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Annual Radioactive Waste Tank Inspection Program – 2018

June 2019



Savannah River Remediation Savannah River Site Aiken, SC 29808

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Executive Summary

The Department of Energy (DOE) requires that Savannah River Remediation LLC (SRR), the Liquid Waste contractor, maintain a robust and timely Structural Integrity Program for waste tanks that are leak-tight and for waste tanks that have leaked or are suspect. These requirements are promulgated in DOE Manual 435.1-1, Section II.Q.(2). A key aspect of SRR's implementation of these requirements is its annual tank inspection program.

In 2018, the SRR Visual and In-Service Inspection Program used two visual imagery techniques to ascertain the integrity of the Savannah River Site (SRS) waste tanks: high resolution digital photography and closed-circuit television. The primary inspection method made use of direct photograph techniques, e.g., making a series of photographs providing detailed views of the tank and wide-angle photography for obtaining overviews of large areas. Closed-circuit television was then typically used to further investigate conditions found during the initial inspection. During 2018, a total of 4,853 photographs were taken and 47 video inspections were performed as part of this inspection program.

Of the 51 waste tank systems at SRS that were designed, constructed, and placed into active service storing radioactive liquid waste, 43 remain in active service. Eight tanks have been cleaned, stabilized by filling with engineered grout, and removed from service (also known as operationally closed) – Tanks 5, 6, and 12 (Type I tanks); Tank 16 (Type II tank); and Tanks 17, 18, 19, and 20 (Type IV tanks). For the 43 waste tanks, inspections were successfully conducted in 2018 through all accessible annulus risers and inspection ports for nine Type I tanks, three Type II tanks, and 27 Type III/IIIA tanks; at least one inspection was made in the interior of four Type IV tanks (i.e., the tanks without annular spaces) above the liquid level in the tank.

Rainwater continues periodically to be observed migrating into the annuli of some tanks. Evidence of this infiltration was primarily noted by observation of surface stains, and occasionally by calciferous deposits, changed configuration of salt deposits in the associated annulus, and mild surface corrosion. The conditions of the 43 tanks remained essentially unchanged from the conditions reported in 2017. The one key exception was the identification of eight new cracks in the Tank 15 primary tank wall. These newly identified cracks are located at 65, 67, 70, 76, 150, 152, 176 inches and 200 inches above the tank bottom. The identified cracks in Tank 15 do not constitute an impact on the structural integrity of the tank, as evaluated and confirmed in the referenced report, SRNS-STI-2008-00028, *A Structural Impact Assessment of Flaws Detected During Ultrasonic Examination of Tank 15*, and calculation, T-CLC-H-00890, *Calculation of Critical Crack Lengths in HLW Tank 15*. **The 2018 inspection program confirmed the structural integrity and waste confinement capability of all 43 waste tanks**.

In addition to the visual tank inspections, the SRR Visual and In-Service Inspection Program requires routinely scheduled physical walkdowns to inspect specific ancillary equipment in the Tank Farms. These walkdowns are in addition to the camera/video inspections documented in Appendix A. During 2018, inspections were conducted on the following equipment:

- Above Ground Transfer Lines, T-DS-G-00001 and T-DS-G-00019; and
- Transfer Pump Electrical Breakers/Disconnects, T-DS-G-00017

For all the ancillary equipment inspected in 2018, no material degradation was noted that would prevent the equipment from performing its credited function.

A third facet of the SRR Structural Integrity Program is the performance of ultrasonic nondestructive examinations (UT) on the waste tanks on a routine schedule. In 2018, ultrasonic testing inspections were performed on Tanks 29, 30, 31, and 32, per this schedule. **These examinations showed no reportable thinning, pitting, stress corrosion cracking, or evidence of service induced thinning of the primary tank wall, or the secondary liner wall and floor.**

Consistent with the provisions set forth in the Industrial Wastewater Treatment Facility Construction Permit for F-Area Tank Farm (FTF) and H-Area Tank Farms (HTF) liquid radioactive waste storage tanks, construction permit number 17,424-IW, this annual structural integrity report is provided to the South Carolina Department of Health and Environmental Control (SCDHEC) and the U.S. Environmental Protection Agency (EPA).

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Acronyms

ASME	American Society of Mechanical Engineers				
ССР	Corrosion Control Program				
DOE	Department of Energy				
EPA	nvironmental Protection Agency				
FFA	Federal Facility Agreement				
FTF	F-Area Tank Farm				
HTF	H-Area Tank Farm				
ISI	In-Service Inspection Program				
RBOF	Receiving Basin for Offsite Fuels				
SCDHEC	South Carolina Department of Health and Environmental Control				
SRR	Savannah River Remediation				
SRS	Savannah River Site				
UT	Ultrasonic Testing				

1 Introduction

Since the site's design, construction, and startup in the 1950s, the primary mission of the Savannah River Site (SRS) had been to produce nuclear materials for the national defense and deep space missions. The processes used to recover many of these nuclear materials from production reactor fuel and target assemblies in the F- and H-Area chemical separations facilities (i.e., F Canyon and H Canyon) generated significant volumes of liquid radioactive waste. Today, over 34 million gallons of liquid radioactive waste is stored in 43 underground, carbon steel waste tanks. Many of these tanks are now over 60 years in age, having been constructed and placed into active service in the 1950's. In addition, many of these tanks lack full secondary containment and some have known leak sites in the primary tank walls. However, all tanks with known leaksites do have a secondary containment pan that is 5' in height that contains any leaked waste.

Savannah River Remediation LLC (SRR), the liquid waste contractor at SRS, has implemented a robust structural integrity program for the waste tanks at SRS. This program is designed to ensure the continued safe storage of the radioactive liquid waste by ensuring the tanks will not collapse, rupture, or fail during their operational life. As part of this structural integrity program, annual inspections are conducted on each of the 43 waste tanks in active service to ensure conditions have not degraded over time.

The purpose of this report is to summarize the results of these individual inspections that were conducted in calendar year 2018.

2 Requirements

The Department of Energy (DOE) requires SRR maintain a robust and timely structural integrity program for both tanks that are leak-tight and for tanks that have leaked or are suspect. These requirements are documented in DOE Manual 435.1-1, Section II.Q.(2). For tanks that are considered "Leak-Tight Tanks In-Service," a structural integrity program must be implemented that is capable of (the Corrosion Control Program, CCP, along with the In-Service Inspection Program, ISI, help satisfy these requirements):

- 1. Verifying the current leak-tightness and structural strength of each tank in service;
- 2. Identifying corrosion, fatigue, and other critical degradation modes;
- 3. Adjusting the chemistry of tank waste, calibrating cathodic protection systems, wherever employed, and implementing other necessary corrosion protective measures;
- 4. Providing credible projections as to when structural integrity of each tank can no longer be assured; and
- 5. Identifying the additional controls necessary to maintain an acceptable operating envelope.

Further, for tanks that are considered "In-Service Tanks that Have Leaked or Are Suspect," a modified structural integrity program must be implemented to "identify the safe operational envelope." In addition to the five elements listed above, the modified program for these tanks must be capable of:

6. Determining which of the tanks that have leaked or are suspect may remain in service by identifying an acceptable safe operating envelope.

This section also requires that the "structural integrity of other storage components shall be verified to assure leak tightness and structural strength."

In United States Department of Energy / Westinghouse Savannah River Company, Savannah River Site, Aiken, South Carolina, As-Built Construction Permit Application for an Industrial Wastewater Treatment Facility for the F and H-Area High-Level Radioactive Waste Tank Farms, construction permit number 17,424-IW, dated April 1991, Section 1.6, <u>Assessment and Inspections</u>, it is noted for each waste tank system that did not meet secondary containment criteria described in Section IX.C of the SRS Federal Facility Agreement (FFA):

"... information is provided to demonstrate that these waste tank systems are adequately designed and have sufficient structural strength and compatibility with the hazardous and/or radioactive substances that will be stored or treated, to ensure that the waste tank system will not collapse, rupture, or fail."

This section of the As-Built Construction Permit Application further states:

"In addition to the attached assessment report, annual inspection reports will be submitted to SCDHEC on or before July 1st of each year. These inspection reports will satisfy the requirements of Section IX.A.2 of the FFA for on-going demonstrations. These inspections will be conducted annually for each waste tank system until the waste tank system is removed from service."

Section IX.A.2 of the FFA states, in pertinent part, the following:

"The permit applications submitted under Subsection A.1 above shall include a description of past leaks and demonstrations, subject to the review and approval of SCDHEC, that each highlevel waste tank system is not leaking. The permit applications submitted by DOE under Subsection A.1 shall include proposed methods and a schedule for ongoing demonstrations that these tank system(s) are not leaking. Such methods and schedule shall be complied with until such time as the waste tank system(s) is removed from service under Subsection E herein."

This report has been developed, in part, to fulfill the regulatory requirements for annual inspections of the waste tanks at SRS consistent with the provisions of the 17,424-IW permit. It should be noted that, as stated above, these annual inspections are only required for those tanks still in active service. Tanks 5, 6, 12, 16, 17, 18, 19 and 20 have been operationally closed and no longer require inspections under these requirements. Instead, as established in the Interim Record of Decision for each of these tanks, SRR conducts annual viable engineered barriers inspections and performs any maintenance necessary as a result of these inspections.

3 Waste Tank Descriptions

There were 51 underground liquid radioactive waste storage tanks constructed and placed into service at SRS. Twenty-two waste tanks are in the F-Area Tank Farm (FTF) and 29 waste tanks are in the H-Area Tank Farm (HTF). The main component of a waste tank is the primary liner,

typically referred to as the primary tank, which is designed to contain the liquid waste and associated precipitated solids. The primary tanks are cylindrical and fabricated of welded carbon steel plates. There are four principal waste tank designs designated as Type I, II, III/IIIA, and IV.

The waste tanks were constructed during different time periods and design features were changed to incorporate improvements and lessons learned. Table 3-1 summarizes the FTF and HTF waste tank design types.

Tank Number	Tank Farm	Design Type	Year Constructed	Type of Construction	Volume (gallons) ^a
1 - 8	F	I	1952	Double Wall-Cooled	750,000
9 - 12	Н	I	1953	Double Wall-Cooled	750,000
13 - 16	Н	Ш	1956	Double Wall-Cooled	1,070,000
17 - 20	F	IV	1958	Single Wall-Uncooled	1,300,000
21 - 24	Н	IV	1961-1962	Single Wall-Uncooled	1,300,000
25 - 28	F	IIIA	1978	Double Wall-Cooled	1,300,000
29 - 32	Н	Ξ	1970	Double Wall-Cooled	1,300,000
33	F	Ξ	1969	Double Wall-Cooled	1,300,000
34	F	Ξ	1972	Double Wall-Cooled	1,300,000
35 - 43	Н	IIIA	1976-1979	Double Wall-Cooled	1,300,000
44 - 47	F	IIIA	1980	Double Wall-Cooled	1,300,000
48 - 51	Н	IIIA	1981	Double Wall-Cooled	1,300,000

Table 3-1: Summary of SRS Waste Tank Design Types

^a Nominal Fill Capacity

3.1 Type I Tanks

There are eight Type I tanks in FTF (Tanks 1 through 8) and four Type I tanks in HTF (Tanks 9 through 12); all were constructed in the early 1950s as part of the original site construction activities. Tanks 5 and 6 in FTF were operationally closed in 2013 and Tank 12 in HTF was operationally closed in 2016. Figure 3.1-1 shows the Type I tanks during construction.



Figure 3.1-1: Construction of the Type I Tanks in FTF

Type I primary tanks have a 75-foot inside diameter and are 24 feet, 6 inches high with a nominal operating capacity of 750,000 gallons. [N-ESR-G-00001] The primary tank sits inside a 5-foot high, 79-foot 11-inch inside diameter secondary liner (also known as the annular pan). The primary tank and secondary liner are enclosed within an 83-foot, 8-inch outside diameter concrete vault that creates an approximately 2-foot, 5.5-inch wide annular space. The Type I vault roofs in both FTF and HTF are approximately 9 feet below grade.

A typical Type I tank cross-section is shown in Figure 3.1-2. [SRS-REG-2007-00002]



Figure 3.1-2: Typical Type I Tank Cross-Section

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The Type I primary tank is constructed of 0.5-inch thick carbon steel. The tank wall is joined to the roof and floor with non-stress-relieved welded knuckle plates also made of carbon steel. It should be noted that none of the Type I tanks were post-weld heat treated to relieve stresses following construction. The secondary liner is made of 0.5-inch thick carbon steel. The top edge of the secondary liner has a riglet – an L-shaped carbon steel stiffener lip that is wrapped in lead and extends 6 inches perpendicularly inward from the liner edge with another 4-inch long section extending perpendicularly down from that edge. [W145367] The primary tank roof is supported by twelve 2-foot diameter columns.

The primary tank rests on a 3-inch thick layer of grout inside the secondary liner and the secondary liner sits on a 3-inch thick grout layer on top of the concrete basemat (Figure 3.1-3).



Figure 3.1-3: Typical Type I Tank Floor Configuration

At the time of construction, all welds in the primary and secondary liners were radiographically inspected, defects were corrected, and the welds were rechecked radiographically. The welds in the flat bottoms of both the primary and secondary liners were vacuum-tested for leaks. Additionally, both the secondary liners and the primary tanks were hydrostatically tested. The water was maintained at full height in the primary tanks and secondary liners for 24 hours before inspection for leaks was made.

Access to the primary tank interior is limited to nine locations, and to the annular space at four locations, through riser pipes that extend through the concrete vault roof and up through the approximately 9 feet of soil. Each of the 13 riser pipes is capped at the top with a concrete shield plug. Each plug is typically provided with two 5-inch diameter ports equipped with removable plugs (unless equipment has been installed to support waste removal or tank closure activities). The center plug port may provide access through three 4- to 8-inch diameter ports.

these ports provide access for inspections. Figure 3.1-4 shows a typical layout of the Type I tank riser locations.



Figure 3.1-4: Typical Type I Tank Access Area

3.2 Type II Tanks

The second generation of waste tanks, the Type II tanks, completed construction in 1956 soon after the Type I tanks were placed into service. They are similar in design concept to the Type I tanks, but with some notable differences. There were only four Type II tanks constructed, Tanks 13 through 16, and were built as a four-pack in the HTF. There are no Type II tanks in the FTF. Tank 16 was operationally closed in 2015. Figure 3.2-1 shows the Type II tanks during construction.





The Type II primary tanks have an 85-foot inside diameter and are 27 feet high with a nominal operating capacity of 1,070,000 gallons. The primary tank sits inside a 5-foot high, approximately 90-foot, 1.25-inch inside diameter secondary liner. The primary tank and secondary liner (also known as the annular pan) are enclosed within a 95-foot, 8.5-inch outside diameter concrete vault that creates an approximately 2-foot, 6.625-inch wide annular space. Unlike the Type I tanks, these tanks were built so that the roof of the concrete vault was at grade level; this concrete roof is 3 feet, 9 inches thick. A typical Type II tank cross-section is shown in Figure 3.2-2.





The primary tank is made of 0.625-inch thick carbon steel. The tank wall is joined to the primary tank roof and floor with non-stress relieved welded knuckle plates also made of carbon steel. The top knuckle is 0.5625 inches thick, the bottom knuckle is 0.875 inches thick, and the associated top and bottom plates are 0.5 inches thick; all are made of carbon steel. It should be noted that none of the Type II tanks were post-weld heat treated to relieve stresses following construction. The secondary liner is made of 0.5-inch thick carbon steel. [W162688] The top edge of the secondary liner has a riglet – an L-shaped carbon steel stiffener lip that is wrapped in lead and extends 6 inches perpendicularly inward from the liner edge with another 4-inch long section extending perpendicularly down from that edge. The primary tank was constructed above a 1-inch thick sand pad placed on top of the secondary liner. An additional 1-inch thick sand pad is between the secondary liner and the basemat. Unlike the Type I tanks, the Type II tanks do not have a series of roof support columns. Instead, these tanks have a single, large roof support in the center of the tank.

At the time of construction, all welds in the primary tanks were radiographically inspected, defects were corrected, and the welds were rechecked radiographically. However, the secondary liners were not inspected radiographically. The welds in the flat bottoms of these liners and the primary tanks were vacuum-tested for leaks, and the primary tanks and secondary liners were hydrostatically tested.

Access to the primary tank interior is provided at eleven locations and, originally, to the annular spaces at four locations, through riser openings. Each of the original twelve riser openings is capped at the top with a concrete plug. Each plug is provided with two 5-inch diameter ports equipped with removable plugs. The ports provide access for inspection. In addition to the original four annulus risers, other access openings (10 to 14 additional openings per tank) have been core-drilled into the annulus of each of these tanks to permit inspection of 89 to 96% of the exterior walls of the primary tanks. These supplemental inspection ports were added following the formation of numerous leak sites soon after each of these tanks began receiving and storing liquid radioactive waste from H Canyon. Figure 3.2-3 shows a typical layout of the original Type II tank riser locations prior to the addition of the supplemental inspection ports.





3.3 Type IV Tanks

The Type IV tanks are single-walled tanks that have no auxiliary cooling capability. These tanks were specifically designed to store waste that contained significantly lower concentrations of radioactive material. There are four Type IV tanks in FTF that were constructed during the late 1950s (Tanks 17 through 20) and four Type IV tanks in HTF that were constructed between 1958 and 1962 (Tanks 21 through 24). All four of the FTF Type IV tanks have been operationally closed – Tanks 17 and 20 in 1997, and Tanks 18 and 19 in 2012. Figure 3.3-1 shows the Type IV tanks during construction.



Figure 3.3-1: Construction of Type IV Tanks



Type IV tanks have a single carbon steel liner with a hemispherical, reinforced concrete roof. These tanks are 85 feet in diameter and approximately 34 feet high at the side wall with a nominal operating capacity of 1,300,000 gallons. The liner wall and floor are made of 0.375-inch thick carbon steel with 0.4375-inch thick knuckle plates. The liner wall is reinforced internally by three circumferential 4- by 4-inch, L-shaped, carbon steel stiffener bands. This liner is anchored externally to the enclosing concrete vault wall. The liner floor is essentially flat with no sump, significant low points, or slope.

The Type IV tank roof is a self-supporting, hemispherical dome made of 7- to 10-inch thick concrete. The dome has an internal curvature radius of 90 feet, 4 inches and a maximum rise of 10 feet, 7.5 inches above the springline. The tank roof is not lined with carbon steel on the inside.

Each Type IV tank wall is enclosed in concrete; this concrete was placed in layers using a shotcrete technique. The concrete wall is cylindrical with an inside diameter of 85 feet and a height of 34 feet, 3.75 inches at the springline surmounted by a dome ring. The concrete wall is 7-inches thick at the top and 11-inches thick at the bottom. This wall was prestressed with steel bands that

remained in place and were covered with the concrete. Figure 3.3-2 shows these bands and associated turnbuckles prior to the formation of the concrete wall.



Figure 3.3-2: Steel Bands and Turnbuckles on the Type IV Tank Walls

There is no secondary containment (secondary liner) or an annulus in the Type IV tanks. Instead, drainage channels were formed in a 3-inch thick concrete topping layer above the basemat and drain to a collection point, which empties to a collection chamber (sump) below the waste tank footing at the edge of the waste tank wall. A riser pipe to the surface enables a leak detection probe to be placed in the chamber and for sampling of any liquid that was to accumulate. A typical Type IV tank cross-section is shown in Figure 3.3-3.





All welds in the carbon steel liners were radiographically inspected. All of the welded linerbottom seams and the upper seams of the knuckle rings were vacuum leak-tested. Prior to the backfilling/placement of surrounding soils, each tank was hydrostatically tested by filling with water to the normal fill height. These tanks remained filled with these non-radioactive solutions until it was to be placed in active waste storage.

Access to the interior of the HTF Type IV tanks is provided at six locations through perimeter riser pipes that are 2-foot in diameter and 5 feet long. The Type IV tanks in FTF had a center roof riser while those in HTF do not. Each riser opening is capped at the top with a concrete plug. Some of these risers provide access for inspection. There is no access to inspect the outside of the carbon steel liner as it is in direct contact with the surrounding concrete wall. Further, the outside of the concrete wall is covered in soil for shielding purposes. Figure 3.3-4 shows the typical access locations for a HTF Type IV tank.



Figure 3.3-4: Typical Type IV Tank Access Locations

NOTE: Risers may be impeded by installed equipment. [NOT TO SCALE]

3.4 Type III/IIIA Tanks

The Type III/IIIA tank designs captured many of the lessons learned from the earlier waste tank design, construction and operational histories. These tanks have full secondary containment and are essentially designed as a tank within a tank. There are two Type III tanks and eight Type IIIA tanks in the FTF. There are four Type III tanks and 13 Type IIIA tanks in the HTF. The waste tank numbers, associated tank farm, and construction years are listed in Table 3-1.

There are relatively minor construction detail differences between Type III and IIIA tanks, but the major differences are related the type of cooling coils used inside the primary tank and the design of the purge ventilation system.



Figure 3.4-1: Typical Construction of Type III/IIIA Tanks

The Type III/IIIA primary tank is 85 feet in diameter and 33 feet high with a nominal operating capacity of 1,300,000 gallons. Type III/IIIA tanks have both a center and outer annulus. The center annulus is formed between the primary tank wall and the roof support column. The primary tank is made of concentric carbon steel cylinders joined to circular top and bottom plates by curved knuckle plates. The top plate of the primary tank is 0.5 inches thick, the middle plate is 0.625 inches thick and the bottom plate is 0.875 inches thick; the top knuckle is 0.5 inches thick and the bottom plate is 0.875 inches thick. After construction, the Type III/IIIA primary liners were fully stress-relieved by heating to help prevent the nitrate-induced, stress corrosion cracking seen in both the Type I and Type II tanks. The Type III/IIIA secondary liner is 0.375-inch thick carbon steel and is the full height of the primary liner with a 90-foot, 1.75-inch outside diameter forming a 2-foot, 6-inch wide annular space between the primary tank and secondary liner. [W702700]

The primary tank sits on a bed of insulating material with a system of grooves radiating outward from the base of the central column so ventilating air can flow through the slots and any leakage

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from the primary tank bottom, or in the annulus around the center column, would flow to the outer annulus. The Type III tanks have a 6-inch thick layer of insulating material with 1-inch deep by 2-inch wide grooves. [W236993] The Type IIIA tanks have an 8-inch thick layer of insulating material with 2-inch deep by 5-inch wide grooves.

Type III/IIIA tanks have an air ventilation/cooling system embedded in the center support column with supply ducts extending to the radial air grooves built into the insulating layer between the primary tank and secondary liner. Typical Type III and Type IIIA tank cross-sections are shown in Figures 3.4-2 and 3.4-3, respectively.







Figure 3.4-3: Typical Type IIIA Tank Cross-Section

All butt welds on the primary tanks were radiographically inspected, except welds on the horizontal roof surface. On the secondary liners of Tanks 29 through 34, all butt welds joining bottom plates, knuckle plates, and the lowest courses of center-column and outer-wall plates, were radiographically inspected. On all other Type III tanks, all plate welds in the secondary tanks were radiographically inspected. All defects were corrected, and the welds were rechecked radiographically.

The Quality Assurance Program included inspection of all radiographs by two independent groups of certified weld inspectors, and all radiographs were permanently stored for future reference. All spots on the inside or outside of the primary tanks and the inside of the secondary liners, where clips or lugs were removed and where other excisions were made, were examined by magnetic particle or liquid penetrant techniques and any defects were repaired.

All butt welds on the secondary liners were vacuum leak-tested. All welds in the bottom assemblies of the primary tanks, including knuckle rings and lowest course welds, were vacuum leak-tested before each bottom assembly was lowered into final position, and then tested a second time after the stress-relieving operation. A full hydrostatic test, the filling of each primary tank to a depth of 32 feet and allowing it to stand 48 hours, was conducted after stress relieving. No leaks were found by the hydrostatic tests.

The primary tank was *postweld heat treated* in place after all high temperature work, other than roof attachments, had been completed. Post-weld heat treatment was accomplished in accordance with the general requirements of the ASME Boiler and Pressure Vessel code.

Tanks 29 through 34 were placed in service prior to 1976. These tanks were constructed with annulus riser openings at four locations providing inspection access through 5-inch diameter

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ports. All other Type III/IIIA tanks were placed in service after 1976 and have annulus riser openings at 18 locations that are 8-inches in diameter. These ports are equidistant around the tank and provide for inspection of the entire exterior wall of the primary vessel. In 1982, 14 to 16 additional 8-inch diameter ports per tank were drilled in the tops of Tanks 29 through 34 to provide adequate access ports for inspection of the entire exterior wall of their primary vessels. All Type III tanks have interior riser openings at various locations that provide inspection access through ports with diameters ranging from 4 to 8 inches. All inspection access ports are equipped with removable plugs.





4 Inspection Program Description

4.1 Background

The waste tanks have differing types of containment and leak detection. The first 24 tanks constructed and placed into service (Types I, II, and IV) do not meet current standards for secondary containment and/or leak detection and some of these tanks have experienced leakage from their primary tanks into secondary containment. Eight of the 24 tanks have now been operationally closed. The 27 new style tanks (Type III/IIIA) meet the standards for secondary containment and/or leak detection.

The detection of leaked waste is based on two principles: disappearance of material from its primary location and appearance of material in a secondary location. At SRS, primary reliance is on the latter because the quantity of the waste detectable in an improper location is much less than that detectable by inventory change in a large tank (i.e., nominal capacities ranging from 0.75 to 1.3 million gallons). Although rigorous tank inventory surveillance is practiced, primary

leak detection methods rely on automatic surveillance of those areas into which the leaked waste is most likely to migrate.

The annulus of each tank with secondary containment (i.e., Types I, II, and III/IIIA tanks) that remains in service is equipped with at least two single-point conductivity probes for leak detection. These probes are located at the bottom of the annulus and on opposite sides of the tank where possible. The single-wall tanks (i.e., Type IV tanks) are built on slabs with a network of leak collection channels that drain to a common sump. Sump levels are continuously monitored with alarm capability in control rooms. Besides the automatic surveillance, routine direct visual surveys are made in the annular spaces, and nonroutine direct visual surveys are made in primary tanks through risers and/or inspection ports in the roof.

In 1961-1962, following leakage of waste into the annuli of Tanks 9, 10, 14, and 16, the first remote imaging inspections were made of some tanks using a periscope, with random inspections continuing through 1970. A program was initiated in November 1971 to periodically inspect all waste tanks using remote visual imagery techniques to monitor for corrosion and other degradation, waste leakage, anomalies of any type, and to investigate process or equipment concerns.

Steel thickness measurements have been made periodically of the waste tanks using ultrasonic techniques to monitor for general corrosion. An analog-type instrument was used in 1967 and 1969 to measure the thickness of the primary wall of tanks with annuli. In 1972, a more precise instrument was put in service. About 24,000 measurements made over a period of 14 years (1972 through 1985) indicated that no general thinning trends of SRS tanks had occurred. Steel thickness measurements were resumed in 1994 using an updated ultrasonic testing (UT) system. The system was updated again in 2002 using improved technology to detect thinning, pitting, and cracks.

To date, the only visually observed, service-induced corrosion was in Tank 23, a tank with a unique service history. The upper wall interior surfaces show general corrosion with mild pitting. The pitting is broad, but shallow. Evaluation of this condition is documented in DPSPU-85-11-4. This tank was used to receive contaminated water from 244-H, the Receiving Basin for Off-Site Fuels (RBOF), and 245-H, the Resin Regeneration Facility. No increase in the pitting or general corrosion has been observed. The 244-H and 245-H facilities are out of service, and Tank 23 is now used to store dissolved salt solutions.

Inspections of waste tanks are complicated by factors such as radiation and radioactive contamination, remote operation as far as 40 feet below grade, and insertion of equipment through small, generally 5- to 8-inches in diameter, access openings. Inspection techniques to circumvent these difficulties have been developed, and yield quality visual images (photographic) and/or volumetric measurements (i.e., UT). The techniques include photographic systems, closed-circuit television systems, and ultrasonic systems to measure steel thickness, cracking, and pitting.

Waste tank inspection has been important in leak detection. The leak sites in 10 of 14 tanks have been discovered by direct visual inspection or by one of the remote inspection techniques. Since the inspection program was initiated in 1971, eight tanks were found to have leak sites that were

not identified by the installed leak detection equipment. The waste evaporated to dryness, sealing the leak sites before any liquid reached a leak detection probe. The remote inspections identified the dry deposits of salt in the annuli and/or on the walls of these tanks.

The waste tank Visual and In-Service Inspection Program is ongoing. This report gives results of the 2018 UT and visual inspection data and summarizes significant findings of UT and visual inspections for each waste tank.

4.2 Inspection Methods

Techniques have been developed for remote examination and evaluation of the waste tanks and waste tank ancillaries. For visual imaging, direct photography systems developed at SRS were the primary method used. Closed-circuit television systems were also used where direct photography was not possible or where these systems provided a more comprehensive examination. Only the direct photography systems will be described since the video systems are similar to systems used widely in industry.

Due to significant improvements and advantages of digital photography, a conversion was made from film to digital photography in 2007. Wide-angle direct photography was used for general inspections of tank annuli and the primary vessels. This technique surveys a large area of the tank and annulus floor in a single photograph.

Another direct photography technique was used for detailed inspections. This technique provides detailed views of the tank in a series of photographs.

4.3 Visual Imagery

The 2018 inspection program used two visual imagery techniques: photography and closedcircuit television. The primary inspection methods were direct photography techniques, e.g., making a series of photographs providing detailed views of the tank and wide-angle photography for obtaining overviews of large areas. Closed-circuit television systems were generally used to further investigate conditions found during scheduled inspections and to document conditions and troubleshoot process problems in tanks and ancillaries.

The inspection program objective to continuously evaluate the waste tanks was satisfied in 2018 by photographic and video documentation. Inspections were made through all accessible annulus risers of the Type I, II, and III/IIIA tanks and at least one inspection was made in the interior of each Type IV tank (i.e., Tanks 21 – 24).

For Tanks 1 through 4 and 7 through 11, inspections are limited to no more than 25% of the exterior of the primary vessel wall and the annular space due to limited annulus access. These tanks are monitored for leakage by instrumentation or cameras that can be installed in their annuli. Due to early leak site occurrences in the Type II tanks, Tanks 13 through 15 had additional inspection ports installed in their annuli allowing greater access and larger visual inspection capabilities.

Additionally, for those tanks that have known leak sites in the primary vessel and are not undergoing waste removal, the supernate phase has been removed, minimized, or the level

lowered below the level of known leak sites.

5 Calendar Year 2018 Inspection Program Results

5.1 Overview

The 2018 inspection program was successfully completed. The annuli of all Type I, II, and III/IIIA tanks were inspected via all accessible risers and the interiors of the Type IV tanks remaining in service were inspected. Other inspections of waste tanks and ancillaries were performed as required by operating conditions and equipment performance requirements.

In addition to the waste tank Visual and In-Service Inspection Program, the Structural Integrity program requires inspections/measurements to be performed on safety equipment to ensure that the structural configuration and condition will allow the equipment to perform its intended design function under operational and accident conditions. The Structural Integrity program principally involves periodic visual and non-destructive inspection and test activities of safety equipment, concentrating on structural (i.e., passive) aspects of active and passive components. Equipment inspection frequency ranges from two to ten years, based on materials of construction, operating environment, etc. Equipment and systems that are physically accessible are evaluated through visual walk downs by a Structural Integrity subject matter expert and those that are inaccessible for walk down are inspected remotely by camera or video equipment. All inspections in 2018 were satisfactory with no material degradation noted that would prevent the equipment from performing its credited function. The following are the required equipment inspections that were completed in 2018, as scheduled:

- Above Ground Transfer Lines, T-DS-G-00001 and T-DS-G-00019; and
- Transfer Pump Electrical Breakers/Disconnects, T-DS-G-00017.

Ultrasonic nondestructive examinations were performed in Tanks 29, 30, 31, and 32. The findings are documented in SRNL-STI-2018-00457, *Tank Inspection NDE Results for Fiscal Year 2018, Waste Tanks 29, 30, 31, and 32,* Revision 0.

Rainwater continues to periodically be observed leaking into the annulus of some tanks. Inleakage, which is water migrating into the annulus, was evidenced primarily by surface stains, occasionally by calciferous deposits, changed configuration of salt deposits in the annulus, and mild surface corrosion. The conditions of the tanks remained essentially unchanged from the conditions reported in 2017. The one key exception was the identification of eight new cracks in the Tank 15 primary tank wall. These newly identified cracks were located at 65, 67, 70, 76, 150, 152, 176 inches and 200 inches above the tank bottom. The identified cracks in Tank 15 do not constitute an impact on the structural integrity of the tank, as evaluated and confirmed in the referenced report, SRNS-STI-2008-00028, *A Structural Impact Assessment of Flaws Detected During Ultrasonic Examination of Tank 15*, and calculation, T-CLC-H-00890, *Calculation of Critical Crack Lengths in HLW Tank 15*. **The 2018 inspection program confirmed the structural integrity and waste confinement capability of all 43 waste tanks that remain in active service.**

Specific details and results for inspections of the tanks and ancillaries performed in 2018 are listed in Appendix A.

5.2 Tank Inspection Summary Sheets

Tank Inspection Summary Sheets are provided on the following pages for the 43 tanks that remain in active service. The sheets are designed to reflect the most recent information and build from the previous annual structural integrity reports. Sheets for the eight tanks that have been grouted and operationally closed (Tanks 5, 6, 12, 16,17, 18, 19, and 20) are not included. The individual tank sheets provide concise structural integrity-related information for each tank and a diagram of each tank type to depict inspection camera accessible locations. [NOTE: The status of the Type I, II, and IV tanks, the tanks that do not meet current requirements for secondary containment, are reported in SRR-ESH-2019-00018, *CY2018 Annual Report Status of F/H Area Radioactive Waste Tanks Being Removed from Service*.]

Tank	1	Annulus Inspection Location				
Placed into Se 1954	ervice	v				
 Type I Tar F Tank Fa 	nk rm		•			
Annulus Risers	Available for	Inspection: 3 Insp	ection Capability: 19%			
Number of Known Leak Sites	Date of Discovery	Waste on Annulus Floor	Location	Elevation from Tank Bottom		
≥1	Feb 1969	Small deposits on floor	Small deposits on floor Unknown Unknow			
Last Vi Summary of Vi Ultrasonic Te Ultrasonic Te Conclusior	sual Inspectio sual Inspectio sting Inspectio Perform sting Inspectio Resu	ns: November 2018. ns: No changes were noted since th ons 1978, 1979, 1981, 1983, and 19 ed: No detectable thinning of tank w lts: No additional leakage, signific	November 2018. No changes were noted since the inspections in 2017. 1978, 1979, 1981, 1983, and 1985 No detectable thinning of tank wall. No additional leakage, significant surface corrosion, or other			
Inspections: anomalies were noted. The 2018 inspection confirmed the structural integrity and waste confinement capability of Tank 1.				d the structural		













Tank	10	Annulus Inspection Location				
Placed into Se 1955	<u>ervice</u>			Ē		
 Type I Tar H Tank Fa 	nk Irm		5			
Annulus Risers	Available for	Inspection: 3 Insp	ection Capability: 19%			
Number of Known Leak Sites	Date of Discovery	Waste on Annulus Floor	Location	Elevation from Tank Bottom		
≥1	Jul 1959	2-3 in. of salt deposits – source of waste has not been identified	Unknown	Unknown		
Last Vi	Last Visual Inspections: November 2018.					
Summary of Vi	sual Inspectio	ons: No changes were noted since th	e inspections in 2017.			
Ultrasonic Te	Ultrasonic Testing Inspections 1979 and 1983 Performed:					
Ultrasonic Testing Inspections No detectable thinning of tank wall. Results:						
Conclusions following 2018 No additional significant surface corrosion or other anomalies were noted. The 2018 inspection confirmed the structural integrity and waste confinement capability of Tank 10.				nomalies were integrity and		




Tank	14	Annulus	Annulus Inspection Locations					
<u>Placed into Service</u> 1957		• 775 S • 775 S • 742 • 745	● 55 ● 739.5 ₩ ● 65					
 Type II Ta 	nk			/	1			
 H Tank Farm 		en			35			
			13	0234				
Annulus Inspection Ports Available: 13 Inspection Capability: 89%								
Number of Known Leak Sites	Date of Discovery	Waste on Annulus Floor		Location	Elevation from Tank Bottom			
~50	May 1959 – 1974 Oct 2012	12-13 in. of salt deposits	Maj	ority on bottom weld	Lowest 16 in. Highest 288 in.			
Last Vi	sual Inspectio	ns: May 2018.	May 2018.					
Summary of Vi	sual Inspectio	ns: No changes were noted si	No changes were noted since the inspections in 2017.					
Ultrasonic Te	sting Inspection Perform	ons 1979 and 1983 ed:	1979 and 1983					
Ultrasonic Te	sting Inspectio Resu	ons No detectable thinning of t Its:	No detectable thinning of tank wall.					
Conclusior	ns following 20 Inspectio	No additional significant ns: noted. The 2018 inspect waste confinement capa	No additional significant surface corrosion or other anomalies were noted. The 2018 inspection confirmed the structural integrity and waste confinement capability of Tank 14.					

1960	
Type II Tank	
H Tank Farm	
• PID 5	
Annulus Inspection Ports Available: 13 Inspection Capability: 96%	
Number of Known Date of Waste on Annulus Floor Location* Elevation f Leak Sites Discovery Waste on Annulus Floor Location* Tank Bot	from tom
Apr-72 Nodules on tank wall 140 34 in. Apr-72 144 34 in. 140 1	
34 115 88 m. 1973 115 88 m. 1973 102 30 m. 1973 102 30 m. 1973 102 30 m. 1973 107 30 m. 1973 171 74 m. 1973 177 30 m. 1973 177 30 m. 1973 171 150 m. 1973 171 150 m. 1973 197 136 1973 197 136 1973 197 136 1973 197 100 m. 1997 2007 150 m. 1997 2000 200 m. 1998 192 150 m. 1997 2000 30 m. 2000 200 m. 50 2001 200 m. 175 2015 205 100 m. 2015 205 100 m. 2018 2018 225	

Tank 15 (Page 2 of 2)	Annulus Inspection Locations			
<u>Placed into Service</u> 1960	₩ ● 771 ● 755			
Type II Tank	• ****			
 H Tank Farm 				
Last Visual Inspections:	May 2018			
Summary of Visual Inspections:	Inspections in 2018 revealed eight new leak sites at 65, 67, 70, 76, 150, 152, 176 in. and 200 in. above the tank bottom. Visual examinations have shown mild corrosion of the steel surfaces in the tank annulus. Periodic visual inspections continue to be performed since Tank 15 was rewetted, bulk waste removal efforts were completed, and heel removal was initiated.			
Ultrasonic Testing Inspections Performed:	1972, 1977, 1980, 1984, 2002, 2007, and 2015			
Ultrasonic Testing Inspections Results:	UT examinations in 2002 revealed a new leak site at 150 inches on the middle circumferential weld and four partial through wall cracks. [WSRC-TR-2002-00590] In 2007, UT examinations showed no reportable thinning or pitting areas on the tank wall. Ten cracks that were examined in 2002 were reexamined in 2007 with four cracks showing growth. Evaluations concluded the cracks would remain stable under bounding future waste loading conditions. [SRNS-STI-2008-00028] In 2015, eight of these cracks were again reexamined; four cracks showed growth within expected ranges and four showed no changes. [SRNL-STI-2015-00421]			
Conclusions following 2018 Inspections:	No significant surface corrosion or other anomalies were noted apart from the eight new identified leak sites. The 2018 inspection confirmed the structural integrity and waste confinement capability of Tank 15.			























































Tank	48	Annulus Inspection Locations							
Placed into Service 1983									
 Type IIIA Tank H Tank Farm 									
Annulus Inspection Ports Available: 18 Inspection Capability: 100%									
Number of Known Leak Sites	Date of Discovery	Waste on Annulus Flo	or	Location	Elevation from Tank Bottom				
No known leak sites	n/a	n/a		n/a	n/a				
Last Vi Summary of Vi Ultrasonic Te Ultrasonic Te Conclusior	sual Inspection sual Inspection sting Inspection Perform sting Inspection Resumes following 20 Inspection	ons: May 2018 ons: No areas of concern si ons 1982, 2004, and 2012 ned: No reportable thinning ults: service-induced tank w 2012-00749] 018 No leakage, significations: noted. The 2018 insp waste confinement ca	nce last ev , pitting or /all thinnin nt surface pection co apability o	valuated in 2017. stress corrosion cracking g on the primary tank wa e corrosion, or other an onfirmed the structural i of Tank 48.	g, or evidence of III. [SRNL-STI- Iomalies were integrity and				







6 Conclusion

The conditions of the 43 tanks remained essentially unchanged from the conditions reported in 2017. The one key exception was the identification of eight new cracks in the Tank 15 primary tank wall. These newly identified cracks are located at 65, 67, 70, 76, 150, 152, 176 inches and 200 inches above the tank bottom. The identified cracks in Tank 15 do not constitute an impact on the structural integrity of the tank, as evaluated and confirmed in the referenced report, SRNS-STI-2008-00028, *A Structural Impact Assessment of Flaws Detected During Ultrasonic Examination of Tank 15*, and calculation, T-CLC-H-00890, *Calculation of Critical Crack Lengths in HLW Tank 15*. The 2018 inspection program confirmed the structural integrity and waste confinement capability of all 43 waste tanks currently in service for waste storage at SRS.

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Appendix A – Summary of 2018 Inspection

	TANK OR ANCILLARY	ACCESS OPENING			INSPE	СТІ	ON METHOD	
AREA		(A OF	R I)	DATE	IDENTIF	ICA		REMARKS
F	01	East	(A)	11/11/18	DP	Ι	P18228:01-21	Remote visual tank wall inspection revealed no changes since last inspected on 11/01/17.
F	01	East	(A)	11/11/18	DP	1	P18228:18	The magnetically mounted tank wall thermocouple was properly positioned.
F	01	North	(A)	11/11/18	DP	1	P18227:01-20	Remote visual tank wall inspection revealed no changes since last inspected on 11/01/17.
F	01	West	(A)	11/11/18 11/22/18	DP	1	P18229:01-11 P18230:01-10	Remote visual tank wall inspection revealed no changes since last inspected on 11/01/17.
F	01	West	(A)	11/11/18	DP	1	P18232:01-20	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last inspected on 12/04/15.
F	02	East	(A)	12/05/18	WAP	1	P18243:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 9/02/17.
F	02	North	(A)	05/11/18	WAP	1	P18152:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 10/7/17.
F	02	South	(A)	03/27/18	DP	1	P18092:01-20	Remote visual inspection of the tank wall revealed no areas of concern since last inspected on 10/7/17.
F	02	West	(A)	05/11/18	WAP	1	P18152:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 10/7/17.
F	03	East	(A)	12/03/18	DP	1	P18242:01-19	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last inspected on 6/26/16.
F	03	East	(A)	12/03/18	DP	1	P18241:01-20	Remote visual tank wall inspection revealed no areas of concern since last inspected on 9/02/17.
F	03	North	(A)	05/11/18	WAP	1	P18153:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 9/02/17.
F	03	South	(A)	03/27/18	DP	1	P18094:01-20	Remote visual inspection of the tank wall revealed no areas of concern since last inspected on 9/2/17.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECT IDENTIFIC	TION METHOD ATION NUMBER	REMARKS
F	03	South (A)	03/27/18	DP	P18095:01-20	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last inspected on 12/26/15.
F	03	West (A)	03/27/18	DP	P18093:01-20	Remote visual inspection of the tank wall revealed no areas of concern since last inspected on 9/2/17.
F	03	West (A)	03/27/18	DP	P18093:13	The magnetically mounted tank wall thermocouple was properly positioned.
F	04	East (A)	04/24/18	DP	P18140:01-20	Remote visual tank wall inspection revealed no changes since last inspected on 9/4/17.
F	04	North (A)	04/24/18	DP	P18136:01-20	Remote visual tank wall inspection revealed no changes since last inspected on 9/4/17.
F	04	South (A)	04/24/18	DP	P18138:01-20	Remote visual tank wall inspection revealed no changes since last inspected on 9/4/17.
F	04	South (A)	04/24/18	DP	P18139:01-20	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last inspected on 8/23/14.
F	04	West (A)	04/24/18	DP	P18137:01-20	Remote visual tank wall inspection revealed no changes since last inspected on 9/4/17.
F	07	North (A)	03/29/18	DP	P18104:01-24	Remote visual tank wall inspection revealed no areas of concern since last inspected on 9/3/17.
F	07	South (A)	03/29/18	DP	P18105:01-21	Remote visual tank wall inspection revealed no areas of concern since last inspected on 9/3/17.
F	07	South (A)	03/29/18	DP	P18106:01-20	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last inspected on 9/3/17.
F	07	West (A)	03/29/18	DP	P18103:01-20	Remote visual tank wall inspection revealed no areas of concern since last inspected on 9/3/17.
F	08	East (A)	03/27/18	DP	P18096:01-20	Remote visual inspection of the tank wall revealed no areas of concern since last inspected on 9/4/17.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)		DATE	INSPE IDENTIF		<u>ON METHOD</u> TION NUMBER	REMARKS
F	08	East	(A)	03/27/18	DP	1	P18096:18	The magnetically mounted tank wall thermocouple was properly positioned.
F	08	North	(A)	05/22/18	WAP	1	P18163:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 10/7/17.
F	08	South	(A)	05/22/18	WAP	1	P18163:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 10/7/17.
F	08	West	(A)	03/27/18	DP	1	P18097:01-20	Remote visual tank wall inspection revealed no areas of concern since last inspected on 10/7/17.
F	08	West	(A)	03/27/18	DP	1	P18098:01-19	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last inspected on 7/24/17.
Н	09	South	(A)	11/15/18	WAP	1	P18235:01	Remote visual tank wall inspection revealed no changes since last inspected on 10/03/17.
Н	09	West	(A)	11/05/18	DP	1	P18233:01-20	Remote visual tank wall inspection revealed no changes since last inspected on 10/03/17.
н	09	West	(A)	11/05/18	DP	1	P18233:13	The magnetically mounted tank wall thermocouple was properly positioned.
Н	09	West	(A)	11/05/18	DP	1	P18234:01-20	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last inspected on 8/26/16.
Н	10	East	(A)	11/02/18	DP	Ι	P18238:01-20	Remote visual tank wall inspection revealed no changes since last inspected on 10/01/17.
Н	10	East	(A)	11/02/18	DP	1	P18238:19	The magnetically mounted tank wall thermocouple was properly positioned.
Н	10	North	(A)	11/02/18	DP	1	P18236:01-20	Remote visual tank wall inspection revealed no changes since last inspected on 10/01/17.
Н	10	North	(A)	11/02/18	DP	1	P18237:01-20	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last inspected on 10/01/17.

AREA	TANK OR ANCILLARY	ACCESS O (A OF	<u>PENING</u> R I)	DATE	INSPE IDENTIF	CTIC ICA	<u>ON METHOD</u> TION NUMBER	REMARKS
Н	10	West	(A)	11/02/18	WAP	1	P18239:01-03	Remote visual tank wall inspection revealed no changes since last inspected on 9/24/17.
Н	11	East	(A)	10/31/18	DP	1	P18216:01-20	Remote visual tank wall inspection revealed no changes since last inspected on 9/24/17.
Н	11	North	(A)	10/31/18	DP	1	P18214:01-21	Remote visual tank wall inspection revealed no changes since last inspected on 9/24/17.
Н	11	North	(A)	10/31/18	DP	1	P18215:01-19	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last inspected on 9/21/14.
Н	11	South	(A)	10/25/18	WAP	1	P18213:01	Remote visual tank wall inspection revealed no changes since last inspected on 9/16/17.
Н	11	West	(A)	10/25/18	WAP	1	P18213:02	Remote visual tank wall inspection revealed no changes since last inspected on 9/16/17.
Н	13	010	(A)	10/13/18	WAP	1	P18226:01	Remote visual tank wall inspection revealed no changes since last inspected on 10/11/17.
Н	13	032	(A)	10/13/18	WAP	1	P18226:02	Remote visual tank wall inspection revealed no changes since last inspected on 10/10/17.
Н	13	071	(A)	10/21/18	DP	1	P18206:01-20	Remote visual tank wall inspection revealed no changes since last inspected on 10/11/17.
н	13	071	(A)	10/21/18	DP	1	P18207:01-19	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last inspected on 11/29/15.
Н	13	107	(A)	10/13/18	WAP	1	P18226:03	Remote visual tank wall inspection revealed no changes since last inspected on 10/10/17.
Η	13	151	(A)	10/13/18	WAP	1	P18226:04	Remote visual tank wall inspection revealed no changes since last inspected on 10/11/17.
н	13	175	(A)	10/21/18	DP	1	P18209:01-21	Remote visual tank wall inspection revealed no changes since last inspected on 10/12/17.

	TANK OR	COR <u>ACCESS OPENING</u>			INSPE	стю	ON METHOD		
AREA	ANCILLARY	(A OR	l)	DATE	IDENTIF	ICA		REMARKS	
Н	13	207	(A)	10/13/18	WAP	1	P18226:05	Remote visual tank wall inspection revealed no changes since last inspected on 10/10/17.	
Н	13	228	(A)	10/13/18	WAP	1	P18226:06	Remote visual tank wall inspection revealed no changes since last inspected on 10/10/17.	
Н	13	East	(A)	10/21/18	DP	1	P18210:01-20	Remote visual tank wall inspection revealed no changes since last inspected on 10/12/17.	
Н	13	West	(A)	10/21/18	DP	1	P18208:01-20	Remote visual tank wall inspection revealed no changes since last inspected on 10/11/17.	
Н	14	013	(A)	05/13/18	DP	1	P18154:01-20	Remote visual tank wall inspection revealed no changes since last inspected on 10/14/17.	
Н	14	032	(A)	05/12/18	WAP	1	P18161:01	Remote visual tank wall inspection revealed no changes since last inspected on 10/14/17.	
Н	14	065	(A)	05/13/18	DP	1	P18155:01-20	Remote visual tank wall inspection revealed no changes since last inspected on 10/14/17.	
Н	14	065	(A)	05/13/18	DP	1	P18156:01-20	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last inspected on 8/15/16.	
Н	14	108	(A)	05/13/18	DP	1	P18157:01-20	Remote visual tank wall inspection revealed no changes since last inspected on 10/14/17.	
Н	14	118	(A)	05/12/18	WAP	1	P18161:02	Remote visual tank wall inspection revealed no changes since last inspected on 10/22/17.	
Н	14	125	(A)	05/12/18	WAP	1	P18161:03	Remote visual tank wall inspection revealed no changes since last inspected on 10/14/17.	
Н	14	151	(A)	05/12/18	WAP	1	P18161:04	Remote visual tank wall inspection revealed no changes since last inspected on 10/22/17.	
Н	14	169	(A)	05/12/18	WAP	1	P18161:05	Remote visual tank wall inspection revealed no changes since last inspected on 10/22/17.	

AREA	TANK OR ANCILLARY	ACCESS O (A OF	PENING R I)	DATE	INSPE IDENTIF		<u>ON METHOD</u> TION NUMBER	REMARKS
Η	14	207	(A)	05/12/18	DP	1	P18160:01-20	Remote visual tank wall inspection revealed no changes since last inspected on 10/14/17.
Н	14	235	(A)	05/12/18	WAP	1	P18161:06	Remote visual tank wall inspection revealed no changes since last inspected on 10/24/17.
Н	14	259	(A)	05/12/18	WAP	1	P18161:07	Remote visual tank wall inspection revealed no changes since last inspected on 10/24/17.
н	14	East	(A)	05/12/18	DP	1	P18159:01-20	Remote visual tank wall inspection revealed no changes since last inspected on 10/24/17.
Н	14	North	(A)	05/12/18	DP	1	P18158:01-20	Remote visual tank wall inspection revealed no changes since last inspected on 10/22/17.
Н	14	North	(A)	05/12/18	DP	1	P18158:17	The magnetically mounted tank wall thermocouple was properly positioned on the tank wall.
Н	15	010	(A)	04/29/18	WAP	1	P18141:03	Remote visual tank wall inspection revealed no changes since last inspected on 10/10/17.
Н	15	010	(A)	05/04/18	DP	1	P18146:01-23	Remote visual tank wall inspection revealed no changes since last inspected on 10/01/17.
Н	15	032	(A)	04/30/18	WAP	1	P18144:01	Remote visual tank wall inspection revealed no changes since last inspected on 10/6/17.
Н	15	055	(A)	04/27/18	WAP	1	P18142:01	Remote visual tank wall inspection revealed no changes since last inspected on 10/6/17.
Н	15	071	(A)	04/27/18	WAP	1	P18142:02	Remote visual tank wall inspection revealed no changes since last inspected on 10/6/17.
Н	15	107	(A)	04/27/18	WAP	1	P18142:05	Remote visual tank wall inspection revealed no changes since last inspected on 10/5/17.
Н	15	107	(A)	05/04/18	DP	1	P18147:01-29	Remote visual tank wall inspection revealed no changes since last inspected on 10/01/17.

	TANK OR	NK OR <u>ACCESS OPENING</u>			INSPE	СТІ	ON METHOD		
AREA	ANCILLARY	(A OF	R I)	DATE	IDENTIF	ICA ⁻	TION NUMBER	REMARKS	
Н	15	171	(A)	04/27/18	WAP	1	P18142:06	Remote visual tank wall inspection revealed no changes since last inspected on 10/5/17.	
Η	15	171	(A)	05/02/18	DP	1	P18150:01-20	Remote visual tank wall inspection revealed no changes since last inspected on 10/01/17.	
Н	15	182	(A)	04/29/18	WAP	1	P18141:04	Remote visual tank wall inspection revealed no changes since last inspected on 10/5/17.	
Н	15	182	(A)	05/02/18	DP	1	P18151:01-15	Remote visual tank wall inspection revealed no changes since last inspected on 10/02/17.	
Н	15	207	(A)	04/29/18	WAP	Ι	P18141:05	Remote visual tank wall inspection revealed no changes since last inspected on 10/1/17.	
Н	15	207	(A)	05/02/18	DP	1	P18148:01-25	Remote visual tank wall inspection revealed no changes since last inspected on 10/01/17.	
Н	15	242	(A)	04/30/18	WAP	1	P18144:02	Remote visual tank wall inspection revealed four new leaksite since last inspected on 4/9/10. These cracks are located at 70, 76, 150 and 152 inches above the tank bottom and documented in SRR-LWE-2018 -00054.	
Н	15	242	(A)	05/02/18	DP	1	P18149:01-23	Remote visual tank wall inspection revealed no changes since last inspected on 10/01/17.	
н	15	242	(A)	08/24/18	CCTV	1	V180599	Inspection revealed two cracks at 65 and 67 inches above the tank bottom beneath IP242. The cracks are located on a vertical weld on the bottom plate.	
Н	15	East	(A)	04/29/18	WAP	1	P18141:02	Remote visual tank wall inspection revealed no changes since last inspected on 9/30/17.	
Η	15	North	(A)	04/27/18	WAP	1	P18142:04	Remote visual tank wall inspection revealed no changes since last inspected on 10/10/17.	
н	15	South	(A)	04/29/18	WAP	Ι	P18141:01	Remote visual tank wall inspection revealed no changes since last inspected on 10/1/17.	

AREA	TANK OR ANCILLARY	ACCESS O (A OF	PENING R I)	DATE	INSPE IDENTIF	CTIC ICA1	<u>ON METHOD</u> TION NUMBER	REMARKS
Н	15	South	(A)	05/04/18	DP	1	P18145:01-28	Remote visual tank wall inspection revealed no changes since last inspected on 10/01/17.
Η	15	West	(A)	04/27/18	WAP	Ι	P18142:03	Remote visual tank wall inspection revealed two leaksites since last inspected on 10/6/17. These cracks are located at 176 and 200 inches above the tank bottom and documented in SRR-LWE-2018 -00054.
Н	21	NE	(I)	10/02/18	CCTV	1	V180724	Remote inspection of the concrete dome was satisfactory. No welds were visible due to the liquid level in the tank.
Н	22	VB		04/08/18	ССТV	I	V180159	Inspection of the cover, stainless steel liner, jumpers and valves was satisfactory per SW11.6-SVP-45, Section 7.9.
Н	22	NW	(I)	10/09/18	ССТV	Ι	V180750	Remote visual inspection of the concrete dome and tank wall revealed no areas of concern since last evaluated on 9/14/17.
Н	23	SW	(I)	07/20/18	ССТV	Ι	V180459	Remote visual inspection of the tank wall and concrete dome revealed no areas of concern since last evaluated on 12/17/17.
Н	24	SE	(I)	10/04/18	CCTV	1	V180735	Inspection of the concrete dome was satisfactory since last inspected 9/15/17.
F	25	A-01	(A)	01/25/18	WAP	I	P18011:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/20/17.
F	25	A-02	(A)	01/25/18	WAP	Ι	P18011:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/20/17.
F	25	A-03	(A)	01/25/18	WAP	I	P18011:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/20/17.
F	25	A-04	(A)	01/25/18	WAP	1	P18011:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/20/17.

	TANK OR	ACCESS OPENING		INSPE	стіс	ON METHOD		
AREA	ANCILLARY	(A OR I)	DATE	IDENTIFI			REMARKS	
F	25	P-01 (A)	01/25/18	WAP	I	P18011:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/21/17.	
F	25	P-02 (A)	01/25/18	WAP	1	P18011:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/21/17.	
F	25	P-03 (A)	01/25/18	WAP	1	P18011:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/20/17.	
F	25	P-04 (A)	01/25/18	WAP	Ι	P18011:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/20/17.	
F	25	P-05 (A)	03/03/18	DP	I	P18047:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/20/17.	
F	25	P-06 (A)	03/03/18	DP	I	P18048:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/20/17.	
F	25	P-06 (A)	03/03/18	DP	1	P18049:01-24	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last inspected on 2/20/17.	
F	25	P-07 (A)	01/25/18	WAP	I	P18011:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/24/17.	
F	25	P-08 (A)	01/25/18	WAP	Ι	P18011:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/24/17.	
F	25	P-09 (A)	01/25/18	WAP	1	P18011:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/24/17.	
F	25	P-10 (A)	03/03/18	DP	I	P18050:01-26	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/20/17.	
F	25	P-11 (A)	01/25/18	WAP	1	P18011:12	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/20/17.	
F	25	P-12 (A)	01/25/18	WAP	Ι	P18011:13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/20/17.	

	TANK OR	ACCESS OPENING		INSPE	СТІ	ON METHOD	
AREA	ANCILLARY	(A OR I)	DATE	IDENTIF	ICA ⁻	TION NUMBER	REMARKS
F	25	P-13 (A)	03/03/18	DP	1	P18051:01-26	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/20/17.
F	25	P-14 (A)	03/03/18	DP	1	P18052:01-26	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/20/17.
F	26	A-01 (A)	01/21/18	WAP	1	P18010:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.
F	26	A-02 (A)	01/21/18	WAP	1	P18010:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.
F	26	A-03 (A)	01/21/18	WAP	1	P18010:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.
F	26	A-04 (A)	01/21/18	WAP	1	P18010:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.
F	26	P-01 (A)	01/21/18	WAP	1	P18010:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.
F	26	P-02 (A)	01/21/18	WAP	1	P18010:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.
F	26	P-03 (A)	01/21/18	WAP	1	P18010:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/25/17.
F	26	P-04 (A)	01/21/18	WAP	1	P18010:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/25/17.
F	26	P-05 (A)	03/19/18	DP	1	P18080:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.
F	26	P-06 (A)	03/19/18	DP	1	P18081:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.
F	26	P-06 (A)	03/19/18	DP	1	P18082:01-24	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last inspected on 4/27/14.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPEC IDENTIFIC	TION METHOD ATION NUMBER	REMARKS
F	26	P-07 (A)	01/21/18	WAP	/ P18010:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.
F	26	P-08 (A)	01/21/18	WAP	/ P18010:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.
F	26	P-09 (A)	01/21/18	WAP	/ P18010:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.
F	26	P-10 (A)	12/06/18	WAP	/ P18244:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/25/17.
F	26	P-11 (A)	12/06/18	WAP	/ P18244:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/25/17.
F	26	P-12 (A)	12/06/18	WAP	/ P18244:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/25/17.
F	26	P-13 (A)	01/21/18	WAP	/ P18010:12	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.
F	26	P-13 (A)	03/19/18	DP	/ P18083:01-26	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.
F	26	P-14 (A)	01/21/18	WAP	/ P18010:13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.
F	26	P-14 (A)	03/19/18	DP	/ P18084:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.
F	27	A-01 (A)	01/21/18	WAP	/ P18009:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.
F	27	A-02 (A)	01/21/18	WAP	/ P18009:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.
F	27	A-03 (A)	01/27/18	WAP	/ P18013:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.

	TANK OR ANCILLARY	ACCESS OPENING		INSPE	стіс	N METHOD		
AREA		(A OR I)	DATE	IDENTIFI	CAT	ION NUMBER	REMARKS	
F	27	A-04 (A)	01/27/18	WAP	1	P18013:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.	
F	27	P-01 (A)	01/21/18	WAP	1	P18009:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.	
F	27	P-02 (A)	01/21/18	WAP	1	P18009:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.	
F	27	P-03 (A)	01/21/18	WAP	1	P18009:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 11/11/17.	
F	27	P-04 (A)	01/21/18	WAP	1	P18009:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.	
F	27	P-05 (A)	03/19/18	DP	1	P18085:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 11/11/17.	
F	27	P-06 (A)	03/19/18	DP	1	P18086:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 11/11/17.	
F	27	P-06 (A)	03/19/18	DP	1	P18087:01-24	Remote visual inspection of secondary vessel wall revealed no areas of concern since last evaluated on 5/2/14.	
F	27	P-07 (A)	03/19/18	DP	1	P18088:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 3/2/17.	
F	27	P-08 (A)	01/21/18	WAP	1	P18009:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/8/17.	
F	27	P-09 (A)	01/27/18	WAP	1	P18013:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.	
F	27	P-10 (A)	03/19/18	DP	1	P18089:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 3/2/17.	
F	27	P-11 (A)	01/27/18	WAP	1	P18013:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.	

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPE IDENTIFI		<u>ON METHOD</u> TION NUMBER	REMARKS
F	27	P-12 (A)	01/27/18	WAP	1	P18013:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/2/17.
F	27	P-13 (A)	03/19/18	DP	1	P18090:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 3/2/17.
F	27	P-14 (A)	03/19/18	DP	1	P18091:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 3/2/17.
F	28	A-01 (A)	01/26/18	WAP	1	P18012:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/11/17.
F	28	A-02 (A)	01/26/18	WAP	1	P18012:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/11/17.
F	28	A-03 (A)	01/26/18	WAP	1	P18012:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/11/17.
F	28	A-04 (A)	01/26/18	WAP	1	P18012:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/11/17.
F	28	P-01 (A)	01/26/18	WAP	1	P18012:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/11/17.
F	28	P-02 (A)	03/20/18	DP	1	P18074 :01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/11/17.
F	28	P-03 (A)	01/26/18	WAP	1	P18012:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/16/17.
F	28	P-04 (A)	01/26/18	WAP	1	P18012:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/11/17.
F	28	P-05 (A)	01/26/18	WAP	1	P18012:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/16/17.
F	28	P-06 (A)	01/26/18	WAP	1	P18012:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/14/17.

	TANK OR	ACCESS OPENING			INSPECTION METHOD			
AREA	ANCILLARY	(A OF	R I)	DATE	IDENTIF		TION NUMBER	REMARKS_
F	28	P-07	(A)	01/26/18	WAP	1	P18012:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/11/17.
F	28	P-08	(A)	01/26/18	WAP	1	P18012:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/14/17.
F	28	P-09	(A)	03/20/18	DP	1	P18075 :01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/11/17.
F	28	P-09	(A)	03/20/18	DP	1	P18076 :01-25	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last inspected on 5/8/14.
F	28	P-10	(A)	03/20/18	DP	1	P18077 :01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/11/17.
F	28	P-11	(A)	01/26/18	WAP	1	P18012:12	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/11/17.
F	28	P-12	(A)	01/26/18	WAP	1	P18012:13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/11/17.
F	28	P-13	(A)	03/20/18	DP	1	P18078 :01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/11/17.
F	28	P-14	(A)	03/20/18	DP	1	P18079 :01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/11/17.
Н	29	COP 101		03/17/18	DSP	1	P18063:01-07	Inspection of the transfer lines within the cleanout port was satisfactory per T-DS-G-00001.
Н	29	A-01	(A)	02/02/18	WAP	1	P18016:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/4/17.
Н	29	A-02	(A)	02/02/18	WAP	1	P18016:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/4/17.
Н	29	A-03	(A)	02/02/18	WAP	1	P18016:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/22/17.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPEC		<u>ON METHOD</u> TION NUMBER	REMARKS
Н	29	A-04 (A)	02/02/18	WAP	1	P18016:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/22/17.
Н	29	P-01 (A)	02/02/18	WAP	1	P18016:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/22/17.
Н	29	P-02 (A)	02/02/18	WAP	1	P18016:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/13/17.
Н	29	P-03 (A)	03/31/18	DP	1	P18107:01-26	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 2/22/17.
н	29	P-04 (A)	02/02/18	WAP	1	P18016:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/13/17.
н	29	P-05 (A)	02/02/18	WAP	1	P18016:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/4/17.
н	29	P-06 (A)	03/31/18	DP	1	P18108:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 2/22/17.
н	29	P-07 (A)	02/02/18	WAP	1	P18016:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/22/17.
н	29	P-07 (A)	04/22/18	CCTV	1	V180190	Inspection verified the condition of the exterior of the sump transfer line was satisfactory per T-DS-G-00001.
Н	29	P-08 (A)	02/02/18	WAP	1	P18016:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/13/17.
Н	29	P-09 (A)	03/31/18	DP	I	P18109:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 2/22/17.
н	29	P-10 (A)	03/31/18	DP	1	P18110:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 2/22/17.
н	29	P-11 (A)	02/02/18	WAP	I	P18016:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/13/17.

AREA	TANK OR ANCILLARY	ACCESS OPE (A OR I)	ENING DATE	<u>INSPE</u> IDENTIF		<u>ON METHOD</u> FION NUMBER	REMARKS
Н	29	P-12 (/	A) 02/02/18	WAP	1	P18016:12	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/13/17.
Н	29	P-13 (/	A) 03/31/18	DP	1	P18111:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 2/22/17.
Н	29	P-14 (<i>i</i>	A) 02/02/18	WAP	1	P18016:13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/13/17.
н	29/30	COP 104	03/17/18	DSP	1	P18065:01-09	Inspection of the transfer lines within the cleanout port was satisfactory per T-DS-G-00001.
Н	29/30	COP 105	03/17/18	DSP	1	P18066:01-08	Inspection of the transfer lines within the cleanout port was satisfactory per T-DS-G-00001.
Н	29/32	COP 112	03/17/18	DSP	1	P18073:01-08	Inspection of the transfer lines within the cleanout port was satisfactory per T-DS-G-00001.
Н	30	A-01 (A	A) 03/10/18	WAP	1	P18057:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/7/17.
Н	30	A-02 (A	A) 03/10/18	WAP	1	P18057:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/7/17.
н	30	A-03 (A	A) 03/10/18	WAP	1	P18057:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/7/17.
Н	30	A-04 (A	A) 03/10/18	WAP	1	P18057:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/7/17.
Н	30	P-01 (A	A) 03/10/18	WAP	1	P18057:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/7/17.
Н	30	P-02 (A	A) 03/10/18	WAP	Ι	P18057:06	Remote visual tank wall inspection revealed no changes since last inspected on 08/25/17.
н	30	P-03 (A	A) 03/10/18	WAP	Ι	P18057:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/7/17.

	TANK OR	ACCESS OPENING		INSPE	сті	ON METHOD	
AREA	ANCILLARY	(A OR I)	DATE	IDENTIF	ICA ⁻	TION NUMBER	REMARKS
Н	30	P-03 (A)	10/05/18	DP	1	P18211:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 5/07/17.
н	30	P-04 (A)	03/10/18	WAP	1	P18057:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/7/17.
н	30	P-06 (A)	03/10/18	WAP	1	P18057:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/7/17.
Н	30	P-06 (A)	10/05/18	DP	1	P18212:01-26	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 5/07/17.
Н	30	P-07 (A)	03/10/18	WAP	1	P18057:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/7/17.
Н	30	P-09 (A)	03/10/18	WAP	1	P18057:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/7/17.
Н	30	P-09 (A)	10/06/18	DP	1	P18217:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 5/07/17.
Н	30	P-10 (A)	03/10/18	WAP	1	P18057:12	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/7/17.
н	30	P-10 (A)	10/06/18	DP	1	P18218:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 5/07/17.
Н	30	P-11 (A)	03/10/18	WAP	1	P18057:13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/7/17.
Н	30	P-12 (A)	03/10/18	WAP	1	P18057:14	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/7/17.
Η	30	P-13 (A)	03/10/18	WAP	1	P18057:15	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/7/17.
Н	31	COP 102	03/17/18	DSP	1	P18064:01-06	Inspection of the transfer lines within the cleanout port was satisfactory per T-DS-G-00001.

	TANK OR	ACCESS OPENING		INSPEC	TION METHOD	
AREA	ANCILLARY	(A OR I)	DATE		ATION NUMBER	REMARKS
Н	31	A-01 (A)	02/09/18	WAP	/ P18024:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/30/17.
н	31	A-02 (A)	02/09/18	WAP	/ P18024:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/30/17.
Н	31	A-03 (A)	02/09/18	WAP	/ P18024:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/30/17.
Н	31	A-04 (A)	02/09/18	WAP	/ P18024:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/30/17.
Н	31	P-01 (A)	02/26/18	WAP	/ P18029:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/30/17.
Н	31	P-02 (A)	02/26/18	WAP	/ P18029:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/30/17.
н	31	P-03 (A)	10/07/18	DP	/ P18220:01-27	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 4/30/17.
н	31	P-04 (A)	02/09/18	WAP	/ P18024:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/30/17.
Н	31	P-05 (A)	02/09/18	WAP	/ P18024:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/30/17.
Н	31	P-06 (A)	10/07/18	DP	/ P18221:01-26	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 4/30/17.
н	31	P-07 (A)	02/09/18	WAP	/ P18024:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/30/17.
Н	31	P-08 (A)	02/26/18	WAP	/ P18029:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/30/17.
н	31	P-09 (A)	10/07/18	DP	/ P18222:01-26	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 4/30/17.

	TANK OR	ACCESS OPENING			INSPECTION METHOD			
AREA	ANCILLARY	(A OF	R I)	DATE	IDENTIF	ICA [.]	TION NUMBER	REMARKS
Η	31	P-10	(A)	10/07/18	DP	1	P18223:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 4/30/17.
Н	31	P-11	(A)	02/09/18	WAP	1	P18024:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/30/17.
Н	31	P-12	(A)	02/09/18	WAP	1	P18024:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/22/17.
Н	31	P-13	(A)	10/07/18	DP	1	P18224:01-25	Remote visual tank wall inspection revealed no areas of concern since last evaluated on 4/30/17.
н	31	P-14	(A)	02/09/18	WAP	1	P18024:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/22/17.
Н	32	COP 109		03/17/18	DSP	1	P18070:01-07	Inspection of the transfer lines within the cleanout port was satisfactory per T-DS-G-00001.
н	32	COP 110		03/17/18	DSP	1	P18071:01-08	Inspection of the transfer lines within the cleanout port was satisfactory per T-DS-G-00001.
Н	32	COP 111		03/17/18	DSP	1	P18072:01-07	Inspection of the transfer lines within the cleanout port was satisfactory per T-DS-G-00001.
Н	32	A-01	(A)	02/13/18	WAP	1	P18026:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/30/17.
Н	32	A-02	(A)	02/13/18	WAP	1	P18026:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/30/17.
Н	32	A-03	(A)	02/13/18	WAP	1	P18026:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/30/17.
Η	32	A-04	(A)	02/13/18	WAP	1	P18026:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/30/17.
н	32	P-01	(A)	02/13/18	WAP	1	P18026:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/30/17.

ARFA	TANK OR ANCILLARY	ACCESS OPENING	DATE			<u>ON METHOD</u> LION NUMBER	REMARKS
H	32	P-02 (A)	02/13/18	WAP	1	P18026:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/30/17.
н	32	P-03 (A)	09/27/18	DP	1	P18202:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 4/30/17.
н	32	P-04 (A)	02/13/18	WAP	1	P18026:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/30/17.
Н	32	P-05 (A)	02/13/18	WAP	1	P18026:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/30/17.
Н	32	P-06 (A)	09/27/18	DP	1	P18203:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 4/30/17.
Н	32	P-07 (A)	02/13/18	WAP	1	P18026:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/30/17.
Н	32	P-08 (A)	02/13/18	WAP	1	P18026:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/30/17.
Н	32	P-09 (A)	09/27/18	DP	1	P18204:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 4/30/17.
Н	32	P-10 (A)	09/27/18	DP	1	P18205:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 4/30/17.
Н	32	P-11 (A)	02/13/18	WAP	1	P18026:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/30/17.
Н	32	P-12 (A)	02/13/18	WAP	1	P18026:12	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/30/17.
Н	32	P-13 (A)	10/06/18	DP	1	P18219:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 4/30/17.
н	32	P-14 (A)	02/13/18	WAP	1	P18026:13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/30/17.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPEC IDENTIFIC	TION METHOD ATION NUMBER	REMARKS
н	32	P-15 (A)	02/13/18	WAP	/ P18026:14	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/30/17.
F	33	A-01 (A)	02/17/18	WAP	/ P18027:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	33	A-02 (A)	02/17/18	WAP	/ P18027:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	33	A-03 (A)	02/17/18	WAP	/ P18027:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	33	A-04 (A)	02/17/18	WAP	/ P18027:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	33	P-01 (A)	03/12/18	WAP	/ P18054:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	33	P-02 (A)	02/17/18	WAP	/ P18027:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/20/17.
F	33	P-03 (A)	02/18/18	DP	/ P18031:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	33	P-04 (A)	02/17/18	WAP	/ P18027:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	33	P-05 (A)	02/17/18	WAP	/ P18027:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/20/17.
F	33	P-06 (A)	02/18/18	DP	/ P18032:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	33	P-07 (A)	02/17/18	WAP	/ P18027:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	33	P-08 (A)	02/17/18	WAP	/ P18027:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/20/17.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPEC	<u>TION METHOD</u> ATION NUMBER	REMARKS
F	33	P-09 (A)	02/18/18	DP	/ P18033:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	33	P-10 (A)	02/18/18	DP	/ P18034:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	33	P-11 (A)	02/17/18	WAP	/ P18027:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	33	P-12 (A)	02/17/18	WAP	/ P18027:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/20/17.
F	33	P-13 (A)	02/18/18	DP	/ P18035:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	33	P-14 (A)	02/17/18	WAP	 P18027:12	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/20/17.
F	33	P-15 (A)	02/17/18	WAP	 P18027:13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/20/17.
F	33	P-16 (A)	02/17/18	WAP	/ P18027:14	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	34	A-01 (A)	02/17/18	WAP	/ P18028:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	34	A-02 (A)	02/17/18	WAP	/ P18028:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	34	A-03 (A)	02/17/18	WAP	 P18028:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	34	A-04 (A)	02/17/18	WAP	/ P18028:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	34	P-01 (A)	02/17/18	WAP	 P18028:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECT	TION METHOD ATION NUMBER	REMARKS
F	34	P-02 (A)	02/17/18	WAP	P18028:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/30/17.
F	34	P-03 (A)	02/19/18	DP	P18036:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	34	P-04 (A)	02/17/18	WAP	P18028:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	34	P-05 (A)	02/17/18	WAP	P18028:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/30/17.
F	34	P-06 (A)	02/19/18	DP	P18037:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	34	P-07 (A)	02/17/18	WAP	P18028:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	34	P-08 (A)	02/17/18	WAP	P18028:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/30/17.
F	34	P-09 (A)	02/19/18	DP	P18038:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	34	P-10 (A)	02/19/18	DP	P18039:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	34	P-11 (A)	02/17/18	WAP	P18028:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	34	P-12 (A)	02/17/18	WAP	P18028:12-13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/30/17.
F	34	P-13 (A)	02/19/18	DP	P18040:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
F	34	P-14 (A)	02/17/18	WAP	P18028:14	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/30/17.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPEC	CTION METHOD CATION NUMBER	REMARKS
F	34	P-15 (A)	02/17/18	WAP	/ P18028:15	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/30/17.
F	34	P-16 (A)	02/17/18	WAP	/ P18028:16	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/20/17.
Н	35	A-01 (A)	03/15/18	DP	/ P18058:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/6/17.
Н	35	A-01 (A)	04/22/18	CCTV	/ V180189	Inspection verified the condition of the exterior of the sump transfer line from HDB-06 was satisfactory per T- DS-G-00001.
Н	35	A-02 (A)	03/15/18	DP	/ P18059:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/6/17.
Н	35	A-03 (A)	03/15/18	DP	/ P18060:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/6/17.
Н	35	A-04 (A)	12/15/18	DP	/ P18246:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/29/17.
Н	35	P-01 (A)	02/05/18	WAP	/ P18021:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/6/17.
Н	35	P-02 (A)	02/05/18	WAP	/ P18021:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/6/17.
Н	35	P-03 (A)	02/05/18	WAP	/ P18021:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/6/17.
Н	35	P-04 (A)	02/05/18	WAP	/ P18021:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/6/17.
Н	35	P-05 (A)	02/05/18	WAP	/ P18021:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/23/17.
Н	35	P-06 (A)	02/05/18	WAP	/ P18021:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/6/17.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPEC	CAT	<u>ON METHOD</u> TON NUMBER	REMARKS
Н	35	P-07 (A)	02/05/18	WAP	1	P18021:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/23/17.
Н	35	P-08 (A)	02/05/18	WAP	1	P18021:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/6/17.
Н	35	P-09 (A)	02/05/18	WAP	1	P18021:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/23/17.
н	35	P-10 (A)	02/05/18	WAP	1	P18021:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/6/17.
Н	35	P-11 (A)	02/05/18	WAP	1	P18021:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/23/17.
н	35	P-12 (A)	02/05/18	WAP	1	P18021:12	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/6/17.
н	35	P-13 (A)	02/05/18	WAP	1	P18021:13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/23/17.
н	35	P-14 (A)	02/05/18	WAP	1	P18021:14	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/29/17.
н	36	A-01 (A)	04/03/18	DP	1	P18112:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 4/29/17.
н	36	A-02 (A)	04/03/18	DP	1	P18113:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 4/29/17.
Н	36	A-03 (A)	04/03/18	DP	Ι	P18114:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 4/29/17. The conductivity probe was properly positioned.
Н	36	A-04 (A)	04/03/18	DP	1	P18115:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 4/29/17. The conductivity probe was properly positioned.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	<u>INSPE</u> IDENTIF	CTIO ICAT	<u>n method</u> Ion number	REMARKS
Н	36	P-01 (A)	02/10/18	WAP	1	P18023:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/29/17.
Н	36	P-02 (A)	02/10/18	WAP	1	P18023:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/29/17.
Н	36	P-03 (A)	02/10/18	WAP	Ι	P18023:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/29/17.
н	36	P-04 (A)	02/10/18	WAP	Ι	P18023:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/29/17.
Н	36	P-05 (A)	02/10/18	WAP	Ι	P18023:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/9/17.
Н	36	P-06 (A)	02/10/18	WAP	Ι	P18023:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/29/17.
Н	36	P-07 (A)	02/10/18	WAP	1	P18023:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/9/17.
Н	36	P-08 (A)	02/10/18	WAP	1	P18023:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/29/17.
Н	36	P-09 (A)	02/10/18	WAP	1	P18023:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/9/17.
Н	36	P-10 (A)	02/10/18	WAP	1	P18023:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/29/17.
Н	36	P-11 (A)	02/10/18	WAP	1	P18023:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/9/17.
Н	36	P-12 (A)	02/10/18	WAP	Ι	P18023:12	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/29/17.
н	36	P-13 (A)	02/10/18	WAP	1	P18023:13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 7/9/17.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPE IDENTIF	CTION METHOD ICATION NUMBER	REMARKS
Н	36	P-14 (A)	02/10/18	WAP	/ P18023:14	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/29/17.
Н	37	COP 106	03/17/18	DSP	/ P18067:01-07	Inspection of the transfer lines within the cleanout port was satisfactory per T-DS-G-00001.
Н	37	COP 107	03/17/18	DSP	/ P18068:01-07	Inspection of the transfer lines within the cleanout port was satisfactory per T-DS-G-00001.
Н	37	COP 108	03/17/18	DSP	/ P18069:01-09	Inspection of the transfer lines within the cleanout port was satisfactory per T-DS-G-00001.
Н	37	A-01 (A)	04/10/18	DP	/ P18116:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 5/6/17.
Н	37	A-02 (A)	04/10/18	DP	/ P18117:01-25	Remote visual tank wall inspection revealed no areas of concern since last evaluated on 5/6/17. The conductivity probe was properly positioned.
Н	37	A-03 (A)	04/10/18	DP	/ P18118:01-25	Remote visual tank wall inspection revealed no areas of concern since last evaluated on 5/6/17. The conductivity probe was properly positioned.
Н	37	A-04 (A)	04/10/18	DP	/ P18119:01-25	Remote visual tank wall inspection revealed no areas of concern since last evaluated on 5/6/17. The conductivity probe was properly positioned.
Н	37	P-01 (A)	03/04/18	WAP	/ P18045:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/06/17.
Н	37	P-02 (A)	03/04/18	WAP	/ P18045:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/06/17.
Н	37	P-03 (A)	03/04/18	WAP	/ P18045:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/06/17.
Н	37	P-04 (A)	03/04/18	WAP	/ P18045:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/06/17.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPEC	TION METHOD ATION NUMBER	REMARKS
Н	37	P-05 (A)	03/04/18	WAP	/ P18045:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/06/17.
Н	37	P-06 (A)	03/04/18	WAP	/ P18045:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/06/17.
н	37	P-07 (A)	03/04/18	WAP	/ P18045:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/06/17.
Н	37	P-08 (A)	11/10/18	WAP	/ P18240:01-02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/06/17.
Н	37	P-09 (A)	03/04/18	WAP	/ P18045:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/06/17.
Н	37	P-10 (A)	03/04/18	WAP	/ P18045:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/06/17.
Н	37	P-11 (A)	03/04/18	WAP	/ P18045:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/06/17.
Н	37	P-12 (A)	03/04/18	WAP	/ P18045:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/06/17.
Н	37	P-13 (A)	03/04/18	WAP	/ P18045:12	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/06/17.
н	37	P-14 (A)	03/04/18	WAP	/ P18045:13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/06/17.
Н	38	A-01 (A)	04/21/18	DP	/ P18132:01-25	Remote visual tank wall inspection revealed no areas of concern since last evaluated on 5/5/17.
Н	38	A-01 (A)	04/22/18	CCTV	 V180188	Inspection verified the condition of the exterior of the sump transfer line from HDB-07 was satisfactory per T- DS-G-00001.
н	38	A-02 (A)	04/21/18	DP	/ P18133:01-26	Remote visual tank wall inspection revealed no areas of concern since last evaluated on 5/5/17. The conductivity probe was properly positioned.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTI IDENTIFICA	<u>on method</u> Tion Number	REMARKS
Н	38	A-03 (A)	04/21/18	DP /	P18134:01-24	Remote visual tank wall inspection revealed no areas of concern since last evaluated on 5/5/17. The conductivity probe was properly positioned.
Н	38	A-04 (A)	04/21/18	DP /	P18135:01-26	Remote visual tank wall inspection revealed no areas of concern since last evaluated on 5/5/17. The conductivity probe was properly positioned.
Н	38	P-01 (A)	02/18/18	WAP /	P18030:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/05/17.
Н	38	P-02 (A)	02/18/18	WAP /	P18030:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/05/17.
Н	38	P-03 (A)	12/13/18	WAP /	P18247:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/05/17.
Н	38	P-04 (A)	02/18/18	WAP /	P18030:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/05/17.
н	38	P-05 (A)	02/18/18	WAP /	P18030:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/05/17.
Н	38	P-07 (A)	02/18/18	WAP /	P18030:05-06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/05/17.
н	38	P-08 (A)	02/18/18	WAP /	P18030:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/05/17.
Н	38	P-09 (A)	02/18/18	WAP /	P18030:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/05/17.
н	38	P-10 (A)	02/18/18	WAP /	P18030:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/13/17.
н	38	P-11 (A)	02/18/18	WAP /	P18030:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/13/17.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECT	ION METHOD ATION NUMBER	REMARKS
Η	38	P-12 (A)	02/18/18	WAP /	P18030:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/13/17.
Н	38	P-13 (A)	02/18/18	WAP /	P18030:12	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/13/17.
Н	38	P-14 (A)	02/18/18	WAP /	P18030:13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/13/17.
Н	39	A-01 (A)	02/11/18	WAP /	P18025:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/3/17.
Н	39	A-01 (A)	08/25/18	DP /	P18188:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/11/18.
Н	39	A-02 (A)	02/11/18	WAP /	P18025:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/3/17.
Н	39	A-02 (A)	08/25/18	DP /	P18189:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/11/18.
Н	39	A-02 (A)	08/25/18	DP /	P18189:21	The conductivity probe is properly positioned.
Н	39	A-03 (A)	02/11/18	WAP /	P18025:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/3/17.
Н	39	A-03 (A)	08/25/18	DP /	P18190:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/11/18.
Н	39	A-04 (A)	02/11/18	WAP /	P18025:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/3/17.
Н	39	A-04 (A)	08/25/18	DP /	P18191:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/11/18.
Н	39	A-04 (A)	08/25/18	DP /	P18191:21	The conductivity probe is properly positioned.
Н	39	P-01 (A)	02/11/18	WAP /	P18025:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/3/17.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPE IDENTIF	CTIO ICAT	<u>n method</u> Ion number	REMARKS
Н	39	P-02 (A)	02/11/18	WAP	1	P18025:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/3/17.
Н	39	P-03 (A)	02/11/18	WAP	1	P18025:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/3/17.
Н	39	P-04 (A)	02/11/18	WAP	1	P18025:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/3/17.
Н	39	P-05 (A)	02/11/18	WAP	1	P18025:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/3/17.
Н	39	P-06 (A)	02/11/18	WAP	Ι	P18025:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/3/17.
Н	39	P-07 (A)	02/11/18	WAP	Ι	P18025:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/3/17.
Н	39	P-08 (A)	02/11/18	WAP	1	P18025:12	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/3/17.
Н	39	P-09 (A)	02/11/18	WAP	1	P18025:13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/3/17.
Н	39	P-10 (A)	02/11/18	WAP	Ι	P18025:14	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/3/17.
Н	39	P-11 (A)	02/11/18	WAP	1	P18025:15	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/7/17.
Н	39	P-12 (A)	02/11/18	WAP	1	P18025:16	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/7/17.
Н	39	P-13 (A)	02/11/18	WAP	1	P18025:17	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/7/17.
н	39	P-14 (A)	02/11/18	WAP	1	P18025:18	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/7/17.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPE IDENTIFI		<u>ON METHOD</u> TON NUMBER	REMARKS_
н	40	VB	03/20/18	CCTV	I	V180120	Inspection of the transfer lines within the cleanout port was satisfactory per SW11.6-SVP-45, Section 7.9.
Н	40	A-01 (A)	03/08/18	WAP	Ι	P18056:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/29/17.
Н	40	A-02 (A)	03/08/18	WAP	Ι	P18056:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/29/17.
Н	40	A-03 (A)	03/08/18	WAP	1	P18056:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/29/17.
Н	40	A-04 (A)	03/08/18	WAP	1	P18056:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/29/17.
Н	40	P-01 (A)	03/08/18	WAP	1	P18056:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/5/17.
Н	40	P-02 (A)	09/23/18	DP	1	P18196:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/29/17.
Н	40	P-03 (A)	03/08/18	WAP	1	P18056:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/5/17.
Н	40	P-04 (A)	03/08/18	WAP	1	P18056:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/5/17.
Н	40	P-05 (A)	09/23/18	DP	Ι	P18197:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/5/17.
Н	40	P-05 (A)	09/23/18	DP	1	P18198:01-25	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last inspected on 5/25/14.
Η	40	P-06 (A)	03/08/18	WAP	1	P18056:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/5/17.
Н	40	P-07 (A)	03/08/18	WAP	Ι	P18056:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/5/17.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPEC	TION METHOD CATION NUMBER	REMARKS
Η	40	P-08 (A)	09/23/18	DP	/ P18199:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/5/17.
Н	40	P-09 (A)	03/08/18	WAP	/ P18056:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/29/17.
Н	40	P-10 (A)	03/08/18	WAP	/ P18056:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/5/17.
Н	40	P-11 (A)	09/23/18	DP	/ P18200:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/5/17.
Н	40	P-12 (A)	03/08/18	WAP	/ P18056:12	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/5/17.
Н	40	P-13 (A)	03/08/18	WAP	/ P18056:13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/29/17.
Н	40	P-14 (A)	09/23/18	DP	/ P18201:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/5/17.
Н	41	A-01 (A)	06/02/18	DP	/ P18164:01-27	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/4/17.
Н	41	A-02 (A)	06/02/18	DP	/ P18165:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/4/17.
Н	41	A-03 (A)	06/02/18	DP	J P18166:01-26	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/4/17. The conductivity probe was properly positioned on the annulus floor.
Н	41	A-04 (A)	06/02/18	DP	/ P18167:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/4/17. The conductivity probe was properly positioned on the annulus floor.
н	41	P-01 (A)	02/03/18	WAP	/ P18018:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/4/17.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPE IDENTIF	<u>CTIO</u> ICAT	<u>n method</u> Ion number	REMARKS
Η	41	P-02 (A)	02/03/18	WAP	1	P18018:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/4/17.
Н	41	P-03 (A)	02/03/18	WAP	1	P18018:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/4/17.
Н	41	P-04 (A)	02/03/18	WAP	1	P18018:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 3/4/17.
Н	41	P-05 (A)	02/03/18	WAP	1	P18018:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/30/16.
Н	41	P-06 (A)	02/03/18	WAP	Ι	P18018:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/30/16.
Н	41	P-07 (A)	02/03/18	WAP	Ι	P18018:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 6/1/16.
Н	41	P-08 (A)	02/03/18	WAP	Ι	P18018:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/30/16.
Н	41	P-09 (A)	02/03/18	WAP	1	P18018:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/30/16.
Н	41	P-10 (A)	02/03/18	WAP	Ι	P18018:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/21/17.
Н	41	P-11 (A)	02/03/18	WAP	Ι	P18018:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/21/17.
Н	41	P-12 (A)	02/03/18	WAP	1	P18018:12	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/21/17.
н	41	P-13 (A)	02/03/18	WAP	Ι	P18018:13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/21/17.
Н	41	P-14 (A)	02/03/18	WAP	1	P18018:14	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/21/17.
	TANK OR	IK OR ACCESS OPENING		INSPE	CTION METHOD	<u>.</u>	
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AREA	ANCILLARY	(A OR I)	DATE	IDENTIF	ICATION NUMB	ER REMARKS	
Н	42	A-01 (A)	03/16/18	WAP	/ P18061:0	 Remote visual tank wall inspection revealed no areas of concern since last inspected on 9/1/17. 	
Н	42	A-02 (A)	03/16/18	WAP	/ P18061:0	2 Remote visual tank wall inspection revealed no areas of concern since last inspected on 9/1/17.	
Н	42	A-03 (A)	03/16/18	WAP	/ P18061:0	3 Remote visual tank wall inspection revealed no areas of concern since last inspected on 9/1/17.	
Н	42	A-04 (A)	03/16/18	WAP	/ P18061:0	4 Remote visual tank wall inspection revealed no areas of concern since last inspected on 9/1/17.	
Н	42	P-01 (A)	03/16/18	WAP	/ P18061:0	5 Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/7/17.	
Н	42	P-02 (A)	03/16/18	WAP	/ P18061:0	6 Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/7/17.	
Н	42	P-03 (A)	07/22/18	DP	/ P18173:01-	27 Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/7/17.	
Н	42	P-03 (A)	07/22/18	DP	/ P18174:01-	25 Remote visual inspection of the secondary vessel wall revealed no areas of concern since last inspected on 5/22/14.	
Н	42	P-04 (A)	03/16/18	WAP	/ P18061:0	7 Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/7/17.	
н	42	P-05 (A)	03/16/18	WAP	/ P18061:0	8 Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/7/17.	
Н	42	P-06 (A)	07/22/18	DP	/ P18175:01-	25 Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/08/17.	
Н	42	P-07 (A)	07/24/18	DP	/ P18182:01-	28 Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/08/17.	
н	42	P-08 (A)	03/16/18	WAP	/ P18061:0	9 Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/08/17.	

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPEC	TION METHOD CATION NUMBER	REMARKS
Н	42	P-09 (A)	03/16/18	WAP	/ P18061:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/08/17.
Н	42	P-10 (A)	03/16/18	WAP	/ P18061:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/08/17.
Н	42	P-11 (A)	07/24/18	DP	/ P18183:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/08/17.
н	42	P-12 (A)	03/16/18	WAP	/ P18061:14	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/08/17.
н	42	P-13 (A)	03/16/18	WAP	/ P18061:12	Remote visual tank wall inspection revealed no area of concern since last inspected on 9/1/17.
н	42	P-14 (A)	03/16/18	WAP	/ P18061:13	Remote visual tank wall inspection revealed no area of concern since last inspected on 9/1/17.
н	43	A-01 (A)	02/04/18	WAP	/ P18020:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/15/17.
Н	43	A-01 (A)	04/02/18	DP	/ P18099:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 2/15/17.
н	43	A-02 (A)	02/04/18	WAP	/ P18020:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/15/17.
Н	43	A-02 (A)	04/02/18	DP	/ P18100:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 2/15/17. The conductivity probe was properly positioned.
н	43	A-03 (A)	02/04/18	WAP	/ P18020:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/15/17.
н	43	A-03 (A)	04/02/18	DP	/ P18101:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 2/15/17. The conductivity probe was properly positioned.

	TANK OR	ACCESS OPENING			INSPECTION METHOD			
AREA	ANCILLARY	(A OR	l)	DATE	IDENTIF	ICA ⁻	TION NUMBER	REMARKS
Н	43	A-04	(A)	02/04/18	WAP	1	P18020:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/15/17.
Н	43	A-04	(A)	04/02/18	DP	Ι	P18102:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 2/15/17. The conductivity probe was properly positioned.
н	43	P-01	(A)	03/08/18	WAP	1	P18046:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/15/17.
н	43	P-02	(A)	03/08/18	WAP	1	P18046:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/15/17.
Н	43	P-03	(A)	03/08/18	WAP	1	P18046:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/7/17.
Н	43	P-04	(A)	03/08/18	WAP	1	P18046:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/15/17.
н	43	P-05	(A)	03/08/18	WAP	1	P18046:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/15/17.
Н	43	P-06	(A)	03/08/18	WAP	Ι	P18046:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/15/17.
н	43	P-07	(A)	03/08/18	WAP	1	P18046:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/15/17.
Н	43	P-08	(A)	03/08/18	WAP	1	P18046:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/15/17.
н	43	P-09	(A)	03/08/18	WAP	1	P18046:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/15/17.
Н	43	P-10	(A)	03/08/18	WAP	1	P18046:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 6/8/17.
н	43	P-11	(A)	03/08/18	WAP	Ι	P18046:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 6/8/17.

	TANK OR	ACCESS OPENING		INSPECTION METHOD			
AREA	ANCILLARY	(A OR I)	DATE	IDENTIF		TION NUMBER	REMARKS
Н	43	P-12 (A)	03/08/18	WAP	1	P18046:12	Remote visual tank wall inspection revealed no areas of concern since last inspected on 6/8/17.
Н	43	P-13 (A)	03/08/18	WAP	1	P18046:13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 6/8/17.
Н	43	P-14 (A)	03/08/18	WAP	1	P18046:14	Remote visual tank wall inspection revealed no areas of concern since last inspected on 6/8/17.
F	44	A-01 (A)	01/30/18	WAP	1	P18014:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/18/17.
F	44	A-02 (A)	01/30/18	WAP	1	P18014:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/18/17.
F	44	A-03 (A)	01/30/18	WAP	1	P18014:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/18/17.
F	44	A-04 (A)	01/30/18	WAP	1	P18014:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/18/17.
F	44	P-01 (A)	02/19/18	DP	1	P18041:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	44	P-01 (A)	02/19/18	DP	1	P18042:01-25	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last inspected on 4/27/14.
F	44	P-02 (A)	02/19/18	DP	1	P18043:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	44	P-03 (A)	01/30/18	WAP	1	P18014:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	44	P-04 (A)	01/30/18	WAP	1	P18014:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	44	P-05 (A)	01/30/18	WAP	1	P18014:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPEC	TION METHOD ATION NUMBER	REMARKS
F	44	P-06 (A)	01/30/18	WAP	/ P18014:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	44	P-07 (A)	01/30/18	WAP	/ P18014:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	44	P-08 (A)	02/19/18	DP	/ P18044:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	44	P-09 (A)	01/30/18	WAP	/ P18014:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/18/17.
F	44	P-10 (A)	01/30/18	WAP	/ P18014:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	44	P-11 (A)	01/30/18	WAP	/ P18014:12	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	44	P-12 (A)	01/30/18	WAP	/ P18014:13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	44	P-13 (A)	01/30/18	WAP	/ P18014:14	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	44	P-14 (A)	01/30/18	WAP	/ P18014:15	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	45	A-01 (A)	01/30/18	WAP	/ P18015:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/20/17.
F	45	A-02 (A)	01/30/18	WAP	/ P18015:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/20/17.
F	45	A-03 (A)	01/30/18	WAP	/ P18015:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/20/17.
F	45	A-04 (A)	01/30/18	WAP	/ P18015:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/20/17.

	TANK OR	ACCESS OPENING			INSPECTION METHOD			
AREA	ANCILLARY	(A OR	R I)	DATE	IDENTIF	ICA ⁻		REMARKS_
F	45	P-01	(A)	04/13/18	DP	1	P18120:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 2/16/17.
F	45	P-01	(A)	04/13/18	DP	1	P18121:01-24	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last evaluated on 4/27/14.
F	45	P-02	(A)	04/13/18	DP	1	P18122:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 2/16/17.
F	45	P-03	(A)	01/30/18	WAP	1	P18015:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	45	P-04	(A)	01/30/18	WAP	1	P18015:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	45	P-05	(A)	01/30/18	WAP	1	P18015:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	45	P-06	(A)	01/30/18	WAP	1	P18015:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	45	P-07	(A)	01/30/18	WAP	1	P18015:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	45	P-08	(A)	04/13/18	DP	1	P18123:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 2/16/17.
F	45	P-09	(A)	01/30/18	WAP	1	P18015:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/20/17.
F	45	P-10	(A)	01/30/18	WAP	1	P18015:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	45	P-11	(A)	01/30/18	WAP	1	P18015:12	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	45	P-12	(A)	01/30/18	WAP	1	P18015:13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.

	TANK OR ANCILLARY	NK OR ACCESS OPENING		INSPECTION METHOD			
AREA		(A OR I)	DATE	IDENTIF	ICAT	ION NUMBER	REMARKS
F	45	P-13 (A)	01/30/18	WAP	I	P18015:14	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	45	P-14 (A)	01/30/18	WAP	I	P18015:15	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	46	A-01 (A)	02/02/18	WAP	I	P18017:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/27/17.
F	46	A-02 (A)	02/02/18	WAP	1	P18017:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/27/17.
F	46	A-03 (A)	02/02/18	WAP	Ι	P18017:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/27/17.
F	46	A-04 (A)	02/02/18	WAP	Ι	P18017:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/27/17.
F	46	P-01 (A)	04/14/18	DP	Ι	P18124:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 2/16/17.
F	46	P-01 (A)	04/14/18	DP	1	P18125:01-22	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last evaluated on 4/29/14.
F	46	P-02 (A)	04/14/18	DP	Ι	P18126:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 2/16/17.
F	46	P-03 (A)	02/02/18	WAP	Ι	P18017:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	46	P-04 (A)	02/02/18	WAP	I	P18017:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	46	P-05 (A)	02/02/18	WAP	I	P18017:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	46	P-06 (A)	02/02/18	WAP	Ι	P18017:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPEC IDENTIFIC	TION METHOD ATION NUMBER	REMARKS
F	46	P-07 (A)	02/02/18	WAP	/ P18017:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	46	P-08 (A)	04/14/18	DP	/ P18127:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 2/16/17.
F	46	P-09 (A)	02/02/18	WAP	/ P18017:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/27/17.
F	46	P-10 (A)	02/02/18	WAP	/ P18017:11-12	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	46	P-11 (A)	02/02/18	WAP	/ P18017:13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	46	P-12 (A)	02/02/18	WAP	/ P18017:14-15	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	46	P-13 (A)	02/02/18	WAP	/ P18017:16	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	46	P-14 (A)	02/02/18	WAP	/ P18017:17	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/16/17.
F	47	A-01 (A)	02/03/18	WAP	/ P18019:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/29/17.
F	47	A-02 (A)	02/03/18	WAP	/ P18019:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/29/17.
F	47	A-03 (A)	02/03/18	WAP	/ P18019:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/29/17.
F	47	A-04 (A)	02/03/18	WAP	/ P18019:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/29/17.
F	47	P-01 (A)	04/16/18	DP	/ P18128:01-25	Remote visual tank wall inspection revealed no areas of concern since last evaluated on 2/20/17.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPEC IDENTIFI		<u>ON METHOD</u> TION NUMBER	REMARKS
F	47	P-01 (A)	04/16/18	DP	1	P18129:01-25	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last evaluated on 4/29/14.
F	47	P-02 (A)	04/16/18	DP	Ι	P18130:01-26	Remote visual tank wall inspection revealed no areas of concern since last evaluated on 2/20/17.
F	47	P-03 (A)	02/03/18	WAP	Ι	P18019:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/20/17.
F	47	P-04 (A)	02/03/18	WAP	Ι	P18019:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/20/17.
F	47	P-05 (A)	02/03/18	WAP	Ι	P18019:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/20/17.
F	47	P-06 (A)	02/03/18	WAP	1	P18019:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/20/17.
F	47	P-07 (A)	02/03/18	WAP	Ι	P18019:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/20/17.
F	47	P-08 (A)	02/03/18	WAP	1	P18019:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/29/17.
F	47	P-09 (A)	04/16/18	DP	1	P18131:01-25	Remote visual inspection of the tank wall revealed no areas of concern since last evaluated on 2/20/17.
F	47	P-10 (A)	02/03/18	WAP	1	P18019:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/20/17.
F	47	P-11 (A)	02/03/18	WAP	1	P18019:12	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/20/17.
F	47	P-12 (A)	02/03/18	WAP	Ι	P18019:13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/20/17.
F	47	P-13 (A)	02/03/18	WAP	I	P18019:14	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/20/17.

	TANK OR ANCILLARY	ANK OR <u>ACCESS OPENING</u>	DATE	INSPECTION METHOD			
AREA		(A OR I)			ICAT		REMARKS
F	47	P-14 (A)	02/03/18	WAP	I	P18019:15	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/20/17.
н	48	A-01 (A)	01/07/18	DP	Ι	P18003:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/23/17.
н	48	A-01 (A)	05/01/18	WAP	Ι	P18143:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/7/18.
н	48	A-02 (A)	01/07/18	DP	1	P18004:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/23/17. The conductivity probe was properly positioned.
н	48	A-02 (A)	05/01/18	WAP	I	P18143:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/7/18.
Н	48	A-03 (A)	01/07/18	DP	1	P18005:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/23/17. The conductivity probe was properly positioned.
Н	48	A-03 (A)	04/22/18	CCTV	1	V180187	Inspection verified the condition of the exterior of the sump transfer line jacket from LDB Drain Cell was satisfactory per T-DS-G-00019.
Н	48	A-03 (A)	05/01/18	WAP	Ι	P18143:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/7/18.
Н	48	A-04 (A)	01/07/18	DP	I	P18006:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/23/17. The conductivity probe was properly positioned.
Н	48	A-04 (A)	05/01/18	WAP	I	P18143:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/7/18.
Н	48	P-01 (A)	01/06/18	WAP	Ι	P18002:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/23/17.
н	48	P-01 (A)	05/01/18	WAP	I	P18143:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/6/18.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPEC	TION METHOD ATION NUMBER	REMARKS
Н	48	P-02 (A)	01/06/18	WAP	/ P18002:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/23/17.
Н	48	P-02 (A)	05/01/18	WAP	/ P18143:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/6/18.
Н	48	P-03 (A)	01/07/18	DP	/ P18007:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/23/17.
н	48	P-03 (A)	05/01/18	WAP	/ P18143:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/7/18.
н	48	P-04 (A)	01/05/18	WAP	/ P18001:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/23/17.
Н	48	P-04 (A)	05/01/18	WAP	/ P18143:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/5/18.
Н	48	P-05 (A)	01/05/18	WAP	/ P18001:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/23/17.
Н	48	P-05 (A)	05/01/18	WAP	/ P18143:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/5/18.
Н	48	P-06 (A)	01/05/18	WAP	/ P18001:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/23/17.
Н	48	P-06 (A)	05/01/18	WAP	/ P18143:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/5/18.
н	48	P-07 (A)	01/05/18	WAP	/ P18001:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/23/17.
Η	48	P-07 (A)	05/01/18	WAP	/ P18143:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/5/18.
н	48	P-08 (A)	01/05/18	WAP	/ P18001:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/12/17.

	TANK OR ANCILLARY	ACCESS OPENING		INSPECTION METHOD			
AREA		(A OR I)	DATE	IDENTIF		TION NUMBER	REMARKS
Н	48	P-08 (A)	05/01/18	WAP	1	P18143:12	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/5/18.
Н	48	P-09 (A)	01/05/18	WAP	1	P18001:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/12/17.
Н	48	P-09 (A)	05/01/18	WAP	1	P18143:13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/5/18.
Н	48	P-10 (A)	01/05/18	WAP	1	P18001:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/12/17.
Н	48	P-10 (A)	05/01/18	WAP	1	P18143:14	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/5/18.
Н	48	P-11 (A)	01/05/18	WAP	1	P18001:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/12/17.
Н	48	P-11 (A)	05/01/18	WAP	1	P18143:15	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/5/18.
Н	48	P-12 (A)	01/05/18	WAP	1	P18001:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/23/17.
Н	48	P-12 (A)	05/01/18	WAP	1	P18143:16	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/5/18.
Н	48	P-13 (A)	01/06/18	WAP	1	P18002:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/23/17.
н	48	P-13 (A)	05/01/18	WAP	1	P18143:17	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/6/18.
Н	48	P-14 (A)	01/06/18	WAP	1	P18002:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/23/17.
Н	48	P-14 (A)	01/07/18	DP	1	P18008:01-25	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last inspected on 10/23/15.

	TANK OR	ANK OR ACCESS OPENING		INSPE	стю	ON METHOD	
AREA	ANCILLARY	(A OR I)	DATE	IDENTIF			REMARKS
Н	48	P-14 (A)	05/01/18	WAP	Ι	P18143:18	Remote visual tank wall inspection revealed no areas of concern since last inspected on 1/6/18.
Н	49	VB	01/31/18	CCTV	I	V180034	Inspection of stainless steel liner, jumpers and valves was satisfactory per SW11.6-SVP-45, section 7.9.
Н	49	A-01 (A)	03/18/18	WAP	Ι	P18062:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/23/17.
Н	49	A-02 (A)	03/18/18	WAP	1	P18062:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/23/17.
Н	49	A-03 (A)	03/18/18	WAP	Ι	P18062:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/23/17.
Н	49	A-04 (A)	03/18/18	WAP	Ι	P18062:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/23/17.
Н	49	P-01 (A)	06/24/18	DP	I	P18169:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/3/17.
Н	49	P-01 (A)	06/24/18	DP	1	P18170:01-25	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last inspected on 5/20/14.
н	49	P-02 (A)	06/24/18	DP	1	P18171:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/3/17.
Н	49	P-04 (A)	12/06/18	WAP	Ι	P18245:01-02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/03/17.
н	49	P-05 (A)	03/18/18	WAP	I	P18062:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/3/17.
Н	49	P-06 (A)	03/18/18	WAP	I	P18062:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/3/17.
н	49	P-07 (A)	03/18/18	WAP	Ι	P18062:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/3/17.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPEC	CTION METHOD CATION NUMBER	REMARKS
Н	49	P-08 (A)	03/18/18	WAP	/ P18062:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/23/17.
Н	49	P-09 (A)	06/24/18	DP	/ P18172:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/3/17.
Н	49	P-10 (A)	03/18/18	WAP	/ P18062:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/3/17.
н	49	P-11 (A)	03/18/18	WAP	/ P18062:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/3/17.
Н	49	P-12 (A)	03/18/18	WAP	/ P18062:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/3/17.
н	49	P-13 (A)	03/18/18	WAP	/ P18062:12	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/3/17.
Н	49	P-14 (A)	03/18/18	WAP	/ P18062:13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 5/3/17.
Н	50	VB	04/23/18	CCTV	 V180191	Inspection of the stainless steel liner, jumpers and valves was satisfactory per SW11.6-SVP-45, Section 7.9.
н	50	A-01 (A)	07/22/18	DP	/ P18176:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/07/17. The conductivity probe was properly positioned.
Н	50	A-02 (A)	07/22/18	DP	/ P18177:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/07/17. The conductivity probe was properly positioned.
Н	50	A-02 (A)	09/19/18	DP	/ P18195:01-24	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last inspected on 3/06/08.
Н	50	A-03 (A)	07/22/18	DP	/ P18178:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/04/17. The conductivity probe was properly positioned.

	TANK OR	ACCESS OPENING (A OR I)		DATE	INSPECTION METHOD IDENTIFICATION NUMBER			REMARKS
AREA	ANCILLARY							
Н	50	A-04	(A)	07/22/18	DP	1	P18179:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/07/17.
Н	50	P-01	(A)	02/06/18	WAP	1	P18022:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/19/17.
н	50	P-01	(A)	09/22/18	DP	1	P18192:01-26	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/06/18.
Н	50	P-02	(A)	02/06/18	WAP	1	P18022:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/19/17.
н	50	P-02	(A)	09/22/18	DP	1	P18193:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/06/18.
Н	50	P-03	(A)	02/06/18	WAP	1	P18022:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/19/17.
Н	50	P-04	(A)	02/06/18	WAP	1	P18022:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/19/17.
н	50	P-05	(A)	02/06/18	WAP	1	P18022:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/19/17.
Н	50	P-06	(A)	02/06/18	WAP	1	P18022:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/19/17.
Н	50	P-07	(A)	02/06/18	WAP	1	P18022:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/19/17.
н	50	P-08	(A)	07/22/18	DP	1	P18180:01-26	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/04/17.
Н	50	P-08	(A)	07/22/18	DP	1	P18181:01-25	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last inspected on 8/04/17.
н	50	P-09	(A)	02/06/18	WAP	1	P18022:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/19/17.

				DATE	INSPECTION METHOD			REMARKS
			(1)					
н	50	P-09	(A)	09/22/18	DP	1	P18194:01-25	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/06/18.
н	50	P-10	(A)	02/06/18	WAP	1	P18022:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/19/17.
н	50	P-11	(A)	02/06/18	WAP	1	P18022:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/19/17.
Н	50	P-12	(A)	02/06/18	WAP	1	P18022:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/19/17.
Н	50	P-13	(A)	02/06/18	WAP	1	P18022:12	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/19/17.
н	50	P-14	(A)	02/06/18	WAP	1	P18022:13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 2/19/17.
Н	51	Drain Valve Box		08/22/18	CCTV	1	V180593	Inspection of the stainless steel liner, cover, jumpers and valves was satisfactory per SW11.6-SVP-45, Section 7.9.
Н	51	VB		10/14/18	CCTV	1	V180754	Inspection of the stainless steel liner jumpers and valves was satisfactory per SW11.6-SVP-45, Section 7.9.
н	51	A-01	(A)	06/02/18	WAP	1	P18168:01	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/28/17.
н	51	A-02	(A)	06/02/18	WAP	1	P18168:02	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/28/17.
Н	51	A-03	(A)	06/02/18	WAP	1	P18168:03	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/28/17.
Н	51	A-04	(A)	06/02/18	WAP	1	P18168:04	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/28/17.
н	51	P-01	(A)	08/19/18	DP	1	P18184:01-26	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/17/17.

	TANK OR	ACCESS OPENING	DATE	INSPECTION METHOD			
AREA	ANCILLARY	(A OR I)		IDENTIFI	CA		REMARKS
Н	51	P-01 (A)	08/19/18	DP	Ι	P18185:01-23	Remote visual inspection of the secondary vessel wall revealed no areas of concern since last inspected on 5/21/14.
н	51	P-02 (A)	08/19/18	DP	1	P18186:01-26	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/17/17.
н	51	P-03 (A)	06/02/18	WAP	1	P18168:05	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/17/17.
Н	51	P-04 (A)	06/02/18	WAP	1	P18168:06	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/17/17.
н	51	P-05 (A)	06/02/18	WAP	1	P18168:07	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/17/17.
Н	51	P-06 (A)	06/02/18	WAP	1	P18168:08	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/17/17.
н	51	P-07 (A)	06/02/18	WAP	1	P18168:09	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/17/17.
н	51	P-08 (A)	06/02/18	WAP	1	P18168:10	Remote visual tank wall inspection revealed no areas of concern since last inspected on 8/28/17.
н	51	P-09 (A)	08/19/18	DP	1	P18187:01-26	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/17/17.
н	51	P-10 (A)	06/02/18	WAP	1	P18168:11	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/17/17.
н	51	P-11 (A)	06/02/18	WAP	1	P18168:12	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/17/17.
Н	51	P-12 (A)	06/02/18	WAP	1	P18168:13	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/17/17.
н	51	P-13 (A)	06/02/18	WAP	1	P18168:14	Remote visual tank wall inspection revealed no areas of concern since last inspected on 4/17/17.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPE IDENTIFI	CTIO CATI	<u>N METHOD</u> ON NUMBER	REMARKS
Н	96	VB	06/15/18	CCTV	Ι	V180308	Inspection of the stainless steel liner, jumpers and valves was satisfactory per SW11.6-SVP-45, Section 7.9.
Н	96	VB	12/05/18	CCTV	Ι	V180913	Inspection of the stainless steel liner, jumpers and valves was satisfactory per SW11.6-SVP-45, Section 7.9.
Н	DB-02	NE	03/26/18	CCTV	Ι	V180141	Inspection of the cell covers, stainless steel liner, valves and jumpers was satisfactory per SW11.6-SVP-45, Section 7.9.
Н	DB-02	SW	03/26/18	ССТV	Ι	V180141	Inspection of the cell covers, stainless steel liner, valves and jumpers was satisfactory per SW11.6-SVP-45, Section 7.9.
F	DB-03	North	07/21/18	ССТV	Ι	V180461	Inspection of the stainless steel liner, cell cover, valves and jumpers was satisfactory per SW11.6-SVP-45, Section 7.9.
F	DB-03	South	07/21/18	CCTV	Ι	V180461	Inspection of the stainless steel liner, cell cover, valves and jumpers was satisfactory per SW11.6-SVP-45, Section 7.9.
F	DB-04	FWB	09/03/18	CCTV	1	V180635	Inspection was satisfactory per T-DS- G-00001.
F	DB-04	NW	03/02/18	CCTV	1	V180090	Inspection of the cell covers, stainless steel liner, valves and jumpers was satisfactory per SW11.6-SVP-45, Section 7.9.
Н	DB-05	FWB	03/18/18	CCTV	1	V180118	Inspection was satisfactory per T-DS- G-00001.
н	DB-05	Sump	03/03/18	ССТV	Ι	V180091	Inspection of the cell covers, stainless steel liner, valves and jumpers was satisfactory per SW11.6-SVP-45, Section 7.9.
Н	DB-06	FWB	03/18/18	CCTV	1	V180117	Inspection was satisfactory per T-DS- G-00001.
Н	DB-06	NE	03/03/18	CCTV	Ι	V180092	Inspection of the cell covers, stainless steel liner, jumpers, valves and piping was satisfactory per SW11.6-SVP-45, Section 7.9.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPE IDENTIF	<u>CTIO</u> ICATI	N METHOD ON NUMBER	REMARKS_
Н	DB-07	FWB	09/23/18	CCTV	1	V180683	Inspection was satisfactory per T-DS- G-00001.
Н	DB-07	NE	04/08/18	CCTV	1	V180161	Inspection of the cell covers, stainless steel liner, jumpers, valves and piping was satisfactory per SW11.6-SVP-45, Section 7.9.
Н	DB-07	SW	04/08/18	CCTV	1	V180161	Inspection of the cell covers, stainless steel liner, jumpers, valves and piping was satisfactory per SW11.6-SVP-45, Section 7.9.
Н	DB-08	FWB	09/16/18	CCTV	1	V180664	Inspection was satisfactory per T-DS- G-00001.
Н	DB-08	NW	03/22/18	CCTV	Ι	V180126	Inspection of the cell covers, stainless steel liner, valves, jumpers and piping was satisfactory per SW11.6-SVP-45, Section 7.9.
Н	DB-08	SW	03/22/18	CCTV	Ι	V180126	Inspection of the cell covers, stainless steel liner, valves, jumpers and piping was satisfactory per SW11.6-SVP-45, Section 7.9.
Н	EVAP-16	NE	07/11/18	CCTV	1	V180430	Inspection of the cell covers, stainless steel liner, jumpers, valves and piping was satisfactory per SW11.6-SVP-45, Section 4.6.
Н	EVAP-16	SW	07/09/18	CCTV	1	V180416	Inspection of the cell covers, stainless steel liner, jumpers, valves and piping was satisfactory per SW11.6-SVP-45, Section 4.6.
Н	EVAP-25	GDL Cell	10/02/18	CCTV	1	V180722	Inspection was satisfactory per SW11.6-SVP-45, Section 4.6.
Н	EVAP-25	NE	05/25/18	CCTV	Ι	V180246	Inspection of the cell covers, stainless steel liner, jumpers and piping was satisfactory per SW11.6- SVP-45, Section 4.6.
Н	EVAP-25	SW	05/25/18	CCTV	1	V180246	Inspection of the cell covers, stainless steel liner, jumpers and piping was satisfactory per SW11.6- SVP-45, Section 4.6.

Summary	of 2018	Inspections
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AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER		<u>N METHOD</u> ON NUMBER	REMARKS
Η	EVAP-25 Pot	S-06	11/29/18	CCTV	1	V180893	Inspection of the interior of the vessel is essentially clean and conditions observed are consistent with normal operations. Details are documented in SRR-LWE-2018 -00131.
Н	IAL	IT-V-42	10/02/18	CCTV	Ι	V180720	Inspection of the cell covers, stainless steel liner, jumpers and valves was satisfactory per SW11.6- SVP-45, Section 7.9.
Н	IAL	IT-V-45	10/02/18	CCTV	1	V180720	Inspection of the cell covers, stainless steel liner, jumpers and valves was satisfactory per SW11.6- SVP-45, Section 7.9.
н	PP-02	NE	09/29/18	CCTV	Ι	V180709	Inspection was satisfactory per SW11.6-SVP-45, Section 7.9.
н	PP-02	SW	09/29/18	CCTV	Ι	V180709	Inspection was satisfactory per SW11.6-SVP-45, Section 7.9.
Н	PP-03	NE	09/28/18	CCTV	1	V180707	Inspection was satisfactory per SW11.6-SVP-45, Section 7.9.
Η	PP-03	SW	09/28/18	CCTV	Ι	V180707	Inspection was satisfactory per SW11.6-SVP-45, Section 7.9.
Η	PP-04	NE	09/28/18	CCTV	1	V180704	Inspection was satisfactory per SW11.6-SVP-45, Section 7.9.
Н	PP-04	SW	09/28/18	CCTV	1	V180704	Inspection was satisfactory per SW11.6-SVP-45, Section 7.9.
Н	WLE	07	09/25/18	CCTV	1	V180694	Inspection of encasement walls, floor, cell covers, supports and transfer lines was satisfactory.

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