-E1-3-97-13	ER	E1	3								97	13	VT	RI			97	13	12	0	12		WR	17-ER-E1-3-97-13-7
17	17-ER-E1-4-11-13	ER	E1	4								11	13	VT	P			11	13	11	0	11		WR	17-ER-E1-4-11-13-1
17	17-ER-E1-4-114-13	ER	E1	4								114	13	VT	LOF			114	13	6	0	6		WR	17-ER-E1-4-114-13-6
17	17-ER-E1-4-12-0	ER	E1	4								12	0	VT	RI			12	0	8	0	8		WR	17-ER-E1-4-12-0-3
17	17-ER-E1-4-120-8	ER	E1	4								120	8	VT	RI			120	8	10	8	36	80	PP	17-ER-E1-4-120-8-5
17	17-ER-E1-4-133-0	ER	E1	4								133	0	VT	RI			133	0	8	0	8		WR	17-ER-E1-4-133-0-9
17	17-ER-E1-4-142-13	ER	E1	4								142	13	VT	P			142	13	4	0	4		WR	17-ER-E1-4-142-13-11
17	17-ER-E1-4-145-0	ER	E1	4								145	0	VT	LOF			145	0	4	0	4		WR	17-ER-E1-4-145-0-13
17	17-ER-E1-4-164-0	ER	E1	4								164	0	VT	IF			164	0	18	0	18		WR	17-ER-E1-4-164-0-14

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report					EEL Probe Up										Recommended Repairs							Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex ID on Plate	X (in)	Coordinate Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)			
17	17-ER-E1-4-172-13	ER	E1	4							172	13	VT	LOF				172	13	4	0	4		WR	17-ER-E1-4-172-13-10		
17	17-ER-E1-4-176-0	ER	E1	4							176	0	VT	RI				176	0	4	0	4		WR	17-ER-E1-4-176-0-15		
17	17-ER-E1-4-176-13	ER	E1	4							176	13	VT	RI				176	13	4	0	4		WR	17-ER-E1-4-176-13-12		
17	17-ER-E1-4-219-0	ER	E1	4							219	0	VT	RI				219	0	4	0	4		WR	17-ER-E1-4-219-0-16		
17	17-ER-E1-4-235-0	ER	E1	4							235	0	VT	RI				235	0	4	0	4		WR	17-ER-E1-4-235-0-18		
17	17-ER-E1-4-240-0	ER	E1	4							240	0	VT	LOF				240	0	8	0	8		WR	17-ER-E1-4-240-0-17		
17	17-ER-E1-4-31-13	ER	E1	4							31	13	VT	P				31	13	4	0	4		WR	17-ER-E1-4-31-13-2		
17	17-ER-E1-4-40	ER	E1	4							4	0	VT	RI				4	0	4	0	4		WR	17-ER-E1-4-40-4		
17	17-ER-E1-4-82-5	ER	E1	4							82	5	VT	LOF				82	5	0	4	4		WR	17-ER-E1-4-82-5-19		
17	17-ER-E1-4-85-0	ER	E1	4							85	0	VT	RI				85	0	8	0	8		WR	17-ER-E1-4-85-0-8		
17	17-ER-E1-4-86-2	ER	E1	4							86	2	VT	RI				86	2	0	4	4		WR	17-ER-E1-4-86-2-7		
17	17-ER-E1-5-108-0	ER	E1	5							108	0	VT	RI				108	0	30	0	30		WR	17-ER-E1-5-108-0-6		
17	17-ER-E1-5-120-10	ER	E1	5							120	10	VT	RI				120	10	6	6	12		WR	17-ER-E1-5-120-10-3		
17	17-ER-E1-5-120-13	ER	E1	5							120	13	VT	RI				120	13	21	0	21		WR	17-ER-E1-5-120-13-5		
17	17-ER-E1-5-136-0	ER	E1	5							136	0	VT	RI				136	0	8	0	8		WR	17-ER-E1-5-136-0-11		
17	17-ER-E1-5-150-13	ER	E1	5							150	13	VT	LOF				150	13	6	0	6		WR	17-ER-E1-5-150-13-9		
17	17-ER-E1-5-152-0	ER	E1	5							152	0	VT	LOF				152	0	7	0	7		WR	17-ER-E1-5-152-0-12		
17	17-ER-E1-5-156-0	ER	E1	5							156	0	VT	RI				156	0	24	0	24		WR	17-ER-E1-5-156-0-13		
17	17-ER-E1-5-156-13	ER	E1	5							156	13	VT	RI				156	13	12	8	40	96	TSPP	17-ER-E1-5-156-13-7		
17	17-ER-E1-5-156-6	ER	E1	5							156	6	VT	RI				156	6	12	8	40	96	TSPP	17-ER-E1-5-156-6-8		
17	17-ER-E1-5-163-5	ER	E1	5							163	5	VT	TTH				163	5	12	10	44	120	TSPP	17-ER-E1-5-163-5-21		
17	17-ER-E1-5-168-13	ER	E1	5							168	13	VT	LOF				168	13	16	0	16		WR	17-ER-E1-5-168-13-10		
17	17-ER-E1-5-185-0	ER	E1	5							185	0	VT	RI				185	0	8	0	8		WR	17-ER-E1-5-185-0-17		
17	17-ER-E1-5-189-0	ER	E1	5							189	0	VT	LOF				189	0	4	0	4		WR	17-ER-E1-5-189-0-18		
17	17-ER-E1-5-209-13	ER	E1	5							209	13	VT	LOF				209	13	18	0	18		WR	17-ER-E1-5-209-13-14		
17	17-ER-E1-5-213-13	ER	E1	5							213	13	VT	RI				213	13	12	0	12		WR	17-ER-E1-5-213-13-15		
17	17-ER-E1-5-226-0	ER	E1	5							226	0	VT	LOF				226	0	11	0	11		WR	17-ER-E1-5-226-0-16		
17	17-ER-E1-5-230-0	ER	E1	5							230	0	VT	P				230	0	4	0	4		WR	17-ER-E1-5-230-0-19		
17	17-ER-E1-5-240-0	ER	E1	5							240	0	VT	RI				240	0	20	0	20		WR	17-ER-E1-5-240-0-20		
17	17-ER-E1-5-38-0	ER	E1	5							38	0	VT	RI				38	0	8	0	8		WR	17-ER-E1-5-38-0-2		
17	17-ER-E1-5-40	ER	E1	5							4	0	VT	RI				4	0	16	0	16		WR	17-ER-E1-5-40-1		
17	17-ER-E1-5-96-13	ER	E1	5							96	13	VT	RI				96	13	6	0	6		WR	17-ER-E1-5-96-13-4		
17	17-ER-E1-6-50-0	ER	E1	6				1	50		50	0	VT	TS				50	0	13	0	13		WR	17-ER-E1-6-50-0-1		
17	17-ER-E1-6-101-3	ER	E1	6							101	3	VT	LOF				101	3	5	0	5		WR	17-ER-E1-6-101-3-8		
17	17-ER-E1-6-103-0	ER	E1	6							103	0	VT	P				103	0	4	0	4		WR	17-ER-E1-6-103-0-11		
17	17-ER-E1-6-108-0	ER	E1	6							108	0	VT	P				108	0	8	0	8		WR	17-ER-E1-6-108-0-12		
17	17-ER-E1-6-119-0	ER	E1	6							119	0	VT	UC				119	0	6	0	6		WR	17-ER-E1-6-119-0-13		
17	17-ER-E1-6-125-13	ER	E1	6							125	13	VT	LOF				125	13	12	0	12		WR	17-ER-E1-6-125-13-9		
17	17-ER-E1-6-136-0	ER	E1	6							136	0	VT	LOF				136	0	8	0	8		WR	17-ER-E1-6-136-0-14		
17	17-ER-E1-6-156-13	ER	E1	6							156	13	VT	LOF				156	13	12	0	12		WR	17-ER-E1-6-156-13-15		
17	17-ER-E1-6-168-13	ER	E1	6							168	13	VT	P				168	13	5	0	5		WR	17-ER-E1-6-168-13-16		
17	17-ER-E1-6-189-0	ER	E1	6							189	0	VT	LOF				189	0	38	0	38		WR	17-ER-E1-6-189-0-18		
17	17-ER-E1-6-215-13	ER	E1	6							215	13	VT	LOF				215	13	12	0	12		WR	17-ER-E1-6-215-13-17		
17	17-ER-E1-6-280	ER	E1	6							28	0	VT	RI				28	0	4	0	4		WR	17-ER-E1-6-280-4		
17	17-ER-E1-6-36-13	ER	E1	6							36	13	VT	LOF				36	13	12	0	12		WR	17-ER-E1-6-36-13-3		
17	17-ER-E1-6-43-0	ER	E1	6							43	0	VT	LOF				43	0	13	0	13		WR	17-ER-E1-6-43-0-6		
17	17-ER-E1-6-5-13	ER	E1	6							5	13	VT	LOF				5	13	12	0	12		WR	17-ER-E1-6-5-13-2		
17	17-ER-E1-6-52-3	ER	E1	6							52	3	VT	LOF				52	3	13	0	13		WR	17-ER-E1-6-52-3-1		
17	17-ER-E1-6-60	ER	E1	6							6	0	VT	P				6	0	10	0	10		WR	17-ER-E1-6-60-5		
17	17-ER-E1-6-95-13	ER	E1	6							95	13	VT	LOF				95	13	12	0	12		WR	17-ER-E1-6-95-13-7		
17	17-ER-E1-6-98-0	ER	E1	6							98	0	VT	RI				98	0	12	0	12		WR	17-ER-E1-6-98-0-10		
17	17-ER-E1-7-18-6	ER	E1	7							18	6	VT	RI				18	6	4	0	4		WR	17-ER-E1-7-18-6-27		
17	17-ER-E1-7-117-11	ER	E1	7							117	11	VT	RI				117	11	8	8	32	64	PP	17-ER-E1-7-117-11-11		
17	17-ER-E1-7-124-13	ER	E1	7							124	13	VT	LOF				124	13	19	0	19		WR	17-ER-E1-7-124-13-12		
17	17-ER-E1-7-132-0	ER	E1	7							132	0	VT	P				132	0	8	0	8		WR	17-ER-E1-7-132-0-19		

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report							EEL Probe Up										Recommended Repairs							Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Indon Plate	Coordinate X (in)	Coordinate Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)					
17	17-ER-E1-7-138-3	ER	E1	7										VT	LOF			138	3	9	0	9		WR	17-ER-E1-7-138-3-14				
17	17-ER-E1-7-144-13	ER	E1	7										VT	P			144	13	5	0	5		WR	17-ER-E1-7-144-13-13				
17	17-ER-E1-7-145-0	ER	E1	7										VT	RI			145	0	2	0	2		WR	17-ER-E1-7-145-0-17				
17	17-ER-E1-7-156-0	ER	E1	7										VT	LOF			156	0	18	0	18		WR	17-ER-E1-7-156-0-20				
17	17-ER-E1-7-157-13	ER	E1	7										VT	LOF			157	13	24	0	24		WR	17-ER-E1-7-157-13-15				
17	17-ER-E1-7-16-0	ER	E1	7										VT	LOF			16	0	8	0	8		WR	17-ER-E1-7-16-0-5				
17	17-ER-E1-7-162-0	ER	E1	7										VT	RI			162	0	12	0	12		WR	17-ER-E1-7-162-0-21				
17	17-ER-E1-7-164-0	ER	E1	7										VT	LOF			164	0	8	0	8		WR	17-ER-E1-7-164-0-18				
17	17-ER-E1-7-168-13	ER	E1	7										VT	RI			168	13	12	0	12		WR	17-ER-E1-7-168-13-16				
17	17-ER-E1-7-178-0	ER	E1	7										VT	RI			178	0	2	0	2		WR	17-ER-E1-7-178-0-22				
17	17-ER-E1-7-184-0	ER	E1	7										VT	RI			184	0	4	0	4		WR	17-ER-E1-7-184-0-25				
17	17-ER-E1-7-213-0	ER	E1	7										VT	UC			213	0	8	0	8		WR	17-ER-E1-7-213-0-26				
17	17-ER-E1-7-223-13	ER	E1	7										VT	UC			223	13	4	0	4		WR	17-ER-E1-7-223-13-23				
17	17-ER-E1-7-233-13	ER	E1	7										VT	UC			233	13	4	0	4		WR	17-ER-E1-7-233-13-24				
17	17-ER-E1-7-36-13	ER	E1	7										VT	LOF			36	13	12	0	12		WR	17-ER-E1-7-36-13-3				
17	17-ER-E1-7-46-3	ER	E1	7										VT	RI			46	3	2	0	2		WR	17-ER-E1-7-46-3-2				
17	17-ER-E1-7-60-3	ER	E1	7										VT	LOF			6	0	36	0	36		WR	17-ER-E1-7-60-4				
17	17-ER-E1-7-65-13	ER	E1	7										VT	LOF			65	13	12	0	12		WR	17-ER-E1-7-65-13-6				
17	17-ER-E1-7-68-3	ER	E1	7										VT	UC			68	3	15	0	15		WR	17-ER-E1-7-68-3-7				
17	17-ER-E1-7-92-13	ER	E1	7										VT	P			92	13	4	0	4		WR	17-ER-E1-7-92-13-8				
17	17-ER-E1-7-94-3	ER	E1	7										VT	RI			94	3	4	0	4		WR	17-ER-E1-7-94-3-9				
17	17-ER-E1-7-96-13	ER	E1	7										VT	LOF			96	13	12	0	12		WR	17-ER-E1-7-96-13-10				
17	17-ER-E1-8-0-13	ER	E1	8										VT	LOF			0	13	8	0	8		WR	17-ER-E1-8-0-13-9				
17	17-ER-E1-8-10-0	ER	E1	8										VT	P			10	0	5	0	5		WR	17-ER-E1-8-10-0-3				
17	17-ER-E1-8-108-0	ER	E1	8										VT	P			108	0	8	0	8		WR	17-ER-E1-8-108-0-8				
17	17-ER-E1-8-115-0	ER	E1	8										VT	LOF			115	0	8	0	8		WR	17-ER-E1-8-115-0-23				
17	17-ER-E1-8-120-0	ER	E1	8										VT	LOF			120	0	12	0	12		WR	17-ER-E1-8-120-0-24				
17	17-ER-E1-8-124-0	ER	E1	8										VT	UC			124	0	12	0	12		WR	17-ER-E1-8-124-0-15				
17	17-ER-E1-8-124-13	ER	E1	8										VT	LOF			124	13	8	0	8		WR	17-ER-E1-8-124-13-17				
17	17-ER-E1-8-128-0	ER	E1	8										VT	LOF			128	0	8	0	8		WR	17-ER-E1-8-128-0-20				
17	17-ER-E1-8-132-13	ER	E1	8										VT	LOF			132	13	9	0	9		WR	17-ER-E1-8-132-13-18				
17	17-ER-E1-8-134-0	ER	E1	8										VT	LOF			134	0	10	10	40	100	TSPP	17-ER-E1-8-134-0-19				
17	17-ER-E1-8-138-0	ER	E1	8										VT	LOF			138	0	8	0	8		WR	17-ER-E1-8-138-0-25				
17	17-ER-E1-8-14-0	ER	E1	8										VT	LOF			14	0	4	0	4		WR	17-ER-E1-8-14-0-2				
17	17-ER-E1-8-142-13	ER	E1	8										VT	LOF			142	13	15	0	15		WR	17-ER-E1-8-142-13-11				
17	17-ER-E1-8-153-0	ER	E1	8										VT	LOF			153	0	8	0	8		WR	17-ER-E1-8-153-0-16				
17	17-ER-E1-8-155-13	ER	E1	8										VT	LOF			155	13	8	0	8		WR	17-ER-E1-8-155-13-12				
17	17-ER-E1-8-161-0	ER	E1	8										VT	RI			161	0	12	0	12		WR	17-ER-E1-8-161-0-27				
17	17-ER-E1-8-168-0	ER	E1	8										VT	LOF			168	0	8	0	8		WR	17-ER-E1-8-168-0-10				
17	17-ER-E1-8-170-13	ER	E1	8										VT	P			170	13	36	0	36		WR	17-ER-E1-8-170-13-13				
17	17-ER-E1-8-17-0	ER	E1	8										VT	LOF			17	0	8	0	8		WR	17-ER-E1-8-17-0-4				
17	17-ER-E1-8-178-0	ER	E1	8										VT	LOF			178	0	8	0	8		WR	17-ER-E1-8-178-0-14				
17	17-ER-E1-8-182-13	ER	E1	8										VT	LOF			182	13	6	0	6		WR	17-ER-E1-8-182-13-29				
17	17-ER-E1-8-183-13	ER	E1	8										VT	LOF			183	13	12	0	12		WR	17-ER-E1-8-183-13-30				
17	17-ER-E1-8-190-0	ER	E1	8										VT	RI			190	0	4	0	4		WR	17-ER-E1-8-190-0-33				
17	17-ER-E1-8-196-0	ER	E1	8										VT	LOF			196	0	16	0	16		WR	17-ER-E1-8-196-0-34				
17	17-ER-E1-8-198-0	ER	E1	8										VT	LOF			198	0	8	0	8		WR	17-ER-E1-8-198-0-28				
17	17-ER-E1-8-204-0	ER	E1	8										VT	LOF			204	0	8	0	8		WR	17-ER-E1-8-204-0-35				
17	17-ER-E1-8-214-13	ER	E1	8										VT	LOF			214	13	14	0	14		WR	17-ER-E1-8-214-13-31				
17	17-ER-E1-8-216-13	ER	E1	8										VT	LOF			216	13	12	0	12		WR	17-ER-E1-8-216-13-32				
17	17-ER-E1-8-228-0	ER	E1	8										VT	LOF			228	0	8	0	8		WR	17-ER-E1-8-228-0-36				
17	17-ER-E1-8-230-0	ER	E1	8										VT	RI			230	0	8	0	8		WR	17-ER-E1-8-230-0-37				
17	17-ER-E1-8-236-0	ER	E1	8										VT	P			236	0	5	0	5		WR	17-ER-E1-8-236-0-26				
17	17-ER-E1-8-47-0	ER	E1	8										VT	LOF			47	0	8	0	8		WR	17-ER-E1-8-47-0-1				
17	17-ER-E1-8-56-0	ER	E1	8										VT	LOF			56	0	16	0	16		WR	17-ER-E1-8-56-0-5				
17	17-ER-E1-8-66-0	ER	E1	8										VT	LOF			66	0	8	0	8		WR	17-ER-E1-8-66-0-22				

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report						EEL Prove Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications		
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	Coordinate X (in)	Coordinate Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)		Area of PP (sq in)	Repair Type (Patch, Weld, Cap)
17	17-ER-E1-8-72-0	ER	E1	8								72	0	VT	LOF			72	0	8	0	8		WR	17-ER-E1-8-72-0-6
17	17-ER-E1-8-92-0	ER	E1	8								92	0	VT	P			92	0	5	0	5		WR	17-ER-E1-8-92-0-7
17	17-ER-E1-8-93-0	ER	E1	8								93	0	VT	LOF			93	0	8	0	8		WR	17-ER-E1-8-93-0-21
17	17-ER-E1-9-0-0	ER	E1	9								0	0	VT	P			0	0	4	0	4		WR	17-ER-E1-9-0-0-2
17	17-ER-E1-9-0-3	ER	E1	9								0	3	VT	P			0	3	0	4	4		WR	17-ER-E1-9-0-3-4
17	17-ER-E1-9-114-17	ER	E1	9								114	17	VT	P			114	17	4	0	4		WR	17-ER-E1-9-114-17-11
17	17-ER-E1-9-146-17	ER	E1	9								146	17	VT	RI			146	17	4	0	4		WR	17-ER-E1-9-146-17-10
17	17-ER-E1-9-151-0	ER	E1	9								151	0	VT	P			151	0	18	0	18		WR	17-ER-E1-9-151-0-9
17	17-ER-E1-9-184-11	ER	E1	9								184	11	VT	P			184	11	3	0	3		WR	17-ER-E1-9-184-11-8
17	17-ER-E1-9-212-17	ER	E1	9								212	17	VT	P			212	17	4	0	4		WR	17-ER-E1-9-212-17-7
17	17-ER-E1-9-22-17	ER	E1	9								22	17	VT	P			22	17	4	0	4		WR	17-ER-E1-9-22-17-3
17	17-ER-E1-9-222-17	ER	E1	9								222	17	VT	P			222	17	4	0	4		WR	17-ER-E1-9-222-17-6
17	17-ER-E1-9-5-17	ER	E1	9								5	17	VT	UC			5	17	10	0	10		WR	17-ER-E1-9-5-17-5
17	17-ER-E1-9-57-9	ER	E1	9								57	9	VT	P			57	9	2	0	2		WR	17-ER-E1-9-57-9-12
17	17-ER-E1-9-74-0	ER	E1	9								74	0	VT	RI			74	0	12	0	12		WR	17-ER-E1-9-74-0-1
17	17-ER-E1-9-74-17	ER	E1	9								74	17	VT	RI			74	17	2	0	2		WR	17-ER-E1-9-74-17-13
17	17-ER-E1-9-88-3	ER	E1	9								88	3	VT	P			88	3	4	0	4		WR	17-ER-E1-9-88-3-14
17	17-ER-E1-10-0-0	ER	E1	10								10	0	VT	P			10	0	10	0	10		WR	17-ER-E1-10-0-0-12
17	17-ER-E1-10-10-17	ER	E1	10								10	17	VT	LOF			10	17	6	0	6		WR	17-ER-E1-10-10-17-13
17	17-ER-E1-10-110-17	ER	E1	10								110	17	VT	P			110	17	4	0	4		WR	17-ER-E1-10-110-17-10
17	17-ER-E1-10-131-0	ER	E1	10								131	0	VT	P			131	0	4	0	4		WR	17-ER-E1-10-131-0-9
17	17-ER-E1-10-154-17	ER	E1	10								154	17	VT	P			154	17	4	0	4		WR	17-ER-E1-10-154-17-11
17	17-ER-E1-10-17-18	ER	E1	10								17	18	VT	LOF			17	18	6	0	6		WR	17-ER-E1-10-17-18-3
17	17-ER-E1-10-179-0	ER	E1	10								179	0	VT	P			179	0	2	0	2		WR	17-ER-E1-10-179-0-8
17	17-ER-E1-10-188-17	ER	E1	10								188	17	VT	UC			188	17	8	0	8		WR	17-ER-E1-10-188-17-7
17	17-ER-E1-10-199-16	ER	E1	10								199	16	VT	P			199	16	4	0	4		WR	17-ER-E1-10-199-16-5
17	17-ER-E1-10-199-17	ER	E1	10								199	17	VT	P			199	17	3	0	3		WR	17-ER-E1-10-199-17-6
17	17-ER-E1-10-222-17	ER	E1	10								222	17	VT	P			222	17	4	0	4		WR	17-ER-E1-10-222-17-4
17	17-ER-E1-10-6-0	ER	E1	10								6	0	VT	UC			6	0	4	0	4		WR	17-ER-E1-10-6-0-1
17	17-ER-E1-10-9-6	ER	E1	10								9	6	VT	TTH			9	6	8	0	25	50	PP	17-ER-E1-10-9-6-2
17	17-ER-E1-11-0-16	ER	E1	11								16	0	VT	RI			16	0	4	0	4		WR	17-ER-E1-11-0-16-9
17	17-ER-E1-11-101-0	ER	E1	11								101	0	VT	RI			101	0	2	0	2		WR	17-ER-E1-11-101-0-6
17	17-ER-E1-11-104-18	ER	E1	11								104	18	VT	P			104	18	4	0	4		WR	17-ER-E1-11-104-18-4
17	17-ER-E1-11-105-10	ER	E1	11								105	10	VT	TTH			105	10	12	10	44	120	TSPP	17-ER-E1-11-105-10-3
17	17-ER-E1-11-195-2	ER	E1	11								195	2	VT	RI			195	2	4	0	4		WR	17-ER-E1-11-195-2-2
17	17-ER-E1-11-202-0	ER	E1	11								202	0	VT	RI			202	0	8	0	8		WR	17-ER-E1-11-202-0-1
17	17-ER-E1-11-2-17	ER	E1	11								2	17	VT	P			2	17	3	0	3		WR	17-ER-E1-11-2-17-10
17	17-ER-E1-11-46-0	ER	E1	11								46	0	VT	P			46	0	4	0	4		WR	17-ER-E1-11-46-0-7
17	17-ER-E1-11-7-0	ER	E1	11								7	0	VT	P			7	0	4	0	4		WR	17-ER-E1-11-7-0-8
17	17-ER-E1-11-72-0	ER	E1	11								72	0	VT	P			72	0	4	0	4		WR	17-ER-E1-11-72-0-5
17	17-ER-E1-12-123-9	ER	E1	12	1	123	9 to 10	VT	POR	0.125		123	9	VT	P			123	9	0	3	3		WR	17-ER-E1-12-123-9-1
17	17-ER-E1-12-119-8	ER	E1	12	2	119	8	VT	LOF			119	8	VT	LOF			119	8	4	0	4		WR	17-ER-E1-12-119-8-2
17	17-ER-E1-12-159-0	ER	E1	12								159	0	VT	RI			159	0	4	0	4		WR	17-ER-E1-12-159-0-3
17	17-ER-E1-12-182-0	ER	E1	12								182	0	VT	P			182	0	8	0	8		WR	17-ER-E1-12-182-0-4
17	17-ER-E1-12-185-5	ER	E1	12								185	5	VT	TTH			185	5	10	10	40	100	TSPP	17-ER-E1-12-185-5-6
17	17-ER-E1-12-201-0	ER	E1	12								201	0	VT	P			201	0	3	0	3		WR	17-ER-E1-12-201-0-5
17	17-ER-E1-12-60-18	ER	E1	12								60	18	VT	RI			60	18	3	0	3		WR	17-ER-E1-12-60-18-8
17	17-ER-E1-12-97-0	ER	E1	12								97	0	VT	P			97	0	4	0	4		WR	17-ER-E1-12-97-0-7
17	17-ER-E1-13-1-0	ER	E1	13								11	0	VT	P			11	0	2	0	2		WR	17-ER-E1-13-1-0-12
17	17-ER-E1-13-120-9	ER	E1	13								120	9	VT	RI			120	9	2	0	2		WR	17-ER-E1-13-120-9-9
17	17-ER-E1-13-157-0	ER	E1	13								157	0	VT	P			157	0	2	0	2		WR	17-ER-E1-13-157-0-5
17	17-ER-E1-13-168-18	ER	E1	13								168	18	VT	P			168	18	10	0	10		WR	17-ER-E1-13-168-18-4
17	17-ER-E1-13-180-18	ER	E1	13								180	18	VT	P			180	18	2	0	2		WR	17-ER-E1-13-180-18-1
17	17-ER-E1-13-184-0	ER	E1	13								184	0	VT	P			184	0	2	0	2		WR	17-ER-E1-13-184-0-2
17	17-ER-E1-13-187-0	ER	E1	13								187	0	VT	RI			187	0	4	0	4		WR	17-ER-E1-13-187-0-6
17	17-ER-E1-13-19-0	ER	E1	13								19	0	VT	P			19	0	4	0	4		WR	17-ER-E1-13-19-0-13

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Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report							EEL Probe Up						Recommended Repairs							Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	
17	17-BA-24-9-11-2	BA	24	9								11	2	VT	TTH			11	2	12	12	48	144	PP	17-BA-24-9-11-2-1
17	17-BA-24-10-131-3	BA	24	10								131	3	VT	TTH			131	3	12	12	48	144	PP	17-BA-24-10-131-2-1
17	17-BA-24-11-227-3	BA	24	11								227	3	VT	TTH			227	3	12	12	48	144	PP	17-BA-24-11-227-3-1
17	17-BA-24-12-114-0	BA	24	12								114	0	VT	UC			114	0	12	0	12	48	WR	17-BA-24-12-114-0-1
17	17-BA-24-13-68-3	BA	24	13								68	3	VT	TTH			68	3	12	12	48	144	PP	17-BA-24-13-68-3-1
17	17-BA-24-16-100-3	BA	24	16								100	3	VT	TTH			100	0	12	12	48	144	PP	17-BA-24-16-100-0-2
17	17-BA-24-16-215-41	BA	24	16								215	41	VT	UC			215	41	12	12	48	144	PP	17-BA-24-16-215-41-1
17	17-BA-23-1-145-56	BA	23	1								145	56	VT	P			145	56	2	0	2	48	WR	17-BA-23-1-145-56-2
17	17-BA-23-1-150-56	BA	23	1								150	56	VT	UC			150	56	5	0	5	48	WR	17-BA-23-1-150-56-1
17	17-BA-23-1-90-58	BA	23	1								90	58	VT	P			90	58	2	0	2	48	WR	17-BA-23-1-90-58-3
17	17-BA-23-2-142-0	BA	23	2								142	0	VT	RI			142	0	4	0	4	48	WR	17-BA-23-2-142-0-2
17	17-BA-23-3-157-0	BA	23	2								90	0	VT	P			90	0	12	0	38	113	PP	17-BA-23-2-90-0-1
17	17-BA-23-3-157-0	BA	23	3								157	0	VT	UC			157	0	4	0	4	48	WR	17-BA-23-3-157-0-2
17	17-BA-23-3-203-3	BA	23	3								203	3	VT	TTH			199	4	12	0	38	113	PP	17-BA-23-3-199-4-1
17	17-BA-23-3-250-3	BA	23	3								25	0	VT	UC			25	0	4	0	4	48	WR	17-BA-23-3-250-3-1
17	17-BA-23-4-225-45	BA	23	4	1	225	45	VT	TS			225	45	VT	TS			225	45	1	0	1	48	WR	17-BA-23-4-225-45-1
17	17-BA-23-4-63-0	BA	23	4								63	0	VT	RI			63	0	5	0	5	48	WR	17-BA-23-4-63-0-2
17	17-BA-23-6-160-2	BA	23	6								160	2	VT	TTH			160	2	12	12	48	144	PP	17-BA-23-6-160-2-3
17	17-BA-23-6-210-0	BA	23	6								210	0	VT	LOF			210	0	6	0	6	48	WR	17-BA-23-6-210-0-2
17	17-BA-23-6-226-37	BA	23	6	4	226	37	VT	UC			226	37	VT	UC			226	37	0	10	10	48	WR	17-BA-23-6-226-37-1
17	17-BA-23-7-0-17	BA	23	7								0	17	VT	P			0	17	0	4	4	48	WR	17-BA-23-7-0-17-2
17	17-BA-23-7-188-0	BA	23	7	2	188	0	VT	POR			188	0	VT	P			188	0	6	0	6	48	WR	17-BA-23-7-188-0-1
17	17-BA-23-8-239-56	BA	23	8								239	56	VT	UC			239	56	12	12	48	144	PP	17-BA-23-8-239-6-1
17	17-BA-23-8-35-0	BA	23	8								35	0	VT	UC			35	0	2	0	2	48	WR	17-BA-23-8-35-0-2
17	17-BA-23-9-130-2	BA	23	9								130	2	VT	TTH			131	2	12	12	48	144	PP	17-BA-23-9-131-2-2
17	17-BA-23-9-150-0	BA	23	9								150	0	VT	LOF			150	0	12	12	48	144	PP	17-BA-23-9-150-0-1
17	17-BA-23-10-76-32	BA	23	10								76	32	VT	LOF			76	32	0	6	6	48	WR	17-BA-23-10-76-32-1
17	17-BA-23-11-0-58	BA	23	11								0	58	VT	P			0	58	0	2	2	48	WR	17-BA-23-11-0-58-1
17	17-BA-23-11-10-3	BA	23	11								10	3	VT	TTH			10	2	12	12	48	144	PP	17-BA-23-11-10-2-2
17	17-BA-23-12-106-2	BA	23	12								106	2	VT	TTH			106	2	12	12	48	144	PP	17-BA-23-12-106-2-2
17	17-BA-23-12-30-0	BA	23	12								30	0	VT	P			30	0	12	12	48	144	PP	17-BA-23-12-30-0-1
17	17-BA-23-13-187-3	BA	23	13								187	3	VT	TTH			187	3	12	12	48	144	PP	17-BA-23-13-187-3-1
17	17-BA-23-15-139-32	BA	23	15	4	139	32	VT	TC			139	32	VT	TS			139	32	6	0	19	28	PP	17-BA-23-15-139-32-1
17	17-BA-23-15-65-6	BA	23	15								65	6	VT	LOF			65	6	3	0	3	48	WR	17-BA-23-15-65-6-2
17	17-BA-23-16-153-3	BA	23	16								153	3	VT	TTH			152	3	12	12	48	144	PP	17-BA-23-16-152-3-1
17	17-BA-23-16-24-0	BA	23	16								24	0	VT	P			24	0	3	0	3	48	WR	17-BA-23-16-24-0-2
17	17-BA-22-3-193-0	BA	22	3								193	0	VT	UC			193	0	10	0	10	48	WR	17-BA-22-3-193-0-1
17	17-BA-22-3-82-3	BA	22	3								82	3	VT	TTH			73	0	24	24	96	576	PP	17-BA-22-3-73-0-2
17	17-BA-22-6-40-2	BA	22	6								40	2	VT	TTH			40	2	12	12	48	144	PP	17-BA-22-6-40-2-2
17	17-BA-22-6-54-0	BA	22	6	2	48	60	VT	POR			54	0	VT	P			71	0	36	0	36	48	WR	17-BA-22-6-71-0-1
17	17-BA-22-9-10-2	BA	22	9								10	2	VT	TTH			10	2	12	12	48	144	PP	17-BA-22-9-10-2-1
17	17-BA-22-10-129-2	BA	22	10								129	2	VT	TTH			129	2	12	12	48	144	PP	17-BA-22-10-129-2-1
17	17-BA-22-11-227-3	BA	22	11								227	3	VT	TTH			227	3	12	12	48	144	PP	17-BA-22-11-227-3-1
17	17-BA-22-12-92-0	BA	22	12								92	0	VT	P			92	0	2	0	2	48	WR	17-BA-22-12-92-0-1
17	17-BA-22-13-66-3	BA	22	13								66	3	VT	TTH			71	0	24	24	96	576	PP	17-BA-22-13-71-0-1
17	17-BA-22-16-100-3	BA	22	16								100	3	VT	TTH			101	3	12	12	48	144	PP	17-BA-22-16-101-3-1
17	17-BA-22-16-210-57	BA	22	16								210	57	VT	UC			210	57	2	0	2	48	WR	17-BA-22-16-210-57-2
17	17-BA-21-3-201-3	BA	21	3								201	3	VT	TTH			192	0	24	24	96	576	PP	17-BA-21-3-192-0-1
17	17-BA-21-3-60-0	BA	21	3								60	0	VT	RI			60	0	4	0	4	48	WR	17-BA-21-3-60-0-2
17	17-BA-21-4-0-38	BA	21	4								0	38	VT	IF			0	38	0	4	4	48	WR	17-BA-21-4-0-38-1
17	17-BA-21-4-4-0	BA	21	4								4	0	VT	UC			4	0	14	0	14	48	WR	17-BA-21-4-4-0-2
17	17-BA-21-5-80-0	BA	21	5								80	0	VT	P			80	0	12	0	38	113	PP	17-BA-21-5-80-0-1
17	17-BA-21-6-153-5	BA	21	6								153	5	VT	TTH			156	0	24	24	96	576	PP	17-BA-21-6-156-0-2
17	17-BA-21-6-180-0	BA	21	6	5	180	0	VT	POR			180	0	VT	P			180	0	2	0	2	48	WR	17-BA-21-6-180-0-1
17	17-BA-21-9-130-2	BA	21	9								130	2	VT	TTH			130	2	12	12	48	144	PP	17-BA-21-9-130-2-1
17	17-BA-21-11-9-2	BA	21	11								9	2	VT	TTH			9	2	12	12	48	144	PP	17-BA-21-11-9-2-1

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report							EEL Probe Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications					
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Uplift (in)	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Repair: X (in)	Repair: Y (in)	Width or Dia (in)	Height (in)		Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)		
17	17-BA-21-12-106-2	BA	21	12												106	2	VT	TTH			2	12	12	48	144	PP	17-BA-21-12-106-2-2	
17	17-BA-21-12-30-60	BA	21	12	1	31-36	56-58									30	60	PAUT	BC			30	60	12	0	38	113	PC	17-BA-21-12-30-60-1
17	17-BA-21-13-186-3	BA	21	13												186	3	VT	TTH			0	24	24	96	576	PP	17-BA-21-13-191-0-1	
17	17-BA-21-14-28-0	BA	21	14												28	0	VT	UC			0	3	0	3		WR	17-BA-21-14-28-0-2	
17	17-BA-21-14-53-0	BA	21	14												53	0	VT	P			0	3	0	3		WR	17-BA-21-14-53-0-1	
17	17-BA-21-15-64-2-1	BA	21	15												64	2	VT	LOF			2	12	12	48	144	PP	17-BA-21-15-64-2-1	
17	17-BA-21-16-150-3	BA	21	16												150	3	VT	TTH			1	19	12	62	228	PP	17-BA-21-16-146-1-1	
17	17-BA-20-3-80-2	BA	20	3												80	2	VT	TTH			3	12	0	38	113	PP	17-BA-20-3-78-3-2	
17	17-BA-20-3-96-0-1	BA	20	3												96	0	VT	P			0	6	0	6		WR	17-BA-20-3-96-0-1	
17	17-BA-20-4-116-56	BA	20	4												116	56	VT	LOF			56	4	0	4		WR	17-BA-20-4-116-56-3	
17	17-BA-20-4-146-60	BA	20	4	1	146	60									146	60	VT	IF			60	4	0	4		WR	17-BA-20-4-146-60-1	
17	17-BA-20-4-200-0	BA	20	4	2	200	0									200	0	VT	IF			0	12	0	38	113	PP	17-BA-20-4-200-0-2	
17	17-BA-20-6-36-0-1	BA	20	6												36	0	VT	TTH			0	24	24	96	576	PP	17-BA-20-6-36-0-1	
17	17-BA-20-7-140-0-3	BA	20	7												140	0	VT	LOF			0	12	12	48	144	PP	17-BA-20-7-140-0-3	
17	17-BA-20-7-240-48-1	BA	20	7	1	240	48					0.100				240	48	VT	TS			48	0	2	2		WR	17-BA-20-7-240-48-1	
17	17-BA-20-7-94-0-2	BA	20	7												94	0	VT	P			0	3	0	3		WR	17-BA-20-7-94-0-2	
17	17-BA-20-8-150-0-1	BA	20	8												150	0	VT	P			0	2	0	2		WR	17-BA-20-8-150-0-1	
17	17-BA-20-9-10-2-1	BA	20	9												10	2	VT	TTH			2	12	12	48	144	PP	17-BA-20-9-10-2-1	
17	17-BA-20-10-127-2	BA	20	10												127	2	VT	TTH			1	12	12	48	144	PP	17-BA-20-10-129-1-1	
17	17-BA-20-11-0-32-2	BA	20	11												0	32	VT	LOF			0	2	2	2		WR	17-BA-20-11-0-32-2	
17	17-BA-20-11-0-38-3	BA	20	11												0	38	VT	LOF			0	38	0	2	2		WR	17-BA-20-11-0-38-3
17	17-BA-20-11-0-46-4	BA	20	11												0	46	VT	LOF			0	46	0	2	2		WR	17-BA-20-11-0-46-4
17	17-BA-20-11-0-49-5	BA	20	11												0	49	VT	LOF			0	49	0	2	2		WR	17-BA-20-11-0-49-5
17	17-BA-20-11-226-2-1	BA	20	11												226	2	VT	TTH			2	12	12	48	144	PP	17-BA-20-11-226-2-1	
17	17-BA-20-12-0-24-1	BA	20	12												0	24	VT	LOF			0	2	2	2		WR	17-BA-20-12-0-24-1	
17	17-BA-20-13-66-2-1	BA	20	13												66	2	VT	TTH			2	12	12	48	144	PP	17-BA-20-13-66-2-1	
17	17-BA-20-14-185-0-1	BA	20	14												185	0	VT	LOF			0	12	12	48	144	PP	17-BA-20-14-185-0-1	
17	17-BA-20-16-100-0-1	BA	20	16												100	3	VT	TTH			0	12	12	48	144	PP	17-BA-20-16-100-0-1	
17	17-BA-19-2-83-0-1	BA	19	2	1	80-86	0									83	0	VT	P			0	12	0	38	113	PC	17-BA-19-2-83-0-1	
17	17-BA-19-3-199-2-1	BA	19	3												199	2	VT	TTH			2	12	12	48	144	PP	17-BA-19-3-199-2-1	
17	17-BA-19-6-152-2	BA	19	6												152	2	VT	TTH			0	12	12	48	144	PP	17-BA-19-6-151-0-1	
17	17-BA-19-8-20-1-2	BA	19	8												20	1	VT	P			0	6	0	6		WR	17-BA-19-8-20-1-2	
17	17-BA-19-8-204-0-1	BA	19	8	1	204	0									204	0	VT	P			2	0	2	2		WR	17-BA-19-8-204-0-1	
17	17-BA-19-9-129-2-1	BA	19	9												129	2	VT	TTH			2	12	12	48	144	PP	17-BA-19-9-129-2-1	
17	17-BA-19-10-0-19	BA	19	10	1	0	14-24									0	19	VT	WI			0	25	0	10	10		WR	17-BA-19-10-0-25-1
17	17-BA-19-10-0-40	BA	19	10	3	0	38-43									0	40	VT	WI			0	40	0	16	16		WR	17-BA-19-10-0-40-2
17	17-BA-19-10-0-8	BA	19	10	5	0	10									0	8	VT	UC			0	8	0	8	8		WR	17-BA-19-10-0-8-3
17	17-BA-19-10-60-37-4	BA	19	10												60	37	VT	G			60	37	6	0	19	28	PP	17-BA-19-10-60-37-4
17	17-BA-19-11-47-0-2	BA	19	11												47	0	VT	P			0	3	0	3		WR	17-BA-19-11-47-0-2	
17	17-BA-19-11-7-2	BA	19	11												7	2	VT	TTH			2	12	12	48	144	PP	17-BA-19-11-9-2-1	
17	17-BA-19-12-106-2	BA	19	12												106	2	VT	TTH			0	36	24	120	864	PP	17-BA-19-12-114-0-1	
17	17-BA-19-13-150-0-1	BA	19	13												150	0	VT	P			0	12	12	48	144	PP	17-BA-19-13-150-0-1	
17	17-BA-19-13-186-2	BA	19	13												186	2	VT	TTH			2	12	12	48	144	PP	17-BA-19-13-186-2-2	
17	17-BA-19-15-139-26-1	BA	19	15												139	26	VT	TS			26	6	0	19	28	PP	17-BA-19-15-139-26-1	
17	17-BA-19-15-64-1-2	BA	19	15	1	139	26									64	1	VT	P			64	1	5	0	5		WR	17-BA-19-15-64-1-2
17	17-BA-19-16-144-0-1	BA	19	16												144	0	VT	TTH			0	22	14	72	308	PP	17-BA-19-16-144-0-1	
17	17-BA-19-16-144-0-2	BA	19	16												144	0	VT	PA			0	10	0	31	79	PC	17-BA-19-16-144-0-2	
17	17-BA-18-1-210-0-1	BA	18	1												210	0	VT	LOF			0	12	12	48	144	PP	17-BA-18-1-210-0-1	
17	17-BA-18-3-79-3-1	BA	18	3												79	3	VT	TTH			3	12	12	48	144	PP	17-BA-18-3-79-3-1	
17	17-BA-18-4-116-43-1	BA	18	4												116	43	VT	LOF			4	0	4	4		WR	17-BA-18-4-116-43-1	
17	17-BA-18-6-150-0-1	BA	18	6												150	0	VT	P			0	0	2	2		WR	17-BA-18-6-150-0-1	
17	17-BA-18-6-31-4	BA	18	6												31	4	VT	TTH			0	16	0	50	201	PC	17-BA-18-6-290-2	
17	17-BA-18-7-150-0-1	BA	18	7												150	0	VT	P			3	2	0	2		WR	17-BA-18-7-150-0-1	
17	17-BA-18-9-2-1	BA	18	9												9	2	VT	TTH			2	12	12	48	144	PP	17-BA-18-9-2-1	
17	17-BA-18-10-127-2	BA	18	10												127	2	VT	TTH			1	12	12	48	144	PP	17-BA-18-10-129-1-1	
17	17-BA-																												

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report							EEL Probe Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications				
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	Coordinate X (in)	Coordinate Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Indication X (in)	Center of Indication Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair X (in)	Center of Repair Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)		Area of PP (sq in)	Repair Type (Patch, Weld, Cap)		
17	17-BA-18-12-156-0	BA	18	12									156	0	VT	P			156	0	4	0	4		WR	17-BA-18-12-156-0-1	
17	17-BA-18-12-83-36	BA	18	12									83	36	VT	LOF			83	36	2	0	2		WR	17-BA-18-12-83-36-2	
17	17-BA-18-13-150-0	BA	18	13									150	0	VT	P			150	0	3	0	3		WR	17-BA-18-13-150-0-1	
17	17-BA-18-13-65-2	BA	18	13									65	2	VT	TTH			65	2	12	12	48	144	PP	17-BA-18-13-65-2-2	
17	17-BA-18-16-101-3	BA	18	16									101	3	VT	TTH			101	3	12	12	48	144	PP	17-BA-18-16-101-2-1	
17	17-BA-18-16-18-0	BA	18	16									18	0	VT	P			18	0	4	0	4		WR	17-BA-18-16-18-0-2	
17	17-BA-17-1-0-26	BA	17	1	1	0	16-36	BFET	WI				0	26	0	VT	WI			0	26	0	24	24		WR	17-BA-17-1-0-26-1
17	17-BA-17-1-215-0	BA	17	1									215	0	VT	P			215	0	2	0	2		WR	17-BA-17-1-215-0-2	
17	17-BA-17-2-216-0	BA	17	2									216	0	VT	LOF			216	0	4	0	4		WR	17-BA-17-2-216-0-2	
17	17-BA-17-2-84-0	BA	17	2	1	84	0	VT	POR				84	0	VT	P			90	0	12	0	38	113	PP	17-BA-17-2-90-0-1	
17	17-BA-17-3-199-3	BA	17	3									199	3	VT	TTH			199	3	12	12	48	144	PP	17-BA-17-3-199-3-1	
17	17-BA-17-3-21-0	BA	17	3									21	0	VT	LOF			21	0	4	0	4		WR	17-BA-17-3-21-0-2	
17	17-BA-17-4-0-56	BA	17	4									0	56	0	VT	RI			0	56	0	5	5		WR	17-BA-17-4-0-56-2
17	17-BA-17-4-239-0	BA	17	4									239	0	VT	RI			239	0	6	0	6		WR	17-BA-17-4-239-0-1	
17	17-BA-17-4-35-0	BA	17	4									35	0	VT	RI			35	0	3	0	3		WR	17-BA-17-4-35-0-3	
17	17-BA-17-6-151-2	BA	17	6									151	2	VT	TTH			151	0	12	12	48	144	PP	17-BA-17-6-151-0-1	
17	17-BA-17-7-33-0	BA	17	7	2	33	0	VT	POR				33	0	VT	P			33	0	2	0	2		WR	17-BA-17-7-33-0-1	
17	17-BA-17-7-90-0	BA	17	7									90	0	VT	LOF			90	0	6	0	6		WR	17-BA-17-7-90-0-2	
17	17-BA-17-8-30-0	BA	17	8	2	30	0	VT	POR				30	0	VT	P			30	0	2	0	2		WR	17-BA-17-8-30-0-1	
17	17-BA-17-9-129-2	BA	17	9	3	125	0	VT	LF				129	2	VT	TTH			129	2	12	12	48	144	PP	17-BA-17-9-129-2-2	
17	17-BA-17-9-28-0	BA	17	9									28	0	VT	P			28	0	2	0	2		WR	17-BA-17-9-28-0-3	
17	17-BA-17-9-50-3	BA	17	9	4	50	3	VT	TC			0.125	50	3	VT	TS			50	3	12	12	48	144	PP	17-BA-17-9-50-3-1	
17	17-BA-17-10-210-0	BA	17	10									210	0	VT	P			210	0	2	0	2		WR	17-BA-17-10-210-0-1	
17	17-BA-17-11-29-0	BA	17	11									29	0	VT	P			29	0	2	0	2		WR	17-BA-17-11-29-0-1	
17	17-BA-17-11-6-2	BA	17	11									6	2	VT	TTH			9	2	12	12	48	144	PP	17-BA-17-11-6-2-1	
17	17-BA-17-12-104-3	BA	17	12									104	3	VT	TTH			114	0	36	24	120	864	PP	17-BA-17-12-114-0-1	
17	17-BA-17-13-185-2	BA	17	13									185	2	VT	TTH			185	2	12	12	48	144	PP	17-BA-17-13-185-2-2	
17	17-BA-17-13-33-0	BA	17	13									33	0	VT	UC			33	0	2	0	2		WR	17-BA-17-13-33-0-1	
17	17-BA-17-16-152-3	BA	17	16									152	3	VT	TTH			152	3	12	12	48	144	PP	17-BA-17-16-152-3-1	
17	17-BA-16-1-210-0	BA	16	1	1	204	0	VT	POR				210	0	VT	P			210	0	12	12	48	144	PP	17-BA-16-1-210-0-1	
17	17-BA-16-2-31-0	BA	16	2									31	0	VT	RI			31	0	4	0	4		WR	17-BA-16-2-31-0-1	
17	17-BA-16-3-78-2	BA	16	3									78	2	VT	TTH			78	2	12	12	48	144	PP	17-BA-16-3-78-2-1	
17	17-BA-16-4-118-40	BA	16	4	1	118	40	VT	IF				118	40	VT	IF			118	40	8	0	8		WR	17-BA-16-4-118-40-1	
17	17-BA-16-4-193-0	BA	16	4									193	0	VT	LOF			193	0	12	12	48	144	PP	17-BA-16-4-193-0-2	
17	17-BA-16-6-147-0	BA	16	6	1	147	0	VT	POR				147	0	VT	P			147	0	3	0	3		WR	17-BA-16-6-147-0-2	
17	17-BA-16-6-212-0	BA	16	6	2	212	0	VT	LF				212	0	VT	LOF			212	0	6	0	6		WR	17-BA-16-6-212-0-3	
17	17-BA-16-6-31-3	BA	16	6									31	3	VT	TTH			30	0	16	0	50	201	PC	17-BA-16-6-30-0-4	
17	17-BA-16-6-86-0	BA	16	6	3	86	0	VT	POR				86	0	VT	P			86	0	3	0	3		WR	17-BA-16-6-86-0-1	
17	17-BA-16-8-0-56	BA	16	8									0	56	0	VT	P			0	56	0	2	2		WR	17-BA-16-8-0-56-2
17	17-BA-16-8-90-0	BA	16	8	1	90	0	VT	TC			0.100	90	0	VT	TS			90	0	12	12	48	144	PP	17-BA-16-8-90-0-1	
17	17-BA-16-9-8-2	BA	16	9									8	2	VT	TTH			9	2	12	12	48	144	PP	17-BA-16-9-8-2-1	
17	17-BA-16-10-125-2	BA	16	10									125	2	VT	TTH			120	0	24	24	96	576	PP	17-BA-16-10-120-0-1	
17	17-BA-16-11-224-2	BA	16	11									224	2	VT	TTH			229	0	48	24	144	1152	PP	17-BA-16-11-229-0-1	
17	17-BA-16-12-150-0	BA	16	12									150	0	VT	P			150	0	12	0	38	113	PC	17-BA-16-12-150-0-1	
17	17-BA-16-13-64-2	BA	16	13									64	2	VT	TTH			64	2	12	12	48	144	PP	17-BA-16-13-64-2-1	
17	17-BA-16-16-0-36	BA	16	16	1	0	33-39	VT	UC			0.100	0	36	0	VT	UC			0	24	0	24	24		WR	17-BA-16-16-0-24-2
17	17-BA-16-16-102-3	BA	16	16									102	3	VT	TTH			102	2	12	12	48	144	PP	17-BA-16-16-102-2-1	
17	17-BA-15-2-90-0	BA	15	2									90	0	VT	P			90	0	12	0	38	113	PP	17-BA-15-2-90-0-1	
17	17-BA-15-3-0-54	BA	15	3									0	54	0	VT	P			0	54	0	4	4		WR	17-BA-15-3-0-54-2
17	17-BA-15-3-198-2	BA	15	3									198	2	VT	TTH			198	2	12	12	48	144	PP	17-BA-15-3-198-2-1	
17	17-BA-15-3-31-0	BA	15	3									31	0	VT	RI			31	0	2	0	2		WR	17-BA-15-3-31-0-3	
17	17-BA-15-4-25-0	BA	15	4									25	0	VT	RI			25	0	3	0	3		WR	17-BA-15-4-25-0-1	
17	17-BA-15-6-152-3	BA	15	6									152	3	VT	TTH			151	0	12	0	38	113	PC	17-BA-15-6-151-0-1	
17	17-BA-15-7-0-46	BA	15	7									0	46	0	VT	P			0	46	0	4	4		WR	17-BA-15-7-0-46-1
17	17-BA-15-9-128-2	BA	15	9									128	2	VT	TTH			129	2	12	12	48	144	PP	17-BA-15-9-129-2-1	
17	17-BA-15-11-3-1	BA	15	11									3	1	VT	TTH			0	0	24	24	96	576	PP	17-BA-15-11-0-0-1	

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report							EEL Probe Up				Recommended Repairs							Repair Number: May Apply to Multiple Indications			
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Thickness	Uplift or Topside Indication(in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)		Length of Weld (in)	Area of PP (sq in)	Repair type (Patch, Weld, Cap)
17	17-BA-15-12-104-2	BA	15	12								104	2	VT	TTH			104	0	12	12	48	144	PP	17-BA-15-12-104-0-1
17	17-BA-15-13-0-45	BA	15	13								0	45	VT	UC			0	45	0	4	4		WR	17-BA-15-13-0-45-2
17	17-BA-15-13-0-58	BA	15	13								0	58	VT	UC			0	58	12	12	48	144	PP	17-BA-15-13-0-58-1
17	17-BA-15-13-185-2	BA	15	13								185	2	VT	TTH			185	2	12	12	48	144	PP	17-BA-15-13-185-2-4
17	17-BA-15-13-30-0	BA	15	13								30	0	VT	P			30	0	3	0	3		WR	17-BA-15-13-30-0-3
17	17-BA-15-16-153-3	BA	15	16								153	3	VT	TTH			153	3	12	12	48	144	PP	17-BA-15-16-153-2-1
17	17-BA-14-1-230-42	BA	14	1								230	42	VT	RI			230	42	0	8	8		WR	17-BA-14-1-230-42-1
17	17-BA-14-3-78-2	BA	14	3								78	2	VT	TTH			78	2	12	12	48	144	PP	17-BA-14-3-78-2-1
17	17-BA-14-5-0-51	BA	14	5								0	51	VT	P			0	51	0	2	2		WR	17-BA-14-5-0-51-2
17	17-BA-14-5-204-0	BA	14	5	1		204		VT	POR		204	0	VT	P			210	0	8	0	8		WR	17-BA-14-5-210-0-1
17	17-BA-14-6-31-3	BA	14	6								31	3	VT	TTH			30	0	14	14	56	196	PP	17-BA-14-6-30-0-1
17	17-BA-14-9-220-0	BA	14	9	1		216-224		BFET	WI		220	0	VT	RI			220	0	12	12	48	144	PP	17-BA-14-9-220-0-1
17	17-BA-14-9-8-2	BA	14	9								8	2	VT	TTH			220	0	12	12	48	144	PP	17-BA-14-9-2-2
17	17-BA-14-10-121-2	BA	14	10								121	2	VT	TTH			119	0	24	24	96	576	PP	17-BA-14-10-119-0-1
17	17-BA-14-11-224-2	BA	14	11								224	2	VT	TTH			223	2	12	12	48	144	PP	17-BA-14-11-223-2-1
17	17-BA-14-13-65-2	BA	14	13								65	2	VT	TTH			65	2	12	12	48	144	PP	17-BA-14-13-65-2-1
17	17-BA-14-16-102-2	BA	14	16								102	2	VT	TTH			102	2	12	12	48	144	PP	17-BA-14-16-102-2-1
17	17-BA-13-2-208-0	BA	13	2								208	0	VT	RI			208	0	4	0	4		WR	17-BA-13-2-208-0-1
17	17-BA-13-3-197-5	BA	13	3								197	3	VT	TTH			197	3	12	12	48	144	PP	17-BA-13-3-197-3-1
17	17-BA-13-6-150-5	BA	13	6								150	5	VT	TTH			150	1	14	0	44	154	PC	17-BA-13-6-150-1-2
17	17-BA-13-6-90-0	BA	13	6								90	0	VT	P			90	0	2	0	2		WR	17-BA-13-6-90-0-1
17	17-BA-13-8-155-0	BA	13	8								155	0	VT	LOF			155	0	4	0	4		WR	17-BA-13-8-155-0-1
17	17-BA-13-8-19-4	BA	13	8								19	4	VT	LOF			19	4	12	12	48	144	PP	17-BA-13-8-19-4-2
17	17-BA-13-9-128-4	BA	13	9								128	4	VT	TTH			128	3	12	12	48	144	PP	17-BA-13-9-128-3-4
17	17-BA-13-9-204-0	BA	13	9	2		204		BFET	WI		204	0	VT	RI			204	0	4	0	4		WR	17-BA-13-9-204-0-3
17	17-BA-13-9-236-21	BA	13	9	3		236		VT	DENT		236	21	VT	D			237	19	14	14	56	196	PP	17-BA-13-9-237-19-1
17	17-BA-13-9-236-54	BA	13	9	4		236		VT	DENT		236	54	VT	D			237	55	12	12	48	144	PP	17-BA-13-9-237-55-2
17	17-BA-13-10-0-38	BA	13	10	1		0		BFET	WI		1	4	VT	RI			0	38	0	46	46		WR	17-BA-13-10-0-38-1
17	17-BA-13-11-1-4	BA	13	11								0	42	VT	TTH			0	0	24	24	96	576	PP	17-BA-13-11-0-0-2
17	17-BA-13-11-0-42	BA	13	11	1		0		VT	POR		0	42	VT	P			0	44	0	4	4		WR	17-BA-13-11-0-44-1
17	17-BA-13-12-102-5	BA	13	12								102	5	VT	TTH			102	2	12	12	48	144	PP	17-BA-13-12-102-2-2
17	17-BA-13-12-28-0	BA	13	12								28	0	VT	P			28	0	2	0	2		WR	17-BA-13-12-28-0-1
17	17-BA-13-13-186-4	BA	13	13								186	4	VT	TTH			186	3	12	12	48	144	PP	17-BA-13-13-186-3-1
17	17-BA-13-14-30-0	BA	13	14								30	0	VT	P			30	0	2	0	2		WR	17-BA-13-14-30-0-1
17	17-BA-13-16-152-3	BA	13	16								152	3	VT	TTH			147	1	20	14	68	280	PP	17-BA-13-16-147-1-1
17	17-BA-12-3-77-4	BA	12	3								77	4	VT	TTH			77	2	12	12	48	144	PP	17-BA-12-3-77-2-1
17	17-BA-12-6-31-5	BA	12	6								31	5	VT	TTH			29	0	14	14	56	196	PP	17-BA-12-6-29-0-1
17	17-BA-12-8-86-0	BA	12	8	3		86		VT	TC		86	0	VT	TS			86	0	2	0	2		WR	17-BA-12-8-86-0-1
17	17-BA-12-9-22-0	BA	12	9	2		22		VT	POR		22	0	VT	P			22	0	2	0	2		WR	17-BA-12-9-22-0-1
17	17-BA-12-9-9-3	BA	12	9								9	3	VT	TTH			9	3	12	12	48	144	PP	17-BA-12-9-9-3-2
17	17-BA-12-10-119-4	BA	12	10								119	4	VT	TTH			119	0	24	24	96	576	PP	17-BA-12-10-119-0-2
17	17-BA-12-10-148-0	BA	12	10								148	0	VT	P			148	0	2	0	2		WR	17-BA-12-10-148-0-1
17	17-BA-12-11-223-2	BA	12	11								223	2	VT	TTH			223	3	12	12	48	144	PP	17-BA-12-11-223-3-1
17	17-BA-12-13-180-21	BA	12	13								180	21	VT	P			180	21	4	0	4		WR	17-BA-12-13-180-21-1
17	17-BA-12-13-68-4	BA	12	13								68	4	VT	TTH			68	3	12	12	48	144	PP	17-BA-12-13-68-3-2
17	17-BA-12-14-162-48	BA	12	14	2		162		VT	TC		162	48	VT	TS			162	48	6	0	19	28	PP	17-BA-12-14-162-48-1
17	17-BA-12-16-101-3	BA	12	16								101	3	VT	TTH			101	2	12	12	48	144	PP	17-BA-12-16-101-2-1
17	17-BA-11-0-26	BA	11	0								0	26	VT	P			0	26	0	2	2		WR	17-BA-11-0-26-1
17	17-BA-11-2-0-50	BA	11	2								0	50	VT	P			0	50	0	20	20		WR	17-BA-11-2-0-50-2
17	17-BA-11-2-90-0	BA	11	2	1		80		VT	POR		90	2	VT	P			90	2	2	0	2		WR	17-BA-11-2-90-2-1
17	17-BA-11-3-171-0	BA	11	3								171	0	VT	UC			171	0	6	0	6		WR	17-BA-11-3-171-0-2
17	17-BA-11-3-198-4	BA	11	3								198	4	VT	TTH			198	2	12	12	48	144	PP	17-BA-11-3-198-2-1
17	17-BA-11-3-36-0	BA	11	3								36	0	VT	RI			36	0	4	0	4		WR	17-BA-11-3-36-0-3
17	17-BA-11-5-90-0	BA	11	5								90	0	VT	P			90	0	2	0	2		WR	17-BA-11-5-90-0-1
17	17-BA-11-6-150-4	BA	11	6								150	4	VT	TTH			149	1	12	0	38	113	PC	17-BA-11-6-149-1-1
17	17-BA-11-9-129-3	BA	11	9								129	3	VT	TTH			129	3	12	12	48	144	PP	17-BA-11-9-129-3-1

Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report										EEL Probe Up						Recommended Repairs										Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Thickness	Length or Topside Indication (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)						
17	17-BA-11-10-0-30	BA	11	10	1	0	0-60	BFET	WI			0	30	VT	RI			0	30	0	60	60	576	WR	17-BA-11-10-0-30-1					
17	17-BA-11-10-237-4	BA	11	10							237	4	VT	TTH			240	0	24	24	96	576	PP	17-BA-11-10-240-0-2						
17	17-BA-11-12-100-4	BA	11	12							100	4	VT	TTH			102	1	12	12	48	144	PP	17-BA-11-12-102-1-3						
17	17-BA-11-12-30-0	BA	11	12							30	0	VT	P			30	0	12	12	48	144	PP	17-BA-11-12-30-0-2						
17	17-BA-11-12-41-39	BA	11	12							41	39	VT	P			41	39	0	4	4	4	WR	17-BA-11-12-41-39-1						
17	17-BA-11-13-187-4	BA	11	13							187	4	VT	TTH			187	3	12	12	48	144	PP	17-BA-11-13-187-3-2						
17	17-BA-11-13-239-13	BA	11	13	1	239	13	VT	POR		239	13	VT	P			239	13	4	0	4	4	WR	17-BA-11-13-239-13-1						
17	17-BA-11-15-232-0	BA	11	15							232	0	VT	P			232	0	12	12	48	144	PP	17-BA-11-15-232-0-1						
17	17-BA-11-15-57-2	BA	11	15							57	2	VT	LOF			57	2	12	12	48	144	PP	17-BA-11-15-57-2-2						
17	17-BA-11-16-149-3	BA	11	16							149	3	VT	TTH			145	1	20	14	68	280	PP	17-BA-11-16-145-1-1						
17	17-BA-10-1-29-0	BA	10	1							29	0	VT	UC			29	0	12	12	48	144	PP	17-BA-10-1-29-0-1						
17	17-BA-10-3-77-4	BA	10	3							77	4	VT	TTH			77	2	12	12	48	144	PP	17-BA-10-3-77-2-1						
17	17-BA-10-4-119-0	BA	10	4							119	0	VT	IF			119	0	4	0	4	4	WR	17-BA-10-4-119-0-1						
17	17-BA-10-6-31-3	BA	10	6							31	3	VT	TTH			29	0	14	14	56	196	PP	17-BA-10-6-29-0-1						
17	17-BA-10-7-73-52	BA	10	7							73	52	VT	LOF			73	52	8	0	8	8	WR	17-BA-10-7-73-52-1						
17	17-BA-10-8-0-37	BA	10	8							0	37	VT	RI			0	37	0	4	4	4	WR	17-BA-10-8-0-37-2						
17	17-BA-10-8-24-0	BA	10	8	1	24	0	VT	POR		24	0	VT	P			24	0	4	0	4	4	WR	17-BA-10-8-24-0-1						
17	17-BA-10-9-200-2	BA	10	9							200	2	VT	LOF			200	2	6	0	6	6	WR	17-BA-10-9-200-2-1						
17	17-BA-10-9-9-3	BA	10	9							9	3	VT	TTH			9	3	12	12	48	144	PP	17-BA-10-9-9-3-2						
17	17-BA-10-10-115-4	BA	10	10							115	4	VT	TTH			120	0	24	24	96	576	PP	17-BA-10-10-120-0-1						
17	17-BA-10-11-221-4	BA	10	11							221	4	VT	TTH			224	3	12	12	48	144	PP	17-BA-10-11-224-3-1						
17	17-BA-10-13-68-4	BA	10	13							68	4	VT	TTH			68	3	12	12	48	144	PP	17-BA-10-13-68-3-1						
17	17-BA-10-14-90-0	BA	10	14							90	0	VT	LOF			90	0	12	12	48	113	PC	17-BA-10-14-90-0-1						
17	17-BA-10-16-98-3	BA	10	16							98	3	VT	TTH			94	1	18	14	64	252	PP	17-BA-10-16-94-1-1						
17	17-BA-9-2-90-5	BA	9	2	2	9	5	VT	LF		90	5	VT	IF			90	0	12	12	48	113	PP	17-BA-9-2-90-0-1						
17	17-BA-9-3-197-4	BA	9	3							197	4	VT	TTH			197	2	12	12	48	144	PP	17-BA-9-3-197-2-1						
17	17-BA-9-3-49-0	BA	9	3							49	0	VT	UC			49	0	4	0	4	4	WR	17-BA-9-3-49-0-2						
17	17-BA-9-5-146-0	BA	9	5	1	146	0	VT	UC		146	0	VT	UC			146	0	4	0	4	4	WR	17-BA-9-5-146-0-1						
17	17-BA-9-6-151-3	BA	9	6							151	3	VT	TTH			150	1	12	0	38	113	PC	17-BA-9-6-150-1-1						
17	17-BA-9-7-192-7	BA	9	7							192	7	VT	LOF			192	7	8	0	8	8	WR	17-BA-9-7-192-7-1						
17	17-BA-9-8-226-51	BA	9	8							226	51	VT	UC			226	51	0	3	3	3	WR	17-BA-9-8-226-51-2						
17	17-BA-9-8-233-0	BA	9	8	3	230-236	0	VT	IF		233	0	VT	IF			234	0	6	0	6	6	WR	17-BA-9-8-234-0-1						
17	17-BA-9-9-129-4	BA	9	9							129	4	VT	TTH			129	3	12	12	48	144	PP	17-BA-9-9-129-3-3						
17	17-BA-9-9-21-0	BA	9	9	1	18-24	0	VT	LF		21	0	VT	LOF			22	0	8	0	8	8	WR	17-BA-9-9-22-0-2						
17	17-BA-9-10-0-27	BA	9	10	2	0	24-31	BFET	WI		0	24-31	0	VT	LOF		5	0	10	0	10	10	WR	17-BA-9-10-0-27-1						
17	17-BA-9-10-0-53	BA	9	10	3	0	50-56	BFET	WI		0	50-56	0	VT	RI		0	53	0	6	6	6	WR	17-BA-9-10-0-53-2						
17	17-BA-9-10-236-4	BA	9	10							236	4	VT	TTH			240	0	24	24	96	576	PP	17-BA-9-10-240-0-3						
17	17-BA-9-11-1-32	BA	9	11	2	1	32	VT	TC		1	32	VT	TS			1	32	0	3	3	3	WR	17-BA-9-11-1-32-1						
17	17-BA-9-12-101-4	BA	9	12							101	4	VT	TTH			102	1	12	12	48	144	PP	17-BA-9-12-102-1-1						
17	17-BA-9-12-27-0	BA	9	12							27	0	VT	P			27	0	2	0	2	2	WR	17-BA-9-12-27-0-2						
17	17-BA-9-13-191-3	BA	9	13							191	3	VT	TTH			191	3	12	12	48	144	PP	17-BA-9-13-191-3-1						
17	17-BA-9-13-28-0	BA	9	13							28	0	VT	P			28	0	2	0	2	2	WR	17-BA-9-13-28-0-2						
17	17-BA-9-14-210-0	BA	9	14							210	0	VT	LOF			210	0	12	12	48	144	PP	17-BA-9-14-210-0-2						
17	17-BA-9-14-30-0	BA	9	14							30	0	VT	P			30	0	2	0	2	2	WR	17-BA-9-14-30-0-1						
17	17-BA-9-16-149-3	BA	9	16							149	3	VT	TTH			143	0	20	14	68	280	PP	17-BA-9-16-143-0-1						
17	17-BA-9-16-143-0	BA	9	16							143	0	VT	PA			143	0	10	0	31	79	PC	17-BA-9-16-143-0-2						
17	17-BA-9-16-143-58	BA	9	16	1	143	58-59	VT	DENT		143	58	VT	D			172	60	24	24	96	576	PP	17-BA-9-16-172-60-3						
17	17-BA-9-16-21-0	BA	9	16							21	0	VT	P			21	0	2	0	2	2	WR	17-BA-9-16-21-0-4						
17	17-BA-8-3-76-4	BA	8	3							76	4	VT	TTH			76	2	12	12	48	144	PP	17-BA-8-3-76-2-1						
17	17-BA-8-4-116-54	BA	8	4							116	54	VT	LOF			116	54	10	10	4	10	WR	17-BA-8-4-116-54-1						
17	17-BA-8-4-119-0	BA	8	4							119	0	VT	IF			119	0	4	0	4	4	WR	17-BA-8-4-119-0-2						
17	17-BA-8-5-30-0	BA	8	5							30	0	VT	UC			30	0	4	0	4	4	WR	17-BA-8-5-30-0-1						
17	17-BA-8-6-194-0	BA	8	6	2	194	0	VT	POR		194	0	VT	P			194	0	4	0	4	4	WR	17-BA-8-6-194-0-1						
17	17-BA-8-6-31-3	BA	8	6							31	3	VT	TTH			29	0	14	14	56	196	PP	17-BA-8-6-29-0-2						
17	17-BA-8-7-204-0-1	BA	8	7	3	204	0	VT	POR		204	0	VT	P			204	0	2	0	2	2	WR	17-BA-8-7-204-0-2						

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Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report							EEI Probe Up						Recommended Repairs							Repair Number; May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside Indication(in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	
17	17-BA-8-8-149-0	BA	8	8								149	0	VT	P			149	0	12	12	48	144	PP	17-BA-8-8-149-0-2
17	17-BA-8-8-84-0	BA	8	8	2	84	0	VT	POR			84	0	VT	P			84	0	6	0	6		WR	17-BA-8-8-84-0-1
17	17-BA-8-9-144-0	BA	8	9	1	144	0	BFET	WI			144	0	VT	RI			144	0	4	0	4		WR	17-BA-8-9-144-0-1
17	17-BA-8-9-8-3	BA	8	9								8	3	VT	TTH			9	3	12	12	48	144	PP	17-BA-8-9-9-3-2
17	17-BA-8-10-114-3	BA	8	10								114	3	VT	TTH			120	0	24	24	96	576	PP	17-BA-8-10-120-0-1
17	17-BA-8-10-30-0	BA	8	10								30	0	VT	P			30	0	12	12	48	144	PP	17-BA-8-10-30-0-2
17	17-BA-8-11-221-4	BA	8	11								221	4	VT	TTH			224	3	12	12	48	144	PP	17-BA-8-11-224-3-1
17	17-BA-8-13-158-59	BA	8	13	1	158	59	VT	TC		0.150	158	59	VT	G			158	59	12	12	48	144	PP	17-BA-8-13-158-59-1
17	17-BA-8-13-71-3	BA	8	13								71	3	VT	TTH			71	3	12	12	48	144	PP	17-BA-8-13-71-3-2
17	17-BA-8-16-98-1	BA	8	16								98	1	VT	TTH			93	1	18	12	60	216	PP	17-BA-8-16-93-1-1
17	17-BA-7-3-196-3	BA	7	3								196	3	VT	TTH			196	3	12	12	48	144	PP	17-BA-7-3-196-3-1
17	17-BA-7-4-236-27	BA	7	4								236	27	VT	LOF			236	27	4	0	4		WR	17-BA-7-4-236-27-1
17	17-BA-7-5-35-0	BA	7	5								35	0	VT	P			35	0	2	0	2		WR	17-BA-7-5-35-0-2
17	17-BA-7-5-65-2	BA	7	5	1	65	2	VT	IF			65	2	VT	IF			65	2	6	0	6		WR	17-BA-7-5-65-2-1
17	17-BA-7-6-152-3	BA	7	6								152	3	VT	TTH			150	0	14	0	44	154	PC	17-BA-7-6-150-0-1
17	17-BA-7-8-0-41	BA	7	8	1	0	41	VT	TC		0.150	0	41	VT	IS			0	41	0	5	5		WR	17-BA-7-8-0-41-1
17	17-BA-7-8-193-0	BA	7	8	2	190-197	0	VT	POR			193	0	VT	P			190	0	4	0	4		WR	17-BA-7-8-190-0-2
17	17-BA-7-8-204-0	BA	7	8								204	0	VT	P			204	0	4	0	4		WR	17-BA-7-8-204-0-3
17	17-BA-7-9-128-3	BA	7	9								128	3	VT	TTH			129	3	12	12	48	144	PP	17-BA-7-9-129-3-1
17	17-BA-7-10-235-4	BA	7	10								235	4	VT	TTH			240	0	24	24	96	576	PP	17-BA-7-10-240-0-1
17	17-BA-7-11-0-23	BA	7	11	1	0	23	VT	POR			0	23	VT	P			0	23	0	4	4		WR	17-BA-7-11-0-23-1
17	17-BA-7-12-104-4	BA	7	12								104	4	VT	TTH			102	1	12	12	48	144	PP	17-BA-7-12-102-1-1
17	17-BA-7-12-30-0	BA	7	12								30	0	VT	RI			30	0	12	0	38	113	PC	17-BA-7-12-30-0-2
17	17-BA-7-13-192-2	BA	7	13								192	2	VT	TTH			192	3	12	12	48	144	PP	17-BA-7-13-192-3-1
17	17-BA-7-16-152-2	BA	7	16								152	2	VT	TTH			146	0	22	14	72	308	PP	17-BA-7-16-146-0-1
17	17-BA-7-16-146-0	BA	7	16								146	0	VT	PA			146	0	10	0	31	79	PC	17-BA-7-16-146-0-2
17	17-BA-6-3-205-0	BA	6	3								205	0	VT	P			205	0	3	0	3		WR	17-BA-6-3-205-0-1
17	17-BA-6-3-77-4	BA	6	3								77	4	VT	TTH			77	2	12	12	48	144	PP	17-BA-6-3-77-2-2
17	17-BA-6-4-90-0	BA	6	4								90	0	VT	P			90	0	2	0	2		WR	17-BA-6-4-90-0-1
17	17-BA-6-6-34-6	BA	6	6								34	6	VT	TTH			30	0	16	16	64	256	PP	17-BA-6-6-30-0-1
17	17-BA-6-7-141-1	BA	6	7								141	1	VT	LOF			141	1	6	0	6		WR	17-BA-6-7-141-1-1
17	17-BA-6-9-7-3	BA	6	9								7	3	VT	TTH			0	0	24	24	96	576	PP	17-BA-6-9-0-0-1
17	17-BA-6-10-114-4	BA	6	10								114	4	VT	TTH			111	2	12	12	48	144	PP	17-BA-6-10-11-2-1
17	17-BA-6-11-220-4	BA	6	11								220	4	VT	TTH			215	2	20	12	64	240	PP	17-BA-6-11-215-2-1
17	17-BA-6-13-210-0	BA	6	13								210	0	VT	P			210	0	2	0	2		WR	17-BA-6-13-210-0-1
17	17-BA-6-13-72-3	BA	6	13								72	3	VT	TTH			72	3	12	12	48	144	PP	17-BA-6-13-72-3-2
17	17-BA-6-14-0-9	BA	6	14								0	9	VT	LOF			0	9	0	2	2		WR	17-BA-6-14-0-9-1
17	17-BA-6-16-104-2	BA	6	16								104	2	VT	TTH			104	2	12	12	48	144	PP	17-BA-6-16-104-2-1
17	17-BA-5-1-0-3	BA	5	1	1	0-3	1-4	VT	DENT		0.160	0	3	VT	D			0	3	14	14	56	196	PP	17-BA-5-1-0-3-1
17	17-BA-5-3-197-3	BA	5	3								197	3	VT	TTH			197	3	12	12	48	144	PP	17-BA-5-3-197-3-1
17	17-BA-5-4-238-50	BA	5	4								238	50	VT	P			238	50	5	0	5		WR	17-BA-5-4-238-50-1
17	17-BA-5-6-152-5	BA	5	6								152	5	VT	TTH			151	0	14	14	56	196	PP	17-BA-5-6-151-0-1
17	17-BA-5-7-35-0	BA	5	7								35	0	VT	P			35	0	4	0	4		WR	17-BA-5-7-35-0-1
17	17-BA-5-9-127-3	BA	5	9								127	3	VT	TTH			120	0	24	24	96	576	PP	17-BA-5-9-120-0-1
17	17-BA-5-10-233-4	BA	5	10								233	4	VT	TTH			231	2	12	12	48	144	PP	17-BA-5-10-231-2-1
17	17-BA-5-12-0-54	BA	5	12								0	54	VT	P			0	54	0	3	3		WR	17-BA-5-12-0-54-1
17	17-BA-5-12-99-5	BA	5	12								99	5	VT	TTH			101	2	12	12	48	144	PP	17-BA-5-12-101-2-2
17	17-BA-5-13-191-6	BA	5	13								191	6	VT	TTH			191	4	14	14	56	196	PP	17-BA-5-13-191-4-1
17	17-BA-5-14-29-0	BA	5	14								29	0	VT	LOF			29	0	12	12	48	144	PP	17-BA-5-14-29-0-1
17	17-BA-5-14-84-0	BA	5	14								84	0	VT	P			84	0	2	0	2		WR	17-BA-5-14-84-0-2
17	17-BA-5-16-154-2	BA	5	16								154	2	VT	TTH			155	2	12	12	48	144	PP	17-BA-5-16-155-2-1
17	17-BA-4-3-76-3	BA	4	3								76	3	VT	TTH			76	3	12	12	48	144	PP	17-BA-4-3-76-3-1
17	17-BA-4-4-116-0	BA	4	4								116	0	VT	P			116	0	2	0	2		WR	17-BA-4-4-116-0-1
17	17-BA-4-4-30-0	BA	4	4								30	0	VT	P			30	0	2	0	2		WR	17-BA-4-4-30-0-2
17	17-BA-4-5-150-0	BA	4	5								150	0	VT	P			150	0	2	0	2		WR	17-BA-4-5-150-0-1
17	17-BA-4-6-150-0	BA	4	6	2	150	0	VT	POR			150	0	VT	P			150	0	0	3	3		WR	17-BA-4-6-150-0-2

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Tank No.	ID Applied to TestTex Reported Indication	Shell Location		TestTex Report							EEL Probe Up				Recommended Repairs							Repair Number: May Apply to Multiple Indications			
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	Coordinate X (in)	Coordinate Y (in)	Method	Indication Type	Minimum Wall Thickness	Depth (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)		Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)
17	17-BA-1-11-0-30	BA	1	11								0	30	VT	P			0	30	0	2	2		WR	17-BA-1-11-0-30-3
17	17-BA-1-11-0-46	BA	1	11								0	46	VT	P			0	46	0	3	3		WR	17-BA-1-11-0-46-2
17	17-BA-1-11-0-52	BA	1	11								0	52	VT	P			0	52	0	4	4		WR	17-BA-1-11-0-52-1
17	17-BA-1-11-0-57	BA	1	11								0	57	VT	P			0	57	0	2	2		WR	17-BA-1-11-0-57-4
17	17-BA-1-12-141-57	BA	1	12								141	57	UC	UC			141	57	12	12	48	144	PP	17-BA-1-12-141-57-2
17	17-BA-1-12-156-41	BA	1	12								156	41	VT	UC			156	41	6	0	19	28	PP	17-BA-1-12-156-41-3
17	17-BA-1-12-37-40	BA	1	12	1	37	40					37	40	VT	UC			37	42	6	0	19	28	PP	17-BA-1-12-37-42-1
17	17-BA-1-12-99-5-4	BA	1	12								99	2	VT	TH			99	5	10	10	40	100	TSPP	17-BA-1-12-99-5-4
17	17-BA-1-13-156-41	BA	1	13								156	41	VT	UC			156	41	6	0	19	28	PP	17-BA-1-13-156-41-2
17	17-BA-1-13-193-2	BA	1	13								193	2	VT	TH			193	5	10	10	40	100	TSPP	17-BA-1-13-193-5-3
17	17-BA-1-13-37-42	BA	1	13								37	42	VT	UC			37	42	6	0	19	28	PP	17-BA-1-13-37-42-1
17	17-BA-1-16-156-2	BA	1	16								156	2	VT	TH			156	5	10	10	40	100	TSPP	17-BA-1-16-156-5-1
17	17-BA-1-23-7-2	LD	4	1								23	7	VT	TH			23	7	8	0	25	50	PP	17-BA-1-23-7-2
17	17-BA-1-40-71-1	LD	4	1								40	71	VT	P			40	71	6	0	19	28	PP	17-BA-1-40-71-1
17	17-BA-1-42-25-7-1	LD	4	2								25	7	VT	TH			25	7	8	0	25	50	PP	17-BA-1-42-25-7-1
17	17-BA-1-43-25-7-1	LD	4	3								25	7	VT	TH			25	7	8	0	25	50	PP	17-BA-1-43-25-7-1
17	17-BA-1-44-24-7-1	LD	4	4								24	7	VT	TH			24	7	8	0	25	50	PP	17-BA-1-44-24-7-1
17	17-BA-1-45-24-7-1	LD	4	5								24	7	VT	TH			24	7	8	0	25	50	PP	17-BA-1-45-24-7-1
17	17-BA-1-46-24-7-1	LD	4	6								24	7	VT	TH			24	7	8	0	25	50	PP	17-BA-1-46-24-7-1
17	17-BA-1-47-24-7-1	LD	4	7								24	7	VT	TH			24	7	8	0	25	50	PP	17-BA-1-47-24-7-1
17	17-BA-1-48-45-7-1	LD	4	8								45	7	VT	TH			45	7	8	0	25	50	PP	17-BA-1-48-45-7-1
17	17-BA-1-49-46-8-1	LD	4	9								46	8	VT	TH			46	8	8	0	25	50	PP	17-BA-1-49-46-8-1
17	17-BA-1-50-31-7-1	LD	4	10								31	7	VT	TH			34	8	16	16	64	256	TSPP	17-BA-1-50-31-7-1
17	17-BA-1-51-27-7-1	LD	4	11								27	7	VT	TH			27	7	8	0	25	50	PP	17-BA-1-51-27-7-1
17	17-BA-1-52-18-2	LD	4	11								46	18	VT	RI			46	18	0	2	2		WR	17-BA-1-52-18-2
17	17-BA-1-53-47-7-1	LD	4	12								47	7	VT	TH			46	7	8	0	25	50	PP	17-BA-1-53-47-7-2
17	17-BA-1-54-8-7-1	LD	4	12								8	7	VT	TH			8	7	8	0	25	50	PP	17-BA-1-54-8-7-1
17	17-BA-1-55-35-7-1	LD	4	13								35	7	VT	TH			37	7	8	0	25	50	PP	17-BA-1-55-35-7-1
17	17-BA-1-56-19-7-1	LD	4	14								19	7	VT	TH			19	7	8	0	25	50	PP	17-BA-1-56-19-7-1
17	17-BA-1-57-50-7-1	LD	4	15								50	7	VT	TH			50	7	8	0	25	50	PP	17-BA-1-57-50-7-1
17	17-BA-1-58-7-2	LD	4	15								8	7	VT	TH			8	7	8	0	25	50	PP	17-BA-1-58-7-2
17	17-BA-1-59-33-7-1	LD	4	16								33	7	VT	TH			32	7	8	0	25	50	PP	17-BA-1-59-33-7-1
17	17-BA-1-60-18-7-1	LD	4	17								18	7	VT	TH			18	7	8	0	25	50	PP	17-BA-1-60-18-7-1
17	17-BA-1-61-12-7-1	LD	4	18								12	7	VT	TH			12	7	8	0	25	50	PP	17-BA-1-61-12-7-1
17	17-BA-1-62-32-7-1	LD	4	19								32	7	VT	TH			32	7	8	0	25	50	PP	17-BA-1-62-32-7-1
17	17-BA-1-63-20-17-7-1	LD	4	20								17	7	VT	TH			17	7	8	0	25	50	PP	17-BA-1-63-20-17-7-1
17	17-BA-1-64-21-9-7-1	LD	4	21								9	7	VT	TH			9	7	8	0	25	50	PP	17-BA-1-64-21-9-7-1
17	17-BA-1-65-22-29-8-1	LD	4	22								29	8	VT	TH			31	9	18	18	72	324	TSPP	17-BA-1-65-22-29-8-1
17	17-BA-1-66-34-7-1	LD	4	23								34	7	VT	TH			34	7	8	0	25	50	PP	17-BA-1-66-34-7-1
17	17-BA-1-67-24-33-7-1	LD	4	24								33	7	VT	TH			33	7	8	0	25	50	PP	17-BA-1-67-24-33-7-1
17	17-BA-1-68-25-21-8-1	LD	4	25								21	8	VT	TH			21	8	8	0	25	50	PP	17-BA-1-68-25-21-8-1
17	17-BA-1-69-26-11-7-1	LD	4	26								11	7	VT	TH			11	7	8	0	25	50	PP	17-BA-1-69-26-11-7-1
17	17-BA-1-70-26-51-8-2	LD	4	26								51	8	VT	TH			51	8	8	0	25	50	PP	17-BA-1-70-26-51-8-2
17	17-BA-1-71-26-8-1	LD	4	27								26	8	VT	TH			26	8	8	0	25	50	PP	17-BA-1-71-26-8-1
17	17-BA-1-72-28-36-6-1	LD	4	28								32	7	VT	TH			36	6	18	12	60	216	TSPP	17-BA-1-72-28-36-6-1
17	17-BA-1-73-29-23-8-1	LD	4	29								23	8	VT	TH			23	8	8	0	25	50	PP	17-BA-1-73-29-23-8-1
17	17-BA-1-74-30-11-7-3	LD	4	30								11	7	VT	TH			11	7	8	0	25	50	PP	17-BA-1-74-30-11-7-3
17	17-BA-1-75-30-26-70-1-2	LD	4	30								26	70	VT	UC			26	70	4	4	8		WR	17-BA-1-75-30-26-70-1-2
17	17-BA-1-76-30-29-17-2	LD	4	30								29	17	VT	UC			29	17	4	4	8		WR	17-BA-1-76-30-29-17-2
17	17-BA-1-77-30-50-7-4	LD	4	30								50	7	VT	TH			50	7	8	0	25	50	PP	17-BA-1-77-30-50-7-4
17	17-BA-1-78-31-32-7-1	LD	4	31								32	7	VT	TH			32	7	8	0	25	50	PP	17-BA-1-78-31-32-7-1
17	17-BA-1-79-32-24-7-1	LD	4	32								24	7	VT	TH			24	7	8	0	25	50	PP	17-BA-1-79-32-24-7-1
17	17-BA-1-80-33-28-7-1	LD	4	33								28	7	VT	TH			28	7	8	0	25	50	PP	17-BA-1-80-33-28-7-1
17	17-BA-1-81-34-36-6-1	LD	4	34								36	6	VT	TH			36	6	18	12	60	216	TSPP	17-BA-1-81-34-36-6-1
17	17-BA-1-82-35-21-7-1	LD	4	35								21	7	VT	TH			21	7	8	0	25	50	PP	17-BA-1-82-35-21-7-1
17	17-BA-1-83-36-50-8-2	LD	4	36								50	8	VT	TH			50	8	8	0	25	50	PP	17-BA-1-83-36-50-8-2

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report							EEI Probe Up					Recommended Repairs							Repair Number; May Apply to Multiple Indications		
		Location in Tank	Shell Course	Plate Number	TestTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside Indication (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)		Repair Type (Patch, Weld, Cap)	
17	17-LD-4-36-9-7	LD	4	36								9	7	VT	TTH			9	7	8	0	25	50	PP	17-LD-4-36-9-7-1	
17	17-LD-4-37-37-8	LD	4	37								37	8	VT	TTH			37	8	8	0	25	50	PP	17-LD-4-37-37-8-1	
17	17-LD-4-38-21-7	LD	4	38								21	7	VT	TTH			21	7	8	0	25	50	PP	17-LD-4-38-21-7-1	
17	17-LD-4-39-29-7	LD	4	39								29	7	VT	TTH			29	7	8	0	25	50	PP	17-LD-4-39-29-7-1	
17	17-LD-4-40-28-7	LD	4	40								28	7	VT	TTH			28	7	8	0	25	50	PP	17-LD-4-40-28-7-1	
17	17-LD-4-40-42-2	LD	4	40								42	2	VT	TTH			42	2	12	12	48	144	TSPP	17-LD-4-40-42-2-2	
17	17-LD-4-41-21-8	LD	4	41								21	8	VT	TTH			21	8	8	0	25	50	PP	17-LD-4-41-21-8-1	
17	17-LD-4-42-39-7	LD	4	42								39	7	VT	TTH			39	7	8	0	25	50	PP	17-LD-4-42-39-7-1	
17	17-LD-4-43-24-7	LD	4	43								24	7	VT	TTH			24	7	8	0	25	50	PP	17-LD-4-43-24-7-1	
17	17-LD-4-44-24-7	LD	4	44								24	7	VT	TTH			24	7	8	0	25	50	PP	17-LD-4-44-24-7-1	
17	17-LD-4-45-24-6	LD	4	45								24	6	VT	TTH			24	6	8	0	25	50	PP	17-LD-4-45-24-7-1	
17	17-LD-4-46-23-6	LD	4	46								23	6	VT	TTH			23	6	8	0	25	50	PP	17-LD-4-46-23-7-2	
17	17-LD-4-46-45-4	LD	4	46								45	4	VT	TTH			43	4	8	8	32	64	TSPP	17-LD-4-46-43-4-1	
17	17-LD-4-47-25-6	LD	4	47	1		0-1	6	VT	TC		25	6	VT	TTH			25	7	8	0	25	50	PP	17-LD-4-47-25-7-1	
17	17-LD-4-49-0-6	LD	4	49							0.100	0	6	VT	TS			0	6	0	2	2			WR	17-LD-4-49-0-6-1
17	17-LD-4-49-23-7	LD	4	49								23	7	VT	TTH			23	7	8	0	25	50	PP	17-LD-4-49-23-7-3	
17	17-LD-4-49-3-71	LD	4	49								3	71	VT	LOF			3	71	12	12	48	144	PP	17-LD-4-49-3-71-2	
17	17-LD-4-50-29-8	LD	4	50								29	8	VT	TTH			29	8	8	0	25	50	PP	17-LD-4-50-29-8-1	
17	17-LD-4-51-26-7	LD	4	51								26	7	VT	TTH			26	7	8	0	25	50	PP	17-LD-4-51-26-7-1	
17	17-LD-4-52-23-7	LD	4	52								23	7	VT	TTH			23	7	8	0	25	50	PP	17-LD-4-52-23-7-1	
17	17-LD-4-52-39-4	LD	4	52								39	4	VT	TTH			39	4	8	8	32	64	TSPP	17-LD-4-52-39-4-2	
17	17-LD-4-53-24-6	LD	4	53								24	6	VT	TTH			24	7	8	0	25	50	PP	17-LD-4-53-24-7-1	
17	17-LD-4-53-48-7	LD	4	53								48	7	VT	G			48	7	6	0	19	28	PP	17-LD-4-53-48-7-2	
17	17-LD-4-54-24-6	LD	4	54								24	6	VT	TTH			24	7	8	0	25	50	PP	17-LD-4-54-24-7-1	
17	17-LD-4-55-23-7	LD	4	55								23	7	VT	TTH			23	7	8	0	25	50	PP	17-LD-4-55-23-7-1	
17	17-LD-4-56-25-8	LD	4	56								25	8	VT	TTH			25	8	8	0	25	50	PP	17-LD-4-56-25-8-1	
17	17-LD-4-57-25-6	LD	4	57								25	6	VT	TTH			25	7	8	0	25	50	PP	17-LD-4-57-25-7-1	
17	17-LD-4-58-26-7	LD	4	58								26	7	VT	TTH			26	7	8	0	25	50	PP	17-LD-4-58-26-7-1	
17	17-LD-4-59-24-7	LD	4	59								24	7	VT	TTH			24	7	8	0	25	50	PP	17-LD-4-59-24-7-1	
17	17-LD-4-60-25-6	LD	4	60								25	6	VT	TTH			25	7	8	0	25	50	PP	17-LD-4-60-25-7-1	
17	17-LD-4-61-22-6	LD	4	61								22	6	VT	TTH			22	6	8	0	25	50	PP	17-LD-4-61-22-7-2	
17	17-LD-4-61-51-2	LD	4	61	1	51	2-3	VT	GOUGE		0.090	51	2	VT	G			51	2	4	4	8			WR	17-LD-4-61-51-2-1
17	17-LD-4-62-27-7	LD	4	62								27	7	VT	TTH			27	7	8	0	25	50	PP	17-LD-4-62-27-7-2	
17	17-LD-4-62-5-2	LD	4	62	1	4-6	2-3	VT	GOUGE			5	2	VT	G			5	2	4	4	8			WR	17-LD-4-62-5-2-1
17	17-LD-4-63-24-6	LD	4	63								24	6	VT	TTH			24	7	8	0	25	50	PP	17-LD-4-63-24-7-1	
17	17-LD-4-64-24-6	LD	4	64								24	6	VT	TTH			24	7	8	0	25	50	PP	17-LD-4-64-24-7-1	
17	17-LD-4-64-35-4	LD	4	64								35	4	VT	TTH			35	4	8	8	32	64	TSPP	17-LD-4-64-35-4-2	
17	17-LD-4-65-25-6	LD	4	65								25	6	VT	TTH			25	7	8	0	25	50	PP	17-LD-4-65-25-7-2	
17	17-LD-4-65-28-44	LD	4	65	1	28	44	VT	GOUGE		0.250	28	44	VT	G			28	44	6	0	19	28	PP	17-LD-4-65-28-44-1	
17	17-LD-4-66-35-7	LD	4	66								35	7	VT	TTH			35	7	8	0	25	50	PP	17-LD-4-66-35-7-1	
17	17-LD-3-1-34-8	LD	3	1								34	8	VT	TTH			34	8	8	0	25	50	PP	17-LD-3-1-34-8-3	
17	17-LD-3-1-4-233	LD	3	1								4	233	VT	TTH			4	233	12	8	40	96	TSPP	17-LD-3-1-4-233-1	
17	17-LD-3-1-53-234	LD	3	1								53	234	VT	TTH			53	234	8	0	25	50	PP	17-LD-3-1-53-234-2	
17	17-LD-3-1-5-38	LD	3	1								5	38	VT	RI			5	38	6	0	19	28	PP	17-LD-3-1-5-38-4	
17	17-LD-3-2-25-234	LD	3	2								25	234	VT	TTH			25	234	8	0	25	50	PP	17-LD-3-2-25-234-1	
17	17-LD-3-2-36-8	LD	3	2								36	8	VT	TTH			36	8	8	0	25	50	PP	17-LD-3-2-36-8-3	
17	17-LD-3-2-76-182	LD	3	2								76	182	VT	G			76	182	6	0	19	28	PP	17-LD-3-2-76-182-4	
17	17-LD-3-2-79-235	LD	3	2								79	235	VT	TTH			79	235	8	0	25	50	PP	17-LD-3-2-79-235-2	
17	17-LD-3-3-34-8	LD	3	3								34	8	VT	TTH			34	8	8	0	25	50	PP	17-LD-3-3-34-8-2	
17	17-LD-3-3-55-234	LD	3	3								55	234	VT	TTH			55	234	8	0	25	50	PP	17-LD-3-3-55-234-1	
17	17-LD-3-4-23-233	LD	3	4								23	233	VT	TTH			23	233	8	0	25	50	PP	17-LD-3-4-23-233-1	
17	17-LD-3-4-38-7	LD	3	4								38	7	VT	TTH			38	7	8	0	25	50	PP	17-LD-3-4-38-7-3	
17	17-LD-3-4-78-233	LD	3	4								78	233	VT	TTH			77	233	8	0	25	50	PP	17-LD-3-4-77-233-2	
17	17-LD-3-5-34-6	LD	3	5								34	6	VT	TTH			34	6	8	0	25	50	PP	17-LD-3-5-34-6-2	
17	17-LD-3-5-54-234	LD	3	5								54	234	VT	TTH			54	234	8	0	25	50	PP	17-LD-3-5-54-234-1	
17	17-LD-3-6-32-6	LD	3	6								32	6	VT	TTH			32	6	8	0	25	50	PP	17-LD-3-6-32-6-2	

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report						EEL Probe Up				Recommended Repairs						Repair Number: May Apply to Multiple Indications					
		Location in Tank	Shell Course	Plate Number	TestTex ID on Plate	Coordinate X (in)	Coordinate Y (in)	Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside Indication(in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)		Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)
17	17-ID-3-6-34-234	LD	3	6					VT	TTH			34	234					34	234	8	0	25	50	PP	17-ID-3-6-34-234-1
17	17-ID-3-7-14-234	LD	3	7					VT	TTH			14	234					14	234	8	0	25	50	PP	17-ID-3-7-14-234-1
17	17-ID-3-7-33-7	LD	3	7					VT	TTH			33	7					33	7	8	0	25	50	PP	17-ID-3-7-33-7-5
17	17-ID-3-7-58-183	LD	3	7					VT	RI			58	183					58	183	0	2	2		WR	17-ID-3-7-58-183-3
17	17-ID-3-7-59-39	LD	3	7					VT	RI			59	39					59	39	4	0	4		WR	17-ID-3-7-59-39-4
17	17-ID-3-7-62-234	LD	3	7					VT	TTH			62	234					62	234	8	0	25	50	PP	17-ID-3-7-62-234-2
17	17-ID-3-8-18-234	LD	3	8					VT	TTH			18	234					18	234	8	0	25	50	PP	17-ID-3-8-18-234-1
17	17-ID-3-8-34-6	LD	3	8					VT	TTH			34	6					34	7	8	0	25	50	PP	17-ID-3-8-34-7-3
17	17-ID-3-8-64-234	LD	3	8					VT	TTH			64	234					61	234	8	0	25	50	PP	17-ID-3-8-61-234-2
17	17-ID-3-9-16-234	LD	3	9					VT	TTH			16	234					16	234	8	0	25	50	PP	17-ID-3-9-16-234-1
17	17-ID-3-9-24-182	LD	3	9					VT	LOF			24	182					24	182	6	0	19	28	PP	17-ID-3-9-24-182-3
17	17-ID-3-9-34-6	LD	3	9					VT	TTH			34	6					34	7	8	0	25	50	PP	17-ID-3-9-34-7-4
17	17-ID-3-9-64-234	LD	3	9					VT	TTH			64	234					64	234	8	0	25	50	PP	17-ID-3-9-64-234-2
17	17-ID-3-10-19-234	LD	3	10					VT	TTH			19	234					19	234	8	0	25	50	PP	17-ID-3-10-19-234-1
17	17-ID-3-10-38-7	LD	3	10					VT	TTH			38	7					38	7	8	0	25	50	PP	17-ID-3-10-38-7-3
17	17-ID-3-10-62-234	LD	3	10					VT	TTH			62	234					62	234	8	0	25	50	PP	17-ID-3-10-62-234-2
17	17-ID-3-11-20-234	LD	3	11					VT	TTH			20	234					20	234	8	0	25	50	PP	17-ID-3-11-20-234-1
17	17-ID-3-11-33-7	LD	3	11					VT	TTH			33	7					33	7	8	0	25	50	PP	17-ID-3-11-33-7-3
17	17-ID-3-11-63-234	LD	3	11					VT	TTH			63	234					63	234	8	0	25	50	PP	17-ID-3-11-63-234-2
17	17-ID-3-12-18-234	LD	3	12					VT	TTH			18	234					18	234	8	0	25	50	PP	17-ID-3-12-18-234-1
17	17-ID-3-12-34-6	LD	3	12					VT	TTH			34	6					34	7	8	0	25	50	PP	17-ID-3-12-34-7-3
17	17-ID-3-12-64-234	LD	3	12					VT	TTH			64	234					64	234	8	0	25	50	PP	17-ID-3-12-64-234-2
17	17-ID-3-13-34-7	LD	3	13					VT	TTH			34	7					34	7	8	0	25	50	PP	17-ID-3-13-34-7-2
17	17-ID-3-13-62-233	LD	3	13					VT	TTH			62	233					62	234	8	0	25	50	PP	17-ID-3-13-62-234-1
17	17-ID-3-14-17-233	LD	3	14					VT	TTH			17	233					17	233	8	0	25	50	PP	17-ID-3-14-17-233-2
17	17-ID-3-14-35-7	LD	3	14					VT	TTH			35	7					35	7	8	0	25	50	PP	17-ID-3-14-35-7-3
17	17-ID-3-14-63-233	LD	3	14					VT	TTH			63	233					63	233	8	0	25	50	PP	17-ID-3-14-63-233-1
17	17-ID-3-15-32-7	LD	3	15					VT	TTH			32	7					32	7	8	0	25	50	PP	17-ID-3-15-32-7-2
17	17-ID-3-15-59-234	LD	3	15					VT	TTH			59	234					59	234	8	0	25	50	PP	17-ID-3-15-59-234-1
17	17-ID-3-16-21-233	LD	3	16					VT	TTH			21	233					21	233	8	0	25	50	PP	17-ID-3-16-21-233-2
17	17-ID-3-16-39-7	LD	3	16					VT	TTH			39	7					39	7	8	0	25	50	PP	17-ID-3-16-39-7-3
17	17-ID-3-16-63-234	LD	3	16					VT	TTH			63	234					63	234	8	0	25	50	PP	17-ID-3-16-63-234-1
17	17-ID-3-17-21-233	LD	3	17					VT	TTH			21	233					21	233	8	0	25	50	PP	17-ID-3-17-21-233-1
17	17-ID-3-17-32-7	LD	3	17					VT	TTH			32	7					32	7	8	0	25	50	PP	17-ID-3-17-32-7-3
17	17-ID-3-17-65-234	LD	3	17					VT	TTH			65	234					65	234	8	0	25	50	PP	17-ID-3-17-65-234-2
17	17-ID-3-18-33-234	LD	3	18					VT	TTH			33	234					33	234	8	0	25	50	PP	17-ID-3-18-33-234-1
17	17-ID-3-18-39-8	LD	3	18					VT	TTH			39	8					39	8	8	0	25	50	PP	17-ID-3-18-39-8-3
17	17-ID-3-18-81-232	LD	3	18					VT	TTH			81	232					81	232	12	12	48	144	PP	17-ID-3-18-81-232-2
17	17-ID-3-19-23-124	LD	3	19					VT	LOF			23	124					23	124	0	4	4		WR	17-ID-3-19-23-124-2
17	17-ID-3-19-37-8	LD	3	19					VT	TTH			37	8					37	8	8	0	25	50	PP	17-ID-3-19-37-8-3
17	17-ID-3-19-63-234	LD	3	19					VT	TTH			63	234					63	234	8	0	25	50	PP	17-ID-3-19-63-234-1
17	17-ID-3-20-24-234	LD	3	20					VT	TTH			24	234					24	234	8	0	25	50	PP	17-ID-3-20-24-234-1
17	17-ID-3-20-39-7	LD	3	20					VT	TTH			39	7					39	7	8	0	25	50	PP	17-ID-3-20-39-7-3
17	17-ID-3-20-66-234	LD	3	20					VT	TTH			66	234					66	234	8	0	25	50	PP	17-ID-3-20-66-234-2
17	17-ID-3-21-20-234	LD	3	21					VT	TTH			20	234					20	234	8	0	25	50	PP	17-ID-3-21-20-234-3
17	17-ID-3-21-34-8	LD	3	21					VT	TTH			34	8					34	8	8	0	25	50	PP	17-ID-3-21-34-8-5
17	17-ID-3-21-63-234	LD	3	21					VT	TTH			63	234					63	234	8	0	25	50	PP	17-ID-3-21-63-234-4
17	17-ID-3-21-73-181	LD	3	21					VT	UC			73	181					73	181	4	4	8		WR	17-ID-3-21-73-181-2
17	17-ID-3-21-79-214	LD	3	21					VT	UC			79	214					79	214	4	4	8		WR	17-ID-3-21-79-214-1
17	17-ID-3-22-24-234	LD	3	22					VT	TTH			24	234					24	234	8	0	25	50	PP	17-ID-3-22-24-234-1
17	17-ID-3-22-34-8	LD	3	22					VT	TTH			34	8					34	8	8	0	25	50	PP	17-ID-3-22-34-8-3
17	17-ID-3-22-82-232	LD	3	22					VT	TTH			82	232					82	232	12	12	48	144	PP	17-ID-3-22-82-232-2
17	17-ID-3-23-39-7	LD	3	23					VT	TTH			39	7					39	7	8	0	25	50	PP	17-ID-3-23-39-7-2
17	17-ID-3-23-61-234	LD	3	23					VT	TTH			61	234					61	234	8	0	25	50	PP	17-ID-3-23-61-234-1
17	17-ID-3-24-20-234	LD	3	24					VT	TTH			20	234					20	234	8	0	25	50	PP	17-ID-3-24-20-234-1
17	17-ID-3-24-32-7	LD	3	24					VT	TTH			32	7					32	7	8	0	25	50	PP	17-ID-3-24-32-7-3

Tank No.	ID Applied to TestTex Reported Indication	Shell Location			TestTex Report						EEL Probe Up					Recommended Repairs							Repair Number: May Apply to Multiple Indications
		Location in Tank	Shell Course	Plate Number	TestTex Indon Plate	Coordinate X (in)	Coordinate Y (in)	Coordinate (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Repair: X (in)	Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	
17	17-ID-3-24-63-234	LD	3	24					VT	TTH			63	234	63	234	8	0	25	50	PP	17-ID-3-24-63-234-2	
17	17-ID-3-25-10-215	LD	3	25					VT	LOF			10	215	10	215	6	0	19	28	PP	17-ID-3-25-10-215-1	
17	17-ID-3-25-12-180	LD	3	25					VT	LOF			12	180	12	180	6	0	19	28	PP	17-ID-3-25-12-180-2	
17	17-ID-3-25-20-234	LD	3	25					VT	TTH			20	234	20	234	8	0	25	50	PP	17-ID-3-25-20-234-4	
17	17-ID-3-25-21-123	LD	3	25					VT	P			21	123	21	123	0	4	4		WR	17-ID-3-25-21-123-3	
17	17-ID-3-25-40-7	LD	3	25					VT	TTH			40	7	40	7	8	0	25	50	PP	17-ID-3-25-40-7-6	
17	17-ID-3-25-64-234	LD	3	25					VT	TTH			64	234	64	234	8	0	25	50	PP	17-ID-3-25-64-234-5	
17	17-ID-3-26-21-234	LD	3	26					VT	TTH			21	234	21	234	8	0	25	50	PP	17-ID-3-26-21-234-2	
17	17-ID-3-26-36-7	LD	3	26					VT	TTH			36	7	36	7	8	0	25	50	PP	17-ID-3-26-36-7-4	
17	17-ID-3-26-54-216	LD	3	26					VT	LOF			54	216	54	216	6	0	19	28	PP	17-ID-3-26-54-216-1	
17	17-ID-3-26-81-232	LD	3	26					VT	TTH			81	232	81	232	12	12	48	144	PP	17-ID-3-26-81-232-3	
17	17-ID-3-27-35-8	LD	3	27					VT	TTH			35	8	35	8	8	0	25	50	PP	17-ID-3-27-35-8-2	
17	17-ID-3-27-58-234	LD	3	27					VT	TTH			58	234	58	234	8	0	25	50	PP	17-ID-3-27-58-234-1	
17	17-ID-3-28-13-216	LD	3	28					VT	LOF			13	216	13	216	6	0	19	28	PP	17-ID-3-28-13-216-1	
17	17-ID-3-28-15-179	LD	3	28					VT	LOF			15	179	15	179	6	0	19	28	PP	17-ID-3-28-15-179-2	
17	17-ID-3-28-21-234	LD	3	28					VT	TTH			21	234	21	234	8	0	25	50	PP	17-ID-3-28-21-234-3	
17	17-ID-3-28-37-8	LD	3	28					VT	TTH			37	8	37	8	0	25	50	50	PP	17-ID-3-28-37-8-4	
17	17-ID-3-29-10-234	LD	3	29					VT	TTH			10	234	10	234	8	0	25	50	PP	17-ID-3-29-10-234-1	
17	17-ID-3-29-33-8	LD	3	29					VT	TTH			33	8	33	8	8	0	25	50	PP	17-ID-3-29-33-8-3	
17	17-ID-3-29-54-234	LD	3	29					VT	TTH			54	234	54	234	8	0	25	50	PP	17-ID-3-29-54-234-2	
17	17-ID-3-30-24-234	LD	3	30					VT	TTH			24	234	24	234	8	0	25	50	PP	17-ID-3-30-24-234-2	
17	17-ID-3-30-34-7	LD	3	30					VT	TTH			34	7	34	7	8	0	25	50	PP	17-ID-3-30-34-7-3	
17	17-ID-3-30-80-232	LD	3	30					VT	TTH			80	232	80	232	12	12	48	144	PP	17-ID-3-30-80-232-1	
17	17-ID-3-31-13-215	LD	3	31					VT	UC			13	215	13	215	6	0	19	28	PP	17-ID-3-31-13-215-1	
17	17-ID-3-31-38-9	LD	3	31					VT	TTH			38	9	38	9	8	0	25	50	PP	17-ID-3-31-38-9-4	
17	17-ID-3-31-54-233	LD	3	31					VT	TTH			54	233	54	233	8	0	25	50	PP	17-ID-3-31-54-233-3	
17	17-ID-3-31-9-183	LD	3	31					VT	UC			9	183	9	183	6	0	19	28	PP	17-ID-3-31-9-183-2	
17	17-ID-3-32-24-123	LD	3	32					VT	P			24	123	24	123	0	2	2		WR	17-ID-3-32-24-123-1	
17	17-ID-3-32-25-233	LD	3	32					VT	TTH			25	233	25	233	8	0	25	50	PP	17-ID-3-32-25-233-2	
17	17-ID-3-32-45-7	LD	3	32					VT	TTH			45	7	45	7	8	0	25	50	PP	17-ID-3-32-45-7-3	
17	17-ID-3-33-10-239	LD	3	33					VT	LOF			10	239	10	239	3	0	3		WR	17-ID-3-33-10-239-1	
17	17-ID-3-33-23-123	LD	3	33					VT	LOF			23	123	23	123	6	0	19	28	PP	17-ID-3-33-23-123-2	
17	17-ID-3-33-25-233	LD	3	33					VT	TTH			25	233	25	233	8	0	25	50	PP	17-ID-3-33-25-233-4	
17	17-ID-3-33-33-8	LD	3	33					VT	TTH			33	8	33	8	8	0	25	50	PP	17-ID-3-33-33-8-3	
17	17-ID-3-34-10-180	LD	3	34					VT	LOF			10	180	10	180	0	2	2		WR	17-ID-3-34-10-180-2	
17	17-ID-3-34-14-215	LD	3	34					VT	LOF			14	215	14	215	6	0	19	28	PP	17-ID-3-34-14-215-1	
17	17-ID-3-34-29-234	LD	3	34					VT	TTH			29	234	29	234	8	0	25	50	PP	17-ID-3-34-29-234-4	
17	17-ID-3-34-37-8	LD	3	34					VT	TTH			37	8	37	8	8	0	25	50	PP	17-ID-3-34-37-8-6	
17	17-ID-3-34-80-232	LD	3	34					VT	TTH			80	232	80	232	12	12	48	144	PP	17-ID-3-34-80-232-5	
17	17-ID-3-34-8-163	LD	3	34					VT	LOF			8	163	8	163	6	0	19	28	PP	17-ID-3-34-8-163-3	
17	17-ID-3-35-37-8	LD	3	35					VT	TTH			37	8	37	8	8	0	25	50	PP	17-ID-3-35-37-8-2	
17	17-ID-3-35-52-234	LD	3	35					VT	TTH			52	234	52	234	8	0	25	50	PP	17-ID-3-35-52-234-1	
17	17-ID-3-36-23-234	LD	3	36					VT	TTH			23	234	23	234	8	0	25	50	PP	17-ID-3-36-23-234-1	
17	17-ID-3-36-36-8	LD	3	36					VT	TTH			36	8	36	8	8	0	25	50	PP	17-ID-3-36-36-8-2	
17	17-ID-3-36-80-232	LD	3	36					VT	TTH			80	232	80	232	12	12	48	144	PP	17-ID-3-36-80-232-3	
17	17-ID-3-37-37-7	LD	3	37					VT	TTH			37	7	37	7	8	0	25	50	PP	17-ID-3-37-37-7-2	
17	17-ID-3-37-54-233	LD	3	37					VT	TTH			54	233	54	233	8	0	25	50	PP	17-ID-3-37-54-233-1	
17	17-ID-3-38-25-232	LD	3	38					VT	TTH			25	232	25	232	8	0	25	50	PP	17-ID-3-38-25-232-2	
17	17-ID-3-38-29-7	LD	3	38					VT	TTH			29	7	29	7	8	0	25	50	PP	17-ID-3-38-29-7-4	
17	17-ID-3-38-63-64	LD	3	38					VT	RI			63	64	63	64	0	2	2		WR	17-ID-3-38-63-64-1	
17	17-ID-3-38-74-232	LD	3	38					VT	TTH			74	232	74	232	8	0	25	50	PP	17-ID-3-38-74-232-3	
17	17-ID-3-39-23-122	LD	3	39					VT	LOF			23	122	23	122	6	0	19	28	PP	17-ID-3-39-23-122-3	
17	17-ID-3-39-36-8	LD	3	39					VT	TTH			36	8	36	8	8	0	25	50	PP	17-ID-3-39-36-8-2	
17	17-ID-3-39-55-234	LD	3	39					VT	TTH			55	234	55	234	8	0	25	50	PP	17-ID-3-39-55-234-1	
17	17-ID-3-40-24-234	LD	3	40					VT	TTH			24	234	24	234	8	0	25	50	PP	17-ID-3-40-24-234-1	
17	17-ID-3-40-36-8	LD	3	40					VT	TTH			36	8	36	8	8	0	25	50	PP	17-ID-3-40-36-8-3	

Tank No.	ID Applied to TesTex Reported Indication	Shell Location			TesTex Report								EEI Prove Up						Recommended Repairs							
		Location in Tank	Shell Course	Plate Number	TesTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside Indication (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	Repair Number: May Apply to Multiple Indications	
17	17-LD-3-40-80-232	LD	3	40								80	232	VT	TTH			80	232	12	12	48	144	PP	17-LD-3-40-80-232-2	
17	17-LD-3-41-35-7	LD	3	41								35	7	VT	TTH			35	7	8	0	25	50	PP	17-LD-3-41-35-7-2	
17	17-LD-3-41-52-233	LD	3	41								52	233	VT	TTH			52	233	8	0	25	50	PP	17-LD-3-41-52-233-1	
17	17-LD-3-42-16-182	LD	3	42								16	182	VT	G			16	182	6	0	19	28	PP	17-LD-3-42-16-182-1	
17	17-LD-3-42-26-233	LD	3	42								26	233	VT	TTH			26	233	8	0	25	50	PP	17-LD-3-42-26-233-2	
17	17-LD-3-42-35-8	LD	3	42								35	8	VT	TTH			35	8	8	0	25	50	PP	17-LD-3-42-35-8-4	
17	17-LD-3-42-80-232	LD	3	42								80	232	VT	TTH			80	232	12	12	48	144	PP	17-LD-3-42-80-232-3	
17	17-LD-3-43-34-8	LD	3	43								34	8	VT	TTH			34	8	8	0	25	50	PP	17-LD-3-43-34-8-2	
17	17-LD-3-43-54-233	LD	3	43								54	233	VT	TTH			54	233	8	0	25	50	PP	17-LD-3-43-54-233-1	
17	17-LD-3-44-24-233	LD	3	44								24	233	VT	TTH			24	233	8	0	25	50	PP	17-LD-3-44-24-233-1	
17	17-LD-3-44-37-7	LD	3	44								37	7	VT	TTH			37	7	8	0	25	50	PP	17-LD-3-44-37-7-2	
17	17-LD-2-1-24-7	LD	2	1								24	7	VT	TTH			24	5	10	10	40	100	TSPP	17-LD-2-1-24-5-2	
17	17-LD-2-1-33-232	LD	2	1								33	232	VT	TTH			33	233	8	0	25	50	PP	17-LD-2-1-33-233-1	
17	17-LD-2-1-6-215	LD	2	1								6	215	VT	G			6	215	6	0	19	28	PP	17-LD-2-1-6-215-3	
17	17-LD-2-2-26-8	LD	2	2								26	8	VT	TTH			26	5	10	10	40	100	TSPP	17-LD-2-2-26-5-2	
17	17-LD-2-2-36-234	LD	2	2								36	234	VT	TTH			36	234	8	0	25	50	PP	17-LD-2-2-36-234-1	
17	17-LD-2-2-47-162	LD	2	2								47	162	VT	LOF			47	162	6	0	19	28	PP	17-LD-2-2-47-162-3	
17	17-LD-2-3-27-8	LD	2	3								27	8	VT	TTH			27	5	10	10	40	100	TSPP	17-LD-2-3-27-5-1	
17	17-LD-2-3-32-234	LD	2	3								32	234	VT	TTH			32	234	8	0	25	50	PP	17-LD-2-3-32-234-2	
17	17-LD-2-4-26-5	LD	2	4								26	5	VT	TTH			26	5	10	10	40	100	TSPP	17-LD-2-4-26-5-1	
17	17-LD-2-4-32-234	LD	2	4								32	234	VT	TTH			32	234	8	0	25	50	PP	17-LD-2-4-32-234-3	
17	17-LD-2-4-5-86	LD	2	4								5	86	VT	LOF			5	86	10	0	10		WR	17-LD-2-4-5-86-2	
17	17-LD-2-5-25-7	LD	2	5								25	7	VT	TTH			25	5	10	10	40	100	TSPP	17-LD-2-5-25-5-2	
17	17-LD-2-5-33-232	LD	2	5								33	232	VT	TTH			33	232	8	0	25	50	PP	17-LD-2-5-33-232-1	
17	17-LD-2-6-26-7	LD	2	6								26	7	VT	TTH			26	5	10	10	40	100	TSPP	17-LD-2-6-26-5-2	
17	17-LD-2-6-32-233	LD	2	6								32	233	VT	TTH			32	233	8	0	25	50	PP	17-LD-2-6-32-233-1	
17	17-LD-2-7-24-7	LD	2	7								24	7	VT	TTH			24	5	10	10	40	100	TSPP	17-LD-2-7-24-5-2	
17	17-LD-2-7-32-232	LD	2	7								32	232	VT	TTH			32	232	8	0	25	50	PP	17-LD-2-7-32-232-1	
17	17-LD-2-8-25-7	LD	2	8								25	7	VT	TTH			25	5	10	10	40	100	TSPP	17-LD-2-8-25-5-2	
17	17-LD-2-8-32-233	LD	2	8								32	233	VT	TTH			32	233	8	0	25	50	PP	17-LD-2-8-32-233-1	
17	17-LD-2-9-23-7	LD	2	9								23	7	VT	TTH			25	5	10	10	40	100	TSPP	17-LD-2-9-25-5-2	
17	17-LD-2-9-34-232	LD	2	9								34	232	VT	TTH			34	232	8	0	25	50	PP	17-LD-2-9-34-232-1	
17	17-LD-2-10-28-6	LD	2	10								28	6	VT	TTH			28	6	10	10	40	100	TSPP	17-LD-2-10-28-6-3	
17	17-LD-2-10-36-233	LD	2	10								36	233	VT	TTH			36	233	8	0	25	50	PP	17-LD-2-10-36-233-1	
17	17-LD-2-10-8-217	LD	2	10								8	217	VT	LOF			8	217	0	2	2		WR	17-LD-2-10-8-217-2	
17	17-LD-2-11-23-6	LD	2	11								23	6	VT	TTH			23	5	10	10	40	100	TSPP	17-LD-2-11-23-5-4	
17	17-LD-2-11-32-233	LD	2	11								32	233	VT	TTH			32	233	8	0	25	50	PP	17-LD-2-11-32-233-1	
17	17-LD-2-11-4-114	LD	2	11								4	114	VT	LOF			4	114	4	0	4		WR	17-LD-2-11-4-114-2	
17	17-LD-2-11-5-20	LD	2	11								5	20	VT	LOF			5	20	8	0	8		WR	17-LD-2-11-5-20-3	
17	17-LD-2-12-25-6	LD	2	12								25	6	VT	TTH			25	5	10	10	40	100	TSPP	17-LD-2-12-25-5-2	
17	17-LD-2-12-32-232	LD	2	12								32	232	VT	TTH			32	232	8	0	25	50	PP	17-LD-2-12-32-232-1	
17	17-LD-2-13-26-7	LD	2	13								26	7	VT	TTH			26	7	10	10	40	100	TSPP	17-LD-2-13-26-7-2	
17	17-LD-2-13-34-234	LD	2	13								34	234	VT	TTH			34	234	8	0	25	50	PP	17-LD-2-13-34-234-1	
17	17-LD-2-14-29-7	LD	2	14								29	7	VT	TTH			29	7	10	10	40	100	TSPP	17-LD-2-14-29-7-2	
17	17-LD-2-14-33-233	LD	2	14								33	233	VT	TTH			33	233	8	0	25	50	PP	17-LD-2-14-33-233-1	
17	17-LD-2-15-25-6	LD	2	15								25	6	VT	TTH			25	7	10	10	40	100	TSPP	17-LD-2-15-25-7-3	
17	17-LD-2-15-31-233	LD	2	15								31	233	VT	TTH			31	233	8	0	25	50	PP	17-LD-2-15-31-233-1	
17	17-LD-2-15-40-215	LD	2	15								40	215	VT	LOF			40	215	6	0	19	28	PP	17-LD-2-15-40-215-2	
17	17-LD-2-16-27-7	LD	2	16								27	7	VT	TTH			27	5	10	10	40	100	TSPP	17-LD-2-16-27-5-2	
17	17-LD-2-16-37-233	LD	2	16								37	233	VT	TTH			37	233	8	0	25	50	PP	17-LD-2-16-37-233-1	
17	17-LD-2-17-25-7	LD	2	17								25	7	VT	TTH			25	5	10	10	40	100	TSPP	17-LD-2-17-25-5-2	
17	17-LD-2-17-32-233	LD	2	17								32	233	VT	TTH			32	233	8	0	25	50	PP	17-LD-2-17-32-233-1	
17	17-LD-2-18-28-7	LD	2	18								28	7	VT	TTH			28	5	10	10	40	100	TSPP	17-LD-2-18-28-5-2	
17	17-LD-2-18-36-233	LD	2	18								36	233	VT	TTH			36	233	8	0	25	50	PP	17-LD-2-18-36-233-1	
17	17-LD-2-19-27-7	LD	2	19								27	7	VT	TTH			27	5	10	10	40	100	TSPP	17-LD-2-19-27-5-3	
17	17-LD-2-19-3-220	LD	2	19								3	220	VT	IF			3	220	4	0	4		WR	17-LD-2-19-3-220-1	

Tank No.	ID Applied to TesTex Reported Indication	Shell Location			TesTex Report								EEI Prove Up						Recommended Repairs							
		Location in Tank	Shell Course	Plate Number	TesTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside Indication (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	Repair Number: May Apply to Multiple Indications	
17	17-LD-2-19-37-234	LD	2	19								37	234	VT	TTH			37	234	8	0	25	50	PP	17-LD-2-19-37-234-2	
17	17-LD-2-20-27-7	LD	2	20								27	7	VT	TTH			27	5	10	10	40	100	TSPP	17-LD-2-20-27-5-2	
17	17-LD-2-20-37-234	LD	2	20								37	234	VT	TTH			37	234	8	0	25	50	PP	17-LD-2-20-37-234-1	
17	17-LD-2-21-26-7	LD	2	21								26	7	VT	TTH			26	5	10	10	40	100	TSPP	17-LD-2-21-26-5-2	
17	17-LD-2-21-33-234	LD	2	21								33	234	VT	TTH			33	234	8	0	25	50	PP	17-LD-2-21-33-234-1	
17	17-LD-2-22-28-7	LD	2	22								28	7	VT	TTH			28	5	10	10	40	100	TSPP	17-LD-2-22-28-5-2	
17	17-LD-2-22-33-234	LD	2	22								33	234	VT	TTH			33	234	8	0	25	50	PP	17-LD-2-22-33-234-1	
17	17-LD-2-23-24-7	LD	2	23								24	7	VT	TTH			24	5	10	10	40	100	TSPP	17-LD-2-23-24-5-3	
17	17-LD-2-23-38-233	LD	2	23								38	233	VT	TTH			38	233	8	0	25	50	PP	17-LD-2-23-38-233-2	
17	17-LD-2-23-48-50	LD	2	23								48	50	VT	IF			48	50	6	0	6		WR	17-LD-2-23-48-50-1	
17	17-LD-2-24-29-7	LD	2	24								29	7	VT	TTH			29	5	10	10	40	100	TSPP	17-LD-2-24-29-5-2	
17	17-LD-2-24-31-234	LD	2	24								31	234	VT	TTH			31	234	8	0	25	50	PP	17-LD-2-24-31-234-1	
17	17-LD-2-25-27-7	LD	2	25								27	7	VT	TTH			27	5	10	10	40	100	TSPP	17-LD-2-25-27-5-2	
17	17-LD-2-25-40-232	LD	2	25								40	232	VT	TTH			40	232	8	0	25	50	PP	17-LD-2-25-40-232-1	
17	17-LD-2-26-1-24	LD	2	26								1	24	VT	P			1	24	6	0	6		WR	17-LD-2-26-1-24-1	
17	17-LD-2-26-26-6	LD	2	26								26	6	VT	TTH			26	5	10	10	40	100	TSPP	17-LD-2-26-26-5-3	
17	17-LD-2-26-35-233	LD	2	26								35	233	VT	TTH			35	233	8	0	25	50	PP	17-LD-2-26-35-233-2	
17	17-LD-2-27-23-6	LD	2	27								23	6	VT	TTH			23	5	10	10	40	100	TSPP	17-LD-2-27-23-5-4	
17	17-LD-2-27-35-229	LD	2	27								35	229	VT	TTH			35	229	12	18	60	216	PP	17-LD-2-27-35-229-2	
17	17-LD-2-27-35-229	LD	2	27								35	229	VT	PA			35	229	8	0	25	50	PC	17-LD-2-27-35-229-3	
17	17-LD-2-27-39-10	LD	2	27								39	10	VT	IF			39	10	0	6	6		WR	17-LD-2-27-39-10-1	
17	17-LD-2-28-27-6	LD	2	28								27	6	VT	TTH			27	5	10	10	40	100	TSPP	17-LD-2-28-27-5-2	
17	17-LD-2-28-35-234	LD	2	28								35	234	VT	TTH			35	234	8	0	25	50	PP	17-LD-2-28-35-234-1	
17	17-LD-2-29-26-7	LD	2	29								26	7	VT	TTH			26	5	10	10	40	100	TSPP	17-LD-2-29-26-5-2	
17	17-LD-2-29-36-234	LD	2	29								36	234	VT	TTH			36	234	8	0	25	50	PP	17-LD-2-29-36-234-1	
17	17-LD-2-30-24-163	LD	2	30								24	163	VT	LOF			24	163	6	0	19	28	PP	17-LD-2-30-24-163-1	
17	17-LD-2-30-26-6	LD	2	30								26	6	VT	TTH			26	5	10	10	40	100	TSPP	17-LD-2-30-26-5-3	
17	17-LD-2-30-35-234	LD	2	30								35	234	VT	TTH			35	234	8	0	25	50	PP	17-LD-2-30-35-234-2	
17	17-LD-2-31-24-7	LD	2	31								24	7	VT	TTH			24	5	10	10	40	100	TSPP	17-LD-2-31-24-5-3	
17	17-LD-2-31-38-234	LD	2	31								38	234	VT	TTH			38	234	8	0	25	50	PP	17-LD-2-31-38-234-2	
17	17-LD-2-31-42-12	LD	2	31								42	12	VT	IF			42	12	0	6	6		WR	17-LD-2-31-42-12-1	
17	17-LD-2-32-29-7	LD	2	32								29	7	VT	TTH			29	5	10	10	40	100	TSPP	17-LD-2-32-29-5-3	
17	17-LD-2-32-45-233	LD	2	32								45	233	VT	TTH			45	233	8	0	25	50	PP	17-LD-2-32-45-233-2	
17	17-LD-2-32-46-31	LD	2	32								46	31	VT	IF			46	31	0	6	6		WR	17-LD-2-32-46-31-1	
17	17-LD-2-33-23-7	LD	2	33								23	7	VT	TTH			23	5	10	10	40	100	TSPP	17-LD-2-33-23-5-2	
17	17-LD-2-33-32-234	LD	2	33								32	234	VT	TTH			32	234	8	0	25	50	PP	17-LD-2-33-32-234-1	
17	17-LD-2-34-27-7	LD	2	34								27	7	VT	TTH			27	5	10	10	40	100	TSPP	17-LD-2-34-27-5-3	
17	17-LD-2-34-36-234	LD	2	34								36	234	VT	TTH			36	234	8	0	25	50	PP	17-LD-2-34-36-234-2	
17	17-LD-2-34-5-164	LD	2	34								5	164	VT	LOF			5	164	6	0	19	28	PP	17-LD-2-34-5-164-1	
17	17-LD-2-35-23-7	LD	2	35								23	7	VT	TTH			23	5	10	10	40	100	TSPP	17-LD-2-35-23-5-2	
17	17-LD-2-35-35-234	LD	2	35								35	234	VT	TTH			35	234	8	0	25	50	PP	17-LD-2-35-35-234-1	
17	17-LD-2-36-28-7	LD	2	36								28	7	VT	TTH			28	5	10	10	40	100	TSPP	17-LD-2-36-28-5-2	
17	17-LD-2-36-36-234	LD	2	36								36	234	VT	TTH			36	234	8	0	25	50	PP	17-LD-2-36-36-234-1	
17	17-LD-2-37-25-7	LD	2	37								25	7	VT	TTH			25	5	10	10	40	100	TSPP	17-LD-2-37-25-5-2	
17	17-LD-2-37-36-232	LD	2	37								36	232	VT	TTH			36	232	8	0	25	50	PP	17-LD-2-37-36-232-1	
17	17-LD-2-38-28-7	LD	2	38								28	7	VT	TTH			28	5	10	10	40	100	TSPP	17-LD-2-38-28-5-2	
17	17-LD-2-38-39-233	LD	2	38								39	233	VT	TTH			39	233	8	0	25	50	PP	17-LD-2-38-39-233-1	
17	17-LD-2-39-25-7	LD	2	39								25	7	VT	TTH			25	5	10	10	40	100	TSPP	17-LD-2-39-25-5-2	
17	17-LD-2-39-36-233	LD	2	39								36	233	VT	TTH			36	233	8	0	25	50	PP	17-LD-2-39-36-233-1	
17	17-LD-2-40-24-7	LD	2	40								24	7	VT	TTH			24	5	10	10	40	100	TSPP	17-LD-2-40-24-5-2	
17	17-LD-2-40-35-233	LD	2	40								35	233	VT	TTH			35	233	8	0	25	50	PP	17-LD-2-40-35-233-1	
17	17-LD-2-41-25-7	LD	2	41								25	7	VT	TTH			25	5	10	10	40	100	TSPP	17-LD-2-41-25-5-4	
17	17-LD-2-41-33-227	LD	2	41								33	227	VT	PA			33	227	8	0	25	50	PC	17-LD-2-41-33-227-3	
17	17-LD-2-41-34-228	LD	2	41								34	228	VT	TTH			34	228	14	18	64	252	PP	17-LD-2-41-34-228-2	
17	17-LD-2-41-6-115	LD	2	41								6	115	VT	P			6	115	0	2	2		WR	17-LD-2-41-6-115-1	
17	17-LD-2-42-30-7	LD	2	42								30	7	VT	TTH			30	5	10	10	40	100	TSPP	17-LD-2-42-30-5-2	

Tank No.	ID Applied to TesTex Reported Indication	Shell Location			TesTex Report								EEI Prove Up						Recommended Repairs							
		Location in Tank	Shell Course	Plate Number	TesTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside Indication (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	Repair Number: May Apply to Multiple Indications	
17	17-LD-2-42-31-233	LD	2	42								31	233	VT	TTH			31	233	8	0	25	50	PP	17-LD-2-42-31-233-1	
17	17-LD-2-43-26-8	LD	2	43								26	8	VT	TTH			26	5	8	10	36	80	TSPP	17-LD-2-43-26-5-3	
17	17-LD-2-43-32-233	LD	2	43								32	233	VT	TTH			32	233	8	0	25	50	PP	17-LD-2-43-32-233-2	
17	17-LD-2-43-45-63	LD	2	43								45	63	VT	P			45	63	4	0	4		WR	17-LD-2-43-45-63-1	
17	17-LD-2-44-28-6	LD	2	44								28	6	VT	TTH			28	5	10	10	40	100	TSPP	17-LD-2-44-28-5-2	
17	17-LD-2-44-35-233	LD	2	44								35	233	VT	TTH			35	233	8	0	25	50	PP	17-LD-2-44-35-233-1	
17	17-LD-1-1-10-5	LD	1	1								10	5	VT	TTH			10	4	8	8	32	64	TSPP	17-LD-1-1-10-4-2	
17	17-LD-1-1-24-235	LD	1	1								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-1-24-235-1	
17	17-LD-1-2-10-5	LD	1	2								10	5	VT	TTH			10	4	8	8	32	64	TSPP	17-LD-1-2-10-4-2	
17	17-LD-1-2-24-235	LD	1	2								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-2-24-235-1	
17	17-LD-1-3-10-5	LD	1	3								10	5	VT	TTH			10	4	8	8	32	64	TSPP	17-LD-1-3-10-4-2	
17	17-LD-1-3-24-235	LD	1	3								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-3-24-235-1	
17	17-LD-1-4-6-165	LD	1	4								6	165	VT	LOF			6	165	6	0	6		WR	17-LD-1-4-6-165-1	
17	17-LD-1-4-6-67	LD	1	4								6	67	VT	LOF			6	67	6	0	6		WR	17-LD-1-4-6-67-2	
17	17-LD-1-4-10-5	LD	1	4								10	5	VT	TTH			10	4	8	8	32	64	TSPP	17-LD-1-4-10-4-2	
17	17-LD-1-4-24-235	LD	1	4								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-4-24-235-1	
17	17-LD-1-5-10-5	LD	1	5								10	5	VT	TTH			10	4	8	8	32	64	TSPP	17-LD-1-5-10-4-2	
17	17-LD-1-5-24-235	LD	1	5								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-5-24-235-1	
17	17-LD-1-6-12-5	LD	1	6								12	5	VT	TTH			11	4	8	8	32	64	TSPP	17-LD-1-6-11-4-2	
17	17-LD-1-6-24-235	LD	1	6								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-6-24-235-1	
17	17-LD-1-7-13-5	LD	1	7								13	5	VT	TTH			12	4	8	8	32	64	TSPP	17-LD-1-7-12-4-2	
17	17-LD-1-7-24-235	LD	1	7								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-7-24-235-1	
17	17-LD-1-8-13-5	LD	1	8								13	5	VT	TTH			12	4	8	8	32	64	TSPP	17-LD-1-8-12-4-2	
17	17-LD-1-8-24-235	LD	1	8								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-8-24-235-1	
17	17-LD-1-9-13-5	LD	1	9								13	5	VT	TTH			12	4	8	8	32	64	TSPP	17-LD-1-9-12-4-2	
17	17-LD-1-9-24-235	LD	1	9								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-9-24-235-1	
17	17-LD-1-10-14-6	LD	1	10								14	6	VT	TTH			15	7	12	12	48	144	TSPP	17-LD-1-10-15-7-2	
17	17-LD-1-10-24-235	LD	1	10								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-10-24-235-1	
17	17-LD-1-11-14-5	LD	1	11								14	5	VT	TTH			15	7	12	12	48	144	TSPP	17-LD-1-11-15-7-2	
17	17-LD-1-11-24-235	LD	1	11								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-11-24-235-1	
17	17-LD-1-12-14-5	LD	1	12								14	5	VT	TTH			15	7	12	12	48	144	TSPP	17-LD-1-12-15-7-2	
17	17-LD-1-12-24-235	LD	1	12								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-12-24-235-1	
17	17-LD-1-13-24-235	LD	1	13								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-13-24-235-1	
17	17-LD-1-14-24-235	LD	1	14								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-14-24-235-1	
17	17-LD-1-14-3-5	LD	1	14								3	5	VT	TTH			3	5	18	10	56	180	TSPP	17-LD-1-14-3-5-2	
17	17-LD-1-15-24-235	LD	1	15								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-15-24-235-2	
17	17-LD-1-15-25-67	LD	1	15								25	67	VT	LOF			25	67	6	0	6		WR	17-LD-1-15-25-67-1	
17	17-LD-1-15-8-5	LD	1	15								8	5	VT	TTH			8	4	8	8	32	64	TSPP	17-LD-1-15-8-4-3	
17	17-LD-1-16-24-235	LD	1	16								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-16-24-235-1	
17	17-LD-1-16-6-5	LD	1	16								6	5	VT	TTH			6	4	8	8	32	64	TSPP	17-LD-1-16-6-4-2	
17	17-LD-1-17-24-235	LD	1	17								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-17-24-235-1	
17	17-LD-1-17-6-5	LD	1	17								6	5	VT	TTH			6	4	8	8	32	64	TSPP	17-LD-1-17-6-4-2	
17	17-LD-1-18-24-235	LD	1	18								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-18-24-235-1	
17	17-LD-1-18-7-5	LD	1	18								7	5	VT	TTH			7	4	8	8	32	64	TSPP	17-LD-1-18-7-4-2	
17	17-LD-1-19-24-235	LD	1	19								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-19-24-235-2	
17	17-LD-1-19-3-166	LD	1	19								3	166	VT	IF			3	166	8	0	8		WR	17-LD-1-19-3-166-1	
17	17-LD-1-19-7-5	LD	1	19								7	5	VT	TTH			7	4	8	8	32	64	TSPP	17-LD-1-19-7-4-3	
17	17-LD-1-20-24-235	LD	1	20								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-20-24-235-1	
17	17-LD-1-20-7-5	LD	1	20								7	5	VT	TTH			7	4	8	8	32	64	TSPP	17-LD-1-20-7-4-2	
17	17-LD-1-21-24-235	LD	1	21								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-21-24-235-1	
17	17-LD-1-21-8-5	LD	1	21								8	5	VT	TTH			8	4	8	8	32	64	TSPP	17-LD-1-21-8-4-2	
17	17-LD-1-22-24-235	LD	1	22								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-22-24-235-1	
17	17-LD-1-22-9-5	LD	1	22								9	5	VT	TTH			9	4	8	8	32	64	TSPP	17-LD-1-22-9-4-2	
17	17-LD-1-23-24-235	LD	1	23								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-23-24-235-1	
17	17-LD-1-23-9-5	LD	1	23								9	5	VT	TTH			9	4	8	8	32	64	TSPP	17-LD-1-23-9-4-2	
17	17-LD-1-24-24-235	LD	1	24								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-24-24-235-1	

Tank No.	ID Applied to TesTex Reported Indication	Shell Location			TesTex Report								EEI Prove Up						Recommended Repairs							
		Location in Tank	Shell Course	Plate Number	TesTex Indication ID on Plate	X Coordinate (in)	Y Coordinate (in)	Method	Indication Type	Minimum Wall Thickness	Depth or Topside Indication (in)	Center of Indication: X (in)	Center of Indication: Y (in)	Method	Indication Type	Minimum Thickness (in)	Depth (in)	Center of Repair: X (in)	Center of Repair: Y (in)	Width or Dia (in)	Height (in)	Length of Weld (in)	Area of PP (sq in)	Repair Type (Patch, Weld, Cap)	Repair Number: May Apply to Multiple Indications	
17	17-LD-1-24-9-5	LD	1	24								9	5	VT	TTH			9	4	8	8	32	64	TSPP	17-LD-1-24-9-4-2	
17	17-LD-1-25-10-5	LD	1	25								10	5	VT	TTH			10	4	8	8	32	64	TSPP	17-LD-1-25-10-4-2	
17	17-LD-1-25-24-235	LD	1	25								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-25-24-235-1	
17	17-LD-1-26-11-5	LD	1	26								11	5	VT	TTH			11	4	8	8	32	64	TSPP	17-LD-1-26-11-4-2	
17	17-LD-1-26-24-235	LD	1	26								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-26-24-235-1	
17	17-LD-1-27-10-5	LD	1	27								10	5	VT	TTH			10	4	8	8	32	64	TSPP	17-LD-1-27-10-4-2	
17	17-LD-1-27-24-235	LD	1	27								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-27-24-235-1	
17	17-LD-1-28-11-5	LD	1	28								11	5	VT	TTH			11	4	8	8	32	64	TSPP	17-LD-1-28-11-4-2	
17	17-LD-1-28-24-235	LD	1	28								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-28-24-235-1	
17	17-LD-1-29-11-5	LD	1	29								11	5	VT	TTH			10	4	8	8	32	64	TSPP	17-LD-1-29-10-4-2	
17	17-LD-1-29-24-235	LD	1	29								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-29-24-235-1	
17	17-LD-1-30-24-235	LD	1	30								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-30-24-235-1	
17	17-LD-1-30-9-5	LD	1	30								9	5	VT	TTH			9	4	8	8	32	64	TSPP	17-LD-1-30-9-4-2	
17	17-LD-1-31-24-235	LD	1	31								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-31-24-235-1	
17	17-LD-1-31-9-5	LD	1	31								9	5	VT	TTH			9	4	8	8	32	64	TSPP	17-LD-1-31-9-4-2	
17	17-LD-1-32-24-235	LD	1	32								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-32-24-235-1	
17	17-LD-1-32-10-5	LD	1	32								10	5	VT	TTH			9	4	8	8	32	64	TSPP	17-LD-1-32-9-4-2	
17	17-LD-1-33-24-235	LD	1	33								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-33-24-235-1	
17	17-LD-1-33-10-5	LD	1	33								10	5	VT	TTH			9	4	8	8	32	64	TSPP	17-LD-1-33-9-4-2	
17	17-LD-1-34-11-5	LD	1	34								11	5	VT	TTH			10	4	8	8	32	64	TSPP	17-LD-1-34-10-4-2	
17	17-LD-1-34-24-235	LD	1	34								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-34-24-235-1	
17	17-LD-1-35-11-5	LD	1	35								11	5	VT	TTH			10	4	8	8	32	64	TSPP	17-LD-1-35-10-4-2	
17	17-LD-1-35-24-235	LD	1	35								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-35-24-235-1	
17	17-LD-1-36-11-5	LD	1	36								11	5	VT	TTH			10	4	8	8	32	64	TSPP	17-LD-1-36-10-4-2	
17	17-LD-1-36-24-235	LD	1	36								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-36-24-235-1	
17	17-LD-1-37-12-5	LD	1	37								12	5	VT	TTH			11	4	8	8	32	64	TSPP	17-LD-1-37-11-4-2	
17	17-LD-1-37-24-235	LD	1	37								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-37-24-235-1	
17	17-LD-1-38-12-5	LD	1	38								12	5	VT	TTH			11	4	8	8	32	64	TSPP	17-LD-1-38-11-4-2	
17	17-LD-1-38-24-235	LD	1	38								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-38-24-235-1	
17	17-LD-1-39-13-5	LD	1	39								13	5	VT	TTH			12	4	8	8	32	64	TSPP	17-LD-1-39-12-4-2	
17	17-LD-1-39-24-235	LD	1	39								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-39-24-235-1	
17	17-LD-1-40-13-5	LD	1	40								13	5	VT	TTH			11	4	8	8	32	64	TSPP	17-LD-1-40-11-4-2	
17	17-LD-1-40-24-235	LD	1	40								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-40-24-235-1	
17	17-LD-1-41-14-5	LD	1	41								14	5	VT	TTH			12	4	8	8	32	64	TSPP	17-LD-1-41-12-4-2	
17	17-LD-1-41-24-235	LD	1	41								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-41-24-235-1	
17	17-LD-1-42-15-5	LD	1	42								15	5	VT	TTH			14	6	12	12	48	144	TSPP	17-LD-1-42-14-6-2	
17	17-LD-1-42-24-235	LD	1	42								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-42-24-235-1	
17	17-LD-1-43-24-235	LD	1	43								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-43-24-235-1	
17	17-LD-1-43-9-5	LD	1	43								9	5	VT	TTH			9	4	8	8	32	64	TSPP	17-LD-1-43-9-4-2	
17	17-LD-1-44-24-235	LD	1	44								24	235	VT	TTH			24	235	10	10	40	100	TSPP	17-LD-1-44-24-235-1	
17	17-LD-1-44-9-5	LD	1	44								9	5	VT	TTH			9	4	8	8	32	64	TSPP	17-LD-1-44-9-4-2	

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ATTACHMENT G
CALCULATIONS

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TANK 17 CORROSION RATES

Overview

EI is providing the information below as formulas for calculating corrosion rates for the steel liner. See Clean Inspect Repair Tanks 4 and 13 (TO 004) Clean Inspect Repair Tanks 14, 17, and 18 (TO 005) Design Analysis – Basis of Design document, Rev 3.0 dated October 2017 which establishes remaining minimum remaining wall thickness accept/reject criteria.

Record drawings of the Red Hill tanks indicate the steel liner plates in the upper dome, barrel, and lower dome in all of the tanks are 250 mils thick plate nominal. The floor (referred to as “base plate” on record drawings) of the lower dome in all of the tanks is indicated as 500 mils thick plate. Record drawings indicate formed cover plates were installed circa 2002 over the backing bars of the upper dome welds. This document prepared by EI provides a calculation of corrosion rates for 250 mils thick steel liner plates and formed cover plates of the upper dome.

MAXIMUM CALCULATED CORROSION RATES FOR TANK 17

Maximum calculated corrosion rates for Tank 17 based on wall plate with least remaining wall thickness is as follows:

- Upper Dome – Maximum wall loss was 900 mils of metal which occurred in 75 years of service making the corrosion rate:
 - Corrosion Rate = 900 mils / 75 years = 1.200 mils / year
- Extension Ring – Maximum wall loss was 900 mils of metal which occurred in 75 years of service making the corrosion rate:
 - Corrosion Rate = 900 mils / 75 years = 1.200 mils / year
- Barrel – Maximum wall loss was 129.3 mils of metal which occurred in 75 years of service making the corrosion rate:
 - Corrosion Rate = 900 mils / 75 years = 1.200 mils / year
- Lower Dome & Floor – Negligible – measured plate thickness was within mill tolerance.

See attached shell roll out for location in tank.

Tank 17 corrosion rate by plate.

All rates are in mils per year

Legend

	=	Thickness of plate greater than 0.200"
	=	Measureable corrosion - Number indicates calculated corrosion rate in mils per year
	=	No Plate Exists in this Shell Course

		Plate Number																		
Column1		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Upper Dome	F																			
	E						1.2		1.2											
	D																			
	C																			
	B																			
Extension Ring	A																			
	E4					1.2						1.2								
	E3								1.2											
	E2	1.2			0.747	0.8		1.2	1.2											
	E1		1.2						1.2											
Barrel	28	1.2						0.4								1.2				
	27					1.147		1.2		1.173										
	26						0.68													
	25										1.2									
	24									0.667										
	23		1.2													1.2				
	22				1.2					1.2										
	21								0.933				1.2							
	20																			
	19																			
	18																			
	17																			
	16																			
	15																			
	14																			
	13																			
	12								0.467											
	11						1.2													
	10																			
	9		1.2																	
	8																			
	7																			
	6															1.2				
	5				1.2															
	4										1.2									
	3																			
	2						0.147													
	1						0.013													
Lower Dome	4																			
	3																			
	2																			
	1																			
	Floor																			

Legend

	=	Thickness of plate greater than 0.200"
	=	Measureable corrosion - Number indicates calculated corrosion rate in mils per year
	=	No Plate Exists in this Shell Course

[illegible]

Legend	
	= Thickness of plate greater than 0.200"
	= Measureable corrosion - Number indicates calculated corrosion rate in mils per year
	= No Plate Exists in this Shell Course

		Plate Number																							
		49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
Upper Dome																									
Extension Ring																									
		1.2																							
Barrel																									
Lower Dome																									

ATTACHMENT H

TESTEX API 653 PERSONNEL TESTING

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TESTEX PERSONNEL TEST RESULTS

The following TestEx personnel successfully passed a blind screening test given by:

Karl Schlenker, EEI Senior NDE staff at the Red Hill field trailer:

Agustin Nava

Scott Keller

Andrew Kim

Emmanuel Ugochukwu

Bradley Chambers

Kyle Byassee

Joe Stanishewski

Tom Hardin

Joseph Miller

Ron Allen

Dennis Stefanko

Bill Cole

Marc Detisch

NAME: Augustin Nwan

TOP-SIDE PITTING				
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"			
	X	Y		
001				

BOTTOM-SIDE PITTING				
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"			
	X	Y		
003	7 000	15		
	8	8	?	
	4	18	?	
	7	8		
	2	18		
	4	14		
	1.5	9.5		

DATE: 12/4/12

TOP-SIDE PITTING				
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"			
	X	Y		
004	10	14 ✓		
	9.5	10 ✓		
	8	4 ✓		
	15	6.5 ✓	7.5	18.5
	5	8	7.5	4
	2	7 ✓	2	16
	4	20		

BOTTOM-SIDE PITTING				
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"			
	X	Y		
004				
				

testex

NAME: Scott Kense

DATE: 12/4/17

TOP-SIDE PITTING				
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"			
	X	Y		
001				

TOP-SIDE PITTING				
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"			
	X	Y		
002				

BOTTOM-SIDE PITTING				
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"			
	X	Y		
003	2	18		
	4	14		
	2	8		
	8	15		
	8	8		
	4-5	14		
	7	8-9		

BOTTOM-SIDE PITTING				
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"			
	X	Y		
004	3-4	20		
	2	16		
	2	7		
	9	14		
	9	10		
	9	4		
	1	18		

NAME: Andrew KimDATE: 10-25-17

TOP-SIDE PITTING				
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"			
	X	Y		
001	2 3/8"	3 3/4"		
	1"	19 1/2"		
	7 1/2"	9 3/4"		
	4 1/4"	16 1/8"		
	7 1/2"	3 3/4"		
	10"	12 1/4"		
	8 1/2"	20 1/8"		

BOTTOM-SIDE PITTING				
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"			
	X	Y		
003	2 1/2"	17 5/8"		
	4 3/8"	13 3/8"		
	1 3/4"	9 1/2"		
	8 1/4"	7 3/4"		
	7 3/4"	19"		
	7-8 1/2"	8 1/8"		
	11"	12 1/4"		
	8 1/4"	15"		

TOP-SIDE PITTING				
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"			
	X	Y		
002	2 1/2"	8 1/2"		
	4"	12 1/2"		
	3 1/2"	19"		
	7 7/8"	13 3/4"		
	9 3/4"	2 3/4"		
	11"	9 1/4"		
	9 7/8"	20 1/2"		

BOTTOM-SIDE PITTING				
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"			
	X	Y		
004	2 1/4"	7"		
	4"	20"		
	6 1/4"	19"		
	5"	20"		
	6 3/8"	15"		
	8"	18"		
	7 1/2"	14"		
	7 1/2"	10"		
	8 1/2"	4"		
	10 1/2"	14"		
	9 1/2"	10 1/4"		

NAME: Emmanuel Ugochukwu

TOP-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
001	8 1/2	20			
	1	19			
	4 1/2	16			
	10	12			
	4 1/2	10			
	7 1/2	5			
	2 1/2	4			

TOP-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
002 7xVT 5xLEFT	10	3			
	5	9			
	10	7			
	4	12 1/2			
	8	14			
	3 1/2	19			
	10	20 1/2			

BOTTOM-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
003 *	3	8	—	—	240
	2	14	—	—	237
	4	18 1/2	—	—	242
	7 1/2	5 1/2	—	—	240
	6	8 1/2	—	—	104
	6	14	—	—	240
	8 1/2	9	—	—	242
	9	15 1/2	—	—	135

BOTTOM-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
004	5	7	—	—	230
	5	20	—	—	160
	8	8	—	—	233
	4	16	—	—	230
	9	16	—	—	235
	6 1/2	19	—	—	236
	11	10	—	—	236
	7 1/2	14	—	—	232

NAME: Brad

TOP-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
001	1	19			
	2	4			
	4	9 1/2			
	4	15			
	7 1/2	5			
	8 1/2	20			

TOP-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
002 7xVT 5xLEFT	4	17			
	4 1/2	8 1/2			
	4	12			
	8	14			
	9 1/2	3			
	10	20 1/2			
	11	9			

BOTTOM-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
003	5	5			
	7	8			
	5	14			
	6	20			
	7	8			
	8 1/2	15			
	2 1/2	8 1/2			
	4	14			
	2	14			

BOTTOM-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
004	.75	7	2/7		.125
	2 1/2	16			.204
	4	8			.198
	7 1/2	15			.238
	8	18 1/2			.115
	6	18 1/2			.230
	7 1/2	10			
	10	10	9/10		.119
	10 1/2	13 1/2	10/14		.103
	10 1/2	17 1/2			
	10	21	10/22		.123
	9	4			.161
	4	19 1/2	3 1/2/19 1/2		.204

BASE
0.233

Fillet Plate
Defect

NAME: Kyle

TOP-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
001	2½	3½			
	7½	4			
	4½	9½			
	10	12½			
	4½	16			
	1	19½			
	8½	20			

TOP-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
002	10	3			
	4.5	8.5			
	11	9.5			
	4	12.5			
	8	14			
	3.5	19			
	10	20.5			

BOTTOM-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
003	✓ 4	8½			
	✓ 3	18½	✓		
	✓ 6	14½			
	9	8½			
	✓ 9½	15½			
	10½	24			
	✓ 1	8½	✓		
	5	5½	✓		
	4½	14½	✓		
	8	8½	✓		
	8	15½	✓		
	11	12	✓		

BOTTOM-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
004	3	7			
	2	16			
	5	8			
	4	15			
	4	20			
	9	10			
	9	14			
	8	18			
	9	9			

NAME: Joe Stanishewski

TOP-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
001	2 5/16"	3 5/8"			
	7 1/2"	3 7/8"			
	4 1/2"	9 3/4"			
	10 1/16"	12 1/4"			
	4 3/8"	16 1/8"			
	1"	19 1/2"			
	8 5/8"	20 1/8"			

TOP-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
002	9 7/8"	3 3/4"			
	4 1/2"	8 9/16"			
	10 5/16"	9 1/4"			
	4 1/8"	12 5/8"			
	7 7/8"	13 7/8"			
	3 1/2"	19 1/16"			
	9 7/8"	20 5/8"			

BOTTOM-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
003	2	18			
	5	14			
	1	8			
	3	3			
	8	15			
	7	8			
	6	11			
	9	7			

BOTTOM-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
004	6	20			
	7	16			
	3	7			
	4	3			
	7	18			
	7	15			
	5	8			
	8-9	4			
	10	14			
	9	10			

NAME: Tom HARDIN

TOP-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
001	3"	2.5"			
	7.5"	1"			
	10"	4.5"			
	16"	4.5"			
	4"	7.5"			
	12"	10"			
	20"	8.5"			

TOP-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
003 002	8"	9"			
	4"	14"			
	6	21"			
	1"	19"			
	2"	22"			
	7"	8"			
	7"	15"			
	11"	12"			

BOTTOM-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
002 003	4.5"	8.5"			
	4"	12.5"			
	3.5"	19"			
	8"	14"			
	10"	3"			
	11"	9.5"			
	10"	21"			

BOTTOM-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
004	2"	8"			
	4"	21"			
	8"	10"			
	10"	14"			
	4"	7"			
	6"	16"			
	8"	21"			

NAME: Joseph Miller

TOP-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
001	2 $\frac{1}{4}$	3 $\frac{1}{2}$			
	7 $\frac{1}{2}$	3 $\frac{3}{4}$			
	4 $\frac{5}{8}$	9 $\frac{3}{4}$			
	10	12 $\frac{1}{4}$			
	4 $\frac{1}{2}$	16 $\frac{1}{4}$			
	1	19 $\frac{1}{2}$			
	8 $\frac{1}{2}$	20 $\frac{1}{4}$			

TOP-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
002	5	10			
	4 1/2	8 1/2			
	11	9			
	4	12			
	8	14			
	3	19			
	10	21			

BOTTOM-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
003	✓ 1	9			
	✓ 5	14			
	✓ 2	18			
	✓ 7	8			
	✓ 8	8			
	✓ 11	12			
	✓ 8	15			

BOTTOM-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
004	2	7			
	2	16			
	4	20			
	5	8			
	7	15			
	9	10			
	10	14			
	11 1/2	16			
	7	19			

AME: RON ALLEN

TOP-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
001	2 1/2	3 1/2			
	7 1/2	4			
	4 1/2	10			
	10	12			
	4 1/2	16			
	1	19 1/2			
	8 1/2	20			

TOP-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
002	10"	3"			
	4 1/2	8 1/2			
	11	9 1/4			
	4	12 1/2			
	8	14			
	3 1/2	19			
	10	20 1/2			

BOTTOM-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
003	✓ 2	9			
	✓ 3 1/2	14			
	✓ 3	19			
	✓ 8	9			
	✓ 8	15			
	✓ 5	5			

BOTTOM-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
004	2 1/2	7			
	4	20			
	5	7			
	3	15			
	7	7			
	7	15			
	7	19			
	9	10			
	9	14			

NAME: Dennis Stefanko

TOP-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X →	Y ↑			
001	2 $\frac{3}{8}$	3 $\frac{3}{4}$			
	7 $\frac{5}{8}$	4			
	4 $\frac{5}{8}$	9 $\frac{3}{4}$			
	10	12 $\frac{5}{8}$			
	4 $\frac{5}{8}$	16 $\frac{5}{8}$			
	1	19 $\frac{5}{8}$			
	8 $\frac{1}{2}$	20 $\frac{5}{8}$			

TOP-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
002	9 3/4	2 3/4			
	4 1/2	8 1/2			
	11	9 1/4			
	4 1/4	12 1/2			
	8	14			
	3 1/2	19			
	10	20 1/2			

BOTTOM-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
003	✓ 2 1/2	18			
	✓ 2	8 1/4			
	✓ 2	3 3/4			
	✓ 4 1/2	14			
	✓ 5	5			
	5	3 1/2	END of plate		
	✓ 8	15			
	✓ 7 1/2	8			
	9	4			
	✓ 9 1/2	3 1/4			
	✓ 11	12			

BOTTOM-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
004	3	20			
	2	7			
	3	5			
	4	20			
	5	15			
	5	8			
	5	4			
	8	19			
	9 1/2	14			
	9	10			
	8	4			

NAME: Bill

TOP-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
All located 001 VT +3 ET	3	2			
	7	1			
	10	4			
	17	5			
	5	8			
	12	10			
	20	8			

TOP-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
7 x VT 5 x ET 002	9	2			
	10	9			
	4	12			
	7	13			
	4	8			
	3	19			
	9	20			

BOTTOM-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
003	2 1/2	18 1/2	—	—	242
	5	19	—	—	245
	2	8 1/2	—	—	242
	8 1/4	15	—	—	245
	4	14	—	—	246
	8	8	—	—	1109
	5	5	—	—	185
	7 1/2	15	—	—	129
	11 1/2	12	—	—	170
	7	8 1/2	—	—	186

BOTTOM-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
004	2	7			
	2	15			
	4	19			
	5	9			
	7	15			
	9	11			
	9.5	14			
	11	16			
	7	19			

NAME: Mark

TOP-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
11 x VT LF 3 x ET 001	2	3 1/2			
	7	5			
	4	9 3/4			
	10	12			
	4	16			
	1	19 1/2			
	8	20			

TOP-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
7 x VT LF 5 x ET 002	10	3			
	5	9			
	11	9			
	4	12 1/2			
	8	14			
	4	19			
	10	20 1/2			

BOTTOM-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
003	1	14	—	—	240
	3 1/2	18 1/2	—	—	238
	5	8 3/4	—	—	216
	7	8 9	—	—	240
	6 1/2	15	—	—	243
	8	15	—	—	242
	12	12	—	—	174

BOTTOM-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
004	2	7			
	2	16			
	4	20			
	5	8			
	6	15			
	9	10			
	10	14			
	7	19			

TOP-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
001	2 3/8	3 5/8	0.250	0.060	0.190
	7 1/2	4 7/8	0.250	0.068	0.182
	4 1/2	9 3/4	0.375	0.145	0.105
	10 1/16	12 1/4	0.375	0.125	0.125
	4 3/8	16 1/8	0.250	0.085	0.165
	1	19 1/2	0.250	0.091	0.159
	8 5/8	20 1/8	0.375	0.153	0.097

TOP-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
002	9 7/8	2 3/4	0.375	0.123	0.127
	4 9/16	8 9/16	0.375	0.169	0.081
	10 15/16	9 1/4	0.250	0.090	0.160
	4 1/8	12 3/8	0.250	0.083	0.167
	7 7/8	13 7/8	0.375	0.128	0.122
	3 7/16	19 1/8	0.250	0.083	0.167
	9 13/16	20 5/8	0.250	0.084	0.166

BOTTOM-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
003	2 1/2	3 3/16	0.500	0.178	0.072
	9 3/4	2 3/16	0.375	0.145	0.105
	5 1/4	5 1/4	0.250	0.083	0.167
	7 7/16	8 1/8	0.500	0.170	0.080
	1 5/16	8 3/8	0.375	0.142	0.108
	10 7/8	12 1/8	0.250	0.098	0.152
	4 7/16	13 7/8	0.500	0.210	0.040
	7 3/16	15 1/16	0.375	0.123	0.127
	2 1/8	18 5/16	0.375	0.138	0.112
	9 5/8	21 1/8	0.500	0.160	0.090
	5	21 3/4	0.375	0.130	0.120

BOTTOM-SIDE PITTING					
PLATE NUMBER	INCHES FROM LOWER RIGHT CORNER MARKED "TOP"		DIA.	DEPTH	REMAINING WALL (APPROX.)
	X	Y			
004	3 1/16	3	0.500	0.180	0.070
	7 7/8	4	0.500	0.190	0.060
	2	7	0.375	0.162	0.088
	5 3/16	7 15/16	0.250	0.098	0.152
	9	10	0.375	0.155	0.095
	10	13 15/16	0.500	0.195	0.055
	6 1/16	14 13/16	0.375	0.150	0.100
	2	15 7/8	0.250	0.083	0.167
	7 5/16	18 9/16	0.375	0.150	0.100
	4	20 15/16	0.500	0.195	0.055
	10	21 15/16	0.375	0.152	0.098

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ATTACHMENT I

VENT INSPECTION REPORT

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04 October 2019

TANK 17 VENTILATION LINE INSPECTION REPORT

RED HILL UNDERGROUND FUEL STORAGE FACILITY

CLEAN, INSPECT REPAIR (CIR) RED HILL TANKS 14, 17 AND 18

PROJECT: Clean, Inspect Repair (CIR) Tanks 14, 17 and 18
NAVFAC EXWC Contract No. N39430-15-D-1632
Task Order 0005
EEI Project No. 8854.03

TRIP TO: Red Hill, Honolulu, Hawaii

DATE OF TRIP: 09 July 2019 to 18 July 2019

PREPARED BY: Matthew C. McGowan

PURPOSE: Visually inspect Tank 17's ventilation line via robotic
crawler

SUMMARY

Enterprise Engineering Inc. (EEI), performed a visual inspection of the ventilation line for Tank 17 at the Red Hill Underground Fuel Storage Facility in Honolulu, Hawaii under contract to Naval Facilities Expeditionary Warfare Center (NAVFAC EXWC) as a modification to a Clean, Inspect, Repair project. Since the exterior of the vent line is encased in concrete, the piping could not be visually inspected via traditional means. EEI employed the use of a robotic crawler with cameras to inspect the condition of the internal ventilation piping.

In general, the ventilation piping is significantly corroded with many holes and large internal pits throughout all segments of the pipe and it is not in serviceable condition. Consequently, it is recommended that the vent lines are not returned to service as primary containment piping and either replaced or flexible lines be routed through the existing vent line.

DESCRIPTION OF FACILITY

Tank 17 and other tanks at the Red Hill Underground Fuel Storage Facility were constructed between 1940-1943 with reinforced concrete and a welded steel liner. Tank 17 stores JP-5 fuel

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Falmouth, ME 04105 • 400 US Route 1, North Suite B • 207.869.8006 • Fax 207.869.8015
Anchorage, AK 99503 • 2525 Gambell Street, Suite 200 • 907.563.3835 • Fax 907.563.3817

and has a nominal capacity of 300,000 bbl. The tank has a 24" diameter, Schedule 5 ventilation line that is roughly 100 linear feet from the upper dome gauging chamber to the upper cross tunnel near the 96" manway. The piping follows the overhead above the ladders and stairway going to the upper dome gauging chamber and is sprayed in 4-6" of concrete making the pipe integral to the tunnel walls. The ventilation line in the upper cross tunnel is not encased in sprayed concrete.

DESCRIPTION OF COMPLETED ACTIVITIES

In accordance with the Scope of Work, EEI performed an internal visual inspection of Tank 17's ventilation line in July 2019. Video was taken via cameras attached to a robotic crawler in order to determine the overall internal condition of the ventilation piping.

FIELD FINDINGS

While lowering the crawler through the ventilation line from the upper dome gauging station, a significant amount of dirt and metallic dust from corrosion product was lining the bottom of the horizontal sections of pipe. In some sections, the crawler, which sticks to the wall of the pipe via magnets, struggled to stay attached due to decreased wall thickness and metallic dust.

Large flakes of corrosion product were also laying in the ventilation line as seen below:



Photo 1: Large flake of corrosion product, several inches long.

Calcium deposits also lined the entire length of the vent, indicating the mineral leached from the concrete through holes in the vent. This can be seen in the following two pictures:



Photo 2: Large calcium deposit at top of pipe, roughly 1-2" diameter.



Photo 3: White discolorations are indicative of either calcium deposits or deep pits, typical of entire ventilation line.

Corrosion also exist along the spiral welds in the form of rust pockets, pits, and holes. Pits can be seen in the photo above. Seen below are two large open corrosion formations and rust.



Photo 4: Holes and rust along spiral weld.

Without access to the exterior of the piping, UT data could not be taken to determine the remaining wall thickness of pits and corrosion formations along the ventilation piping, but the presence of calcium deposits and the size of some corrosion indicate full penetration to the concrete. It is EEI's opinion that the entire ventilation line between the gauging chamber and the upper cross tunnel is not in a condition to be returned to service and needs to be replaced.

CLOSURE

EEI will proceed to prepare repair plans for Tank 17's ventilation line considering the extent of corrosion, location of vent line, and access to work. Please forward this document to additional project stakeholders as appropriate.

Prepared By,

Matthew C. McGowan
Mechanical Integrity Engineer

ENTERPRISE ENGINEERING, INC.

Submitted By,

Terry Strack P.E.
Project Manager

ENTERPRISE ENGINEERING, INC.

ATTACHMENT J

TOWER STRUCTURE INSPECTION REPORT

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**HAWAII
ENGINEERING
GROUP, INC.**

Consulting Civil Engineers, Structural Engineers & Land Surveyors
US (SBA) SDB & DBE Certified

Reference #17-002

September 30, 2017

Mr. Jon Nicholson, Construction Manager
CB&I – Federal Services LLC
1725 Duke Street, Suite 400
Alexandria, VA 22314

Subject: Red Hill Tanks Project
Inspection of Tank #17 tower and walkway

Dear Mr. Nicholson

The center tower structure and walkway were inspected on April 11, 2017 for inspection of center tower and walkway. A second inspection was done on May 19 to map tower legs as it was observed that leg sections vary along tower height. A third inspection was done on August 1, 2017 for inspection of entrance framing. During inspection the following deficiencies were noted. For reference the four tower legs were consecutively numbered counter clockwise with leg #1 being the first leg supporting the walkway and looking down on the tower. Tower elevations are referenced with elevation 0 at the bottom of tower.

Tower Inspection – April 11, 2017

1. 1 bolt is missing in each connection located at elevation 0 of tower leg #2 and leg #3.
2. 1 bolt missing in connection located at elevation 60 of tower leg #2.
3. 2 bolts have loose nuts in connection located at elevation 60 of tower leg #3
4. 1 bolt missing in connection located at elevation 70 of tower leg #2.
5. 1 bolt missing in connection located at elevation 110 of tower leg #1.
6. 1,2 bolts have loose nuts in connections located at elevation 110 of tower leg 3 &4 respectively.
7. 1 bolt missing in connection located at elevation 120 of tower leg #2.
8. 1 bolt has loose nut in connection located at elevation 125 of tower leg #3
9. An oversize hole at elevation 135 in tower leg #4 needs to be plugged.
10. 1 bolt has loose nut in connection located at elevation 160 of tower leg #3
11. 2 bolts have loose nuts in connection located at elevation 60 of tower leg #3
12. 1 bolt has loose nut in connection located at elevation 180 of tower leg #2
13. 1,2,3 bolts are missing in connections located at elevation 190 of tower legs 2,3 &4 respectively.
14. 8,8 bolts are missing in connections located at elevation 200 of tower legs 2 &4 respectively.
15. 4,4 bolts are missing in connections located at elevation 210 of tower legs 2 &4 respectively.
16. 2,1 bolts have loose nuts in connections located at elevation 220 of tower leg 2 &3 respectively.
17. 1 bolt missing in connection located at elevation 230 of tower leg #2.
18. The horizontal angle at elevation 230 needs repair.

CB&I should install the missing bolts and weld cover plates on holes in gusset plates. The loose nuts conditions, damaged nut conditions and missing bolt conditions should be addressed immediately before installation of boom cranes. The repair of gusset plates can be done after the boom cranes have been installed.

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Email: heg@hawaiiengineering.net • Web: www.hawaiiengineering.net



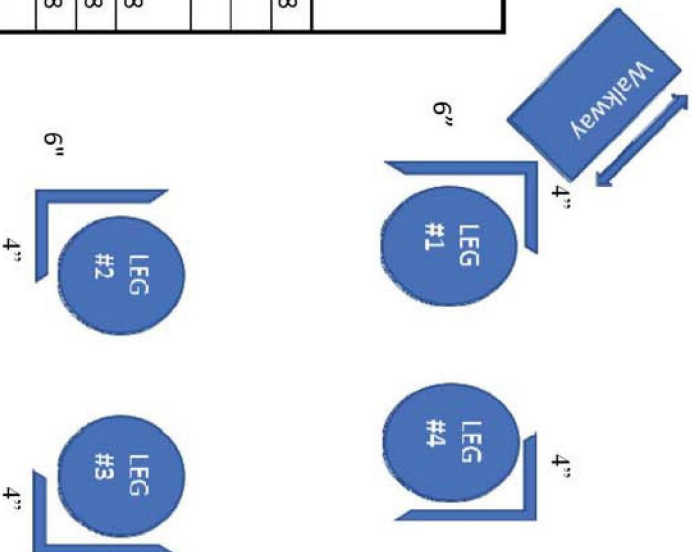
The replacement bolts should be grade A325 and match the size and length of existing bolts. Use flat washers under the nut side of the connection. Gusset plate should be repaired using A36 steel plate material of same or greater thickness of the gusset plate being repaired. The plate will be welded using SMAW method by qualified welder using a fillet weld. Plate shall be welded on all four sides. Plate size shall be at least twice the size of the gusset plate opening.

The tower and the walkway structure are in good condition and should be okay for service once the deficiencies are eliminated.

Tower leg member mapping – May 19, 2017

Tower was mapped mainly for leg member sizes and orientation. Following are results of mapping. The leg member sizes change along the tower height see table below

TANK #17		Leg 1	Leg 2	Leg 3	Leg 4
From Elev. Ft.	To Elev. Ft.				
0	120	L6x4x5/8	L6x4x5/8	L6x4x5/8	L6x4x5/8
120	140	do	do	L6x6x5/8	do
140	160	do	do	L6x4x5/8	do
160	170	do	do	do	L6x6x5/8
170	180	do	L6x6x5/8	do	L6x6x5/8
180	190	do	L6x6x5/8	do	L6x4x5/8
190	200	do	L6x4x5/8	do	do
200	210	do	do	L6x6x5/8	do
210	220	do	L6x6x5/8	L6x6x5/8	do
220	230	do	L6x6x5/8	L6x4x5/8	L6x6x5/8
230	240	L6x6x5/8	L6x4x5/8	L6x4x5/8	L6x6x5/8
240	247.9	do	do	L6x6x5/8	L6x6x5/8



All horizontals are 2L3x3x 3/16 (or 1/4")

All Diagonals are L2 1/2 x 2 x 1/4 LLV

Overall tower dimension outside face to outside face of legs is 7' x 7'

Red Hill Tanks
Tank 17 – Tower Inspection Report
September 30, 2017
Page 3 of 3



BWS032043

Entrance Framing Inspection – August 01, 2017

This inspection was performed using a platform suspended from the tank boom crane.

The entrance framing was observed to be in good condition. One of the main beams appears to be bent at a full section splice welded joint (see photos 37 & 38). Scaffolding to be suspended from the entrance framing will need to be supported by the main cantilever beams close to the tank wall to minimize additional bending in the main structure. The anchoring system for the scaffolding to be suspended under the tank entrance should be reviewed and designed by a professional structural engineer.

This report does not address portions of the buildings other than those areas mentioned, nor does it provide any warranty either expressed or implied for any portion of the existing buildings.

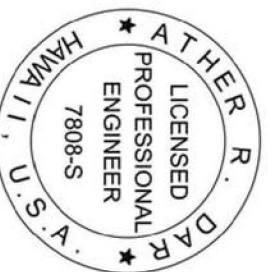
If there are any comments or questions on any items above, please do not hesitate in calling.

Sincerely,

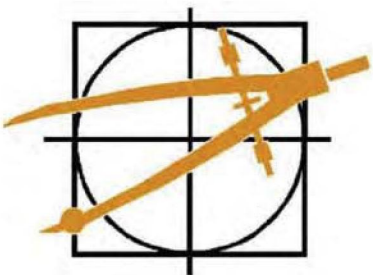
STRUCTURAL CONSULTANT
HAWAII ENGINEERING GROUP, INC.

Ather R. Dar, SE
President

Attachments: Photographic Record



EXP. DATE: 4-30-18



Photographic Record

HEG job #:	17-002
Project name:	Red Hill Tank #17 Center tower and walkway inspection
Site visit date:	April 11, 2017 (Inspection of Center Tower) May 19, 2017 Center Tower mapping August 1, 2017 (Inspection of Entrance Framing)
Photos by:	Ather R. Dar, SE

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Summary

Tower Inspection – April 11, 2017

- 1 bolt is missing in each connection located at elevation 0 of tower leg #2 and leg #3.
- 1 bolt missing in connection located at elevation 60 of tower leg #2.
- 2 bolts have loose nuts in connection located at elevation 60 of tower leg #3
- 1 bolt missing in connection located at elevation 70 of tower leg #2.
- 1 bolt missing in connection located at elevation 110 of tower leg #1.
- 1,2 bolts have loose nuts in connections located at elevation 110 of tower leg 3 &4 respectively.
- 1 bolt missing in connection located at elevation 120 of tower leg #2.
- 1 bolt has loose nut in connection located at elevation 125 of tower leg #3
- An oversize hole at elevation 135 in tower leg #4 needs to be plugged.
- 1 bolt has loose nut in connection located at elevation 160 of tower leg #3
- 2 bolts have loose nuts in connection located at elevation 60 of tower leg #3
- 1 bolt has loose nut in connection located at elevation 180 of tower leg #2
- 1,2,3 bolts are missing in connections located at elevation 190 of tower legs 2,3 &4 respectively.
- 8,8 bolts are missing in connections located at elevation 200 of tower legs 2 &4 respectively.
- 4,4 bolts are missing in connections located at elevation 210 of tower legs 2 &4 respectively.
- 2,1 bolts have loose nuts in connections located at elevation 220 of tower leg 2 &3 respectively.
- 1 bolt missing in connection located at elevation 230 of tower leg #2.
- The horizontal angle at elevation 230 needs repair.

Tower leg member Mapping – May 19, 2017

- Tower leg members are mapped and shown in the report in the form of a table. Member sizes vary along the height.

Entrance Framing Inspection - August 1, 2017

- The anchoring system for the scaffolding to be suspended under the tank entrance should be reviewed and designed by a professional structural engineer
- One of the main beams appears to be bent at full section splice welded joint. Photos 37 & 38.



Photo 1: Spider support at top of Tank #17



Photo 2: Tank #17 - Spider support at top

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Photo 3: Tank #17 base view



Photo 4: Tank #17 base view

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Photo 5: Tank #17 base view



Photo 6: Tank #17 base view

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Photo 7: Tank #17 closeup view of tower leg support



Photo 8: Tank #17 base view

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Photo 9: Tank #17 Base tower leg view



Photo 10: Tank #17 Base tower leg view



Photo 11: Tank #17 framing – Holes need patching with steel plate



Photo 12: Tank #17 framing at walkway platform level

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Photo 13: Tank #17 framing



Photo 14: Tank #17 framing

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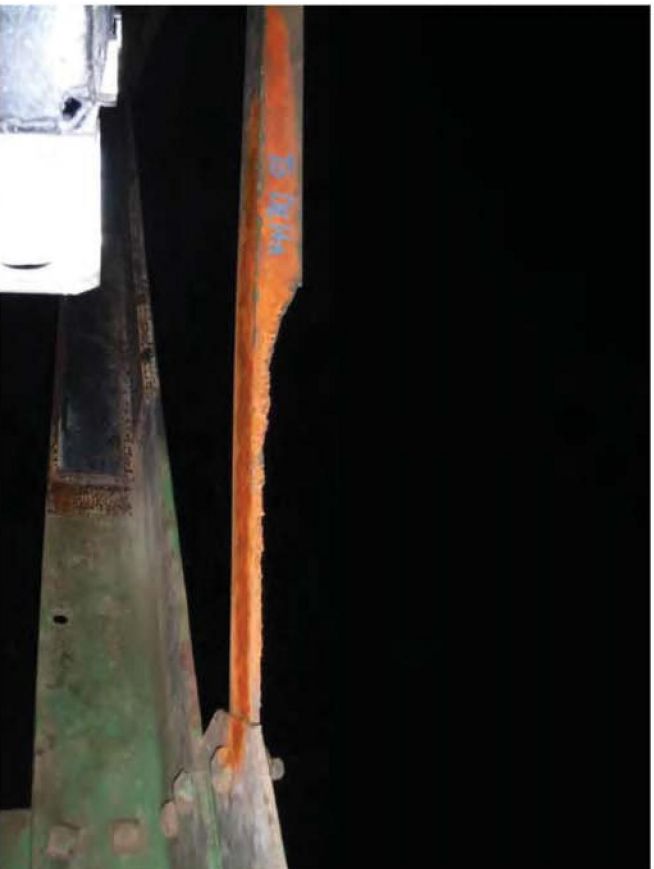


Photo 15: Tank #17 framing – damaged diagonal bracing

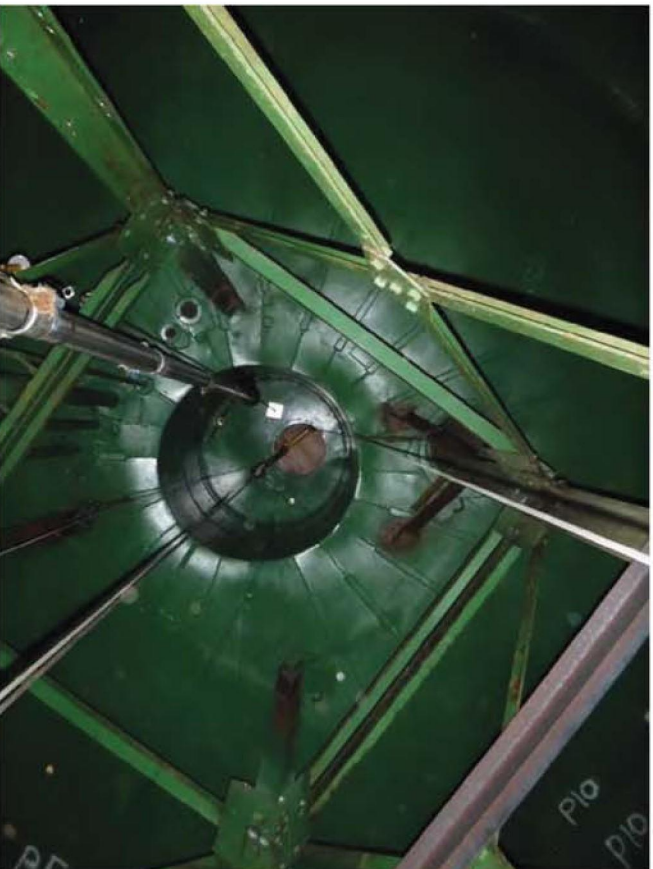


Photo 16: Tank #17 framing – tower connection to tank walls at the top

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Photo 17: Tank #17 framing – tower connection to tank walls at the top



Photo 18: Tank #17 framing – tower connection to tank walls at the top

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Photo 19: Tank #17 framing – tower connection to tank walls at the top



Photo 20: Tank #17 framing – tower connection to tank walls at the top

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Photo 23: Tank #14 framing – entrance framing



Photo 24: Tank #14 framing – entrance framing

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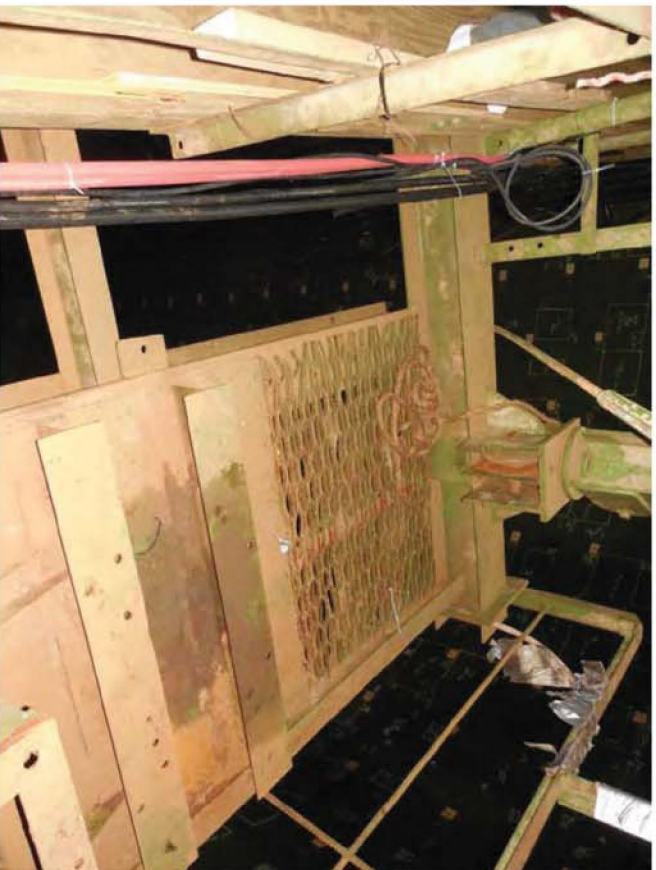


Photo 25: Tank #17 framing – entrance framing



Photo 26: Tank #17 framing – entrance framing

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Photo 27: Tank #17 framing – entrance framing



Photo 28: Tank #17 framing – entrance framing

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Photo 29: Tank #17 framing – entrance framing



Photo 30: Tank #17 framing – entrance framing

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Photo 31: Tank #17 framing – entrance framing

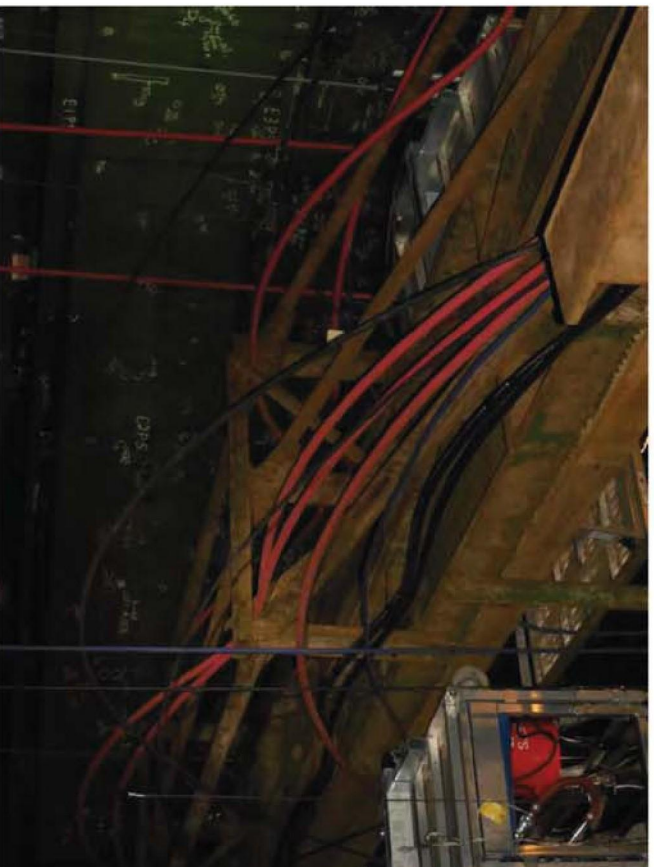


Photo 32: Tank #17 framing – entrance framing

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Photo 33: Tank #17 framing – entrance framing



Photo 34: Tank #17 framing – entrance framing

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Photo 35: Tank #17 framing – entrance framing



Photo 36: Tank #17 framing – entrance framing

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Photo 37: Tank #17 framing – entrance framing



Photo 38: Tank #17 framing – entrance framing

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Photo 39: Tank #17 framing – entrance framing

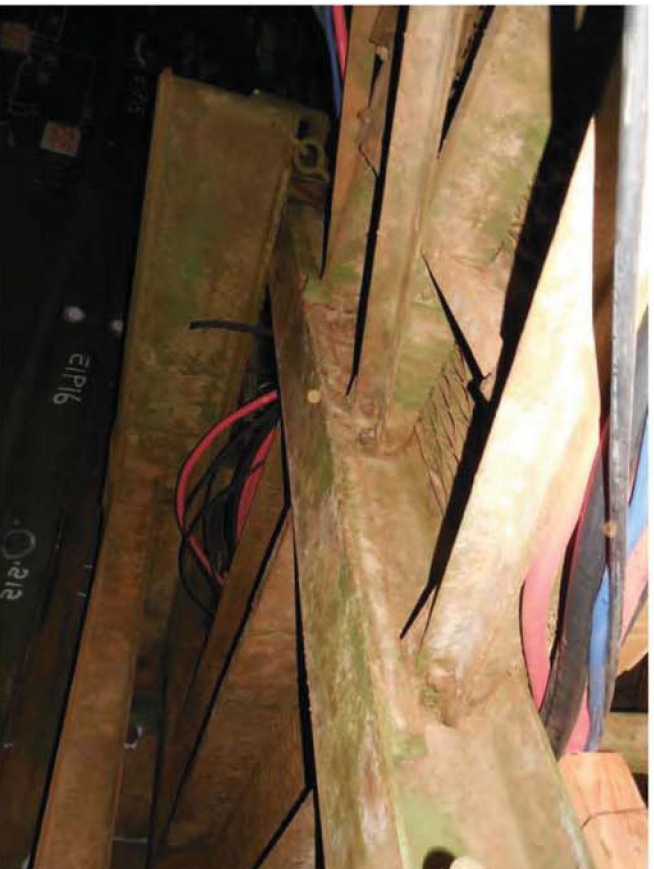


Photo 40: Tank #17 framing – entrance framing

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Photo 41: Tank #17 framing – Walkway framing



Photo 42: Tank #17 framing – Walkway framing

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Photo 43: Tank #17 framing – Walkway framing



Photo 44: Tank #17 framing – Walkway framing

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ATTACHMENT K

PRESSURE TEST REPORT

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JANUARY 2018

HYDROSTATIC (STRENGTH) AND LEAK TESTING RESULTS TANKS 14 AND 17

**Clean Inspect Repair Storage Tanks 14, 17, and 18
Joint Base Pearl Harbor-Hickam, Hawaii**

NAVFAC EXWC Contract No. N39430-15-D-1632

APTIM Federal Services LLC Project No. 500770
Task Order 0005

Revision 0

Submitted by:

APTIM Federal Services LLC
12005 Ford Road, Suite 600
Dallas, Texas 75234



JANUARY 2018

**HYDROSTATIC (STRENGTH) AND TESTING RESULTS
TANKS 14 AND 17
Clean Inspect Repair Storage Tanks 14, 17, and 18
Joint Base Pearl Harbor-Hickam, Hawaii**

NAVFAC EXWC Contract No. N39430-15-D-1632

APTIM Federal Services LLC Project No. 500770
Task Order 0005

Revision 0

Prepared by:



Eric Yatabe
Project Engineer

Date: January 5, 2018

Approved by:



Mark Kravecz
Project Manager

Date: January 5, 2018

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Appendix F	T17 – 16x12 Strength Test Data
Appendix G	Leak Test Results
Appendix H	Pressure Test Setup
Appendix I	Methodology to Remove Air from System

Acronyms and Abbreviations

EEL	Enterprise Engineering, Inc.
NWGLDE	National Work Group on Leak Detection Equipment
psig	pound per square inch gauge
VISTA	Vista Precision Solutions
APTIM	APTIM Federal Services, LLC (Formerly known as CBI Federal Services, LLC)
BOD	Basis of Design
PTP	Pressure Test Plan

1.0 Purpose and Result Summary

1.1 Purpose

The purpose of this report is to provide data and results from the strength and leak testing performed on the tank bottom connections for tanks 14 and 17.

Strength and Leak Tests were performed in accordance with the EEI prepared Appendix A.1 Tank Nozzle Pressure Testing Requirements. Appendix A.1 is found in the Government approved Basis of Design, (Reference 1; hereafter referred to as the BOD). Strength and Leak Tests also complied with the Government approved, PRESSURE TESTING PLAN (Reference 2; Hereafter referred to as the PTP).

EEI approved VISTA in the BOD as one of the qualified third party NWGLDE companies to perform the leak tests.

APTIM performed this work under Task Order 0005, Naval Facilities Engineering and Expeditionary Warfare Center Contract No. N39430-15-D-1632, entitled, "Multiple Award Construction Contract for Petroleum, Oils, and Lubricants Fuel Systems at Various Locations Worldwide."

1.2 Result Summary

Strength and leak tests were performed on the tank 14 and 17 bottom piping connections (pressure test segments) between November 15 and 19, 2017. See Appendix A for the individual pressure test segments.

The APTIM Project Engineer accepted all strength tests as passing. All pressures during strength test met the BOD requirement of 145 minimum test pressure at the high point of the segment. The high point represents the area under the lowest pressure for that segment.

The VISTA on-site team submitted preliminary report stating that all precision leak tests passed. The leak tests were certified as passing at the BOD requirement of 140 psig minimum at the high point of the segment. The final reports from VISTA dated December 18, 2017 for tank 14 and tank 17 confirmed those passing results.

Tank 18 will be taken out of service after tank 17 is returned to service. Once Tank 18 can be entered, the pressure test segments will be identified by the Designer of Record (EER).

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2.0 Strength Testing

2.1 Test Apparatus and Methodology

See Appendix H Pressure Test Setup for schematic of pressure test setup. The testing method was compliant with the Government approved BOD, PTP and Accident Prevention Plan (Reference 3).

2.2 Results

All pressure test segments passed the strength tests. Details follow below and in Appendices.

2.2.1 Tank 14 – 32x20 Segment

The APTM project engineer Eric Yatabe indicated the strength test passed on 11/19/17. See Appendix B for:

- 1) Pressure Chart Recorder,
- 2) Manual Data,
- 3) Reverse Squeeze Results.

The strength test was run at a minimum of 166 psig based on the reading from the calibrated pressure gauge on the pressure injection tree in the lower tunnel. There is approximately an 8' elevation drop from the high point of this pressure segment and the pressure test gage. Thus, the pressure range at the high point of the test segment met the goal of a minimum strength test of 145 psig.

2.2.2 Tank 14 – 18x12 Segment

The APTM project engineer Eric Yatabe indicated the strength test passed on 11/18/17. See Appendix C for:

- 1) Pressure Chart Recorder,
- 2) Manual Data,
- 3) Reverse Squeeze Results.

The strength test was run at a minimum of 164 psig based on the reading from the calibrated pressure gauge on the pressure injection tree in the lower tunnel. There is approximately an 8' elevation drop from the high point of this pressure segment and the pressure test gage. Thus, the pressure range at the high point of the test segment met the goal of a minimum strength test of 145 psig.

2.2.3 Tank 14 - 8x6 Segment

The APTIM project engineer Eric Yatabe indicated the strength test passed on 11/17/17. See Appendix D for:

- 1) Pressure Chart Recorder,
- 2) Manual Data,
- 3) Reverse Squeeze Results.

The strength test was run at a minimum of 150 psig based on the reading from the calibrated pressure gauge on the pressure injection tree in the lower tunnel. There is approximately an 10' elevation drop from the high point of this pressure segment and the pressure test gage. Thus, the pressure range at the high point of the test segment met the goal of a minimum strength test of 145 psig.

2.2.4 Tank 17 - 32x20 Segment

The APTIM project engineer Eric Yatabe indicated the strength test passed on 11/16/17. See Appendix E for:

- 1) Pressure Chart Recorder,
- 2) Manual Data,
- 3) Reverse Squeeze Results.

The strength test was run at a minimum of 160 psig based on the reading from the calibrated pressure gauge on the pressure injection tree in the lower tunnel. There is approximately an 8' elevation drop from the high point of this pressure segment and the pressure test gage. Thus, the pressure range at the high point of the test segment met the goal of a minimum strength test of 145 psig.

2.2.5 Tank 17 - 16x12 Segment

The APTIM project engineer Eric Yatabe indicated the strength test passed on 11/15/17. See Appendix F for:

- 1) Pressure Chart Recorder,
- 2) Manual Data,
- 3) Reverse Squeeze Results.

The strength test was run at a minimum of 149 psig based on the reading from the calibrated pressure gauge on the pressure injection tree in the lower tunnel. There is approximately an 8' elevation drop from the high point of this pressure segment and the pressure test gage. Thus, the

pressure range at the high point of the test segment met the goal of a minimum strength test of 145 psig.

2.3 Air Removal

See Appendix I for the methodology used to remove air from test segments and calculate effectiveness of air removal. The purpose of this Appendix I is for reference on future testing when working with a third party NWGLDE certified company.

3.0 Leak Tests

All pressure test segments passed precision leak tests. See Appendix G Leak Test Results.

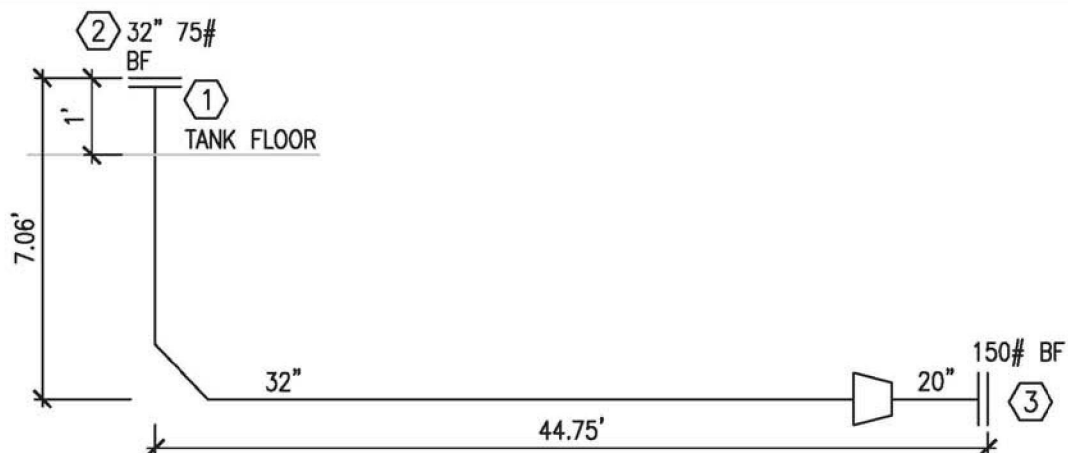
4.0 References

- 1) ENTERPRISE ENGINEERING, INC, 2017, CLEAN INSPECT REPAIR TANKS 4 AND 13 (TO 004); CLEAN INSPECT REPAIR TANKS 14, 17, AND 18 (TO 005), RED HILL UNDERGROUND FUEL STORAGE COMPLEX, JBP HH, HI, DESIGN ANALYSIS – BASIS OF DESIGN, Rev 2.0 Issue – Initial Submission and Government Review 20 April 2017.
- 2) CB&I Federal Services LLC, 2017, Clean Inspect Repair Storage Tanks 14, 17 and 18, Joint Base Pearl Harbor, Hickam, Hawaii.
- 3) CB&I Federal Services LLC, 2017, *Accident Prevention Plan, Clean Inspect Repair Storage Tanks 14, 17 and 18, Joint Base Pearl Harbor-Hickam, Hawaii* Revision 1, February.

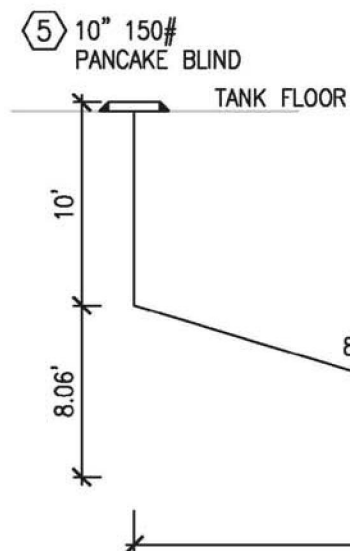
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Appendix A

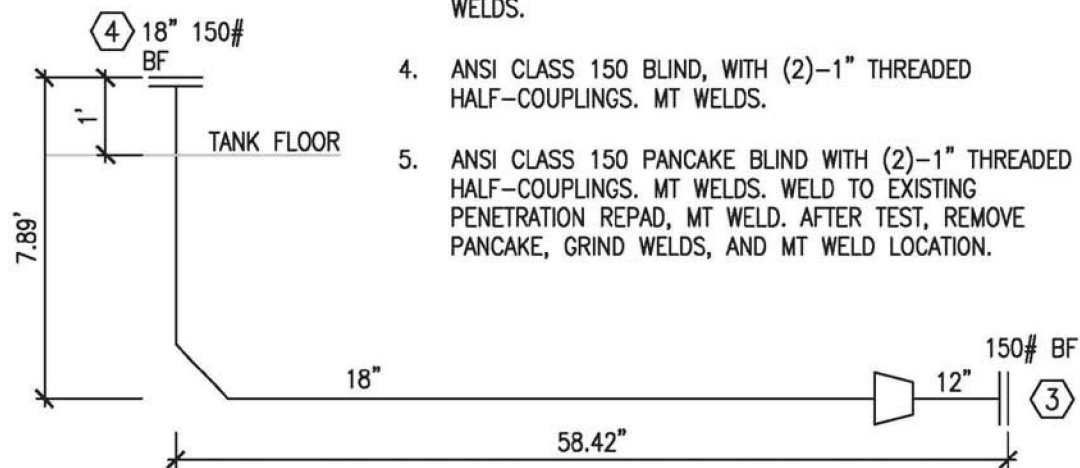
Pressure Test Segments



TANK 14 - TEST SEGMENT A
SCALE: N.T.S.



TANK 14 - TEST SEGMENT C
SCALE: N.T.S.



TANK 14 - TEST SEGMENT B
SCALE: N.T.S.

GENERAL NOTES:

1. ANSI CLASS 75 WNF, WELDED TO EXISTING STUB AFTER CUTTING OFF EXISTING LINE. WELDING GTAW ROOT, SMAW FILL AND CAP (OPTION IS ALL GTAW). NDE SHALL CONSIST OF VT OF ROOT WELD AND MT OF COMPLETED EXPOSED WELDS.
2. ANSI CLASS 75 BLIND FLANGE, WITH (2)-1" THREADED HALF-COUPPLINGS. MT WELDS.
3. ANSI CLASS 150 BLIND, WITH (1)-2" THREADED HALF-COUPPLING AT LOW POINT AND (1)-1" THREADED HALF COUPLING APPROXIMATELY IN CENTER OF BLIND. MT WELDS.
4. ANSI CLASS 150 BLIND, WITH (2)-1" THREADED HALF-COUPPLINGS. MT WELDS.
5. ANSI CLASS 150 PANCAKE BLIND WITH (2)-1" THREADED HALF-COUPPLINGS. MT WELDS. WELD TO EXISTING PENETRATION REPAD, MT WELD. AFTER TEST, REMOVE PANCAKE, GRIND WELDS, AND MT WELD LOCATION.

ALL SCALES ARE INDICATED FOR "A" SIZE DRAWINGS.

SHEET 1

CLEAN INSPECT REPAIR STORAGE TANK 14, 17, AND 18
JOINT BASE PEARL HARBOR-HICKAM, HI
PROJECT 500770

TANK 14 PRESSURE TEST SEGMENTS

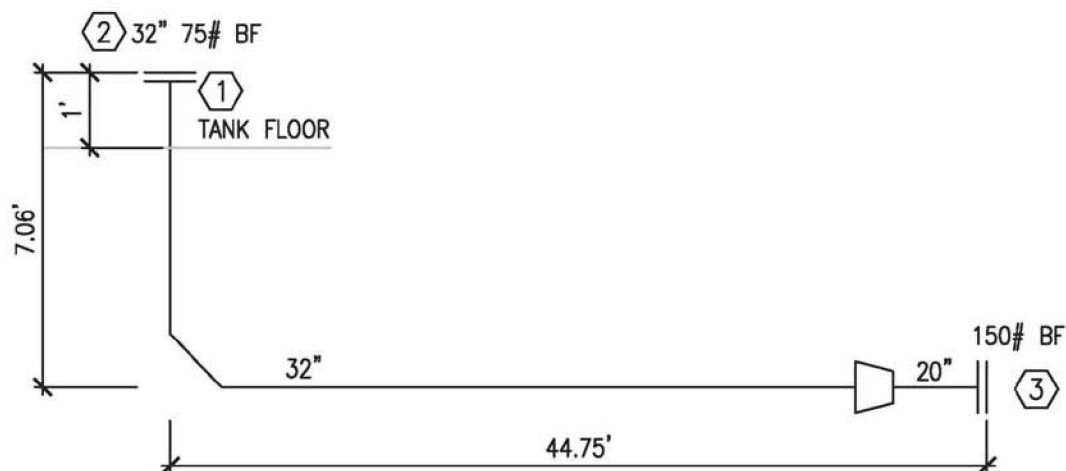


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Reviewed by:	Solicitation No.
Submitted by:	Contract No.
	Delivery Order No.

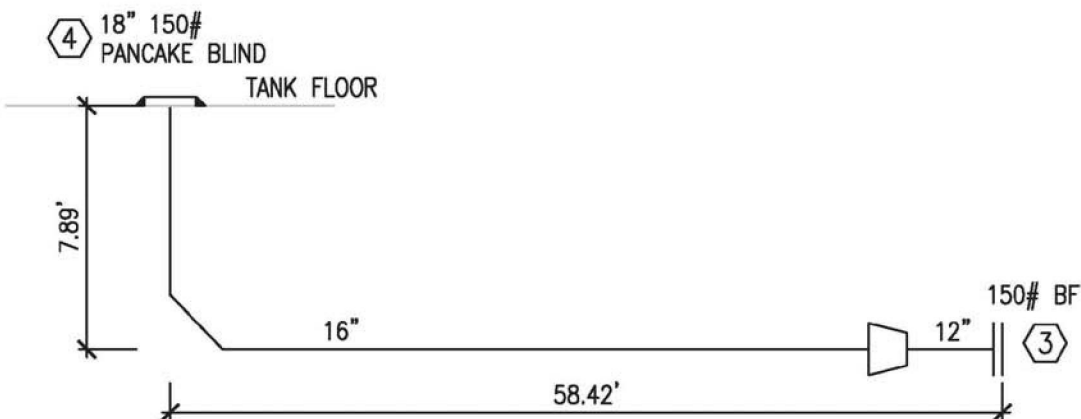
REVISION SCHEDULE		
Rev #	Description	Date

GENERAL NOTES:

1. ANSI CLASS 75 WNF, WELDED TO EXISTING STUB AFTER CUTTING OFF EXISTING LINE. WELDING GTAW ROOT, SMAW FILL AND CAP (OPTION IS ALL GTAW). NDE SHALL CONSIST OF VT OF ROOT WELD AND MT OF COMPLETED EXPOSED WELDS.
2. ANSI CLASS 75 BLIND FLANGE, WITH (2)-1" THREADED HALF-COUPINGS. MT WELDS.
3. ANSI CLASS 150 BLIND, WITH (1)-2" THREADED HALF-COUPLING AT LOW POINT AND (1)-1" THREADED HALF COUPLING APPROXIMATELY IN CENTER OF BLIND. MT WELDS.
4. ANSI CLASS 150 PANCAKE BLIND WITH (2)-1" THREADED HALF-COUPINGS. MT WELDS. WELD TO EXISTING PENETRATION REPAD, MT WELD. AFTER TEST, REMOVE PANCAKE, GRIND WELDS, AND MT WELD LOCATION.



TANK 17 - TEST SEGMENT A
SCALE: N.T.S.



TANK 17 - TEST SEGMENT B
SCALE: N.T.S.

ALL SCALES ARE INDICATED FOR "A" SIZE DRAWINGS.

SHEET 2

CLEAN INSPECT REPAIR STORAGE TANK 14, 17, AND 18
JOINT BASE PEARL HARBOR-HICKAM, HI
PROJECT 500770

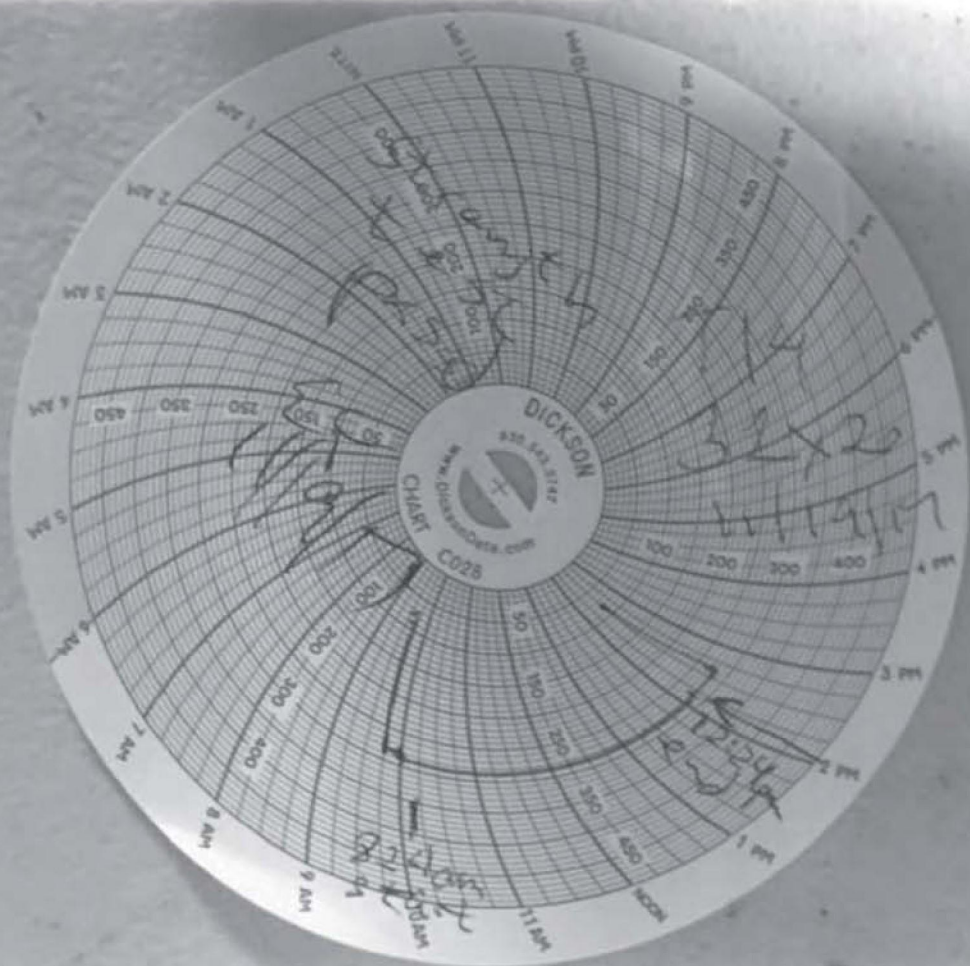
TANK 17 PRESSURE TEST SEGMENTS



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Rev #	Description	Date

Appendix B
T14 - 32x20 Strength Test Data



C028

Pressure Testing Calculations for Tank 14 - Segment A

		Exposed	Exposed	Total	Notes
weighted percent by volume		96.12%	3.88%		
inside pipe diameter, inches	d =	31.250	19.250		
wall thickness, inches	t =	0.375	0.375		
pipe length, ft	L =	47.0	5.0	52.0	linear feet
volume, gal (based on dimensions)	V =	1,872.6	75.6	1,948.2	gallons
Young's modulus	E =	3.00E+07	3.00E+07		for carbon steel
liquid bulk modulus	Beta =	3.225E+05	3.225E+05		for water at 77°F, 150 psig
compressibility (1/Beta)	C =	3.10E-06	3.10E-06		
	Kp =	5.80E-06	4.79E-06	1.06E-05	(non-weighted value)
Poisson's ratio	v =	0.3	0.3		for carbon steel
find Kt, where Kt = 3a-g					
linear coeff of thermal expansion	a =	6.50E-06	6.50E-06		
liquid volume expansion coeff.	g =	1.20E-04	1.20E-04		
	Kt =	-1.01E-04	-1.01E-04		
from pressure testing data table:	dP =	50.0	50.0		
	dT =	0.00	0.00		
	VKpdP =	0.54	0.02	0.56	gallons
	VKtdT =	0.00	0.00	0.00	gallons
	dV =	0.54	0.02	0.56	gallons
theoretical loss during test	dV =	69.5	2.3	71.9	ounces
theoretical dV/dP for test segment =	dV/dP =	1.09E-02	3.62E-04	1.123E-02	packing ratio
gallons added/subtracted =			0.0		
Unaccounted loss during test =			0.6		gallons
Percentage to total volume			0.0288%		percent

References:

The theoretical DV/DP for aboveground (unrestrained) pipe is calculated through the following equation:

$$\frac{DV}{DP} = V^* \left[\left(\frac{D}{E \cdot t} \right) \left(\frac{5}{4} - v \right) + C \right]$$

The theoretical DV/DP for buried (restrained) pipe is calculated through the following equation:

$$\frac{DV}{DP} = V^* \left[\left(\frac{D}{E \cdot t} \right) (1 - v^2) + C \right]$$

where,

V = volume of the segment for the individual pipe diameter, D (gallons),
D = outside diameter of pipe (in),
E = elastic modulus of steel pipe (psi),
t = wall thickness of pipe (in),
v = poisson's ratio of steel pipe,
C = compressibility of test media (in³/in³ psi).

CSFM Standardized formula for performing pressure – temperature calculations to determine volume change.

Basic Formula: $\Delta V / V = Kp \Delta P + Kt \Delta T$

Where: $Kp = [(D/t)(5/4 - \mu)/E] + 1/\beta = (1.9 D / 2 E t) + 1/\beta$

And: $Kt = 3a - g$

- ΔP = Liquid Pressure Change
- ΔT = Liquid Temperature Change
- ΔV = Liquid Volume added to that inside the pipe (negative if flows out)
- V = Nominal Pipe Volume = $\pi D^2 L / 4$
- D = Inside Pipe Diameter
- L = Pipe Length
- t = Pipe wall thickness
- μ = Poisson's ratio = 0.3
- E = Young's Modulus = 30×10^6 psi
- β = Liquid Bulk Modulus, a function of Pressure and Temperature
- g = Liquid Volumetric expansion coefficient, a function of Pressure and Temperature
- a = Linear coefficient of Thermal Expansion = $6.5 \times 10^{-6} 1/^\circ F$

11/18/2017 1950 actual gallons
18-Nov bled air
18-Nov Pressured to 160 psig.

11/18/17 2175.62415 ml theoretical for 50 psig differential
11/18/17 2180 ml actual taken out for 162 to 112 ml drop ... air removed!
2 drip minute leak in 32" flange can't be fixed, but don't expect it to affect leak test negatively

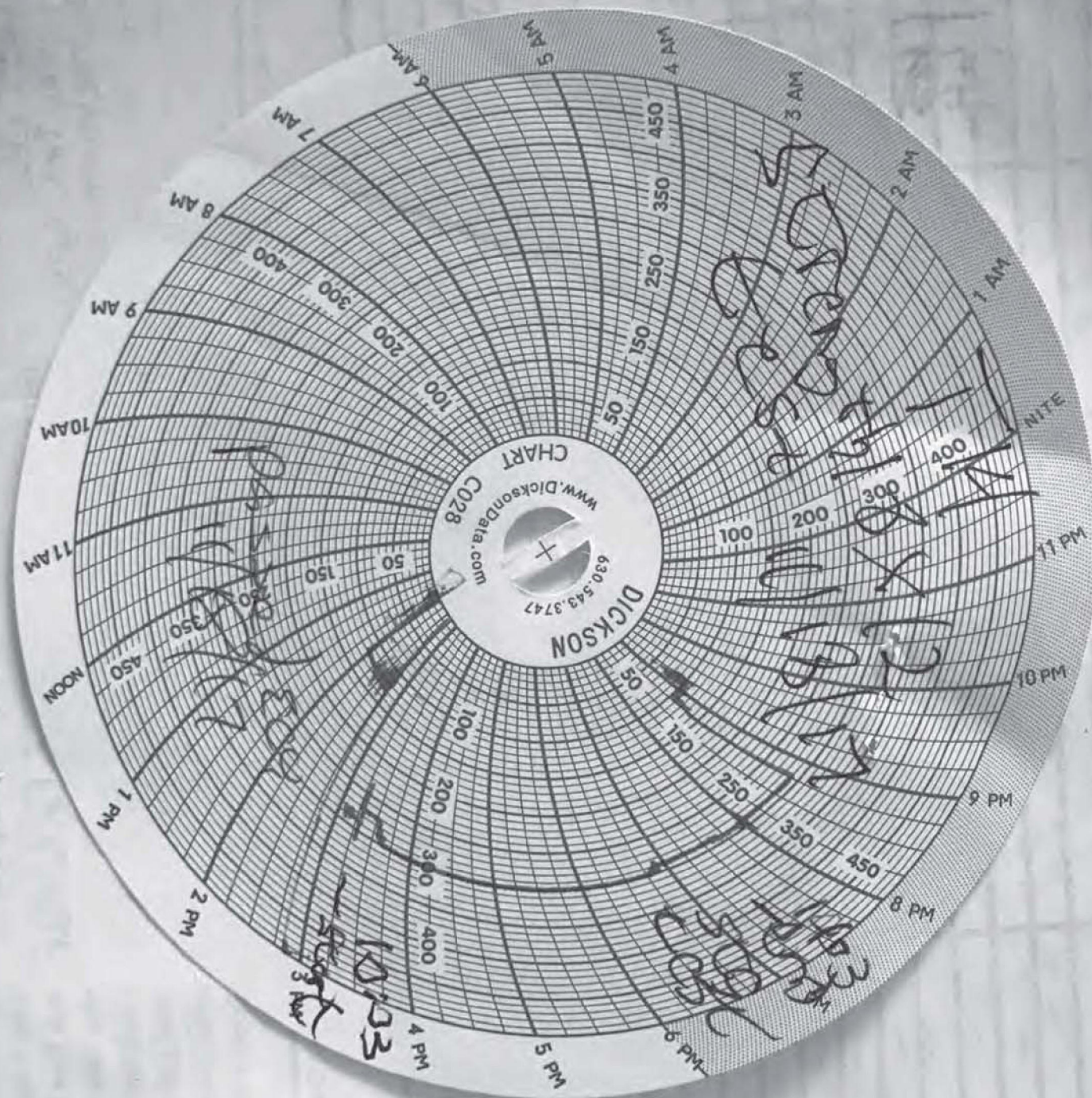


32"



20"

Appendix C
T14 – 18x12 Strength Test Data



Pressure Testing Calculations for Tank 14 - Segment B

		Exposed	Exposed	Total	Notes
weighted percent by volume		96.33%	3.67%		
inside pipe diameter, inches	d =	17.250	12.000		Standard
wall thickness, inches	t =	0.375	0.375		
pipe length, ft	L =	63.5	5.0	68.5	linear feet
volume, gal (based on dimensions)	V =	770.9	29.4	800.3	gallons
Young's modulus	E =	3.00E+07	3.00E+07		for carbon steel
liquid bulk modulus	Beta =	3.225E+05	3.225E+05		for water at 77°F, 150 psig
compressibility (1/Beta)	C =	3.10E-06	3.10E-06		
	Kp =	4.62E-06	4.18E-06	8.80E-06	(non-weighted value)
Poisson's ratio	v =	0.3	0.3		for carbon steel
find Kt, where Kt = 3a-g					
linear coeff of thermal expansion	a =	6.50E-06	6.50E-06		
liquid volume expansion coeff.	g =	1.20E-04	1.20E-04		
	Kt =	-1.01E-04	-1.01E-04		
from pressure testing data table:	dP =	50.0	50.0		
	dT =	0.00	0.00		
	VKpdP =	0.18	0.01	0.18	gallons
	VKtdT =	0.00	0.00	0.00	gallons
	dV =	0.18	0.01	0.18	gallons
theoretical loss during test	dV =	22.8	0.8	23.6	ounces
theoretical dV/dP for test segment =	dV/dP =	3.56E-03	1.23E-04	3.685E-03	packing ratio
gallons added/subtracted =			0.0		
Unaccounted loss during test =			0.2		gallons
Percentage to total volume			0.0230%		percent

References:

The theoretical DV/DP for aboveground (unrestrained) pipe is calculated through the following equation:

$$\frac{DV}{DP} = V * \left[\left(\frac{D}{E * t} \right) \left(\frac{5}{4} - v \right) + C \right]$$

The theoretical DV/DP for buried (restrained) pipe is calculated through the following equation:

$$\frac{DV}{DP} = V * \left[\left(\frac{D}{E * t} \right) (1 - v^2) + C \right]$$

where,

V = volume of the segment for the individual pipe diameter, D (gallons).
D = outside diameter of pipe (in).
E = elastic modulus of steel pipe (psi).
t = wall thickness of pipe (in).
v = poisson's ratio of steel pipe.
C = compressibility of test media (in³/in³/psi).

CSFM Standardized formula for performing pressure – temperature calculations to determine volume change.

Basic Formula: $\Delta V / V = Kp \Delta P + Kt \Delta T$

Where: $Kp = [(D / t) (5 / 4 - \mu) / E] + 1 / \beta = (1.9 D / 2 E t) + 1 / \beta$

And: $Kt = 3a - g$

ΔP = Liquid Pressure Change
 ΔT = Liquid Temperature Change
 ΔV = Liquid Volume added to that inside the pipe (negative if flows out)
V = Nominal Pipe Volume = $\pi D^2 L / 4$
D = Inside Pipe Diameter
L = Pipe Length
t = Pipe wall thickness
 μ = Poisson's ratio = 0.3
E = Young's Modulus = $30 * 10^6$ psi
 β = Liquid Bulk Modulus, a function of Pressure and Temperature
g = Liquid Volumetric expansion coefficient, a function of Pressure and Temperature
a = Linear coefficient of Thermal Expansion = $6.5 * 10^{-6} 1/^{\circ}F$

volume installed on 11/16/17 800 gallons

50 psig drop = 697.3798109 ml

11/18/17 1800 ml actual drop for 118 psig drop vs. theoretical of 1644 ml; considered to be as much air as practicable taken out.

Underground Pressure Test Data Sheet

Project Name/No.: 500770

Date of Test: 11/18/2017

Test PKG

Personnel: Eric Yatabe
Jaymes Barlos
Wayne Tili
Shayne Tector
Roger Makanani

Pipe Section Name: T14 - 18x12

Customer: NEXWC

Test Medium: Potable Water

Test Pressure, psig: 154

Inner Wall Temperature

Min Test Pressure, psi: 149

(Before Adding Test

Max Test Pressure, psi: 159

Medium, degrees F) 80.5

Pump DH: 160

total gallons of

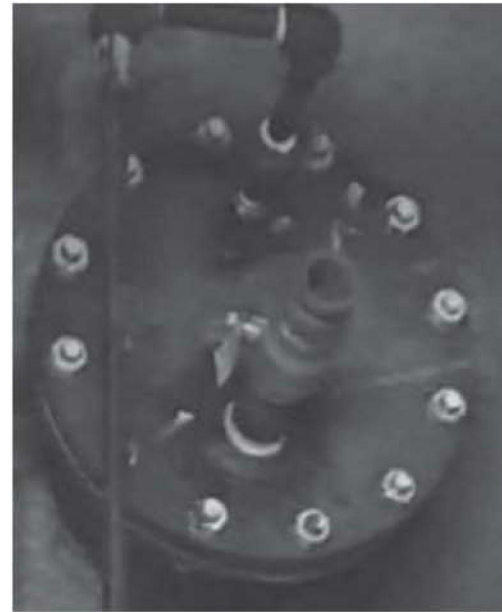
water installed

in segment to fill: 800

Time (Military Time)	Gauge Pressure psig	Inner Blind or Blind Flange, Temp F	Ambient Temp Temp, F	Volume Added Gallons	Volume Subtracted Gallons	Notes
1003	170	79.1	80.2	-	-	Start Strength Test
1018	170	78.9	80	-	-	
1033	170	78.9	78.8	-	-	
1048	170	79.4	78.8	-	-	
1103	170	79.5	78.8	-	-	
1118	170	79.5	79.5	-	-	
1133	170	79.5	78.6	-	-	
1148	168	79.5	77	-	-	
1203	168	79.6	78.4	-	-	
1218	168	79.5	78.4	-	-	
1233	168	79.5	80.5	-	-	
1248	168	79.5	79.8	-	-	
1303	166	79.5	80.4	-	-	
1318	166	79.5	80.3	-	-	
1333	165	79.5	80.3	-	-	
1348	164	79.5	80.7	-	-	
1403	164	79.5	80	-	-	End Strength Test
						Passed Per ECY
Notes:						
1) (2) ~1 drip/min leaks on 19" - 150# BF thru duration of test						
2) 3/4" gate valve on P						



18" before blind; Blind was on top
of the flanged spool for test



12"

Appendix D
T14 – 8x6 Strength Test Data

Pressure Testing Calculations for Tank 14 - Segment C

		Exposed	Exposed	Total	Notes
weighted percent by volume		94.48%	5.52%		
inside pipe diameter, inches	d =	7.981	6.625		Standard
wall thickness, inches	t =	0.322	0.28		
pipe length, ft	L =	59.0	5	64.0	linear feet
volume, gal (based on dimensions)	V =	153.3	9.0	162.3	gallons
Young's modulus	E =	3.00E+07	3.00E+07		for carbon steel
liquid bulk modulus	Beta =	3.225E+05	3.225E+05		for water at 77°F, 150 psig
compressibility (1/Beta)	C =	3.10E-06	3.10E-06		
	Kp =	3.95E-06	3.91E-06	7.86E-06	(non-weighted value)
Poisson's ratio	v =	0.3	0.3		for carbon steel
find Kt, where Kt = 3a - g					
linear coeff of thermal expansion	a =	6.50E-06	6.50E-06		
liquid volume expansion coeff.	g =	1.20E-04	1.20E-04		
	Kt =	-1.01E-04	-1.01E-04		
from pressure testing data table:	dP =	50.0	50.0		
	dT =	0.00	0.00		
	VKpdP =	0.03	0.00	0.03	gallons
	VKtdT =	0.00	0.00	0.00	gallons
	dV =	0.03	0.00	0.03	gallons
theoretical loss during test	dV =	3.9	0.2	4.1	ounces
theoretical dV/dP for test segment =	dV/dP =	6.05E-04	3.50E-05	6.405E-04	packing ratio
gallons added/subtracted =		0.0			
Unaccounted loss during test =		0.0 gallons			
Percentage to total volume		0.0197% percent			

References:

The theoretical DV/DP for aboveground (unrestrained) pipe is calculated through the following equation:

$$\frac{DV}{DP} = V' * \left[\left(\frac{D}{E * t} \right) \left(\frac{5}{4} - v \right) + C \right]$$

The theoretical DV/DP for buried (restrained) pipe is calculated through the following equation:

$$\frac{DV}{DP} = V' * \left[\left(\frac{D}{E * t} \right) (1 - v^2) + C \right]$$

where,

V = volume of the segment for the individual pipe diameter, D (gallons),
D = outside diameter of pipe (in),
E = elastic modulus of steel pipe (psi),
t = wall thickness of pipe (in),
v = poisson's ratio of steel pipe,
C = compressibility of test media (in³/in³/psi).

CSFM Standardized formula for performing pressure - temperature calculations to determine volume change.

Basic Formula: $\Delta V / V = Kp \Delta P + Kt \Delta T$

Where: $Kp = [(D / t) \{ 5 / 4 - \mu \} / E] + 1 / \beta = (1.9 D / 2 E t) + 1 / \beta$

And: $Kt = 3a - g$

ΔP = Liquid Pressure Change
 ΔT = Liquid Temperature Change
 ΔV = Liquid Volume added to that inside the pipe (negative if flows out)
V = Nominal Pipe Volume = $\pi D^2 L / 4$
D = Inside Pipe Diameter
L = Pipe Length
t = Pipe wall thickness
 μ = Poisson's ratio = 0.3
E = Young's Modulus = $30 * 10^6$ psi
 β = Liquid Bulk Modulus, a function of Pressure and Temperature
g = Liquid Volumetric expansion coefficient, a function of Pressure and Temperature
a = Linear coefficient of Thermal Expansion = $6.5 * 10^{-6} / ^\circ F$

volume installed on 11/16/17 162 gallons

theoretical; 50 psig drop for 16	121.2209496 ml
23 psid for 75 ml actual vs. 56 theoretical still has air and decided it was best we could bleed.	

Underground Pressure Test Data Sheet

Project Name/No.: 500770

Personnel: Eric Yatabe

Jaymes Barlos

Todd Lelepali

Tom Gehring

Date of Test: 11/17/2017

Pipe Section Name: 8x6

T14

Test Medium: Potable Water

Inner Wall Temperature

(Before Adding Test

Medium, degrees F) 79.5

Test PKG

Customer: NEXWC

Test Pressure, psig: 154

Min Test Pressure, psi: 149

Max Test Pressure, psi: 159

Pump DH: 160

total gallons of

water installed

in segment to fill: 162

Time (Military Time)	Gauge Pressure psig	Inner Blind or Blind Flange, Temp F	Ambient Temp Temp, F	Volume Added Gallons	Volume Subtracted Gallons	Notes
1129	165	79.1	81.3	-	-	Start Strength Test
1144	164	79.3	81.8	-	-	
1159	164	79.3	81.3	-	-	
1214	163	79.3	83.3	-	-	
1229	162	79.5	82.5	-	-	
1244	161	79.8	83.1	-	-	
1259	160	79.9	82.9	-	-	
1314	159	79.9	82.2	-	-	
1329	158	79.9	84.3	-	-	
1344	157	79.9	83.1	-	-	
1359	156	80	81.1	-	-	
1414	155	80	80.7	-	-	
1429	153	79.9	79.8	-	-	
1444	152	80	80	-	-	
1459	151	81	80	-	-	
1514	151	79.9	80	-	-	
1529	150	80	80	-	-	End Strength Test
						Passed Per ECY
reverse squeeze 23 psid for 75 ml vs 55 ml theoretical (Couldn't remove more air)						

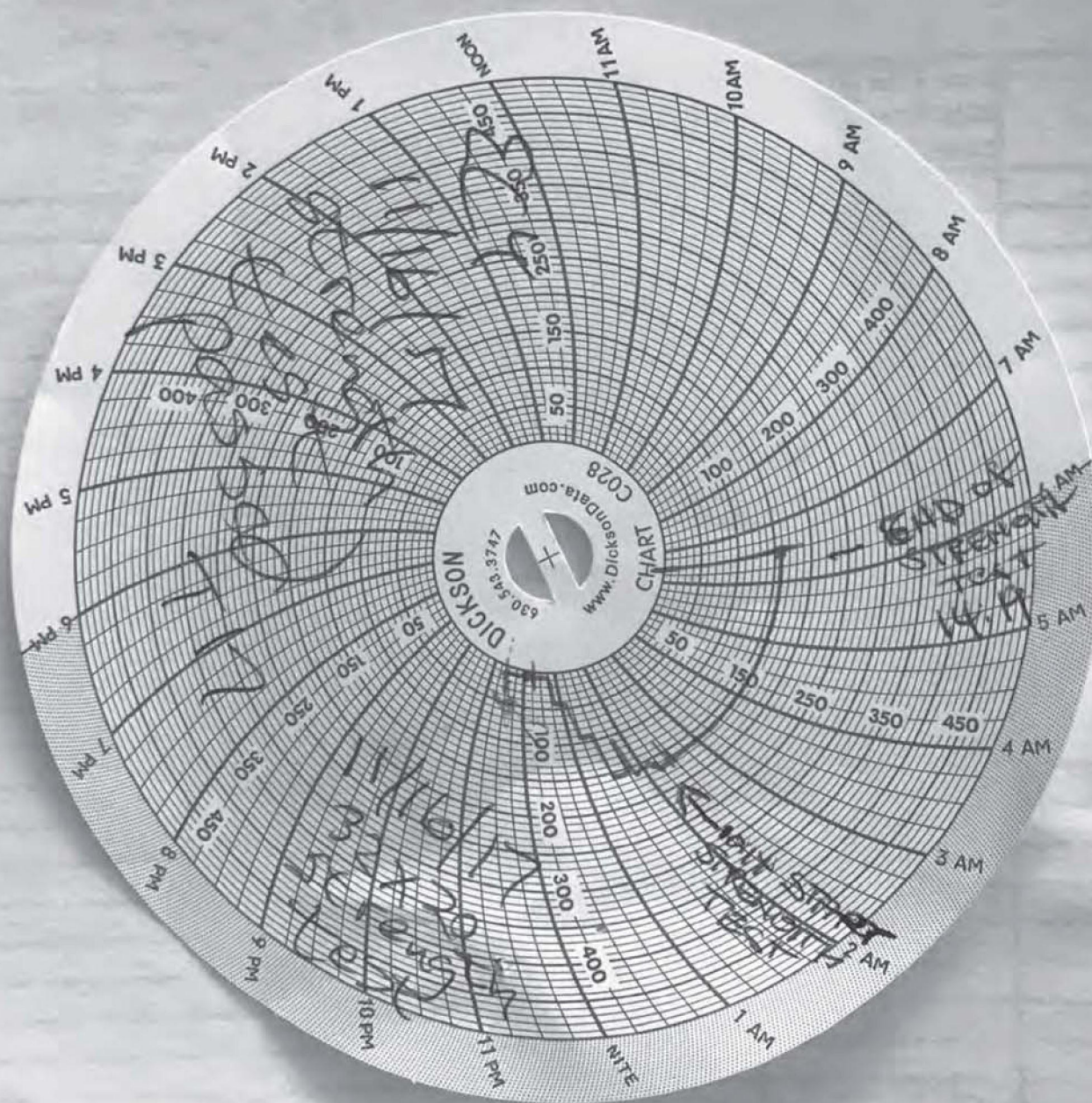


8"



6"

Appendix E
T17 – 32x20 Strength Test Data



Pressure Testing Calculations for Tank 17 - Segment A

		Exposed	Exposed	Total	Notes
weighted percent by volume		96.03%	3.97%		
inside pipe diameter, inches	d =	31.250	19.250		
wall thickness, inches	t =	0.375	0.375		
pipe length, ft	L =	45.9	5.0	50.9	linear feet
volume, gal (based on dimensions)	V =	1,828.8	75.6	1,904.4	gallons
Young's modulus	E =	3.00E+07	3.00E+07		for carbon steel
liquid bulk modulus	Beta =	3.225E+05	3.225E+05		for water at 77°F, 150 psig
compressibility (1/Beta)	C =	3.10E-06	3.10E-06		
	Kp =	5.80E-06	4.79E-06	1.06E-05	(non-weighted value)
Poisson's ratio	v =	0.3	0.3		for carbon steel
find Kt, where Kt = 3a - g					
linear coeff of thermal expansion	a =	6.50E-06	6.50E-06		
liquid volume expansion coeff.	g =	1.20E-04	1.20E-04		
	Kt =	-1.01E-04	-1.01E-04		
from pressure testing data table:	dP =	50.0	50.0		
	dT =	0.00	0.00		
	VKpdP =	0.53	0.02	0.55	gallons
	VKtdT =	0.00	0.00	0.00	gallons
	dV =	0.53	0.02	0.55	gallons
theoretical loss during test	dV =	67.9	2.3	70.2	ounces
theoretical dV/dP for test segment =	dV/dP =	1.06E-02	3.62E-04	1.097E-02	packing ratio
gallons added/subtracted =		0.0			
Unaccounted loss during test =		0.5 gallons			
Percentage to total volume		0.0288% percent			

References:

The theoretical DV/DP for aboveground (unrestrained) pipe is calculated through the following equation:

$$\frac{DV}{DP} = V * \left[\left(\frac{D}{E * t} \right) \left(\frac{5}{4} - v \right) + C \right]$$

The theoretical DV/DP for buried (restrained) pipe is calculated through the following equation:

$$\frac{DV}{DP} = V * \left[\left(\frac{D}{E * t} \right) (1 - v^2) + C \right]$$

where:

V = volume of the segment for the individual pipe diameter, D (gallons).
D = outside diameter of pipe (in).
E = elastic modulus of steel pipe (psi).
t = wall thickness of pipe (in).
v = poisson's ratio of steel pipe.
C = compressibility of test media (in³/in³/psi).

CSFM Standardized formula for performing pressure - temperature calculations to determine volume change.

Basic Formula: $\Delta V / V = Kp \Delta P + Kt \Delta T$

Where: $Kp = [(D / t) (5 / 4 - v) / E] + 1 / \beta = (1.9 D / 2 E t) + 1 / \beta$

And: $Kt = 3a - g$

ΔP = Liquid Pressure Change
 ΔT = Liquid Temperature Change
 ΔV = Liquid Volume added to that inside the pipe (negative if flows out)
V = Nominal Pipe Volume = $\pi D^2 L / 4$
D = Inside Pipe Diameter
L = Pipe Length
t = Pipe wall thickness
v = Poisson's ratio = 0.3
E = Young's Modulus = $30 * 10^6$ psi
 β = Liquid Bulk Modulus, a function of Pressure and Temperature
g = Liquid Volumetric expansion coefficient, a function of Pressure and Temperature
a = Linear coefficient of Thermal Expansion = $6.5 * 10^{-6}$ 1/°F

2077.18049 ml for 50 psig drop

Reverse squeeze: actual 2200 ml for 50 psig drop vs. theoretical of 2077 ml

Note: There was a total leak of 30 ml for entire strength test caught from 2" valve in lower tunnel. This wouldn't come close to 1 psig and wasnot considered significant

Underground Pressure Test Data Sheet

Project Name/No.: 500770

Personnel: Eric Yatabe
Jaymes Barlos
Todd Lelepali
Leroy Cassidey
Roger Mekanani
Fernando Flores
Brian Humann
Dean Bell

Date of Test: 11/16/2017

Pipe Section Name: 32x20

T17

Test Medium: Potable Water

Inner Wall Temperature
(Before Adding Test
Medium, degrees F) 80.5

Test PKG

Customer: NEXWC

Test Pressure, psig: 149 to 159

Min Test Pressure, psi 149

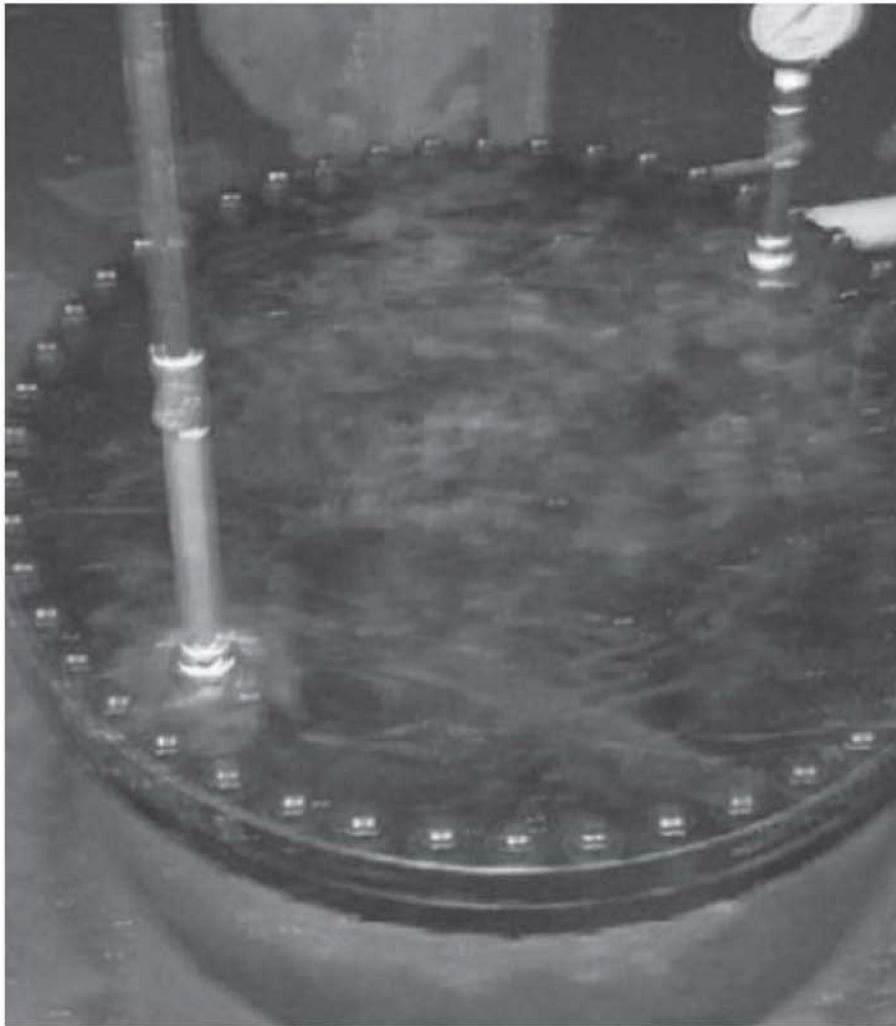
Max Test Pressure, psi 159

Pump DH: 160

total gallons of
water installed

in segment to fill: 1904

Time (Military Time)*	Gauge Pressure psig	Inner Blind or Blind Flange, Temp F	Ambient Temp Temp, F	Volume Added Gallons	Volume Subtracted Gallons	Notes
849	50	79.9		-	-	Pressurizing Up
904	49			-	-	1 leak on 2" B/V **
905	100			-	-	2" B/V 4 Drip/min **
921	99			-	-	
922	160			-	-	2" B/V 10 Drip/min **
936	158			-	-	Reverse squeeze no air is 2077 ml for 50 psig drop
1005						Fixed leaking relief by closing flow to it. 1600 ml for ΔP=50
1014	165	79.5	81.6	-	-	Start Strength Test
1029	164	79.5	81.5	-	-	
1044	164	79.5	80.9	-	-	
1059	164	-	82	-	-	
1114	163	78.7	82.4	-	-	
1129	163	-	82.4	-	-	
1144	163	79.6	82.4	-	-	
1159	163	79.6	82.4	-	-	
1214	162	79.6	83.1	-	-	
1229	161	80.5	82.2	-	-	
1244	161	79.9	82	-	-	
1259	160	80.5	82.5	-	-	
1314	160	79.9	82.7	-	-	
1329	160	79.7	83.1	-	-	
134	160	79.8	82.5	-	-	
1359	160	-	82.5	-	-	
1414	160	79.5	82.7	-	-	End Strength Test
						Passed Per ECY
* Time is offset on omega computer: Actual - 1422, Computer - 1432						
** Drips from known leak being caught from 2" B/V on 20" Flange will measure at end = 30 ml @ end of test.						

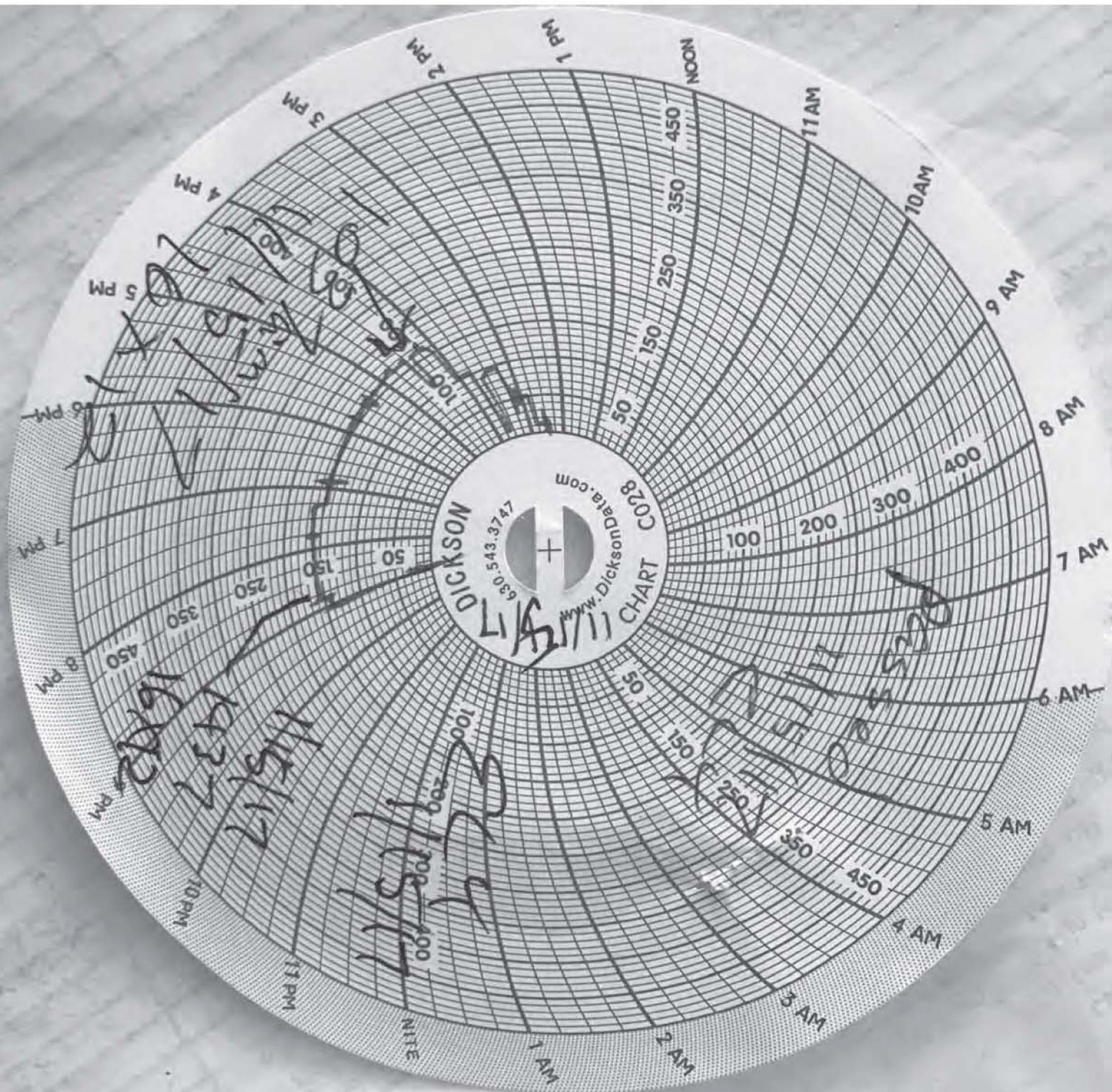


32"



20"

Appendix F
T17 – 16x12 Strength Test Data



Pressure Testing Calculations for Tank 17 - Segment B

		Exposed	Exposed	Total	Notes
weighted percent by volume		93.40%	6.60%		
inside pipe diameter, inches	d =	15.250	12.000		
wall thickness, inches	t =	0.375	0.375		
pipe length, ft	L =	61.3	7	68.3	linear feet
volume, gal (based on dimensions)	V =	581.6	41.1	622.8	gallons
Young's modulus	E =	3.00E+07	3.00E+07		for carbon steel
liquid bulk modulus	Beta =	3.225E+05	3.225E+05		for water at 77°F, 150 psig
compressibility (1/Beta)	C =	3.10E-06	3.10E-06		
	Kp =	4.45E-06	4.18E-06	8.63E-06	(non-weighted value)
Poisson's ratio	v =	0.3	0.3		for carbon steel
find Kt, where Kt = 3a - g					
linear coeff of thermal expansion	a =	6.50E-06	6.50E-06		
liquid volume expansion coeff.	g =	1.20E-04	1.20E-04		
	Kt =	-1.01E-04	-1.01E-04		
from pressure testing data table:	dP =	45.5	45.5		
	dT =	0.00	0.00		
	VKpdP =	0.12	0.01	0.13	gallons
	VKtdT =	0.00	0.00	0.00	gallons
	dV =	0.12	0.01	0.13	gallons
theoretical loss during test	dV =	15.1	1.0	16.1	ounces
theoretical dV/dP for test segment =	dV/dP =	2.59E-03	1.72E-04	2.761E-03	packing ratio
gallons added/subtracted =			0.0		
Unaccounted loss during test =					
Percentage to total volume					

Conclusion
0.1 gallons
0.0202% percent

References:

The theoretical DV/DP for aboveground (unrestrained) pipe is calculated through the following equation:

$$\frac{DV}{DP} = V' * \left[\left(\frac{D}{E * t} \right) \left(\frac{5}{4} - v \right) + C \right]$$

The theoretical DV/DP for buried (restrained) pipe is calculated through the following equation:

$$\frac{DV}{DP} = V' * \left[\left(\frac{D}{E * t} \right) (1 - v^2) + C \right]$$

where,

V = volume of the segment for the individual pipe diameter, D (gallons),
D = outside diameter of pipe (in),
E = elastic modulus of steel pipe (psi),
t = wall thickness of pipe (in),
v = poisson's ratio of steel pipe,
C = compressibility of test media (in³/in³/psi).

CSFM Standardized formula for performing pressure – temperature calculations to determine volume change.

Basic Formula: $\Delta V / V = Kp\Delta P + Kt\Delta T$

Where: $Kp = [(D / t) \{ 5 / 4 - \mu \} / E] + 1 / \beta = (1.9 D / 2 E t) + 1 / \beta$

And: $Kt = 3a - g$

ΔP = Liquid Pressure Change
 ΔT = Liquid Temperature Change
 ΔV = Liquid Volume added to that inside the pipe (negative if flows out)
V = Nominal Pipe Volume = $\pi D^2 L / 4$
D = Inside Pipe Diameter
L = Pipe Length
t = Pipe wall thickness
 μ = Poisson's ratio = 0.3
E = Young's Modulus = $30 * 10^6$ psi
 β = Liquid Bulk Modulus, a function of Pressure and Temperature
g = Liquid Volumetric expansion coefficient, a function of Pressure and Temperature
a = Linear coefficient of Thermal Expansion = $6.5 * 10^{-6} / ^\circ F$

oz = ml	1 oz	28 ml
gal = ml	1 gal	3785.41 ml

Reverse Squeeze: actual water removed was 540 ml for 45.5 psig drop vs. theoretical of 475 ml

Underground Pressure Test Data Sheet

Project Name/No.:
Red Hill CIR Tanks 14, 17/Task Order 005

Date of Test: 11/15/2017
Pipe Section Name: 16x12

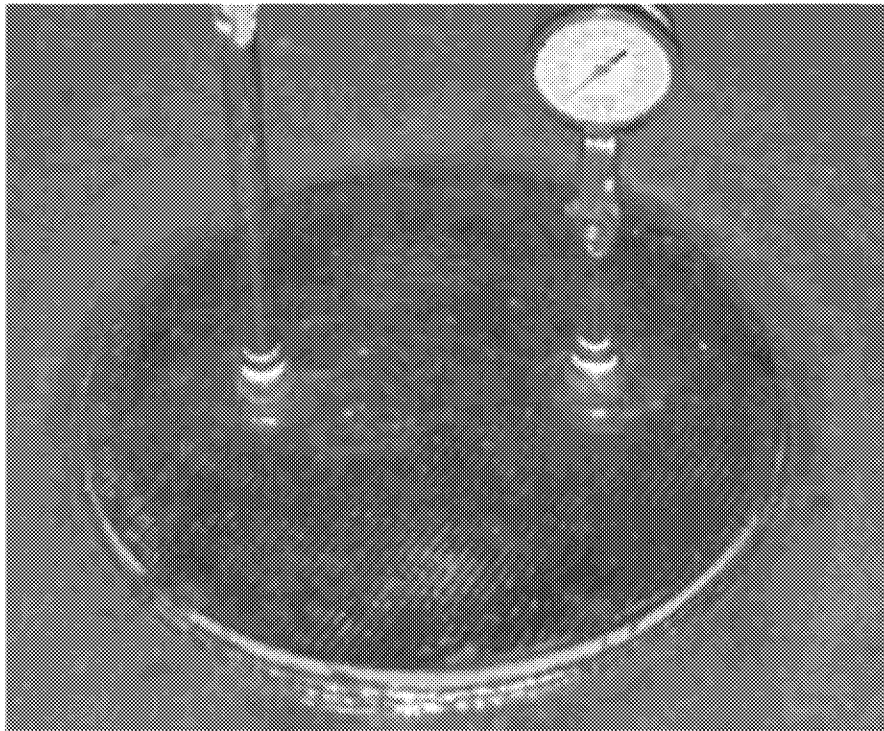
Test PKG: TK17_16x12_001
Customer: NEXWC

Personnel:
Jaymes Barlos
Roger Makahani
Eric Yatabe
Todd Lelepali

Test Medium: Potable Water
Inner Wall Temperature
(Before Adding Test Medium, degrees F)
81.5F on 11/13/17@0900

Test Pressure, psig: 150
Min Test Pressure, psig: 145
Max Test Pressure, psig: 155
Pump DH: 200
total gallons of water installed in segment to fill: 622

Time (Military Time)	Gauge Pressure psig	Inner Blind or Blind Flange, Temp F	Ambient Temp Temp, F	Volume Added Gallons	Volume Subtracted Gallons	Notes
1037	164	78.2	80.4			START TEST
1052	160	78.8	82.5			
1107	159	79.5	83.4			
1122	158	78.8	83.4			
1137	156	78.8	82.5			
1152	155	78.8	82.9			
1209	154	78.8	82.5			
1222	152	78.8	82.5			
1237	151	78.8	84.9			
1252	150	78.8	83.6			
1307	149	78.8	85.4	156 ML		ADDED WATER TO 164 PSIG
1313	164	78.8	83.4			
1322	164	78.8	83.4			
1337	163	78.8	83.8			
1352	162	78.8	81.3			
1407	159	78.8	81.1			
1422	158	78.8	80.9			
1437	156	78.8	81.8			PASSED PER EV



16"



12"

Appendix G
Leak Test Results



VISTA
PRECISION SOLUTIONS™

VP SI Report No. 2439S-TR-17-001 Rev. 0

Red Hill, JBRPHH, HI

2017 PIPELINE PRESSURE TESTING SERVICES

TANK 14

Prepared For:

APTIM Federal Services LLC
Attn: Mr. Eric Yatabe
12005 Ford Road, Suite 600
Dallas, TX 75234

Prepared Under:

Subcontract No.: 203688
Project No.: 500769

Prepared By:

Vista Precision Solutions, Inc.
2350 Lindberg Loop
Richland, WA 99354
Tel (509) 943-2484
www.VistaPrecision.com

18 December 2017

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Acronyms and Abbreviations

KWA	Ken Wilcox Associates
LDS	Leak Detection System
MDLR	Minimum Detectable Leak Rate
NOP	Normal Operating Pressure
NWGLDE	National Work Group on Leak Detection Evaluations
PD	Probability of Detection
PFA	Probability of False Alarm
PLC	Programmable Logic Controller
USEPA	United States Environmental Protection Agency
VPSI	Vista Precision Solutions, Inc.

**Vista Precision Solutions Report
Pipeline Leak Detection Testing Services**

Red Hill, JBPHH, HI

EXECUTIVE SUMMARY

Under Delivery Order 500770 from APTIM Federal Services, LLC (APTIM), Vista Precision Solutions, Inc. (VPSI) has conducted leak detection tests of fuel piping located at Red Hill Bulk Storage Facility, JB Pearl Harbor-Hickam, Hawaii. Leak detection testing was conducted as a component of the *Pressure Testing Plan for Clean, Inspect, Repair POL Storage Tanks 14, 17 & 18, Joint Base Pearl Harbor-Hickam, Hawaii* (APTIM, 2017).

VPSI was contracted to conduct leak detection tests of line segments associated with Tanks 14, 17 and 18 with estimated volumes of <3,400 gallons. Only the line segments associated with Tanks 14 and 17 were tested during this mobilization. The line segments were tested using the LT-100 pipeline leak detection system with minimum detectable leak rate of 0.10 gallons per hour. The test segment volumes ranged between 162 and 1,950 gallons.

VPSI mobilized to the site and tested the three sections of pipeline for Tank 14 between 17 and 19 November. The pipelines were tested using the Vista LT-100 pipeline leak detection system, Version 1.0 (PD=97%, PFA=3%) and yielded no detectable leak above the minimum detectable leak rate (MDLR), resulting in a passing test.

VPSI would like to thank Eric Yatabe, Jaymes Barlos and Jon Nicholson of APTIM for their support in accomplishing this project.

1.0 Introduction

Vista Precision Solutions has conducted leak detection tests on fuel piping located at Red Hill Bulk Storage Facility, JB Pearl Harbor-Hickam, HI using the LT-100 volumetric leak detection system. Descriptions of the testing set up, requirements and procedures are presented in Section 2. Test results and the recommendations and conclusions are presented in Sections 3 through 4. The test certification page is presented in Appendix A and test segment drawings are presented in Appendix B.

1.1 Purpose of Inspection

APTIM (formerly CB&I Federal Services, LLC) contracted VPSI to perform leak detection testing of pipeline segments at Red Hill, JBPHH, HI. Leak detection testing is conducted as a component of the *Pressure Testing Plan for Clean, Inspect, Repair POL Storage Tanks 14, 17 & 18, Joint Base Pearl Harbor-Hickam, Hawaii* (APTIM, 2017).

1.2 Leak Detection System Certifications

The Vista Precision Solutions technology employed on this project has the following certifications:

a. *Third Party Evaluation and Certification - Final Report* by KWA Associates, dated April 15, 1996, LT-100 Monitoring Method and Line Tightness Test Method Version 1.0

b. *National Work Group on Leak Detection Evaluations*, listing denotes Third Party

Evaluation conformed to applicable USEPA testing protocols. Listing issue date: April 18, 1997,

Revision date: December 4, 2002

2.0 Testing Overview

2.1 Coordination Activities

A preparatory meeting was held on 13 November 2017. The kick-off meeting was conducted by personnel from APTIM and VPSI.

The following personnel were identified as the Primary Points of Contact during the kick-off meeting:

- Jon Nicholson – Project Manager, APTIM
- Jaymes Barlos – Construction Manager, APTIM
- Eric Yatabe – Construction Manager/Pressure Testing Lead, APTIM
- Brian Humann – Vista Project Engineer

The following is a list of subjects that were covered during the kick-off meeting:

- Formal introductions
- Identification of Primary Points of Contact with contact numbers given
- Project Scope of Work – Overview
- Test Schedule – Review
- Safety Requirements – Overview
- Testing Support Requirements

2.2 Testing Setup Overview

Segment A: Tank 14 Fill Line

- Description: 32" (inside tank) x 20" (lower tunnel) Fill Line
- Volume: 1,950 gallons
- Isolation: Blind flange inside tank and blind flange in lower tunnel
- Test Connection: $\frac{1}{2}$ " test connection fitting on $\frac{3}{4}$ " test tree connected to upper port on blind flange
- Test Pressure: 163 psig

Segment B: Tank 14 Suction / Discharge Line

- Description: 18" (inside tank) x 12" (lower tunnel) Suction / Discharge Line
- Volume: 800 gallons
- Isolation: Blind flange inside tank and blind flange in lower tunnel
- Test Connection: $\frac{1}{2}$ " test connection fitting on $\frac{3}{4}$ " test tree connected to upper port on blind flange
- Test Pressure: 163 psig

Segment C: Tank 14 Water Draw / Sump Line

- Description: 8" x 6" Water Draw / Sump Line
- Volume: 162 gallons
- Isolation: Pancake blind flange inside tank and blind flange in lower tunnel
- Test Connection: $\frac{1}{2}$ " test connection fitting on $\frac{3}{4}$ " test tree connected to upper port on blind flange
- Test Pressure: 162 psig

2.3 Test Method

The testing procedures used were those defined as the Vista Research, Inc. method. Determination of leakage is based on the criteria established in the Ken Wilcox Associates third party evaluation. The Vista LT-100 Version 1.0 is certified with a capability to detect leaks of 0.10 gallons per hour, a probability of detection (P_D) of 97 percent, and probability of false alarm (P_{FA}) less than or equal to 3 percent.

The method is Third Party Certified and currently listed by the National Work Group on Leak Detection Evaluations (NWGLDE).

2.4 Test Procedures

Conducting an LT-100 leak detection test consists of several basic activities: preparation of the line segment, attachment of the sensor equipment, initiating the test, data collection and analysis,

disconnecting the equipment, and returning the pipeline to service. The LT-100 leak detection system is operated manually and attended constantly during a test.

The following procedures were followed for each pipe segment tested.

- Line segment preparation – The piping is filled with the test fluid while venting air from the system. The test segment must be as nearly full of the test fluid as possible to ensure a successful test. Close all valves and install blinds, isolating the line segment.
- Test Pressure – Prior to initiating a test, the maximum test pressure is determined. The piping test pressure (provided by APTIM site personnel) used as the maximum test pressure, was 150 psig. Since the LT-100 would be located at the lowest point of each test segment the test pressure was increased to a minimum of 160 psig to ensure that the high points of the test segments would have a 150 psig test pressure. The test pressure used was provided in the approved Pressure Testing Plan (APTIM, 2017).
- Connect leak detection equipment – The LT-100 is connected to the test segment with piping isolated by a manual ball valve. The test segment is initially brought up to test pressure.
- Initiating a test – The test equipment is powered on and confirmed operational. At this point the LT-100 measurement cylinder is determined to be containing an appropriate amount of test medium by the leak detection engineer. Test medium is added/removed as required. The test tree isolation ball valve is opened and a test is initiated.
 - a. Precision Leak Detection Test – The leak test is performed using the LT-100 Version 1.0 Primary Method as listed with the National Work Group for Leak Detection Evaluations (NWGLDE). Test pressure is maintained while volume measurements are logged for the first hour of the test. The pressure is then reduced for the second hour (low pressure portion). The low pressure portion of the leak test is performed at or near 0 psig as volume measurements continue.
- Data Collection and Analysis – Data is collected automatically by the PLC/operating computer. The test operator monitors the test progress and proceeds with the test based on the observed behavior. Once adequate data is collected it is analyzed and a test result is determined.
- Disconnection of Equipment – At the end of the test the line is left in a slack condition and the test equipment is disconnected from the test segment.

3.0 Test Results

All line segments tested for Tank 14 at Red Hill achieved a passing test result.

The results are summarized in Table 1.

Table 1. Summary of Tests

Line No.	Line Segment	Date	Diameter (in)	Volume (gal)	MDLR (gal/h)	Test Result
A	32" (inside tank) x 20" (lower tunnel) Fill Line	11/19/17	32/20	1,950	0.10	Pass
B	18" (inside tank) x 12" (lower tunnel) Suction / Discharge Line	11/18/17	18/12	800	0.10	Pass
C	8" x 6" Water Draw / Sump Line	11/17/17	8/6	162	0.10	Pass

The line segments described in Table 1 were tested with Vista LT-100, Version 1.0 pipeline leak detection method.

4.0 Conclusions and Recommendations

All three (3) lines tested passed their respective tests. All tests were completed with little difficulty due to the excellent line preparation provided by APTIM.



Appendix A

Test Certification

A-1



TEST CERTIFICATION

Red Hill, JBPHH, HI			19 November 2017			
Line Segment	Test Date	Test Pressure (psig)	Product	Segment Volume (gal)	Minimum Detectable Leak Rate (gal/h)	Test Result
1 Tank 14 Test Segment A: 32" to 20"	11/19/17	163	Water	1,950	0.10	Pass
2 Tank 14 Test Segment B: 18" to 12"	11/18/17	163	Water	800	0.10	Pass
3 Tank 14 Test Segment C: 8" to 6"	11/17/17	162	Water	162	0.10	Pass

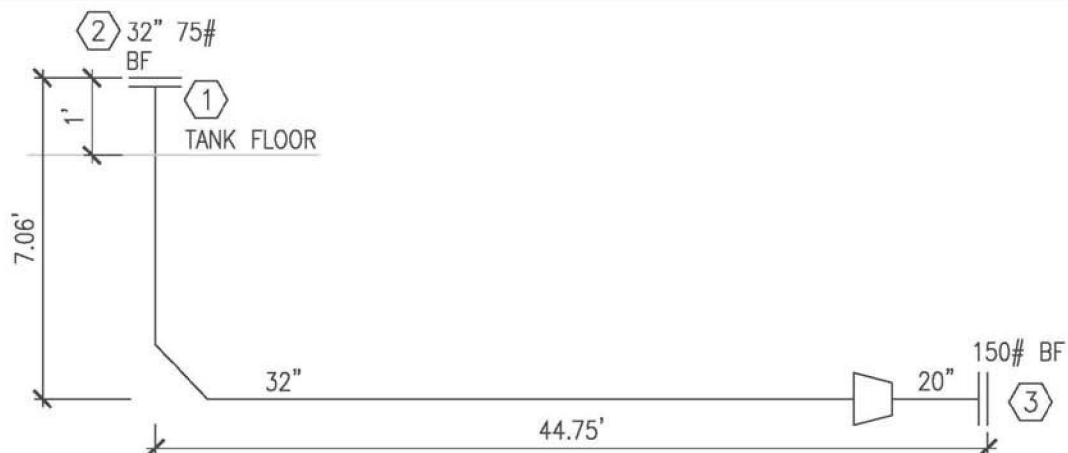
Vista Precision Solutions, Inc. hereby certifies that it has tested the above-listed piping with the Vista LT-100, Version 1.0 pipeline leak detection method. This method has been evaluated by an independent third party, in accordance with U.S. EPA (or equivalent) test procedures for evaluating pipeline leak detection systems.


Vista Precision Solutions, Inc.

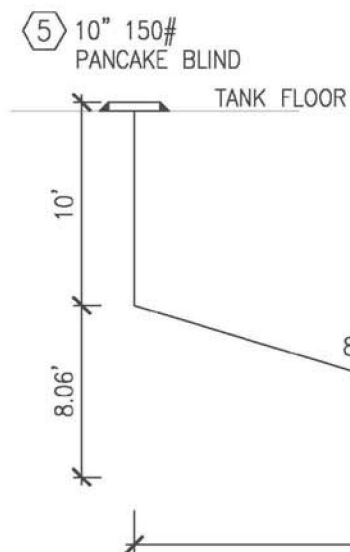


Appendix B

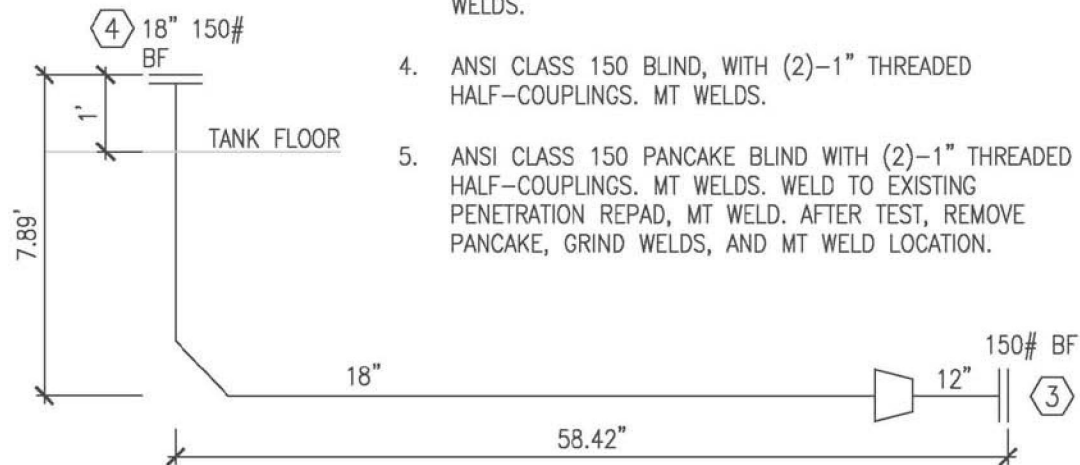
Drawings



TANK 14 - TEST SEGMENT A
SCALE: N.T.S.



TANK 14 - TEST SEGMENT C
SCALE: N.T.S.



TANK 14 - TEST SEGMENT B
SCALE: N.T.S.

GENERAL NOTES:

1. ANSI CLASS 75 WNF, WELDED TO EXISTING STUB AFTER CUTTING OFF EXISTING LINE. WELDING GTAW ROOT, SMAW FILL AND CAP (OPTION IS ALL GTAW). NDE SHALL CONSIST OF VT OF ROOT WELD AND MT OF COMPLETED EXPOSED WELDS.
2. ANSI CLASS 75 BLIND FLANGE, WITH (2)-1" THREADED HALF-COUPINGS. MT WELDS.
3. ANSI CLASS 150 BLIND, WITH (1)-2" THREADED HALF-COUPING AT LOW POINT AND (1)-1" THREADED HALF COUPLING APPROXIMATELY IN CENTER OF BLIND. MT WELDS.
4. ANSI CLASS 150 BLIND, WITH (2)-1" THREADED HALF-COUPINGS. MT WELDS.
5. ANSI CLASS 150 PANCAKE BLIND WITH (2)-1" THREADED HALF-COUPINGS. MT WELDS. WELD TO EXISTING PENETRATION REPAD, MT WELD. AFTER TEST, REMOVE PANCAKE, GRIND WELDS, AND MT WELD LOCATION.

ALL SCALES ARE INDICATED FOR "A" SIZE DRAWINGS.

SHEET 1

CLEAN INSPECT REPAIR STORAGE TANK 14, 17, AND 18
JOINT BASE PEARL HARBOR-HICKAM, HI
PROJECT 500770

TANK 14 PRESSURE TEST SEGMENTS



12005 FORD ROAD, SUITE 600
DALLAS, TEXAS 75234

Designed by:	Date:
Drawn by:	DAY MONTH YEAR
Reviewed by:	Solicitation No.
Submitted by:	Contract No.
	Delivery Order No.

REVISION SCHEDULE		
Rev #	Description	Date

DESIGN FILE: T:\Federal\NAVFAC EXWC GPOL\Awarded Task Orders\0005 - Red Hill Tanks 14 17 18\09_Project Execution Plans and Procedures\Pressure test plan\Red Hill Pressure Test Segments.dwg



VISTA
PRECISION SOLUTIONS™

VP SI Report No. 2439S-TR-17-002 Rev. 0

Red Hill, JBPRHH, HI

2017 PIPELINE PRESSURE TESTING SERVICES

TANK 17

Prepared For:

APTIM Federal Services LLC
Attn: Mr. Eric Yatabe
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Dallas, TX 75234

Prepared Under:

Subcontract No.: 203688
Project No.: 500769

Prepared By:

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18 December 2017

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Acronyms and Abbreviations

KWA	Ken Wilcox Associates
LDS	Leak Detection System
MDLR	Minimum Detectable Leak Rate
NOP	Normal Operating Pressure
NWGLDE	National Work Group on Leak Detection Evaluations
PD	Probability of Detection
PFA	Probability of False Alarm
PLC	Programmable Logic Controller
USEPA	United States Environmental Protection Agency
VPSI	Vista Precision Solutions, Inc.

**Vista Precision Solutions Report
Pipeline Leak Detection Testing Services**

Red Hill, JBPHH, HI

EXECUTIVE SUMMARY

Under Delivery Order 500770 from APTIM Federal Services, LLC (APTIM), Vista Precision Solutions, Inc. (VPSI) has conducted leak detection tests of fuel piping located at Red Hill Bulk Storage Facility, JB Pearl Harbor-Hickam, Hawaii. Leak detection testing was conducted as a component of the *Pressure Testing Plan for Clean, Inspect, Repair POL Storage Tanks 14, 17 & 18, Joint Base Pearl Harbor-Hickam, Hawaii* (APTIM, 2017).

VPSI was contracted to conduct leak detection tests of line segments associated with Tanks 14, 17 and 18 with estimated volumes of <3,400 gallons. Only the line segments associated with Tanks 14 and 17 were tested during this mobilization. The line segments were tested using the LT-100 pipeline leak detection system with minimum detectable leak rate of 0.10 gallons per hour. The test segment volumes ranged between 622 and 1,904 gallons.

VPSI mobilized to the site and tested the three sections of pipeline for Tank 17 between 15 and 16 November. The pipelines were tested using the Vista LT-100 pipeline leak detection system, Version 1.0 (PD=97%, PFA=3%) and yielded no detectable leak above the minimum detectable leak rate (MDLR), resulting in a passing test.

VPSI would like to thank Eric Yatabe, Jaymes Barlos and Jon Nicholson of APTIM for their support in accomplishing this project.

1.0 Introduction

Vista Precision Solutions has conducted leak detection tests on fuel piping located at Red Hill Bulk Storage Facility, JB Pearl Harbor-Hickam, HI using the LT-100 volumetric leak detection system. Descriptions of the testing set up, requirements and procedures are presented in Section 2. Test results and the recommendations and conclusions are presented in Sections 3 through 4. The test certification page is presented in Appendix A and test segment drawings are presented in Appendix B.

1.1 Purpose of Inspection

APTIM (formerly CB&I Federal Services, LLC) contracted VPSI to perform leak detection testing of pipeline segments at Red Hill, JBPHH, HI. Leak detection testing is conducted as a component of the *Pressure Testing Plan for Clean, Inspect, Repair POL Storage Tanks 14, 17 & 18, Joint Base Pearl Harbor-Hickam, Hawaii* (APTIM, 2017).

1.2 Leak Detection System Certifications

The Vista Precision Solutions technology employed on this project has the following certifications:

a. *Third Party Evaluation and Certification - Final Report* by KWA Associates, dated April 15, 1996, LT-100 Monitoring Method and Line Tightness Test Method Version 1.0

b. *National Work Group on Leak Detection Evaluations*, listing denotes Third Party

Evaluation conformed to applicable USEPA testing protocols. Listing issue date: April 18, 1997,

Revision date: December 4, 2002

2.0 Testing Overview

2.1 Coordination Activities

A preparatory meeting was held on 13 November 2017. The kick-off meeting was conducted by personnel from APTIM and VPSI.

The following personnel were identified as the Primary Points of Contact during the kick-off meeting:

- Jon Nicholson – Project Manager, APTIM
- Jaymes Barlos – Construction Manager, APTIM
- Eric Yatabe – Construction Manager/Pressure Testing Lead, APTIM
- Brian Humann – Vista Project Engineer

The following is a list of subjects that were covered during the kick-off meeting:

- Formal introductions
- Identification of Primary Points of Contact with contact numbers given
- Project Scope of Work – Overview
- Test Schedule – Review
- Safety Requirements – Overview
- Testing Support Requirements

2.2 Testing Setup Overview

Segment A: Tank 17 Fill Line

- Description: 32" (inside tank) x 20" (lower tunnel) Fill Line
- Volume: 1,904 gallons
- Isolation: Blind flange inside tank and blind flange in lower tunnel
- Test Connection: ½" test connection fitting on ¾" test tree connected to upper port on blind flange
- Test Pressure: 162 psig

Segment B: Tank 17 Suction / Discharge Line

- Description: 16" (inside tank) x 12" (lower tunnel) Suction / Discharge Line
- Volume: 622 gallons
- Isolation: Blind flange inside tank and blind flange in lower tunnel
- Test Connection: ½" test connection fitting on ¾" test tree connected to upper port on blind flange
- Test Pressure: 160 psig

2.3 Test Method

The testing procedures used were those defined as the Vista Research, Inc. method. Determination of leakage is based on the criteria established in the Ken Wilcox Associates third party evaluation. The Vista LT-100 Version 1.0 is certified with a capability to detect leaks of 0.10 gallons per hour, a probability of detection (P_D) of 97 percent, and probability of false alarm (P_{FA}) less than or equal to 3 percent.

The method is Third Party Certified and currently listed by the National Work Group on Leak Detection Evaluations (NWGLDE).

2.4 Test Procedures

Conducting an LT-100 leak detection test consists of several basic activities: preparation of the line segment, attachment of the sensor equipment, initiating the test, data collection and analysis, disconnecting the equipment, and returning the pipeline to service. The LT-100 leak detection system is operated manually and attended constantly during a test.

The following procedures were followed for each pipe segment tested.

- Line segment preparation – The piping is filled with the test fluid while venting air from the system. The test segment must be as nearly full of the test fluid as possible to ensure a successful test. Close all valves and install blinds, isolating the line segment.
- Test Pressure – Prior to initiating a test, the maximum test pressure is determined. The piping test pressure (provided by APTIM site personnel) used as the maximum test pressure, was 150 psig. Since the LT-100 would be located at the lowest point of each test segment the test pressure was increased to a minimum of 160 psig to ensure that the high points of the test

segments would have a 150 psig test pressure. The test pressure used was provided in the approved Pressure Testing Plan (APTIM, 2017).

- Connect leak detection equipment – The LT-100 is connected to the test segment with piping isolated by a manual ball valve. The test segment is initially brought up to test pressure.
- Initiating a test – The test equipment is powered on and confirmed operational. At this point the LT-100 measurement cylinder is determined to be containing an appropriate amount of test medium by the leak detection engineer. Test medium is added/removed as required. The test tree isolation ball valve is opened and a test is initiated.
 - a. Precision Leak Detection Test – The leak test is performed using the LT-100 Version 1.0 Primary Method as listed with the National Work Group for Leak Detection Evaluations (NWGLDE). Test pressure is maintained while volume measurements are logged for the first hour of the test. The pressure is then reduced for the second hour (low pressure portion). The low pressure portion of the leak test is performed at or near 0 psig as volume measurements continue.
- Data Collection and Analysis – Data is collected automatically by the PLC/operating computer. The test operator monitors the test progress and proceeds with the test based on the observed behavior. Once adequate data is collected it is analyzed and a test result is determined.
- Disconnection of Equipment – At the end of the test the line is left in a slack condition and the test equipment is disconnected from the test segment.
 - Line segment preparation – Close all valves isolating the line segment.
 - Test Pressure – Prior to initiating a test, the maximum test pressure is determined.
 - Connect leak detection equipment – The LT-100 is connected to the test segment with piping isolated by a manual ball valve. The test segment is initially brought up to test pressure by facility personnel if possible.
 - Initiating a test – The test equipment is powered on and confirmed operational. At this point the LT-100 fuel measurement cylinder is determined to be containing an appropriate amount of test medium by the operator. Test medium is added/removed as required. The manual isolation ball valve is opened and data collection is initiated.

3.0 Test Results

All line segments tested for Tank 17 at Red Hill achieved a passing test result.

The results are summarized in Table 1.

Table 1. Summary of Tests

Line No.	Line Segment	Date	Diameter (in)	Volume (gal)	MDLR (gal/h)	Test Result
A	32" (inside tank) x 20" (lower tunnel) Fill Line	11/16/17	32/20	1,904	0.10	Pass
B	16" (inside tank) x 12" (lower tunnel) Suction / Discharge Line	11/15/17	16/12	622	0.10	Pass

The line segments described in Table 1 were tested with Vista LT-100, Version 1.0 pipeline leak detection method.

4.0 Conclusions and Recommendations

The two (2) lines tested passed their respective tests. All tests were completed with little difficulty due to the excellent line preparation provided by APTIM.



Appendix A

Test Certification

A-1



TEST CERTIFICATION

Red Hill, JBPHH, HI			16 November 2017				
Line Segment		Test Date	Test Pressure (psig)	Product	Segment Volume (gal)	Minimum Detectable Leak Rate (gal/h)	Test Result
1	Tank 17 Test Segment A: 32" to 20"	11/16/17	162	Water	1,904	0.10	Pass
2	Tank 17 Test Segment B: 16" to 12"	11/15/17	160	Water	622	0.10	Pass

Vista Precision Solutions, Inc. hereby certifies that it has tested the above-listed piping with the Vista LT-100, Version 1.0 pipeline leak detection method. This method has been evaluated by an independent third party, in accordance with U.S. EPA (or equivalent) test procedures for evaluating pipeline leak detection systems.


Vista Precision Solutions, Inc.



Appendix B

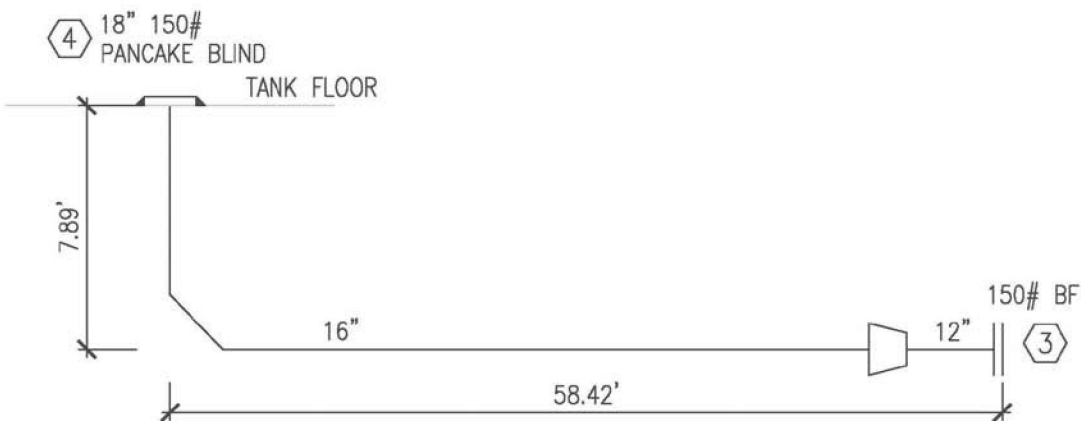
Drawings

GENERAL NOTES:

1. ANSI CLASS 75 WNF, WELDED TO EXISTING STUB AFTER CUTTING OFF EXISTING LINE. WELDING GTAW ROOT, SMAW FILL AND CAP (OPTION IS ALL GTAW). NDE SHALL CONSIST OF VT OF ROOT WELD AND MT OF COMPLETED EXPOSED WELDS.
2. ANSI CLASS 75 BLIND FLANGE, WITH (2)-1" THREADED HALF-COUPPLINGS. MT WELDS.
3. ANSI CLASS 150 BLIND, WITH (1)-2" THREADED HALF-COUPLING AT LOW POINT AND (1)-1" THREADED HALF COUPLING APPROXIMATELY IN CENTER OF BLIND. MT WELDS.
4. ANSI CLASS 150 PANCAKE BLIND WITH (2)-1" THREADED HALF-COUPPLINGS. MT WELDS. WELD TO EXISTING PENETRATION REPAD, MT WELD. AFTER TEST, REMOVE PANCAKE, GRIND WELDS, AND MT WELD LOCATION.



TANK 17 - TEST SEGMENT A
SCALE: N.T.S.



TANK 17 - TEST SEGMENT B
SCALE: N.T.S.

ALL SCALES ARE INDICATED FOR "A" SIZE DRAWINGS.

SHEET 2

CLEAN INSPECT REPAIR STORAGE TANK 14, 17, AND 18
JOINT BASE PEARL HARBOR-HICKAM, HI
PROJECT 500770

TANK 17 PRESSURE TEST SEGMENTS



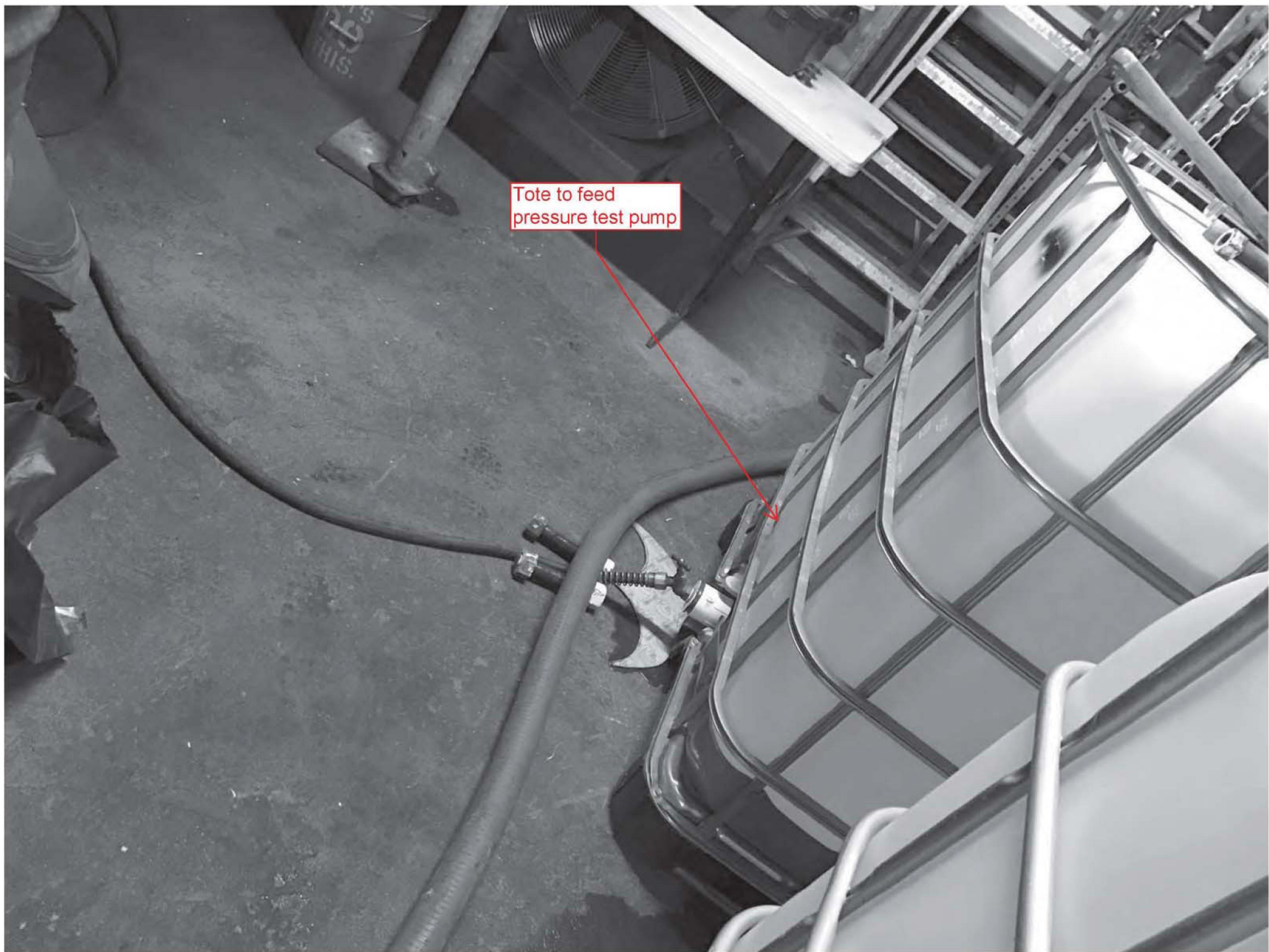
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Submitted by:	Contract No.
	Delivery Order No.

REVISION SCHEDULE		
Rev #	Description	Date

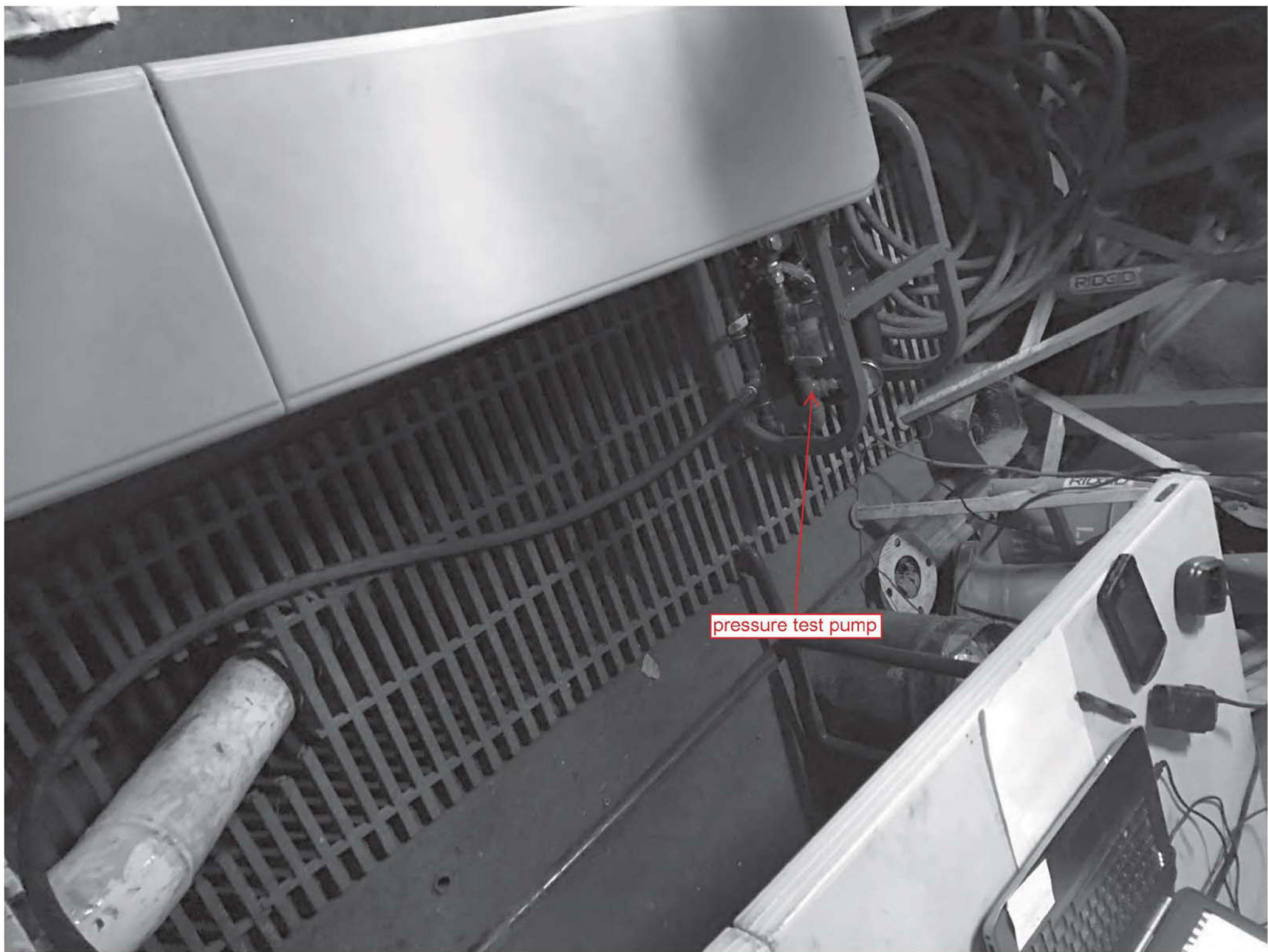
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Appendix H

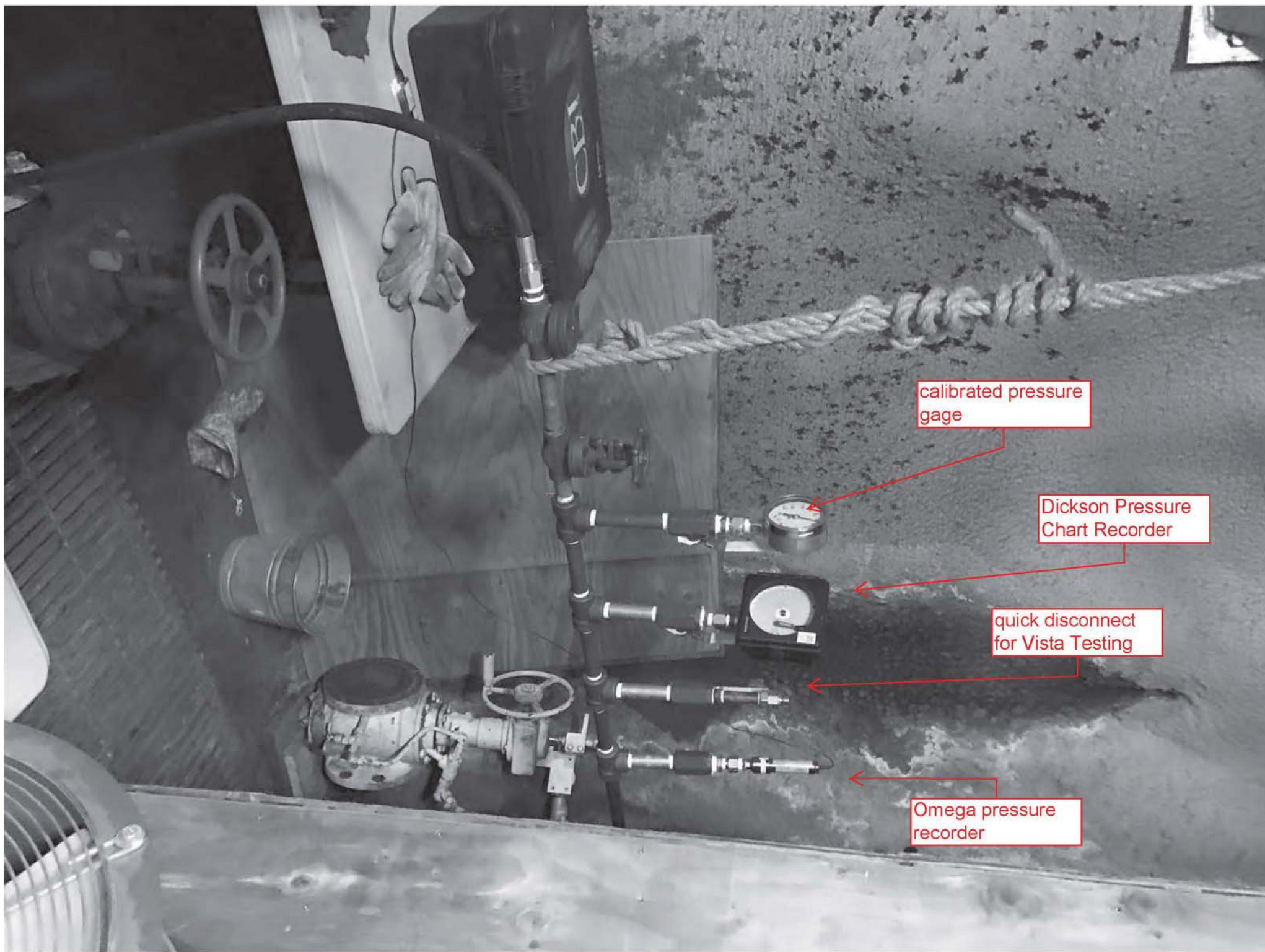
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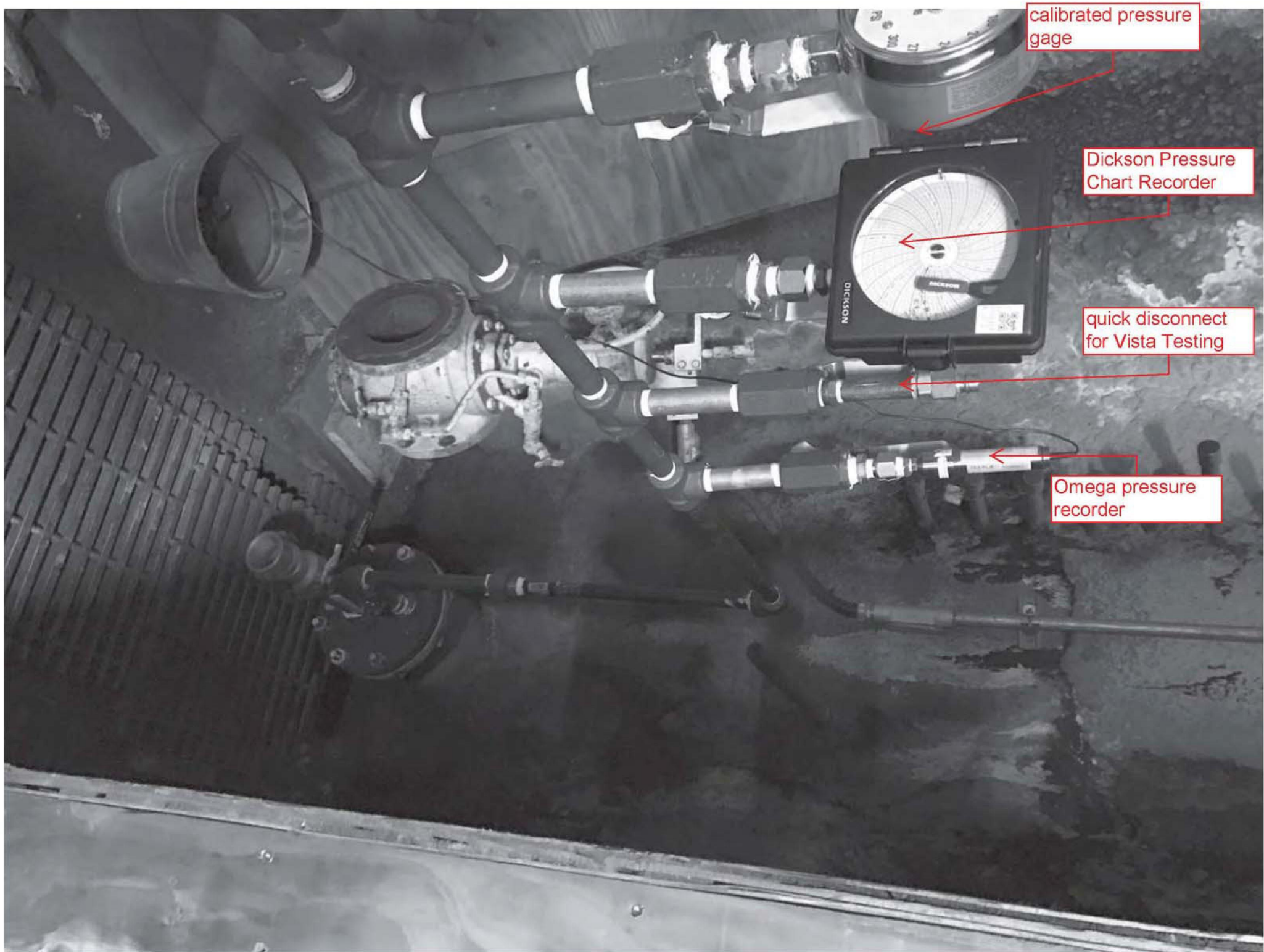


Tote to feed
pressure test pump



pressure test pump



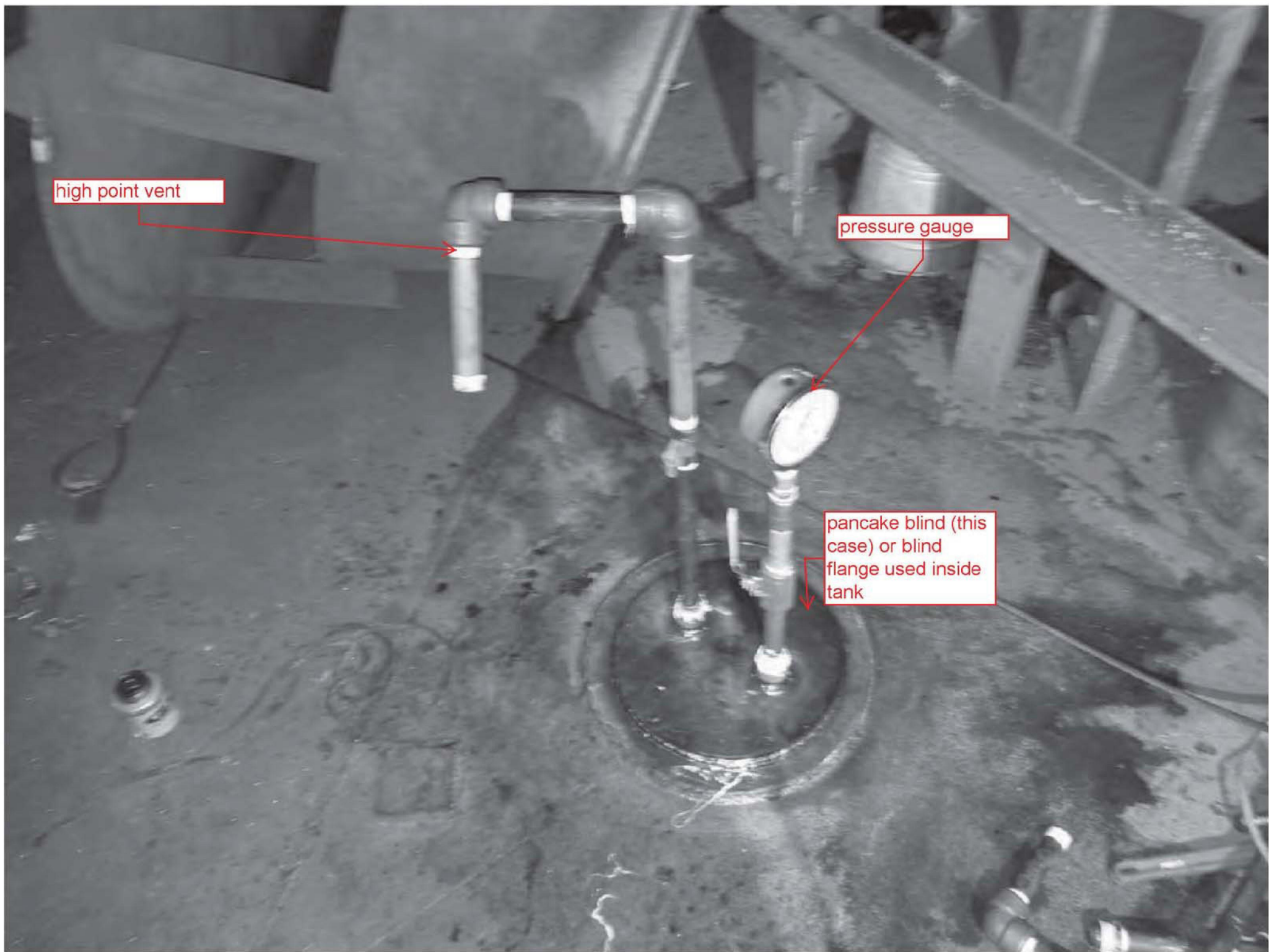


calibrated pressure
gage

Dickson Pressure
Chart Recorder

quick disconnect
for Vista Testing

Omega pressure
recorder



Appendix I

Methodology to Remove Air from System

- 1) A known quantity of water was pumped into connection on flange in lower tunnel using a 2" air diaphragm pump at ~15 gpm,
- 2) Water was allowed to settle and temperature equilibrate for at least 24 hours,
- 3) Water was backed from test segment towards lower tunnel to bleed air from each high point on the injection test tree. The high points on the injection test tree included the

calibrated pressure gage, Dickson Chart Recorder, Omega Pressure/Temperature Recorder and quick disconnect connection for the VISTA leak test equipment.

- 4) Water was pumped through end of pressure test pump hose to ensure air was cleared from end of pump hose before attaching to pressure test tree.
- 5) Pressure test pump was used to pump water through high point vent in tank until visible air was removed from high point vent and then another 10 gallons was pumped through.
- 6) System was pressured up to 50 psig and any air in the pressure gage inside tank at high point was vented of any air.
- 7) System was pressured up to 50 psig and all leaks were fixed and pressure held for 15 minutes.
- 8) System was pressured to 100 psig and all leaks were fixed and pressure held for 15 minutes.
- 9) System was pressured to 160 psig and all leaks were fixed and pressure held for 15 minutes.
- 10) The volume of water needed to reduce the system approximately 50 psig was taken from the high point vent inside the tank. The actual volume and pressure drop were recorded and compared against the theoretical amount of volume expected for that pressure drop. This, "reverse squeeze," was utilized as it was much easier to measure the amount of water removed from the system than what was injected. The volumes to cause a pressure change of 50 psig for these segments ranged from approximately 100 to 2100 ml.
- 11) If there was air, then another attempt to bleed air was made by trying to bleed air from injection tree in lower tunnel and high point vent and pressure gage inside tank. If no air was present the pressure was held overnight and strength test run the next morning.
- 12) In all cases during the strength test, temperature was constant.
- 13) In all cases, VISTA plugged their system into the pressure test injection tree at the end of the strength test while there was pressure on the system. Note: For all segments the pressure test hose discharge was disconnected from the pressure test system and this connection was plugged. This was the last place that water could have leaked through in the pressure test apparatus without being detected by inspections conducted at every 15 minute reading. Thus, no unaccounted for leaks from the pressure test apparatus occurred during leak test.

Difference in Actual vs. Theoretical Reverse Squeeze quantities at actual pressure drops.

Tank	Segment	Reverse Squeeze Pressure Drop	Theoretical, ml	Actual, ml
17	16x12	45.5	475	540
17	32x20	50	2077	2200
14	8x6	23	55	75
14	18x12	118	1644	1800
14	32x20	50	2175	2180

Any air left in segment was assumed to be trapped in horizontal portion of segment and unable to be removed by any practicable means. Based on conversations with VISTA personnel, it was recommended to re-pressurize system and determine if the pressure drop rate decreased. This flattening out of the pressure drop over time was indicative of air entrainment in the water according to VISTA personnel. VISTA personnel indicated that their proprietary method would fail a test that had too much air.

In all cases except the Tank 14, 32x20 segment which held constant pressure, the pressure drop rate decreased over time. In all cases, when the leak test was run, VISTA indicated that sufficient air had been bled during strength test preparations to obtain a pass using their equipment.

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