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Annual Radioactive Waste Tank Inspection Program - 2001(U)

Westinghouse Savannah River Company
Savannah River Site
Aiken, SC 29808

Prepared for the U.S. Department of Energy under Contract No. DE-AC09-96SR18500

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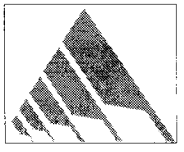

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W. R. West

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Acronyms and Abbreviations

A	Annulus
ASME	American Society of Mechanical Engineers
BFV	Back Flush Valve
CCTV	Closed Circuit Television
CCWS	Chromate Cooling Water System
COP	Clean Out Port
CTS	Concentrate Transfer System
CSTE	Concentration Storage and Transfer Engineering
CWT	Concentrated Waste Tank
DB	Diversion Box
DOE-SR	Department of Energy-Savannah River
DP	Direct Photography
DWPF	Defense Waste Processing Facility
ERIP	Encasement Riser Inspection Port
ETF	Effluent Treatment Facility
EVAP	Evaporator
F	Fahrenheit
GDL	Gravity Drain Line
HELIUM	Helium leak test
HLLCP	High Liquid Level Conductivity Probe
HPFP	High Point Flush Pit
I	Interior
IAL	Intra-Area Line
ITPFC	In-Tank-Precipitation Filter Cell
JB	Junction Box
LDB	Leak Detection Box
LPPP	Low Point Pump Pit
LPS	Leak Probe Sleeve
MLDB	Modified Leak Detection Box
OD	Outside Diameter
PHOTO	Photographs by Non-Remote Technique
PP	Pump Pit
psig	pounds per square inch gauge
PSP	Periscopic Photography
PT	Pump Tank
RCP	Reinforced Concrete Pipe
SRS	Savannah River Site
SSD	Storm Sewer Drain
SSMH	Storm Sewer Manhole
STE	Shift Technical Engineer
SWS	Storm Water Sewer
TTJ	Telescopic Transfer Jet
UT	Ultrasonic Test
VB	Valve Box
VP	Video Photograph
WAP	Wide-Angle Photography
WLE	Waste Line Encasement
WSRC	Westinghouse Savannah River Company
WT	Waste Transfer Line

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Introduction

Aqueous radioactive wastes from Savannah River Site (SRS) separations and vitrification processes are contained in large underground carbon steel tanks. Inspections made during 2001 to evaluate these vessels and other waste handling facilities along with evaluations based on data from previous inspections are the subject of this report.

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Summary

The 2001 inspection program revealed that the structural integrity and waste confinement capability of the Savannah River Site waste tanks remained unchanged from 2000 with two exceptions.

Fifteen leaksites were identified in Tank 5 and six leaksites were identified in Tank 6.

Less than 5 gallons of waste seeped from Tank 5, and only a small amount of waste reached the annulus floor. The waste level in the tank was lowered below the lowest leaksite. The sites appear to be stable.

Approximately 92 gallons of liquid had seeped from Tank 6. The liquid had evaporated and dry salt cake remains on the annulus floor. The waste level in the tank was lowered below the lowest leaksite. The sites appear to be stable.

A total of 5539 photographs were made, 979 visual and video inspections were performed, and 5 helium leak tests were conducted.

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Inspection Program

Background

Alkaline aqueous radioactive wastes produced at the Savannah River Site are received and managed in large underground tanks. The waste came primarily from nuclear fuel reprocessing operations in the separations areas (F and H) and contains most of the radioactive fission products from SRS operations. In addition, H tank farm receives recycle waste from the DWPF vitrification process. Some of this waste has been transferred to F Area waste tanks. The waste stored in the tanks is present in three phases: sludge, supernate, and salt formed by supernate evaporation and cooling. The supernate and salt phases consist primarily of $NaNO_3$ and $NaNO_2$. The fission product content is 1 to 20 curies per gallon for the supernate and 1 to 5 curies per gallon for the salt. The sludge consists primarily of MnO_2 and $Fe(OH)_2$ with a fission product content up to 950 curies per gallon.

Waste tank leak detection capabilities are essential to meet the primary objective of the SRS radioactive waste management program: to manage the waste in such a manner as to minimize the radiation exposure and associated risk to man and his environment over the lifetime of the radionuclides.

The detection of leaked waste is based on two principles: disappearance of material from its proper location and appearance of material in an improper 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. Capacity of SRS tanks is 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 double-wall tank 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 are built on slabs with a network of leak collection channels that drain to a common sump. Continuous sump level monitoring and frequent sump liquid sampling provide the leak detection. 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 opened access risers and/or inspection ports in the roof.

In 1961-62, 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. Random inspections continued 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 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 selected double-wall tanks. 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 of SRS tanks had occurred. Steel thickness measurements were resumed in 1994 using an updated ultrasonic testing (UT) system.

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. This tank was used to receive contaminated water from 244-H, the Receiving Basin for Off-Site Fuels, and 245-H, the Resin Regeneration Facility.

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-inch-diameter) access openings. Inspection techniques to circumvent these difficulties have been developed; they yield quality visual images and thickness measurements. The techniques include photographic systems, closed circuit television systems, and ultrasonic systems to measure steel thicknesses.

Waste tank inspection has been important in leak detection. The leaksites in ten of thirteen cracked tanks have been identified 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 leaksites that were not recognized before the program was implemented. With one exception, Tank 6 in 2001, the annulus conductivity probes in the double-wall tanks were not activated by these leaks because of the small amount of leakage. The leaked waste evaporated to dryness, sealing the cracks before any leaked waste reached a leak detection probe. However, remote inspections detected the dry deposits of leaked waste in the annuli of these tanks.

The waste tank in-service inspection program is an ongoing program. This report gives results of the 2001 inspections and summarizes significant findings of previous in-service inspections for each waste tank.

Tank Description

SRS has subsurface storage tanks of four different designs. All of the tanks are constructed of carbon steel and reinforced concrete. They serve as containment vessels for storage and processing of radioactive wastes. Appendix A lists tank location, design type, project number, and construction period. A brief description of the different tank designs is given in the following paragraphs.

Type I Tanks

The 12 original storage tanks constructed between 1951 and 1953 are designated Type I tanks. Tanks 1 through 8 are in F Area and Tanks 9 through 12 are in H Area. Each primary tank has a capacity of 750,000 gallons, and is 75 feet in diameter and 24 1/2 feet high. Figure 1 shows the essential features of Type I tanks, including the primary tank, the secondary pan, and the concrete support structure.

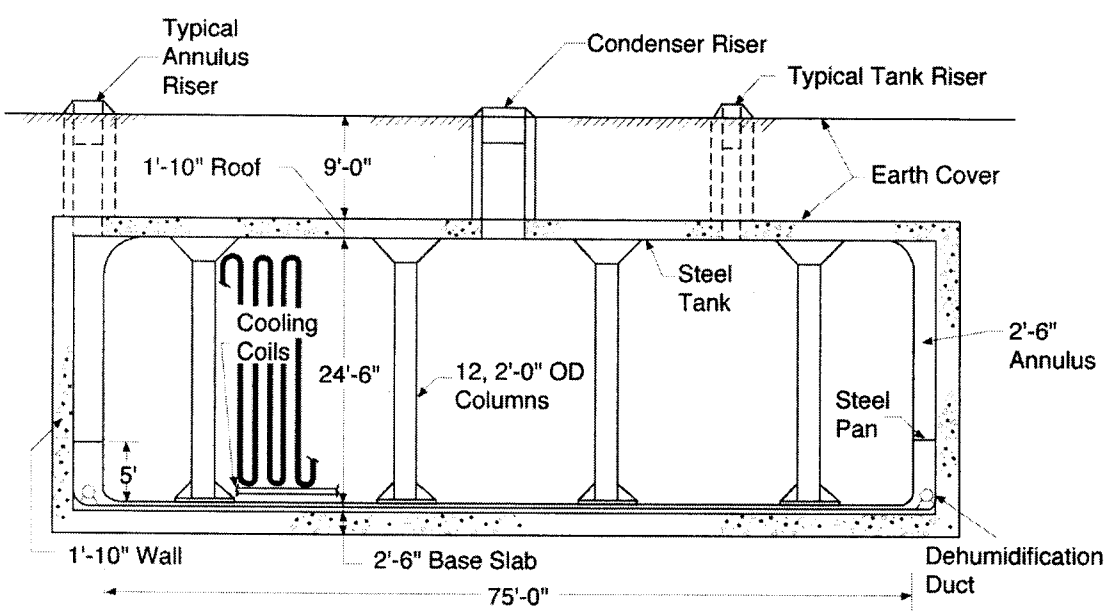

Figure 1. Cooled Waste Storage Tank, Type I (Original 750,000 Gallons).

The primary container is a closed cylindrical tank with flat top and bottom constructed from 1/2-inch-thick steel plates. The top and bottom are joined to the cylindrical sidewall by curved knuckle plates. The primary tank is set within a circular pan of 1/2-inch-thick steel plates. The annulus pan is 5 feet deep and 5 feet larger in diameter than the primary tank, thus forming an annular space 2 1/2 feet wide. The tank and pan are set on a 30-inch-thick base slab and are enclosed by a cylindrical 22-inch-thick reinforced concrete wall and a flat concrete roof, also 22 inches thick. There are twelve 2-foot-diameter concrete columns within the primary tank to support the roof. Each column has a flared capital and is encased in 1/2-inch-thick steel plate.

A 9-foot layer of earth was placed over the tanks for radiation shielding. Cooling for each Type I tank is provided by 36 parallel (water pipe) cooling coils.

A dehumidification duct in the annulus of each tank is routed from the tank top to the bottom of the annulus where it encircles all but 8 feet of tank. The duct has distribution outlets and its cross-sectional area decreases as the distance from the air supply increases. Access to the tank interior is provided at eight locations, and to the annular space at four locations, through riser pipes. Each of the 12 riser pipes is capped at the top with a concrete plug. Each plug is 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. Some of these ports provide access for inspections.

All welds in the pan and primary tank were radiographically inspected, defects were corrected, and the welds were rechecked radiographically. The welds in the flat bottoms of both the pan and the tank were vacuum-tested for leaks. Additionally, both vessels were hydrostatically tested. The water was maintained at full height in the tank for 24 hours before inspection for leaks was made. Cooling water piping was hydrostatically tested at 300 psig and then leak-tested with 100 psig air pressure in the piping.

Type II Tanks

Tanks 13 through 16, constructed in H Area in 1955 and 1956, are designated Type II tanks. Figure 2 is a cross section of this type. Each primary tank has a capacity of 1,030,000 gallons and is 85 feet in diameter and 27 feet high.

The primary container for Type II tanks consists of two concentric steel cylinders assembled with a flat bottom and a flat top into a form somewhat like a doughnut. The top and bottom are joined to the outer cylinder by rings of curved knuckle plates. The inner cylinder is flared at the top to accommodate the roof support column. This cylinder is joined to the flat steel top with a continuous butt weld and to a base fastened to the bottom with a continuous T-weld. Steel thicknesses are:

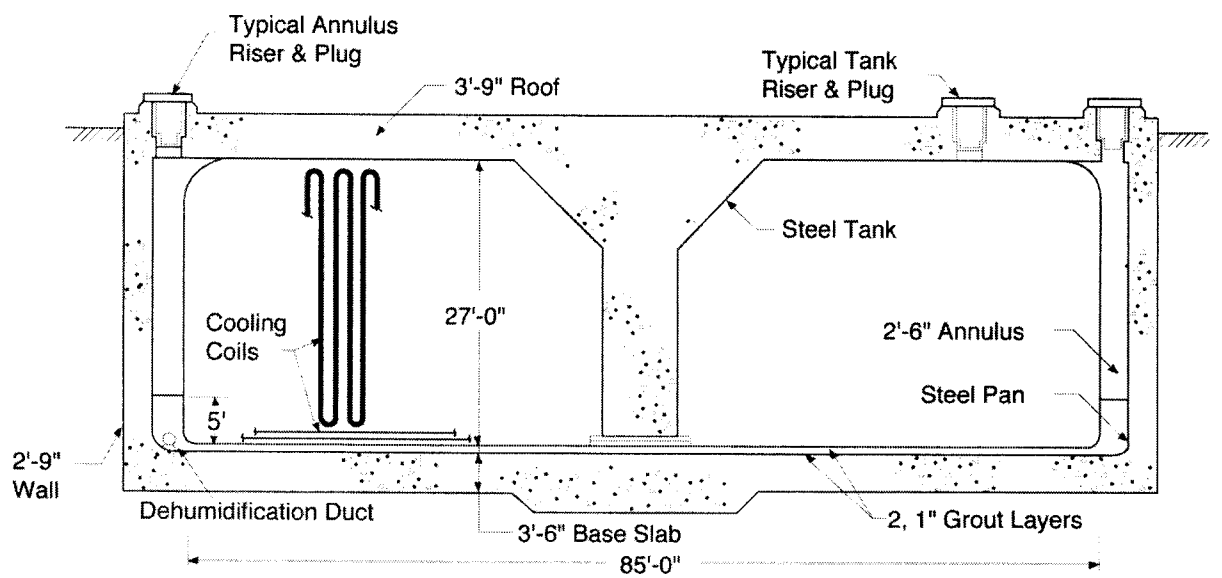

Figure 2. Cooled Waste Storage Tank, Type II (Original 1,030,000 Gallons).

Plate	Thickness, inch
Top and bottom	1/2
Upper knuckle	9/16
Wall	5/8
Lower knuckle	7/8

The primary tank is set on a 1-inch sand bed within a circular pan of 1/2-inch thick steel plate, 5 feet deep and 5 feet larger in diameter than the primary tank, thus forming an annular space 2 1/2 feet wide. The tank and pan assembly is surrounded by a cylindrical reinforced concrete enclosure with a 33-inch-thick wall and a flat concrete roof that is 45 inches thick. The tank and pan assembly and the surrounding wall are set on a foundation slab that is 42 inches thick. The roof is supported by both the wall and a central concrete column that fits within the inner cylinder of the vessel. The 45-inch-thick concrete roof provides radiation shielding; therefore, no earth overburden is required. Cooling for each Type II tank is provided by 44 parallel (water pipe) cooling coils. Access to the tank interior is provided at eight locations, and to the annular space at four locations, through riser pipes. Each of the 12 riser pipes 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 four annulus risers, other access openings (10 to 14 additional openings per tank) have been drilled into the annulus of each of these tanks to permit inspection of seventy-three to ninety-six percent of the exterior walls of the primary vessels.

A dehumidification duct in the annulus of each tank is routed from the tank top to the bottom of the annulus where it encircles all but 8 feet of the tank. The duct has distribution outlets, and its cross-sectional area decreases as the distance from the air supply increases.

All welds in the primary tanks were radiographically inspected, defects were corrected, and the welds were rechecked radiographically. However, the annulus pans were not inspected radiographically. The welds in the flat bottoms of these pans and the primary tanks were vacuum-tested for leaks, and the primary and secondary vessels were hydrostatically tested. Cooling water piping was hydrostatically tested at 300 psig and then leak-tested, with 100 psig air pressure in the piping.

Type IV Tanks

Tanks 17 through 24 are single-wall-uncooled tanks. These tanks were designed for storage of waste that does not require auxiliary cooling. Tanks 17 through 20 were constructed in F Area in 1958 and Tanks 21 through 24 were constructed in H Area between 1959 and 1961. Each tank has a capacity of 1,300,000 gallons and is 85 feet in diameter and 34 feet high (Figure 3).

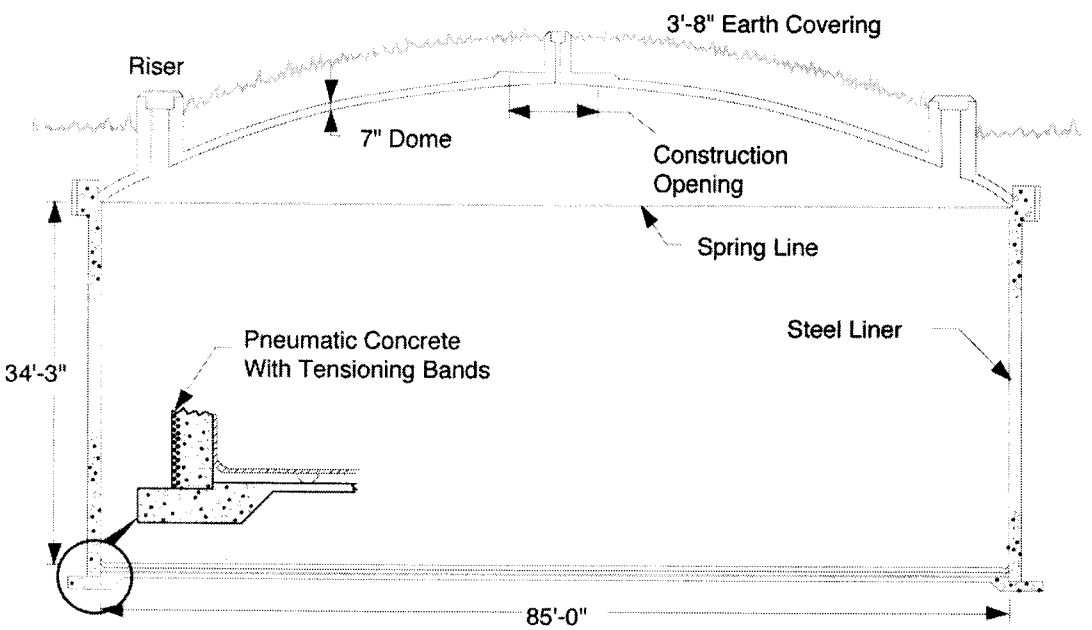

Figure 3. Uncooled Waste Storage Tank, Type IV (Prestressed Concrete Walls, 1,300,000 Gallons).

Each Type IV tank is basically a steel-lined, prestressed-concrete tank in the form of a vertical cylinder with a domed roof. Carbon steel plates, 3/8 inch thick, were used to form the cylindrical sides and flat bottom portion of the steel liners. The knuckle plates at the junction of the bottom and the sidewall are 7/16 inch thick. Concrete was built up around the steel vessel by the "shotcrete" technique.

Radiation shielding of the Type IV tanks in F Area was accomplished by applying at least 32 inches of earth over each of the 7-inch-thick concrete domes. H-Area tanks were shielded similarly, except that the earth cover was at least 44 inches thick to accommodate a somewhat higher radiation level from the waste.

Access to the interior of the tank is provided at six locations through riser pipes. Each riser pipe is capped at the top with a concrete plug. Some of these risers provide access for inspection.

All welds in the steel liners were radiographically inspected. All of the welded tank-bottom seams and the upper seams of the knuckle rings were vacuum leak-tested. Prior to the back-filling operation, each tank was hydrostatically tested by filling with water to the normal fill line. The tank was allowed to remain filled until it was to be placed in use for waste storage.

Type III Tanks

The most recently constructed tanks are designated as Type III tanks (Figure 4). Twenty-seven tanks were built between 1967 and 1981. Tanks 25 through 28, 33 and 34, and 44 through 47 are located in F Area. Tanks 29 through 32, 35 through 43 and 48 through 51 are located in H Area.

The Type III tank design was developed after an investigation into the causes of the leaks from the primary vessel of the Type I and Type II tanks. The study concluded that the leak-producing mechanism was nitrate-induced, stress-corrosion cracking at sites in or near the weld seams, and that stress relieving after fabrication should eliminate the cracking. For the Type III tanks, means were provided for heating each finished tank to relieve the stresses generated during fabrication. In addition, some stress patterns were avoided, or minimized, by mounting the roof supporting column on the foundation pad rather than on the bottom of the primary tank (as in Types I and II), and by providing an annular clearance around the roof supporting column. Each primary tank holds 1,300,000 gallons and is 85 feet in diameter and 33 feet high.

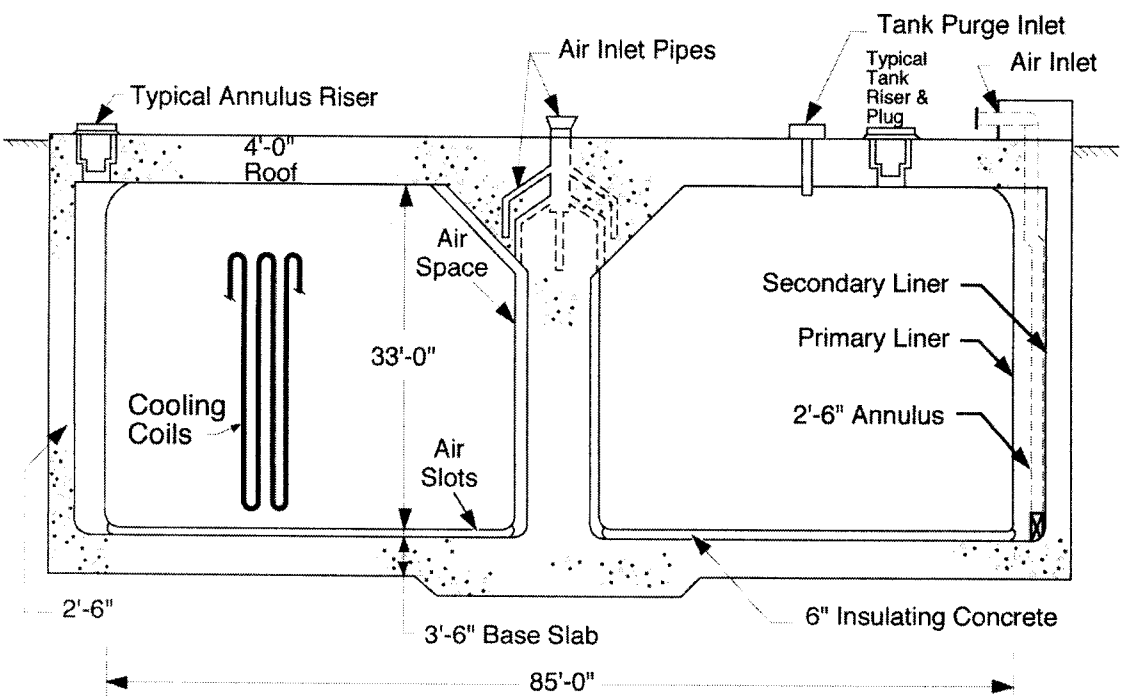

Figure 4. Cooled Waste Storage Tank, Type III (Stress Relieved Primary Liner, 1,300,000 Gallons).

Type III tanks are similar to the doughnut-like design of Type II tanks. Each primary vessel is made of two concentric cylinders joined to washer-shaped top and bottom plates by curved knuckle plates. Steel thicknesses are:

Plate		Thickness, inch
Top and bottom		1/2
Upper knuckle		1/2
Outer wall		
Upper band		1/2
Middle band		5/8
Lower band		3/4
Inner wall		
Upper band		1/2
Lower band		5/8
Lower knuckle		
Outer	(tanks 25-28 and 33-51)	7/8
	(tanks 29 through 32)	1
Inner		5/8

The primary tank is set on a 6-inch bed of insulating concrete within the secondary containment vessel. The concrete bed is grooved radially so that ventilating air can flow from the inner to the outer annulus. If any waste were to leak from the tank bottom or center annulus wall, liquid would move through the grooves, facilitating detection in the outer annulus.

The secondary vessel is 5 feet larger in diameter than the tank, thus providing an outer annulus 2 1/2 feet wide. The secondary vessel is made of 3/8-inch-thick steel throughout. Its sidewalls rise to the full height of the primary tank. The nested two-vessel assembly is surrounded by a cylindrical reinforced concrete enclosure with a 30-inch-thick wall. The enclosure has a 48-inch-thick flat reinforced concrete roof that is supported by the concrete wall and a central column that fits within the inner cylinder of the vessel. The 48-inch-thick concrete provides radiation shielding; hence, no earth overburden is required.

Cooling for the Type III tanks is provided by either deployable (water pipe) cooling coil bundles installed through risers in the tank top, or 23 parallel (water pipe) cooling coils distributed throughout the tank.

A dehumidification duct in the annulus of each tank is routed from the tank top to the bottom of the annulus where it encircles the tank. The duct has distribution outlets and its cross-sectional area decreases as distance from the air supply increases. In these tanks, additional airflow is directed through the inner annulus, passing beneath the primary tank through radial grooves in the concrete base slab, and is exhausted into the outer annulus.

Tanks 29 through 34 were placed in service prior to 1976. These tanks were constructed with annulus riser pipes at four locations providing inspection access through 5-inch-diameter ports. All other Type III tanks were placed in service after 1976 and have annulus riser pipes at 18 locations that are 8-inches in diameter. These ports are equidistant around the tank and provide for inspection of all of the exterior wall of the primary vessel. In 1982, fourteen to sixteen 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 all of the exterior wall of their primary vessels. All Type III tanks have interior riser pipes at various locations that provide inspection access through ports with diameters ranging from 5 to 8 inches. All inspection access ports are equipped with removable plugs.

All butt welds on the primary tanks were radiographically inspected, except welds on the horizontal roof surface. On the secondary vessels 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 tanks, 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 tanks 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. All circumferential welds in the pipe loops of the deployable cooling coil bundles below the 1/2-inch-thick plate at the base of the riser plug were radiographed. The assembled cooler piping was tested hydrostatically to 500 psig and halide leak-tested at 300 psig. Welds in the distributed cooling coils were radiographed and similarly leak-tested.

The primary tank was stress-relieved in place after all high temperature work (other than roof attachments) had been completed. Full stress relief, at 1100°F, was accomplished in accordance with the general requirements of the ASME Boiler and Pressure Vessel code.

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.

Wide-angle direct photography was used for general inspections of double-wall tank annuli and the primary vessels of both double-wall tanks and single-wall tanks. This technique used a camera that surveys a large area in a single photograph. The camera used for wide-angle photography was a Contax G1 camera body, with a Zeiss Hologon 6mm f/8 fixed aperture lens. This lens is distortion free with a field of view of approximately 100 degrees. A bank of four electronic flash units was synchronized with these cameras to provide illumination. This camera is not shielded since residence time in a tank is minimal.

Another direct photography technique was used for detailed inspections. The camera is shielded to reduce the degrading effect of ionizing radiation on the photographic film. The camera's residence time in a waste tank for this technique is longer than the wide-angle direct photographic technique (i.e., a few minutes versus a few seconds); hence, shielding is required. The camera used was the Contax G1 camera with a Zeiss Hologon 16mm f/8 lens, the same as used for the wide-angle direct photography. Illumination is provided by a single electronic flash unit.

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Program Implementation

Visual Imagery

The 2001 inspection program used two visual imagery techniques: photography and closed circuit 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 2001 by photographic and videotape documentation. Inspections were made through all accessible annulus risers of the double-wall tanks and at least one inspection was made in the interior of each single-wall tank.

For Tanks 1 through 12, 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 continuously monitored for leakage by instrumentation installed in their annuli. Additionally, for those tanks that have known leaksites in the primary vessel, the supernate phase has been removed, minimized, or the level lowered below the level of known leaksites.

2001 Inspection Results

The 2001 inspection program was successfully completed. The annuli of all double-wall tanks were inspected via all accessible risers and the interiors of single-wall tanks remaining in service were inspected. Other inspections of waste tanks and ancillaries were performed as required by operating conditions and equipment performance.

In January 2001, after filling Tank 6 with dilute supernate, an annulus conductivity probe alarmed. A visual inspection revealed liquid on the annulus floor. Remote visual inspection using a magnetic-wheeled crawler with video camera attached identified five active and one inactive leaksites. The leaksites were located:

1. 24 feet north of the West riser and 233 inches above the tank bottom in the vicinity of weld attachments on the interior of the tank for a splashguard/downcomer assembly
2. 24.3 feet north of the West riser and 233 inches above the tank bottom in the vicinity of weld attachments on the interior of the tank for a splashguard/downcomer assembly
3. 26.5 feet north of the West riser and 233 inches above the tank bottom in the vicinity of weld attachments on the interior of the tank for a splashguard/downcomer assembly
4. 25 feet north of the west riser between the middle and lower girth weld in the vicinity of weld attachments for the downcomer
5. 7 feet north of the West riser and 129 inches above the tank bottom on the middle girth weld
6. 18.5 feet south of the West riser between the middle and lower girth welds

Approximately 92 gallons of waste had reached the annulus floor. The leaked waste has evaporated leaving a dry salt cake.

Because of their similar service histories and the fact that Tank 5 had also been recently filled with dilute supernate, it was decided to deploy the video camera equipped wall crawler in the Tank 5 annulus.

Liquid was observed in the annulus of Tank 5, and fifteen leaksites were identified. The leaksites were located:

1. 29.5 feet north of the East riser and 94 inches above the tank bottom on a vertical weld
2. 15.7 feet east of the South riser and 31 inches above the tank bottom on an access door weld
3. 15.5 feet east of the South riser and 31 inches above the tank bottom on an access door weld
4. 15 feet east of the South riser and 58 inches above the tank bottom on an access door weld
5. 8.75 feet east of the South riser and 84 inches above the tank bottom on a vertical weld

6. 2 feet west of the South riser and 62 inches above the tank bottom on a vertical weld
7. 2.25 feet west of the South riser and 62 inches above the tank bottom on a vertical weld
8. 35 feet west of the South riser and 72 inches above the tank bottom on a vertical weld
9. 37 feet west of the South riser and 84 inches above the tank bottom
10. 3.5 feet north of the West riser and 53 inches above the tank bottom on a vertical weld
11. 3.75 feet north of the West riser and 53 inches above the tank bottom on a vertical weld
12. 3.5 feet north of the West riser and 87 inches above the tank bottom on a vertical weld
13. 4.25 feet north of the West riser and 115 inches above the tank bottom
14. 4 feet east of the North riser and 55 inches above the tank bottom
15. 3 feet east of the North riser and 45 inches above the tank bottom on a vertical weld

Less than 5 gallons of waste reached the annulus floor. The leaksites and waste on the floor have dried and formed a salt cake.

As a result of these visual inspections, the dilute supernate waste was removed from both Tanks 5 and 6.

Rainwater continued to leak into the annulus of most tanks. Inleakage was evidenced primarily by surface stains, and occasionally by calciferous deposits, changed configuration in leaked waste in the annulus, and mild surface corrosion where annulus ventilation was inadequate to maintain a dry annulus.

Except as noted above, the conditions of the tanks remained essentially unchanged from the conditions reported in 2000. Details and results for inspections of the tanks and ancillaries performed in 2001 are listed in Appendix B.

Summary of Inspection Results

The following is a brief description of tank conditions as revealed by inspections and examinations made through 2001.

Tank 1

Tank 1 was placed in service in 1954. A small amount of dry waste was observed on the annulus floor in 1969. Subsequent inspections have revealed no additional leakage. Tank 1 was removed from active service in December 1985. Inspection of the exterior wall of the primary vessel is limited to 25% using existing inspection techniques through the four risers that provide access to the annulus. Examination of the observable portion of the tank wall has not revealed the location of the leak(s). Inspection photographs of the steel surface of the tank and the annulus have shown no significant surface corrosion or other anomalies. Ultrasonic measurements made in 1978, 1979, 1981, 1983, and 1985 showed that no detectable thinning of the tank wall had occurred.

Tank 2

Tank 2 was placed in service in 1955. Tank 2 was removed from active service in November 1984. Examinations of the observable portion (25%) of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic measurements made in 1967, 1972, 1973, 1977, 1981, and 1985 showed no detectable thinning of the tank wall.

Tank 3

Tank 3 was placed in service in 1956. Tank 3 was removed from active service in November 1984. Examinations of the observable portion (25%) of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic measurements made in 1973, 1977, 1981, and 1985 showed no detectable thinning of the tank wall.

Tank 4

Tank 4 was placed in service in 1961. Tank 4 was removed from active service in December 1979. Examinations of the observable portion (25%) of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic measurements made in 1973, 1977, 1981, and 1985 showed no detectable thinning of the tank wall.

Tank 5

Tank 5 was placed in service in 1959. Tank 5 was removed from active service in November 1990. Examinations of the observable portions (25%) of the exterior of the primary vessel wall and the annulus through calendar year 2000 had shown no leakage, significant surface corrosion, or other anomalies. The tank was returned to active service in 2000 to support tank closure activities. Several months after liquid was added to the tank, a magnetically mounted wall crawler with a video camera attached was deployed

which enabled 75% of the primary vessel wall to be inspected. These inspections revealed 15 leaksites. Less than 5 gallons of waste reached the annulus floor. Ultrasonic measurements made in 1973, 1977, 1981, and 1985 showed no detectable thinning of the tank wall.

Tank 6

Tank 6 was placed in service in 1964. Tank 6 was removed from active service in October 1990. Examinations of the observable portions (25%) of the exterior of the primary vessel wall and the annulus through calendar year 2000 had shown no leakage, significant surface corrosion, or other anomalies. The tank was returned to active service in 2000 to support tank closure activities. The first indication of leakage from the tank was in January 2001 when an annulus conductivity probe alarm was received. Liquid was observed on the annulus floor; however, no leaksites could be located from the four risers used to inspect the tank. In February, a magnetically mounted wall crawler with a video camera attached enabled 73% of the primary vessel wall to be examined. These inspections identified 6 leaksites. Approximately 92 gallons of waste reached the annulus floor. Ultrasonic measurements made in 1974, 1977, 1978, 1979, 1981, and 1985 showed no detectable thinning of the tank wall.

Tank 7

Tank 7 was placed in service in 1954. Tank 7 was removed from active service in November 1989. Examinations of the observable portion (25%) of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic measurements made in 1974, 1979, 1981, 1983, and 1985 showed no detectable thinning of the tank wall.

Tank 8

Tank 8 was placed in service in 1956. Tank 8 was removed from active service in September 1992. Waste removal activities were conducted during 2001. A magnetically mounted wall crawler with a video camera attached enabled inspection of 59% of the primary vessel wall and annulus. No leakage, significant surface corrosion, or other anomalies were observed. Ultrasonic measurements made in 1973, 1977, 1981, and 1985 showed no detectable thinning of the tank wall.

Tank 9

Tank 9 was placed in service in 1955. Tank 9 was removed from active service in July 1991. Leakage from the tank primary vessel into the annulus pan may have occurred as early as 1955 when the "necklace" alarm, a conductivity leak detection device, shorted out permanently. Leakage was not certain until liquid waste was observed in the annulus pan in 1957. Currently, the annulus pan contains 8 to 10 inches of dry leaked waste. Examinations of the observable portion (13%) of the exterior of the primary vessel wall have shown three leaksites high on the tank wall; 269, 271, and 276 inches above the tank bottom. None of these leaksites is the source of the leaked waste in the annulus pan. The waste leaked at these sites was only enough to form localized small nodules. The leak(s) that are the source of the waste in the annulus pan have not been observed. Inspections have shown no significant surface corrosion, and the ultrasonic measurements made in 1979 and 1983 showed no detectable thinning of the tank wall.

Tank 10

Tank 10 was placed in service in 1955. Tank 10 was removed from active service in August 1989. The first indication that Tank 10 had leaked was in 1959 when dry waste was discovered in the annulus pan during a visual inspection. Currently, the annulus pan contains about 2 inches of dry leaked waste. Examinations of the observable portion (19%) of the exterior of the primary vessel wall have not shown the source of the leaked waste or any other leaksite(s). Inspections have shown no significant surface corrosion, and the ultrasonic measurements made in 1979 and 1983 showed no detectable thinning of the tank wall.

Tank 11

Tank 11 was placed in service in 1955. Tank 11 was removed from active service in July 1989. Twenty-five percent of the exterior of the primary vessel wall is observable via the four risers that provide access to the annulus. Inspections performed in 1974 revealed two leaksites. The leaksites are 189 and 235 inches above the tank bottom. Inspections have shown no significant surface corrosion, and ultrasonic measurements made in 1973, 1977, 1981, and 1985 showed no detectable thinning of the tank wall.

Tank 12

Tank 12 was placed in service in 1956. Tank 12 was removed from active service in July 1990. Twenty-five percent of the exterior of the primary vessel wall is observable via the four risers that provide access to the annulus. Inspections in 1974 revealed two leaksites. The leaksites are 93 and 105 inches above the tank bottom. Inspections have shown no significant surface corrosion, and ultrasonic measurements made in 1972, 1973, 1977, 1981, 1983, and 1985 showed no detectable thinning of the tank wall.

Tank 13

Tank 13 was placed in service in 1956. Tank 13 was removed from active service in May 1991. Ninety percent of the exterior of the primary vessel wall is observable via the 13 risers that provide access to the annulus. Inspections in 1977 revealed a leaksite 279 inches above the tank bottom. In 1980, another leaksite was discovered 269 inches above the tank bottom. Inspections have shown no significant surface corrosion, and ultrasonic measurements made in 1974, 1979, and 1985 showed no detectable thinning of the tank wall.

Tank 14

Tank 14 was placed in service in 1957. Tank 14 was removed from active service in December 1991. The first indication that tank 14 had leaked was in 1959 when dry leaked waste was observed in the annulus pan. Currently, the annulus pan contains 12 to 13 inches of dry leaked waste. Eighty-nine percent of the exterior of the primary vessel wall is observable via the 18 risers that provide access to the annulus. Inspections have located 33 leaksites, and it is estimated that there are about 50 leaksites in this tank. All of the observed leaksites are near the bottom circumferential weld that is 2.5 feet above the tank bottom, except for one leaksite that was observed approximately 24 feet above the tank bottom. Inspections have shown no significant surface corrosion, and ultrasonic measurements made in 1979 and 1983 showed no detectable thinning of the tank wall.

Tank 15

Tank 15 was placed in service in 1960. Tank 15 was removed from active service in November 1989. Inspections in 1972 below one of the four risers providing access to the annulus revealed two leaksites near the bottom circumferential weld about 2.5 feet above the tank bottom. Twelve additional risers were installed, increasing the observable portion of the primary vessel wall from 25% to 96%. Inspections in 1973, via the additional risers, revealed eleven other leaksites. Later, inspections revealed three other sites where cracks penetrated the steel wall, one was observed in 1994 and two were observed in 1997. Inspections in 2000 revealed two additional leaksites near the bottom circumferential weld. A total of 18 leaksites have been identified.

Inspections have shown mild corrosion of the steel surfaces in the tank annulus. Ultrasonic measurements made in 1972, 1977, 1980, and 1984 showed no detectable thinning of the tank wall.

Tank 16

Tank 16 was placed in service in 1959. Tank 16 was removed from active service in February 1979. Liquid waste was detected in the annulus pan in 1959. Seventy-three percent of the exterior wall of the primary vessel is observable via the sixteen risers that provide access to the annulus. Inspections in 1961 and 1962, through 13 risers, revealed about 175 leaksites in the tank wall. In October 1961 and March 1962, two 5 3/4-inch-diameter samples were cut from the top horizontal circumferential weld of the tank wall about 40 feet apart. Metallurgical examination indicated the cause of the cracks was nitrate-induced stress corrosion. Extensive inspection performed since 1972 indicated that the primary vessel wall has 300 to 350 leaksites. In 1978, 70% of the leaked waste in the annulus pan was removed, leaving an insoluble heel containing approximately 30,000 curies Cs-137. Waste removal from the interior of the primary vessel was completed in 1980, and the tank status changed to "out of service". Inspections have shown no significant surface corrosion. No ultrasonic steel thickness measurements of the tank were made because of the number of leaksites and the presence of leaked waste deposits on the primary vessel exterior.

Tank 17

Tank 17 was placed in service in 1961. Examinations of the steel liner have shown no evidence of failure, significant surface corrosion or other anomalies. Tank 17 was removed from service and closed on or about December 15, 1997.

Tank 18

Tank 18 was placed in service in 1959. Examinations of the steel liner have shown no evidence of failure,

significant surface corrosion or other anomalies. Ultrasonic measurements made in 1977, 1980, and 1983 showed no detectable thinning of the liner bottom. Activities to remove all waste from the tank began in 2001.

Tank 19

Tank 19 was placed in service in 1961 and emptied in 1981. The tank has remained empty except for ballast water. Examinations of the steel liner have revealed two failures; i.e. sites where inleakage had occurred. The failures are in the wall of the steel liner at heights of 317 inches and 330 inches. Inspection records photographically document that these leaksites existed before 1994. However, inspections made from the interior of this single-wall (visual inspection of the exterior is not possible) had to track changes in artifacts at the sites by periodic observation to judge that inleakage had occurred. Ultrasonic measurements made in 1982 and 1985 showed no detectable thinning of the liner bottom. Activities to remove all waste from the tank began in 2000.

Tank 20

Tank 20 was placed in service in 1960. Examinations of the steel liner have revealed four failure sites. In 1983, leaksites were observed in the wall of the steel liner at heights of 22, 24.5, and 26.5 feet. In 1990, a leaksite was confirmed in the liner wall at a height of 26.25 feet. This site had been suspect since 1984. This is a single-wall tank with no annulus. The leaksites in the steel liner were detected by inspections made from the tank interior, since inspection of the exterior was not possible. Artifacts observed on the interior wall indicated water had leaked through the steel liner into the tank. It is possible that a small quantity of waste may have leaked from the steel liner. However, groundwater monitoring has given no indication that waste escaped the encasement. Tank 20 was removed from service and closed on or about July 30, 1997.

Tank 21

Tank 21 was placed in service in 1961. Examinations of the steel liner have shown no evidence of failure, significant surface corrosion or other anomalies. Ultrasonic measurements made in 1973, 1977, 1980, and 1983 showed no detectable thinning of the liner bottom.

Tank 22

Tank 22 was placed in service in 1965. Examinations of the steel liner have shown no evidence of failure, significant surface corrosion or other anomalies. Water was discovered leaking through the concrete roof in 1994. Ultrasonic measurements made in 1974, 1977, 1980, and 1983 showed no detectable thinning of the liner bottom.

Tank 23

Tank 23 was placed in service in 1964. Examinations of the steel liner have revealed corrosion but no evidence of failure. Ultrasonic measurements made in 1973, 1977, 1980, and 1983 showed no detectable thinning of the liner bottom. Examinations of the steel liner have shown rust and tubercles on the surface of the upper portion. This tank served as a receiver tank for inhibited contaminated water from Buildings 244-H, the Receiving Basin for Off-Site Fuels, and 245-H, the Resin Regeneration Facility. The tank was filled to less than 50% capacity to maintain the remaining space for emergency use. This mode of operation exposed only the lower half of the tank to the inhibited contents and exposed the upper half of the tank to a warm humid atmosphere. In 1984, rust and tubercles were cleaned from two small areas, exposing the steel surface. The cleaned liner surface was generally corroded with mild pitting. The pits were broad and shallow. In 1999, cracked or crushed concrete was noted in the tank dome, spanning about fifteen feet immediately above the tank wall.

Tank 24

Tank 24 was placed in service in 1963. Examinations of the steel liner have shown no evidence of failure, significant surface corrosion or other anomalies. Ultrasonic measurements made in 1984 showed no detectable thinning of the liner.

Tank 25

Tank 25 was placed in service in 1980. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic thickness measurements made in 1979 and 1983 showed no detectable thinning of the tank wall.

Tank 26

Tank 26 was placed in service in 1980. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic thickness measurements made in 1979 and 1983 showed no detectable thinning of the tank wall.

Tank 27

Tank 27 was placed in service in 1980. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic thickness measurements made in 1979 and 1983 showed no detectable thinning of the tank wall.

Tank 28

Tank 28 was placed in service in 1980. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic thickness measurements made in 1979 and 1983 showed no detectable thinning of the tank wall.

Tank 29

Tank 29 was placed in service in 1971. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic thickness measurements made in 1973 and 1974 showed no detectable thinning of the tank wall.

Tank 30

Tank 30 was placed in service in 1974. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic thickness measurements made in 1975 showed no detectable thinning of the tank wall.

Tank 31

Tank 31 was placed in service in 1972. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies.

Tank 32

Tank 32 was placed in service in 1971. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies.

Tank 33

Tank 33 was placed in service in 1969. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies.

Tank 34

Tank 34 was placed in service in 1972. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies.

Tank 35

Tank 35 was placed in service in 1977. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic thickness measurements made in 1977, 1981, and 1985 showed no detectable thinning of the tank wall.

Tank 36

Tank 36 was placed in service in 1977. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic thickness measurements made in 1977, 1981, and 1985 showed no detectable thinning of the tank wall.

Tank 37

Tank 37 was placed in service in 1978. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic thickness measurements made in 1977, 1981, and 1985 showed no detectable thinning of the tank wall.

Tank 38

Tank 38 was placed in service in 1981. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic thickness measurements made in 1980, 1981, and 1984 showed no detectable thinning of the tank wall.

Tank 39

Tank 39 was placed in service in 1982. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic thickness measurements made in 1980, 1981, 1984, and 1985 showed no detectable thinning of the tank wall.

Tank 40

Tank 40 was placed in service in 1986. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic thickness measurements made in 1980, 1981, and 1984. Thickness mapping was performed in 1996 using the P-scan System to provide reference measurements for the future. No service-induced corrosion was detected.

Tank 41

Tank 41 was placed in service in 1982. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic thickness measurements made in 1980, 1981, and 1984 showed no detectable thinning of the tank wall.

Tank 42

Tank 42 was placed in service in 1982. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic thickness measurements made in 1980, 1981, 1984, 1985 and 1990. Thickness mapping was performed in 1995 and 1996 using the P-scan System to provide reference measurements for the future. No service-induced corrosion was detected.

Tank 43

Tank 43 was placed in service in 1982. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic thickness measurements made in 1980, 1981, 1984, and 1985 showed no detectable thinning of the tank wall.

Tank 44

Tank 44 was placed in service in 1982. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic thickness measurements made in 1980, 1981, and 1984 showed no detectable thinning of the tank wall.

Tank 45

Tank 45 was placed in service in 1982. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic thickness measurements made in 1980, 1981, and 1984 showed no detectable thinning of the tank wall.

Tank 46

Tank 46 was placed in service as an emergency spare tank in 1980. It was placed in waste storage service in 1994 when it began receiving concentrate from the 2F evaporator. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no significant surface corrosion or other anomalies. Ultrasonic thickness measurements made in 1980, 1981, and 1984 showed no detectable thinning of the tank wall.

Tank 47

Tank 47 was placed in service in 1980. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic thickness measurements made in 1980, 1981, and 1984 showed no detectable thinning of the tank wall.

Tank 48

Tank 48 was placed in service in 1983. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic thickness measurements made in 1982. Thickness mapping was performed in 1994, 1995, 1996, and 1997 using the P-scan System to provide reference measurements for the future. No service-induced corrosion was detected.

Tank 49

Tank 49 was placed in service in 1983. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic thickness measurements were made in 1982 prior to placing the tank in service. Thickness mapping was performed in 1995 using the P-scan System to provide reference measurements for the future. No service-induced corrosion was detected.

Tank 50

Tank 50 was placed in service in 1983. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic thickness measurements made in 1982. Thickness mapping was performed in 1994 and 1995 using the P-scan System to provide reference measurements for the future. No service-induced corrosion was detected.

Tank 51

Tank 51 was placed in service in 1986. Examinations of 100% of the exterior of the primary vessel wall and the annulus have shown no leakage, significant surface corrosion or other anomalies. Ultrasonic thickness measurements made in 1982. Thickness mapping was performed in 1996 and 1997 using the P-scan System to provide reference measurements for the future. No service-induced corrosion was detected.

Appendix A—Waste Tanks at SRS

SRS Waste Tank Specifications

Number	Location	Type	Project Number	Construction Period	Type of Construction*
1-8	F	I	8980	1951-1953	Double wall-cooled
9-12	H	I	8980	1951-1953	Double wall-cooled
13-16	H	II	8980 P.W.O.	1955-1956	Double wall-cooled
17-20	F	IV	981031	1958	Single wall-uncooled
21-24	H	IV	981089	1962	Single wall-uncooled
25-28	F	IIIA	951493 (75-1-a)	1975-1978	Double wall-cooled
29-32	H	III	981232	1967-1970	Double wall-cooled
33-34	F	III	950974	1969-1972	Double wall-cooled
35-37	H	IIIA	951463 (74-1-a)	1974-1977	Double wall-cooled
38-43	H	IIIA	951618 (76-8-A)	1976-1980	Double wall-cooled
44-47	F	IIIA	951747	1977-1980	Double wall-cooled
48-51	H	IIIA	951828 (78-18-b)	1978-1981	Double wall-cooled

* Tanks 32 and 35 have removable, roof-supported cooling coils. Tanks 30, 33, and 34 have bottom-supported deployable cooling coils. Tanks 29 and 31 have some deployable and some close-packed cooling assemblies, all bottom-supported. All other cooled tanks have permanently installed cooling coils, roof-supported in Type I and II and bottom-supported in Type III tanks.

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Appendix B—Summary of 2001 Inspections

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	01	East (A)	07/05/01	DP / P01175:01-17	Tank condition had not changed.
F	01	East (A)	07/06/01	CCTV / 746	The magnetically mounted thermocouple was deployed at the setpoint.
F	01	East (A)	11/02/01	CCTV / 746 A	The magnetically mounted thermocouple was deployed at the setpoint.
F	01	East (A)	12/05/01	CCTV / 746 A	The conductivity probe was deployed at the setpoint.
F	01	North (A)	03/24/01	WAP / P01120:01	Tank condition had not changed.
F	01	South (A)	03/23/01	DP / P01125:01-16	Tank condition had not changed.
F	01	West (A)	07/05/01	DP / P01176:01-17	Tank condition had not changed.
F	01	West (A)	09/19/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	01	West (A)	11/02/01	CCTV / 746 A	The conductivity probe was deployed at the setpoint.
F	02	East (A)	01/31/01	WAP / P01042:03	Tank condition was normal.
F	02	East (A)	09/19/01	CCTV / 746	The magnetically mounted thermocouple was deployed at the setpoint.
F	02	North (A)	01/31/01	WAP / P01042:02	Tank condition was normal.
F	02	North (A)	09/19/01	CCTV / 746	The conductivity probe was deployed at the setpoint.

(A) = annulus; BFV = back flush valve; CCTV = closed circuit television; CCWS = chromate cooling water system; COP = clean out port; CT = Catch Tank; CTS = concentrate transfer system; CWT = concentrated waste tank; DB = diversion box; DP = direct photography; ERIP = encasement riser inspection port; ETF = effluent treatment facility; EVAP = evaporator; GDL = gravity drain line; HELIUM = helium leak test; HLLCP = high liquid level conductivity probe; (I) = interior; ITPFC = in-tank precipitation filter cell; JB = junction box; LDB = leak detection box; LPPP = low point pump pit; LPS = leak probe sleeve; MLDB = modified leak detection box; PP = pump pit; PSP = periscopic photography; RCP = reinforced concrete pipe; SWS = storm water sewer; UT = ultrasonic test; VB = valve box; VP = video photograph; WAP = wide angle photography; WLE = waste line encasement

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	02	South (A)	01/31/01	WAP / P01042:01	Tank condition was normal.
F	02	South (A)	09/19/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	02	West (A)	02/10/01	DP / P01052:01-17	Tank condition was normal.
F	03	East (A)	02/10/01	DP / P01053:01-17	Tank condition was normal. Stains and marks on the annulus floor have increased since last detailed inspection on 2/4/97.
F	03	North (A)	01/31/01	WAP / P01043:01	Tank condition was normal.
F	03	North (A)	08/31/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	03	South (A)	02/02/01	WAP / P01046:01	Tank condition was normal.
F	03	South (A)	08/31/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	03	West (A)	01/31/01	WAP / P01043:02	Tank condition was normal.
F	03	West (A)	08/31/01	CCTV / 746	The magnetically mounted thermocouple was deployed at the setpoint.
F	04	East (A)	02/11/01	DP / P01054:16	The magnetically mounted thermocouple was deployed at the setpoint.
F	04	East (A)	02/11/01	DP / P01054:01-17	Tank condition was normal.
F	04	North (A)	01/31/01	WAP / P01044:03	Tank condition was normal.
F	04	North (A)	08/29/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	04	South (A)	01/31/01	WAP / P01044:01	Tank condition was normal.
F	04	South (A)	08/29/01	CCTV / 746	The conductivity probe was deployed at the setpoint.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	04	West (A)	01/31/01	WAP / P01044:02	Tank condition was normal.
F	05	East (A)	02/11/01	DP / P01055:01-17	Tank condition was normal. Stains on the annulus floor and the primary vessel wall have increased since last detailed inspection on 2/4/97.
F	05	East (A)	03/20/01	CCTV / N/A	Inspection was performed in the annulus after ten inches of liquid was added to the tank. No unusual conditions were observed.
F	05	East (A)	04/03/01	CCTV / 762	Inspection revealed that the annulus floor visible beneath the riser was dry, and the primary vessel wall was normal.
F	05	East (A)	06/14/01	CCTV / 757 H	CCTV inspection of tank wall was performed using a magnetically mounted wall crawler. Inspection revealed a leaksite approximately 29.5 feet north of the east riser, 94 inches above the tank bottom. The leaksite was adjacent to a vertical weld. The leaksite and trail were wet with deposits on the tank wall and annulus floor.
F	05	East (A)	06/18/01	CCTV / 757 I	CCTV inspection of tank wall was performed using a magnetically mounted wall crawler. Inspection monitored a leaksite previously identified approximately 29.5 feet north of the east riser for changes. The leaksite and trail were wet, and deposits on the tank wall and annulus floor had increased slightly.
F	05	East (A)	06/19/01	CCTV / 757 J	CCTV inspection of tank wall was performed using a magnetically mounted wall crawler. Inspection revealed three leaksites approximately 15.7, 15.5, and 15.0 feet east of the south riser, 31 inches, 31 inches and 58 inches above the tank bottom, respectively. The leaksites were below and adjacent to a vertical weld attaching a 2 ft. by 2 ft. plate to the tank wall. The leaksites and trails were wet with deposits on the tank wall and annulus floor.
F	05	North (A)	02/02/01	WAP / P01047:01	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	05	North (A)	03/20/01	CCTV / N/A	Inspection was performed in the annulus after ten inches of liquid was added to the tank. No unusual conditions were observed.
F	05	North (A)	04/03/01	CCTV / 762	Inspection revealed that the annulus floor visible beneath the riser was dry.
F	05	North (A)	06/23/01	CCTV / 783	Stains & marks indicate a crack may exist on the primary vessel wall above the bottom girth weld, viewing east.
F	05	North (A)	06/24/01	CCTV / 783	Inspection confirmed two leak sites at 45 and 55 inches, respectively, above the tank bottom. The leaked waste has not reached the annulus floor.
F	05	North (A)	08/31/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	05	South (A)	03/20/01	CCTV / N/A	Inspection was performed in the annulus after ten inches of liquid was added to the tank. No unusual conditions were observed.
F	05	South (A)	04/03/01	CCTV / 762	Inspection revealed that the annulus floor visible beneath the riser was dry, and the primary vessel wall was normal.
F	05	South (A)	06/20/01	CCTV / 757 K	CCTV inspection of tank wall was performed using a magnetically mounted wall crawler. Inspection revealed five leaksites. The first was approximately 8.75 feet east of the south riser, 84 inches above the tank bottom with leaksite and trail wet but no accumulation on the annulus floor. The second and third were 2 and 2.25 feet west of the south riser. Both were 62 inches above the tank bottom, adjacent to a vertical weld. The leaksites and trails were wet with deposits on the tank wall and annulus floor. The fourth was 35 feet west of the south riser, 72 inches above the tank bottom, adjacent to a vertical weld. The leaksite and trail were wet, but there was no accumulation on the annulus floor. The fifth was 37 feet west of the south riser, 84 inches above the tank bottom, in the middle of a steel plate. The leaksite

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	05	South (A)	07/04/01	DP / P01183:01-10	Inspection was performed to document conditions of leaksites which were identified on previous inspections.
F	05	South (A)	07/25/01	DP / P01185:01-15	Salt deposits on the annulus floor and primary vessel wall had increased slightly since inspected on 7/4/01.
F	05	South (A)	08/31/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	05	South (A)	09/25/01	WAP / P01221:01	Tank condition had not changed. Leaked waste was observed on the annulus floor and on top of the ventilation duct from a leak site identified on 6/20/01.
F	05	West (A)	02/02/01	WAP / P01047:02	Tank condition was normal.
F	05	West (A)	03/08/01	CCTV / 746	The magnetically mounted thermocouple was deployed at the setpoint.
F	05	West (A)	03/20/01	CCTV / N/A	Inspection was performed in the annulus after ten inches of liquid was added to the tank. No unusual conditions were observed.
F	05	West (A)	04/03/01	CCTV / 762	Inspection revealed that the annulus floor visible beneath the riser was dry.
F	05	West (A)	06/22/01	CCTV / 757 L	CCTV inspection of tank wall was performed using a magnetically mounted wall crawler. Inspection revealed four leaksites. The first and second were approximately 3.5 and 3.75 feet north of the west riser, both 53 inches above the tank bottom, adjacent to a vertical weld, with leaksites and trails wet with deposits on the annulus floor. The third was 3.5 feet north of the west riser, 87 inches above the tank bottom, adjacent to a vertical weld. The leaksite and trail were wet with deposits on the tank wall and annulus floor. The fourth was 4.25 feet north of the west riser, 115 inches above the tank bottom, adjacent to a vertical weld, in the middle of a steel plate. The leaksite and trail were wet with deposits on the tank wall and annulus floor.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	05	West (A)	07/04/01	DP / P01182:01-10	Inspection was performed to document condition of leaksites which were identified on previous inspections.
F	05	West (A)	07/25/01	DP / P01185:01-15	Salt deposits on the annulus floor had increased slightly since inspected on 7/4/01.
F	05	03 (I)	04/19/01	CCTV / 762	Inspection confirmed the presence of a "splash guard" and downcomer attached to the tank wall where the transfer lines from FDB-01 enter the tank.
F	05	05 (I)	03/03/01	CCTV / 748	Inspection documented the position of the conductivity probe in the riser.
F	05	07 (I)	03/19/01	CCTV / 748	Inspection revealed that the salt layer was completely covered after ten inches of liquid was added to the tank.
F	06	East (A)	01/16/01	CCTV / 750	CCTV was used to determine if any liquid was present in the annulus and document tank conditions. Tank condition had not changed, and no liquid was observed in the annulus.
F	06	East (A)	01/16/01	DP / P01026:15	The magnetically mounted thermocouple was deployed at the setpoint.
F	06	East (A)	01/16/01	WAP / P01027:02	Tank condition was normal.
F	06	East (A)	01/16/01	DP / P01026:01-17	Tank condition was normal. Stains on top of the ventilation duct were caused by water dripping from the annulus cover plates.
F	06	East (A)	01/17/01	WAP / P01028:03	Tank condition had not changed. Stains on top of the ventilation duct were caused by water dripping from the annulus cover plates.
F	06	East (A)	01/25/01	CCTV / 750B	CCTV was used to determine if any liquid was present in the annulus and document tank conditions. Tank condition had not changed. No liquid was observed in the annulus.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	06	East (A)	01/27/01	CCTV / 750C	CCTV was used to determine if any liquid was present in the annulus and document tank conditions. Tank condition had not changed. No liquid was observed in the annulus.
F	06	East (A)	01/29/01	CCTV / 750C	CCTV was used to determine if any liquid was present in the annulus and document tank conditions. Tank condition had not changed. No liquid was observed in the annulus.
F	06	East (A)	02/04/01	CCTV / 750D	CCTV was used to determine if any liquid was present in the annulus and document tank conditions. Tank condition had not changed. No liquid was observed in the annulus.
F	06	East (A)	02/06/01	CCTV / 750D	Inspection verified that the annulus floor beneath the riser was dry.
F	06	East (A)	02/13/01	CCTV / 750E	Inspection verified that the annulus floor beneath the riser was dry.
F	06	East (A)	02/16/01	CCTV / 760	The magnetically mounted wall crawler did not identify any new leaksites; however, a suspect area was located >260 inches above the tank bottom and approximately 29 feet 6 inches north of the east riser. This is most likely calciferous deposits left during construction.
F	06	East (A)	02/20/01	CCTV / 750E	Inspection verified that the annulus floor beneath the riser was dry.
F	06	East (A)	02/27/01	CCTV / 750E	Inspection verified that the annulus floor beneath the riser was dry.
F	06	East (A)	03/05/01	CCTV / 750E	Inspection verified that the annulus floor beneath the riser was dry.
F	06	East (A)	03/12/01	CCTV / 750E	Inspection verified that the annulus floor beneath the riser remains dry. Viewing north all observable areas are dry. Viewing south a small pool of liquid was observed behind the ventilation duct inlet. This liquid does not extend beyond any area that was previously assumed wet as evidenced by the dried salt.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	06	East (A)	03/19/01	CCTV / 750E	Inspection verified that the annulus floor beneath the riser remains dry. A small pool of liquid observed south of the ventilation duct on 3/12/01 has not extended any further and is drying. The stains and marks on the top of the ventilation duct have not changed.
F	06	East (A)	03/26/01	CCTV / 750F	Inspection verified that the annulus floor beneath the riser was dry. The area south of the ventilation duct is drying and no liquid was observed.
F	06	East (A)	04/02/01	CCTV / 750 F	Inspection verified that the annulus floor beneath the riser was dry. The area south of the ventilation duct is drying and no liquid was observed.
F	06	East (A)	04/09/01	CCTV / 750 F	Inspection verified that the annulus floor beneath the riser was dry.
F	06	East (A)	04/16/01	CCTV / 750 F	Inspection verified that the annulus floor beneath the riser was dry.
F	06	East (A)	04/23/01	CCTV / 750 F	Inspection verified that the annulus floor beneath the riser was dry.
F	06	East (A)	04/30/01	CCTV / 750 G	Inspection verified that the annulus floor beneath the riser was dry.
F	06	East (A)	05/07/01	CCTV / 750G	Inspection verified that the annulus floor beneath the riser was dry.
F	06	East (A)	05/14/01	CCTV / 750G	Inspection verified that the annulus floor beneath the riser was dry.
F	06	East (A)	05/20/01	CCTV / 750G	Inspection verified that the annulus floor beneath the riser was dry.
F	06	East (A)	05/21/01	CCTV / 750G	Inspection verified that the annulus floor beneath the riser was dry.
F	06	East (A)	05/28/01	CCTV / 750H	Inspection verified that the annulus floor beneath the riser was dry.
F	06	East (A)	06/04/01	CCTV / 750 H	Inspection verified that the annulus floor beneath the riser was dry.
F	06	East (A)	06/11/01	CCTV / 750 H	Inspection verified that the annulus floor beneath the riser was dry.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	06	East (A)	06/18/01	CCTV / 750 H	Inspection verified that the annulus floor beneath the riser was dry.
F	06	East (A)	06/25/01	CCTV / 750 I	Inspection verified that the annulus floor beneath the riser was dry.
F	06	East (A)	07/02/01	CCTV / 750 I	Inspection verified that annulus floor beneath the riser was dry.
F	06	East (A)	07/09/01	CCTV / 750 I	Inspection verified that the annulus floor beneath the riser was dry.
F	06	East (A)	07/16/01	CCTV / 750 I	No changes were observed since last inspection.
F	06	East (A)	07/22/01	CCTV / 750 J	No changes were observed since last inspection.
F	06	East (A)	07/25/01	CCTV / 750 J	No changes were observed since last inspection.
F	06	East (A)	07/31/01	CCTV / 750 J	No changes were observed since last inspection.
F	06	East (A)	08/07/01	CCTV / 750 J	No changes were observed since last inspection.
F	06	East (A)	08/14/01	CCTV / 750 J	No changes were observed since last inspection.
F	06	East (A)	08/21/01	CCTV / 750 J	No changes were observed since last inspection.
F	06	East (A)	08/27/01	CCTV / 750 K	No changes were observed since last inspection.
F	06	East (A)	08/29/01	DP / P01201:01-20	Inspection was performed to establish a baseline after the leaked waste in the annulus had dried and formed a salt cake. The tank condition had not changed.
F	06	North (A)	01/16/01	CCTV / 750	CCTV was used to determine if any liquid was present in the annulus and document tank conditions. Tank condition was normal and no liquid was observed in the annulus.
F	06	North (A)	01/16/01	WAP / P01027:01	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	06	North (A)	01/16/01	DP / P01025:01-16	Tank condition was normal.
F	06	North (A)	01/17/01	WAP / P01028:01	Tank condition was normal.
F	06	North (A)	02/04/01	CCTV / 750D	Inspection revealed that the annulus floor beneath the riser was dry. The conductivity probe was deployed at the setpoint.
F	06	North (A)	02/06/01	CCTV / 750D	Inspection verified that the annulus floor beneath the riser was dry.
F	06	North (A)	03/23/01	CCTV / 750F	Inspection verified that the conditions in the annulus had not changed.
F	06	North (A)	05/21/01	CCTV / 750G	Inspection verified that the conditions in the annulus had not changed.
F	06	North (A)	05/26/01	CCTV / 760	A magnetically mounted wall crawler identified five suspect areas. These are most likely calciferous deposits made during construction. Four of the areas are > 260 inches above the tank bottom and are 23 feet, 24.5 feet and 25 feet 5 inches east of the north riser. One is approximately 251 inches above the tank bottom and approximately 26 feet east of the north riser.
F	06	North (A)	06/25/01	CCTV / 782	Inspection was performed after a conductivity probe alarm was received. Liquid was observed beneath the riser. No evidence of leakage from the tank was observed, and this liquid appeared after heavy rainfall occurred.
F	06	North (A)	06/28/01	CCTV / 782	CCTV was used to assist in obtaining a smear of liquid on annulus floor. The smear revealed no contamination indicating that the liquid was the result of rainwater inleakage.
F	06	North (A)	07/02/01	CCTV / 750 I	Tank condition had not changed. The annulus floor is dry and deposits on tank wall have not changed.
F	06	North (A)	07/09/01	CCTV / 750 I	Inspection verified that the annulus floor beneath the riser was dry.
F	06	North (A)	07/16/01	CCTV / 750 I	No changes were observed since last inspection.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	06	North (A)	07/24/01	CCTV / 750 J	Inspection was performed after a conductivity probe alarm was received. Liquid was observed beneath the riser. No evidence of leakage from the tank was observed, and this liquid appeared after heavy rainfall occurred.
F	06	North (A)	07/25/01	CCTV / 750 J	No changes were observed since last inspection.
F	06	North (A)	07/31/01	CCTV / 750 J	No changes were observed since last inspection.
F	06	North (A)	08/07/01	CCTV / 750 J	No changes were observed since last inspection.
F	06	North (A)	08/29/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	06	North (A)	08/29/01	DP / P01200:01-20	Inspection was performed to establish a baseline after the leaked waste observed beneath the East and South risers had dried and formed a salt cake. The tank condition had not changed. Stains and marks that originate from the top of the primary vessel wall were caused by rainwater which had leaked into the annulus. The tank condition had not changed.
F	06	South (A)	01/14/01	CCTV / 750	CCTV was used to document conditions in the annulus and to verify the presence of any liquid. Tank condition was normal; however, liquid was observed on the annulus floor. The liquid was approximately 0.5 inches deep and extended as far in each direction as observable. The origin of the liquid is unknown.
F	06	South (A)	01/16/01	DP / P01023:01-13	Tank condition was normal. Standing liquid from an unidentified origin was observed on the annulus floor.
F	06	South (A)	01/17/01	CCTV / 750	CCTV was used to monitor conditions in the annulus. Liquid was observed on the annulus floor and does not appear to have changed since last inspected on 1/16/01.
F	06	South (A)	01/17/01	WAP / P01028:02	Tank condition was normal. Standing liquid from an unidentified origin was observed on the annulus floor.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	06	South (A)	01/19/01	CCTV / 750C	CCTV was used to monitor conditions in the annulus. Liquid was still present on the annulus floor.
F	06	South (A)	01/21/01	CCTV / 750B	CCTV was used to monitor conditions in the annulus. Liquid was still present on the annulus floor.
F	06	South (A)	01/23/01	CCTV / 750B	CCTV was used to monitor conditions in the annulus. Liquid was still present on the annulus floor.
F	06	South (A)	01/25/01	CCTV / 750B	CCTV was used to assist with sampling the water in the annulus.
F	06	South (A)	01/27/01	CCTV / 750C	CCTV was used to monitor conditions in the annulus. Liquid was still present on the annulus floor.
F	06	South (A)	01/29/01	CCTV / 750D	CCTV was used to monitor conditions in the annulus. Liquid was still present on the annulus floor.
F	06	South (A)	02/06/01	CCTV / 750D	CCTV was used to monitor conditions in the annulus. The liquid observed on the annulus continues to dry. No other unusual conditions were observed.
F	06	South (A)	03/07/01	CCTV / 750E	Inspection revealed approximately one-half inch of free standing liquid with some crystallization of the leaked waste occurring.
F	06	South (A)	03/23/01	CCTV / 750F	Inspection verified that the leaked waste on the annulus floor continues to dry and form a salt cake/crust.
F	06	South (A)	04/19/01	CCTV / 750 F	Inspection revealed areas of free standing liquid and a salt cake/crust forming. There does not appear to be any increase of liquid in the annulus. The conductivity probe is encrusted with salt.
F	06	South (A)	04/23/01	CCTV / 750 F	Inspection verified that the leaked waste on the annulus floor continues to dry and form a salt cake/crust.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	06	South (A)	05/21/01	CCTV / 750G	Inspection verified that the leaked waste on the annulus floor continues to dry and form a salt cake/crust.
F	06	South (A)	06/18/01	CCTV / 750 H	Inspection revealed no free standing liquid. The annulus continues to dry and form a salt cake/crust.
F	06	South (A)	07/05/01	DP / P01186:01-10	Inspection verified that the leaked waste on the annulus floor continues to dry and form a salt cake/crust. No liquid was observed.
F	06	South (A)	07/16/01	CCTV / 750 I	No changes had occurred since last inspected.
F	06	South (A)	08/13/01	CCTV / 750 J	No changes had occurred since last inspected.
F	06	South (A)	08/18/01	CCTV / 750 J	No changes had occurred since last inspected.
F	06	South (A)	08/21/01	CCTV / 750 J	Inspection of the annulus floor revealed no significant changes since last inspection. The sounding of the annulus floor was inconclusive. A piece of the sleeving from the glovebag fell on the floor between the ventilation duct and the annulus pan.
F	06	South (A)	08/24/01	CCTV / 750 K	CCTV was used to document that the leaked waste on the annulus floor had dried and formed a salt cake/crust.
F	06	South (A)	08/24/01	CCTV / 750 K	CCTV was used to document sounding of the leaked waste and determine if any liquid existed beneath the salt cake/crust on the annulus floor. No liquid was observed beneath the salt cake/crust.
F	06	South (A)	08/27/01	CCTV / 750 K	No changes had occurred since last inspected.
F	06	South (A)	08/29/01	CCTV / 746	The conductivity probe was deployed at the setpoint; however, it was encrusted with salt.
F	06	South (A)	08/29/01	DP / P01198:01-20	Inspection was performed to establish a baseline after the leaked waste in the annulus had dried and formed a salt cake. The tank condition had not changed.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	06	South (A)	09/12/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	06	South (A)	09/19/01	CCTV / 750 K	Tank condition had not changed.
F	06	South (A)	10/16/01	CCTV / 750 K	Tank conditions had not changed.
F	06	South (A)	11/17/01	CCTV / 750 K	Tank condition had not changed.
F	06	South (A)	12/15/01	DP / P01289:01-10	Tank condition had not changed.
F	06	West (A)	01/16/01	CCTV / 750	CCTV was used to document conditions in the annulus and to verify the presence of any liquid. Tank condition was normal; however, liquid was observed on the annulus floor. The liquid was approximately 0.5 inches deep and extended as far in each direction as observable. The origin of the liquid is unknown.
F	06	West (A)	01/16/01	DP / P01024:01-17	Tank condition was normal. Standing liquid was observed on the annulus floor. The origin of the liquid is unknown.
F	06	West (A)	01/17/01	WAP / P01028:04	Tank condition was normal. Standing liquid was observed on the annulus floor. The origin of the liquid is unknown.
F	06	West (A)	01/19/01	CCTV / 750C	CCTV was used to document conditions in the annulus. Standing liquid was observed on the annulus floor.
F	06	West (A)	01/21/01	CCTV / 750	CCTV was used to document conditions in the annulus. Standing liquid was observed in the annulus; however, it continues to evaporate and form a salt crust/cake.
F	06	West (A)	01/23/01	CCTV / 750B	CCTV was used to document conditions in the annulus. Standing liquid was observed in the annulus. The level had not changed since inspected on 1/21/01.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	06	West (A)	01/25/01	CCTV / 750B	CCTV was used to document conditions in the annulus. Standing liquid was observed in the annulus; however, it continues to evaporate and form a salt crust/cake.
F	06	West (A)	01/27/01	CCTV / 750C	CCTV was used to document conditions in the annulus. Standing liquid was observed in the annulus; however, it continues to evaporate and form a salt crust/cake.
F	06	West (A)	01/29/01	CCTV / 750C	CCTV was used to document conditions in the annulus. Standing liquid was observed in the annulus; however, it continues to evaporate and form a salt crust/cake.
F	06	West (A)	02/01/01	CCTV / 750D	Inspection was done to monitor the liquid in the annulus. The area between the primary vessel wall and ventilation duct appears damp while the area between the secondary vessel wall and ventilation duct has some standing liquid.
F	06	West (A)	02/04/01	CCTV / 750D	CCTV was used to document conditions in the annulus. Standing liquid was observed in the annulus; however, it continues to evaporate and form a salt crust/cake.
F	06	West (A)	02/06/01	CCTV / 750D	CCTV was used to document conditions in the annulus. Standing liquid was observed in the annulus; however, it continues to evaporate and form a salt crust/cake.
F	06	West (A)	02/07/01	CCTV / 750D	CCTV was used to document conditions in the annulus. Standing liquid was observed in the annulus; however, it continues to evaporate and form a salt crust/cake.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	06	West (A)	02/08/01	CCTV / 760	A magnetically mounted wall crawler identified three leaksites. Leaksite # 1 is 233 inches above the tank bottom and is approximately 24 feet north of the west riser. Leaksite # 2 is 233 inches above the tank bottom and is approximately 24 feet 4 inches north of the west riser. Leaksite # 3 is 233 inches above the tank bottom and is approximately 27 feet north of the west riser. All three leaksites are located at the top horizontal weld between the top plate and the upper knuckle plate.
F	06	West (A)	02/09/01	CCTV / 750D	A pool of liquid was observed forming on the annulus floor when the ventilation system was down for annulus inspections. The liquid is most likely from a reactivated leak site.
F	06	West (A)	02/09/01	CCTV / 760	A magnetically mounted wall crawler identified two additional leaksites. Leaksite # 4 is 165 inches above the tank bottom and is approximately 25 feet north of the west riser. Leaksite # 5 is 129 inches above the tank bottom and is approximately 7 feet north of the west riser and is located on the middle girth weld.
F	06	West (A)	02/12/01	CCTV / 750E	Inspection was done to monitor the drying process of the liquid observed on the annulus floor. The liquid continues to dry and form a salt cake/crust as it evaporates.
F	06	West (A)	02/13/01	CCTV / 760	A magnetically mounted wall crawler identified one additional leaksite. Leaksite # 6 is 145 inches above the tank bottom and is on a vertical weld approximately 18.5 inches south of the west riser. Salt nodules with a trail extending to the annulus floor were observed.
F	06	West (A)	02/16/01	CCTV / 750E	Inspection was done to monitor the drying process of the liquid observed on the annulus floor. The liquid continues to dry and form a salt cake/crust as it evaporates.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	06	West (A)	02/19/01	CCTV / 750E	Inspection was done to monitor the drying process of the liquid observed on the annulus floor. The liquid continues to dry and form a salt cake/crust as it evaporates. No large areas of standing liquid was observed, but four small pools of liquid were observed.
F	06	West (A)	02/22/01	CCTV / 750E	Inspection was done to monitor the drying process of the liquid observed on the annulus floor. The liquid continues to dry and form a salt cake/crust as it evaporates. No large areas of standing liquid were observed, but a few small pools of liquid remain on top of the waste that is drying.
F	06	West (A)	02/24/01	CCTV / 750E	Inspection was done to monitor the drying process of the liquid observed on the annulus floor. The liquid continues to dry and form a salt cake/crust as it evaporates.
F	06	West (A)	02/27/01	CCTV / 750E	Inspection revealed that the waste on the annulus floor has formed a crystallized layer. There is no evidence of standing liquid; however, further inspection will determine if there is a significant quantity of liquid below the crystallized salt layer.
F	06	West (A)	03/02/01	CCTV / 750E	Inspection revealed that the waste continues to dry and the conditions have not changed since inspected on 2/27/01.
F	06	West (A)	03/05/01	CCTV / 750E	Inspection revealed that the waste in the annulus has not increased. However, the appearance has changed due to liquid crystallizing and forming a thin crust.
F	06	West (A)	03/08/01	CCTV / 750E	CCTV was used to determine the level of the liquid below the salt cake layer. Using a beveled plumb bob lowered through the salt cake, it was estimated that 3/8 inches of liquid remains in the annulus beneath the riser.
F	06	West (A)	03/10/01	CCTV / 750E	Inspection revealed that the waste continues to dry and the conditions have not changed since last inspected.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	06	West (A)	03/13/01	CCTV / 750E	Inspection revealed that there were no changes since last inspected. Liquid is still present in the annulus. A salt cake/crust continues to form on the surface of the leaked waste.
F	06	West (A)	03/16/01	CCTV / 750E	Inspection revealed that there were no changes since last inspected. Liquid is still present in the annulus. A salt cake/crust continues to form on the surface of the leaked waste.
F	06	West (A)	03/19/01	CCTV / 750E	Inspection revealed that there were no changes since last inspected. Liquid is still present in the annulus. A salt cake/crust continues to form on the surface of the leaked waste.
F	06	West (A)	03/22/01	CCTV / 750F	Inspection revealed that there were no changes since last inspected. Liquid is still present in the annulus. A salt cake/crust continues to form on the surface of the leaked waste.
F	06	West (A)	03/25/01	CCTV / 750F	Inspection revealed that there were no changes since last inspected. Liquid is still present in the annulus. A salt cake/crust continues to form on the surface of the leaked waste.
F	06	West (A)	03/28/01	CCTV / 750F	Inspection revealed that there were no changes since last inspected. Liquid is still present in the annulus. A salt cake/crust continues to form on the surface of the leaked waste.
F	06	West (A)	03/30/01	CCTV / 750F	Inspection revealed that there were no changes since last inspected. Liquid is still present in the annulus. A salt cake/crust continues to form on the surface of the leaked waste.
F	06	West (A)	04/03/01	CCTV / 750 F	Inspection revealed that there were no changes since last inspected. Liquid is still present in the annulus. A salt cake/crust continues to form on the surface of the leaked waste.
F	06	West (A)	04/06/01	CCTV / 750 F	Inspection revealed that there were no changes since last inspected. Liquid is still present in the annulus. A salt cake/crust continues to form on the surface of the leaked waste.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	06	West (A)	04/09/01	CCTV / 750 F	Inspection revealed that there were no changes since last inspected. Liquid is still present in the annulus. A salt cake/crust continues to form on the surface of the leaked waste.
F	06	West (A)	04/12/01	CCTV / 750 F	Inspection revealed that there were no changes since last inspected. Liquid is still present in the annulus. A salt cake/crust continues to form on the surface of the leaked waste.
F	06	West (A)	04/15/01	CCTV / 750 F	Inspection revealed that there were no changes since last inspected. Liquid is still present in the annulus. A salt cake/crust continues to form on the surface of the leaked waste.
F	06	West (A)	04/18/01	CCTV / 750 F	Inspection revealed that there were no changes since last inspected. Liquid is still present in the annulus. A salt cake/crust continues to form on the surface of the leaked waste.
F	06	West (A)	04/21/01	CCTV / 750 F	Inspection revealed that there were no changes since last inspected. Liquid is still present in the annulus. A salt cake/crust continues to form on the surface of the leaked waste.
F	06	West (A)	04/23/01	CCTV / 750 F	Inspection revealed that there were no changes since last inspected. Liquid is still present in the annulus. A salt cake/crust continues to form on the surface of the leaked waste.
F	06	West (A)	04/26/01	CCTV / 750 F	Inspection revealed that there were no changes since last inspected. Liquid is still present in the annulus. A salt cake/crust continues to form on the surface of the leaked waste.
F	06	West (A)	04/29/01	CCTV / 750 G	Inspection revealed that there were no changes since last inspected. Liquid is still present in the annulus. A salt cake/crust continues to form on the surface of the leaked waste.
F	06	West (A)	05/02/01	CCTV / 750G	Inspection of the annulus floor revealed that the waste continues to dry and form a salt cake/crust. Some small pockets of liquid were observed.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	06	West (A)	05/05/01	CCTV / 750G	Inspection revealed that the waste on the annulus floor continues to dry and form a salt cake/crust.
F	06	West (A)	05/08/01	CCTV / 750-G	Inspection revealed that the waste on the annulus floor continues to dry and form a salt cake/crust.
F	06	West (A)	05/11/01	CCTV / 750G	Inspection revealed that the waste on the annulus floor continues to dry and form a salt cake/crust.
F	06	West (A)	05/14/01	CCTV / 750G	Inspection revealed that the waste on the annulus floor continues to dry and form a salt cake/crust.
F	06	West (A)	05/17/01	CCTV / 750G	Inspection revealed that the waste on the annulus floor continues to dry and form a salt cake/crust.
F	06	West (A)	05/20/01	CCTV / 750G	Inspection revealed that the waste on the annulus floor continues to dry and form a salt cake/crust.
F	06	West (A)	05/23/01	CCTV / 750H	Inspection revealed that the waste on the annulus floor continues to dry and form a salt cake/crust.
F	06	West (A)	05/26/01	CCTV / 750H	Inspection revealed that the waste on the annulus floor continues to dry and form a salt cake/crust.
F	06	West (A)	05/29/01	CCTV / 750H	Inspection revealed that the waste on the annulus floor continues to dry and form a salt cake/crust.
F	06	West (A)	05/31/01	CCTV / 750H	Inspection revealed that the waste on the annulus floor continues to dry and form a salt cake/crust.
F	06	West (A)	06/03/01	CCTV / 750 G	Inspection revealed that the leaked waste on the annulus floor continues to dry and form a salt cake/crust.
F	06	West (A)	06/06/01	CCTV / 750 G	Inspection revealed that the annulus conditions have not changed since last inspected.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	06	West (A)	06/09/01	CCTV / 750 H	Inspection revealed slight changes in the waste on the annulus floor. These slight changes are the result of new salt nodules forming and the increase in size of other nodules. Liquid is still present on the annulus floor.
F	06	West (A)	06/12/01	CCTV / 750 H	Inspection revealed that the annulus continues to dry and some small changes have occurred in the salt cake/crust. A piece of black air sampling hose approximately 20' long became dislodged and fell to the floor between the tank wall and the ventilation duct.
F	06	West (A)	06/15/01	CCTV / 750 H	Inspection revealed that the annulus conditions have not changed since last inspected.
F	06	West (A)	06/18/01	CCTV / 750 H	Inspection revealed that the annulus conditions have not changed since last inspected.
F	06	West (A)	06/21/01	CCTV / 750 H	Inspection revealed that the annulus conditions have not changed since last inspected. The leaked waste continues to dry as evidenced by the formation of new nodules and the increase in size of these nodules.
F	06	West (A)	06/24/01	CCTV / 750 I	Inspection revealed that the annulus conditions have not changed since last inspected.
F	06	West (A)	06/25/01	CCTV / 750 I	Inspection revealed that the leaked waste on the floor beneath the riser appears dry.
F	06	West (A)	06/28/01	CCTV / 750 I	No change since last inspected.
F	06	West (A)	07/01/01	CCTV / 750 I	No change since last inspected.
F	06	West (A)	07/04/01	CCTV / 750 I	No change since last inspected.
F	06	West (A)	07/07/01	CCTV / 750 I	No change since last inspected.
F	06	West (A)	07/10/01	CCTV / 750 I	No change since last inspected.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER			REMARKS
F	06	West (A)	07/13/01	CCTV	/	750 I	No change since last inspected.
F	06	West (A)	07/16/01	CCTV	/	750 I	No change since last inspected.
F	06	West (A)	07/19/01	CCTV	/	750 J	No change since last inspected.
F	06	West (A)	07/22/01	CCTV	/	750 J	No change since last inspected.
F	06	West (A)	07/25/01	CCTV	/	750 J	No change since last inspected.
F	06	West (A)	07/28/01	CCTV	/	750 J	No change since last inspected.
F	06	West (A)	07/31/01	CCTV	/	750 J	No change since last inspected.
F	06	West (A)	08/03/01	CCTV	/	750 J	No change since last inspected.
F	06	West (A)	08/06/01	CCTV	/	750 J	No change since last inspected.
F	06	West (A)	08/09/01	CCTV	/	N/A	No change since last inspected.
F	06	West (A)	08/10/01	CCTV	/	750 J	No change since last inspected.
F	06	West (A)	08/12/01	CCTV	/	750 J	No change since last inspected.
F	06	West (A)	08/15/01	CCTV	/	750 J	No change since last inspected.
F	06	West (A)	08/15/01	CCTV	/	750 J	CCTV was used to assist in the sounding beneath the riser to determine if any liquid existed below the salt cake. The bob was lowered several times into the salt cake and no liquid was observed.
F	06	West (A)	08/29/01	DP	/	P01199:01-17	Inspection was performed to establish a baseline after the leaked waste in the annulus had dried and formed a salt cake. The tank condition had not changed. A small white deposit was observed on the tank wall. Further inspections will be performed.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	06	West (A)	09/19/01	DP / P01215:01-14	Inspection was performed to monitor a deposit observed on the tank wall 8/29/01. The deposit was no longer visible. Tank condition had not changed.
F	06	West (A)	09/26/01	DP / P01219: 01-14	Tank condition had not changed. The deposit observed on 8/29/01 was not visible on the tank wall.
F	06	02 (I)	04/11/01	CCTV / 750 F	Inspection confirmed the presence of a "splash guard" and downcomer attached to the tank walls where the transfer lines from FDB-01 enter the tank. The plates attached to the tank wall are in the vicinity of four of the leak sites observed from the annulus. These plates are approximately 230 inches from the tank bottom.
F	07	08	04/26/01	CCTV / 769	CCTV was used to facilitate remote operations during cutting of a transfer line terminal inside riser 8.
F	07	VB-01	01/10/01	CCTV / 748	The conductivity probes were deployed at the setpoint; however, the floor and walls of the valve box were wet.
F	07	VB-03	01/10/01	CCTV / 748	The conductivity probes were deployed at the setpoint; however, the floor of the valve box was damp.
F	07	VB-04	07/12/01	CCTV / 748 C	Inspection revealed no standing water; however, the floor was damp. No other unusual conditions were observed.
F	07	VB-05	01/06/01	CCTV / 748	The conductivity probes were deployed at the setpoint.
F	07	VB-05	05/08/01	CCTV / N/A	Inspection verified that valve WTS-V-63 was in the open position and then verified closed after the interarea line was drained.
F	07	VB-05	07/27/01	CCTV / 748 C	The conductivity probes were deployed at the setpoint.
F	07	VB-05	08/07/01	CCTV / 748 C	The conductivity probes were deployed at the setpoint.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	07	WT17015	11/06/01	CCTV / 748E	CCTV was used to inspect approximately 38' of transfer line WT17015. The line was free of obstructions and dry.
F	07	North (A)	04/02/01	WAP / P01122:01	Tank condition was normal.
F	07	North (A)	08/31/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	07	South (A)	04/02/01	WAP / P01122:02	Tank condition was normal.
F	07	South (A)	08/31/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	07	West (A)	04/02/01	DP / P01124:15	The magnetically mounted thermocouple was deployed at the setpoint.
F	07	West (A)	04/02/01	DP / P01124:01-17	Tank condition was normal.
F	07	01 (I)	08/23/01	CCTV / 770	CCTV was used to observe flushing of feed pump legs.
F	07	01 (I)	09/04/01	CCTV / 770	CCTV was used to document conditions of tank interior and to determine if any attachments were present on the tank steel wall. Inspection revealed attachments to support the cooling coils on the tank wall. One broken cooling coil hanger was observed.
F	07	03 (I)	09/04/01	CCTV / 770	CCTV was used to document conditions of tank interior and to determine if any attachments were present on the tank steel wall. Inspection revealed attachments to support the cooling coils on the tank wall. Three broken cooling coil hangers were observed.
F	07	05 (I)	04/05/01	CCTV / 748	CCTV was used to document alignment of spray chamber. The spray chamber was not properly aligned.
F	07	05 (I)	04/05/01	CCTV / 748	CCTV was used to document alignment of spray chamber. The spray chamber was not properly aligned.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	07	05 (I)	05/10/01	CCTV / 770	CCTV was used to assist in checking dimensions of spray chamber and riser.
F	07	07 (I)	08/16/01	CCTV / 770	CCTV was used to identify any attachments on the tank wall. Several attachments were observed on the South side of the tank. These attachments are supporting the cooling coils. Several broken cooling coil support hangers were observed.
F	08	LDB-17	02/24/01	CCTV / 747	Inspection revealed a small amount of condensate on the floor. Only one conductivity probe was visible in the standpipe. A second probe is installed, but does not extend below the bottom of the standpipe.
F	08	LDB-17	02/25/01	CCTV / 747	Conductivity probes WTS-LE-60A and WTS-LE-60B were deployed at the setpoint.
F	08	LDB-17	05/24/01	CCTV / 747	The conductivity probes were deployed at the setpoint.
F	08	East (A)	01/30/01	WAP / P01045:03	Tank condition was normal.
F	08	East (A)	02/16/01	DP / P01113:13	The magnetically mounted thermocouple was deployed at the setpoint.
F	08	East (A)	02/16/01	DP / P01113:01-15	Tank condition was normal. Stains on the primary vessel wall and stains and deposits on the annulus floor have increased since last inspected on 2/4/97.
F	08	East (A)	03/23/01	CCTV / 746	The magnetically mounted thermocouple was deployed at the setpoint.
F	08	East (A)	06/23/01	CCTV / 783	Tank condition was normal. Stains on the tank wall which were caused by rainwater inleakage appear to have increased.
F	08	East (A)	06/26/01	DP / P01154:01-11	Tank condition was normal. Stains and marks on the primary vessel wall have increased due to the inleakage of rainwater.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	08	North (A)	01/30/01	WAP / P01045:02	Tank condition was normal.
F	08	North (A)	06/23/01	CCTV / 783	Tank condition was normal. Stains on the tank wall which were caused by rainwater inleakage appear to have increased.
F	08	North (A)	06/26/01	DP / P01155:01-10	Tank condition was normal. Stains and marks on the primary vessel wall have increased due to the inleakage of rainwater.
F	08	North (A)	08/29/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	08	South (A)	01/30/01	WAP / P01045:01	Tank condition was normal.
F	08	South (A)	06/23/01	CCTV / 783	Tank condition was normal. Stains on the tank wall which were caused by rainwater inleakage appear to have increased.
F	08	South (A)	06/26/01	DP / P01153:01-10	Tank condition was normal. Stains and marks on the primary vessel wall have increased due to the inleakage of rainwater.
F	08	South (A)	08/29/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	08	West (A)	01/30/01	WAP / P01045:04	Tank condition was normal.
F	08	West (A)	06/23/01	CCTV / 783	Tank condition was normal. Stains on the tank wall which were caused by rainwater inleakage appear to have increased.
F	08	West (A)	06/26/01	DP / P01156:01-10	Tank condition was normal. Stains and marks on the primary vessel wall have increased due to the inleakage of rainwater.
F	08	04 (I)	02/02/01	CCTV / 748	Inspection revealed that the thermowell extended into the liquid.
F	08	Center (I)	01/11/01	CCTV / 752	CCTV was used to document conditions of tank during slurrying and transfer to Tank 40. No unusual conditions were observed.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	08	Center (I)	01/13/01	CCTV / 752	CCTV was used to document conditions of tank during slurrying and transfer to Tank 40. No unusual conditions were observed.
F	08	Center (I)	01/14/01	CCTV / 752	CCTV was used to document conditions of tank during slurrying and transfer to Tank 40. No unusual conditions were observed.
F	08	Center (I)	01/24/01	CCTV / 752	CCTV was used to document conditions of tank during slurrying and transfer to Tank 40. No unusual conditions were observed.
F	08	Center (I)	01/25/01	CCTV / 752	CCTV was used to document conditions of tank during slurrying and transfer to Tank 40. No unusual conditions were observed. Only one significant mound, approximately 48 inches at it's peak, was observed. The remainder of the tank was <4 inches, on average.
F	08	Center (I)	01/26/01	CCTV / 752	CCTV was used to document conditions of tank interior during flush of transfer pump and piping. No increase in the liquid was observed. No other mounds were observed.
F	08	Center (I)	03/14/01	CCTV / N/A	Inspection revealed that valve WTS-V-69 at VB-01, WTS-V-76 at VB-03 and valve WTS-V-82 at VB-04 were not leaking into the tank.
F	08	Center (I)	03/18/01	CCTV / N/A	Inspection revealed that the transfer pump was leak free.
H	09	South (A)	04/11/01	DP / P01126:01-17	Tank condition had not changed. Liquid was observed in the annulus. This liquid is most likely from ground water intrusion or the inleakage of rainwater.
H	09	South (A)	05/24/01	CCTV / 773	Tank condition had not changed. Water had entered the annulus and reconfigured the leaked waste on the annulus floor. The waste was damp, and standing liquid was visible.
H	09	South (A)	08/03/01	CCTV / 746	The conductivity probe was deployed at the setpoint.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	09	West (A)	04/12/01	WAP / P01131:01	Tank condition had not changed. Liquid was observed in the annulus. This liquid is most likely from ground water intrusion or the inleakage of rainwater.
H	09	West (A)	05/24/01	CCTV / 773	Tank had not changed. Water had entered the annulus and reconfigured the leaked waste on the annulus floor. The waste was damp and standing liquid was visible.
H	09	West (A)	08/03/01	CCTV / 746	The magnetically mounted thermocouple was deployed at the setpoint.
H	09	West (A)	11/01/01	CCTV / 746A	The conductivity probe was deployed at the setpoint.
H	09	03 (I)	05/30/01	CCTV / 748B	Inspection determined that the tank interior was not accessible through the riser. TTJ service piping configuration was documented.
H	09	08 (I)	05/24/01	CCTV / 773	CCTV was used to document conditions of tank interior. The surface was dried salt with some pools of liquid observed beneath the access risers. No unusual conditions were observed.
H	09	08 (I)	06/25/01	CCTV / 780	Inspection revealed that the reel tape was free of obstructions and positioned above a pool of liquid. The waste surface was salt with a few pools of liquid beneath some risers.
H	09	08 (I)	10/23/01	CCTV / 748 d	CCTV was used to document the conditions beneath the reel tape. The reel tape is positioned above the salt cake and no unusual conditions were observed.
H	10	02	11/28/01	CCTV / 748 G	CCTV revealed that the conductivity probe standpipe was unobstructed and open to the riser. The standpipe was measured for proper installation of a conductivity probe.
H	10	East (A)	04/17/01	CCTV / 746	The conductivity probe was deployed at the setpoint.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	10	East (A)	04/28/01	DP / P01133:16	The magnetically mounted thermocouple was deployed at the setpoint.
H	10	East (A)	04/28/01	DP / P01133:01-17	Tank condition had not changed.
H	10	East (A)	06/20/01	CCTV / 748-B	Inspection was performed in response to a conductivity probe alarm. No liquid or unusual conditions were observed.
H	10	North (A)	04/28/01	DP / P01134:01-17	Tank condition had not changed.
H	10	North (A)	08/03/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	10	West (A)	10/26/01	WAP / P01247:01	Tank condition had not changed.
H	10	02 (I)	10/10/01	CCTV / 748 D	CCTV was used to deploy two conductivity probes in the transfer jet riser. The probes were not visible. Pipe fittings, conduit, old probes wire and a lead plate were observed in the riser.
H	11	East (A)	04/12/01	WAP / P01132:02	Tank condition had not changed. An increase in deposits was observed on the annulus floor between the ventilation duct and the secondary vessel wall. The deposits are from the ledge at the top of the pan.
H	11	East (A)	05/26/01	CCTV / 748	Inspection revealed that the dry white deposits around the outer wall on the annulus floor are unchanged from photographic inspections on 2/4/2000.
H	11	East (A)	10/10/01	DP / P01232:01-21	Tank condition had not changed.
H	11	North (A)	04/12/01	WAP / P01132:01	Tank condition had not changed.
H	11	North (A)	08/05/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	11	North (A)	09/28/01	DP / P01231:01-20	Tank condition had not changed. Stains observed on the annulus floor were caused by water inleakage.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	11	South (A)	04/11/01	DP / P01127:01-17	Tank condition had not changed.
H	11	South (A)	10/10/01	CCTV / 746 A	The conductivity probe was deployed at the setpoint.
H	11	South (A)	10/10/01	DP / P01234:01-17	Tank condition had not changed.
H	11	West (A)	04/11/01	DP / P01128:15	The magnetically mounted thermocouple was deployed at the setpoint.
H	11	West (A)	04/11/01	DP / P01128:01-17	Tank condition had not changed.
H	11	West (A)	10/10/01	DP / P01233:01-20	Tank condition had not changed.
H	11	08 (I)	07/22/01	CCTV / 780	CCTV was used to identify an attachment to the tank steel wall. Inspection revealed the attachment to be a cooling coil support bracket.
H	11	Center (I)	06/25/01	CCTV / 780	Inspection of the reel tape was inconclusive; the probe was not visible. Liquid was observed throughout the tank with no solids on the surface.
H	12	East (A)	04/11/01	DP / P01130:15	The magnetically mounted thermocouple was deployed at the setpoint.
H	12	East (A)	04/11/01	DP / P01130:1-17	Tank condition had not changed.
H	12	North (A)	04/24/01	WAP / P01137:01	Tank condition had not changed.
H	12	North (A)	08/04/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	12	South (A)	04/11/01	DP / P01129:1-17	Tank condition had not changed.
H	12	South (A)	08/04/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	12	West (A)	11/01/01	WAP / P01256:01	Tank condition had not changed.
H	13	LDB-02	02/28/01	CCTV / 747	The conductivity probe was deployed at the setpoint.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	13	010 (A)	11/15/01	WAP / PO1258:01	Tank condition had not changed.
H	13	032 (A)	04/24/01	WAP / P01147:04	Tank condition had not changed.
H	13	055 (A)	04/24/01	WAP / P01147:05	Tank condition had not changed.
H	13	071 (A)	04/18/01	WAP / P01147:06	Tank condition had not changed.
H	13	107 (A)	04/24/01	WAP / P01147:07	Tank condition had not changed. Stains and marks on the primary vessel wall were caused by water which had leaked into the annulus.
H	13	151 (A)	04/24/01	WAP / P01147:08	Tank condition had not changed.
H	13	175 (A)	05/02/01	DP / P01145:01-16	Tank condition had not changed.
H	13	207 (A)	05/02/01	DP / P01146:01-16	Tank condition had not changed.
H	13	228 (A)	04/24/01	WAP / P01147:09	Tank condition had not changed.
H	13	East (A)	11/03/01	DP / P01254:01-17	Tank condition had not changed.
H	13	North (A)	04/24/01	WAP / P01147:01	Tank condition had not changed.
H	13	North (A)	08/05/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	13	North (A)	11/03/01	CCTV / 746 A	The magnetically mounted thermocouple was deployed at the setpoint.
H	13	South (A)	04/24/01	WAP / P01147:02	Tank condition had not changed.
H	13	South (A)	08/05/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	13	West (A)	04/18/01	WAP / P01147:03	Tank condition had not changed.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	13	West (A)	11/03/01	DP / P01255:01-17	Tank condition had not changed. Stains and marks on the primary vessel wall were caused by water, which had leaked into the annulus.
H	14	E-01	01/11/01	CCTV / 748	CCTV was used to examine the plastic liner of the port where the reel tape entered the tank. No indications of deterioration in the liner were observed. No other unusual conditions were observed.
H	14	013 (A)	10/27/01	DP / P01243:01-17	Tank condition had not changed.
H	14	032 (A)	04/24/01	WAP / P01140:01	Tank condition had not changed.
H	14	065 (A)	04/24/01	WAP / P01140:02	Tank condition had not changed.
H	14	108 (A)	04/24/01	WAP / P01140:03	Tank condition had not changed.
H	14	118 (A)	10/27/01	DP / P01244:01-17	Tank condition had not changed.
H	14	125 (A)	04/24/01	WAP / P01140:04	Tank condition had not changed.
H	14	151 (A)	10/24/01	DP / P01051:01-17	Tank condition had not changed.
H	14	170 (A)	10/24/01	DP / P01240:01-17	Tank condition had not changed.
H	14	207 (A)	10/30/01	DP / P01245:01-17	Tank condition had not changed.
H	14	235 (A)	10/24/01	DP / P01241:01-17	Tank condition had not changed.
H	14	259 (A)	10/27/01	DP / P01246:01-17	Tank condition had not changed.
H	14	East (A)	08/10/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	14	East (A)	10/30/01	DP / P01242:01-17	Tank condition had not changed.
H	14	North (A)	08/10/01	CCTV / 746	The conductivity probe was deployed at the setpoint.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	14	North (A)	08/10/01	CCTV / 746	The magnetically mounted thermocouple was deployed at the setpoint.
H	14	North (A)	09/25/01	CCTV / 746	Inspection was performed to determine if the thermocouple was properly attached to the tank wall and if any evidence of water inleakage was present. The thermocouple was properly attached and no inleakage was observed.
H	14	North (A)	11/15/01	DP / P01257:01-17	Tank condition had not changed.
H	14	North (A)	12/07/01	CCTV / 746 A	The magnetically mounted thermocouple was deployed at the setpoint.
H	14	3'6" (I)	01/11/01	CCTV / 780	CCTV was used to document the conditions of the tank and reel tape. The reel tape was not visible. The waste was dry salt with a few small pools of liquid observed and the cooling coils were encrusted with salt from a thin coat to a few inches.
H	14	3'6" (I)	06/23/01	CCTV / 780	CCTV was used to document the conditions of the tank and reel tape. The reel tape was not visible. The waste was dry salt with a few small pools of liquid observed and the cooling coils were encrusted with salt from a thin coat to a few inches.
H	15	Purge Reheater	12/21/01	CCTV / 748 H	CCTV was used to inspect the purge air reheater for steam leaks. No leaks were observed.
H	15	010 (A)	11/01/01	DP / P01249:01-17	Tank condition had not changed.
H	15	032 (A)	04/26/01	WAP / P01139:04	Tank condition had not changed. Stains and marks on the primary vessel wall have increased since last inspected on 3/29/99.
H	15	055 (A)	04/26/01	WAP / P01139:05	Tank condition had not changed.
H	15	071 (A)	04/26/01	WAP / P01139:06	Tank condition had not changed. Stains and marks on the primary vessel wall have increased since last inspected on 3/29/99.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	15	107 (A)	11/01/01	DP / P01250:01-17	Tank condition had not changed. Calciferous deposits on the primary vessel wall have increased due to the inleakage of rainwater.
H	15	117 (A)	08/09/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	15	137 (A)	11/01/01	DP / P01251:01-17	Tank condition had not changed.
H	15	171 (A)	11/01/01	DP / P01252:01-16	Tank condition had not changed.
H	15	182 (A)	11/01/01	DP / P01253:01-17	Tank condition had not changed.
H	15	207 (A)	04/26/01	WAP / P01139:07	Tank condition had not changed. Stains and marks on the primary vessel wall have increased since last inspected on 3/29/99.
H	15	223 (A)	04/26/01	WAP / P01139:08	Tank condition had not changed.
H	15	242 (A)	08/09/01	CCTV / 746	The magnetically mounted thermocouple was deployed at the setpoint.
H	15	East (A)	04/26/01	WAP / P01139:02	Tank condition had not changed.
H	15	North (A)	04/26/01	WAP / P01139:01	Tank condition had not changed.
H	15	South (A)	11/01/01	DP / P01248:01-17	Tank condition had not changed.
H	15	South (A)	11/17/01	CCTV / 746 A	The conductivity probe was raised above the ventilation duct so it could be observed, then lowered until it disappeared beneath the ventilation duct. The conductivity probe was deployed at the setpoint.
H	15	West (A)	04/26/01	WAP / P01139:03	Tank condition had not changed.
H	15	3'6" (I)	04/04/01	CCTV / 748	Inspection revealed that the waste surface around the reel tape was wet and uneven. Water inleakage from an unidentified source was observed entering the tank.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	15	3'6" (I)	04/05/01	CCTV / 748	CCTV was used to investigate source of water inleakage. Inspection revealed a pipe extending from the riser opening to just inside the riser. No further water inleakage was observed.
H	15	3'6" (I)	06/23/01	CCTV / 780	Inspection revealed no obstructions beneath the reel tape. The waste surface was dry sludge with cracks and crevices several inches deep.
H	15	3'6" (I)	08/29/01	CCTV / 780	Inspection revealed that the surface of the waste is dry sludge with cracks and crevices throughout the tank. The reel tape was parked a few feet above the surface.
H	16	035 (A)	10/11/01	DP / P01236:01-17	Tank condition had not changed. Water had leaked into the annulus and reconfigured the leaked waste in the annulus pan.
H	16	118 (A)	10/11/01	DP / P01237:01-17	Tank condition had not changed. Water had leaked into the annulus and reconfigured the leaked waste in the annulus pan.
H	16	207 (A)	10/11/01	DP / P01238:01-17	Tank condition had not changed. Water had leaked into the annulus and reconfigured the leaked waste in the annulus pan.
H	16	262 (A)	10/11/01	DP / P01239:01-17	Tank condition had not changed. Water had leaked into the annulus and reconfigured the leaked waste in the annulus pan.
H	16	East (A)	04/26/01	WAP / P01138:01	Tank condition had not changed. Water had leaked into the annulus and reconfigured the leaked waste in the annulus pan.
H	16	West (A)	04/26/01	WAP / P01138:02	Tank condition had not changed. Water had leaked into the annulus and reconfigured the leaked waste in the annulus pan.
F	18	NE	12/04/01	CCTV / 818 A	CCTV was used to verify that steam introduced into the spray ring nozzles entered the spray chamber freely. No unusual conditions were observed.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	18	Center (I)	01/03/01	CCTV / 698	CCTV was used to monitor transfer from Tank 19. No unusual conditions were observed.
F	18	Center (I)	01/10/01	CCTV / 698	CCTV was used to monitor transfer from Tank 19. No unusual conditions were observed.
F	18	Center (I)	01/28/01	CCTV / 698	CCTV was used to monitor transfer from Tank 19. No unusual conditions were observed.
F	18	Center (I)	09/26/01	CCTV / 793	Tank steel wall condition was normal. Inspection of the concrete dome revealed a few small surface voids, water marks and stains. Some waste was observed on the tank wall below the bottom girth weld.
F	18	Center (I)	11/15/01	CCTV / 698	CCTV was used to facilitate the remote sludge sounding of the waste.
F	19	Center (I)	01/03/01	CCTV / 698	CCTV was used to monitor transfer to Tank 18. No unusual conditions were observed.
F	19	Center (I)	01/10/01	CCTV / 698	CCTV was used to monitor transfer to Tank 18 and document conditions. No unusual conditions were observed. Sludge mounds were visible above the liquid surface after the transfer was completed.
F	19	Center (I)	01/12/01	CCTV / 698	CCTV was used to document position of East and West Flygt mixers. Both mixers were positioned below the liquid level.
F	19	Center (I)	01/21/01	CCTV / 698	CCTV was used to verify that the Flygt mixers were submerged.
F	19	Center (I)	01/27/01	CCTV / 698	CCTV was used to monitor transfer to Tank 18. No unusual conditions were observed.
F	19	Center (I)	01/28/01	CCTV / 698	CCTV was used to monitor transfer to Tank 18. No unusual conditions were observed.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	19	Center (I)	09/20/01	WAP / P01220:01-09	Tank steel wall condition was normal. Inspection was made to map the contents of the tank after the tank was decanted.
F	19	Center (I)	09/27/01	CCTV / 795	Inspection of the concrete dome revealed no significant changes since last inspected.
F	19	Center (I)	09/27/01	CCTV / 794	CCTV was used to facilitate remote sampling of the tank contents.
F	19	Center (I)	10/03/01	CCTV / 795	CCTV was used to verify the position of the Flygt mixer installed in the SW riser. It was approximately 15 feet above the waste.
F	19	Center (I)	10/10/01	CCTV / 795	CCTV was used to leak check valves V31 & V34. No leaks were observed.
F	19	Center (I)	11/14/01	CCTV / 698	Inspection verified that valve V34 for the pump mast installed the East riser was leak free.
F	19	Center (I)	11/15/01	CCTV / 698	CCTV was used to facilitate the remote sludge sampling of the waste.
H	21	MLDB-01	05/02/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
H	21	MLDB-01	05/10/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
H	21	NE (I)	06/21/01	CCTV / 748 B	Inspection of the tank interior revealed no unusual conditions. The material on the surface appears to be slightly more dense than previously observed. No obstructions were observed beneath the reel tape.
H	21	NE (I)	07/10/01	CCTV / 785	Tank steel wall and concrete dome were normal. Water marks and stains observed on the concrete dome were from inleakage around the risers. The surface of the waste was covered with a gray film.
H	21	NE (I)	08/18/01	CCTV / 748 C	Inspection revealed that the HLLCP was contacting the surface of the waste.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	21	NE (I)	08/21/01	CCTV / 787	CCTV was used to investigate discrepancies between the reel tape and HLLCP setting. The level in the tank appears to correspond with the reel tape indicating that the HLLCP was improperly positioned.
H	22	MLDB-01	01/28/01	CCTV / 747	CCTV was used to determine position of conductivity probe. The probe appears to have mud/soil directly below and may be contacting the MLDB bottom.
H	22	MLDB-01	01/29/01	CCTV / 747	CCTV was used to position conductivity probe. The probe was deployed at the setpoint.
H	22	MLDB-01	09/05/01	CCTV / 747	The conductivity probe was deployed at the setpoint. Liquid was observed in the bottom of the LDB.
H	22	NE (I)	08/18/01	CCTV / 748 C	Inspection was made to document the position of the HLLCP. The probe was suspended above the surface of the waste.
H	22	NW (I)	02/02/01	CCTV / 734	Inspection of the concrete dome showed no changes since last inspected on 9/30/00. Inspection of the waste surface was inconclusive.
H	22	NW (I)	07/10/01	CCTV / 785	Tank steel wall and concrete dome were normal. Liquid was observed flowing down the concrete dome behind the NW riser. This liquid was coming from the purge outlet and appeared to be leaking through the concrete. The surface of the waste was covered with a gray film and appeared to be thicker since last inspected.
H	22	NW (I)	08/21/01	CCTV / 788	CCTV was used to verify waste level and confirm that the reel tape reading was correct.
H	23	SW (I)	04/20/01	CCTV / 766	Inspection was made to document the conditions of the tank contents. Inspection revealed a few small particles floating on the liquid surface.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	23	SW (I)	04/21/01	CCTV / 766	CCTV was used to monitor the TTJ for leakage during transfer. Liquid was observed leaking at the union on the transfer side of the jet.
H	23	SW (I)	04/22/01	CCTV / 766	Inspection was made to document the conditions of the tank contents. No unusual conditions were observed. The surface is clear and free of solids.
H	23	SW (I)	05/22/01	CCTV / 766	Inspection of the waste surface revealed no solids or unusual conditions.
H	23	SW (I)	06/19/01	CCTV / 766	Inspection of waste surface revealed no changes since last inspected. The surface is free of solids and the liquid was clear to a depth of approximately 2 feet.
H	23	SW (I)	07/11/01	CCTV / 785	Tank steel wall and concrete dome were normal. Water marks and stains observed on the concrete dome were from inleakage around the risers.
H	23	SW (I)	11/09/01	CCTV / 748 F	Inspection of the waste surface revealed no changes since last inspected.
H	24	Sidewall Sump	03/27/01	CCTV / 748	Inspection was made to identify any obstruction in the sump. No obstructions were observed above the liquid level.
H	24	Sidewall Sump	04/04/01	CCTV / 748	Inspection revealed that water was still present in the sidewall sump.
H	24	Sidewall Sump	04/22/01	CCTV / 748	Inspection revealed a measuring rod at the bottom of the sidewall sump.
H	24	Sidewall Sump	04/24/01	CCTV / 748	CCTV was used to assist in installation of sidewall sump pump. A metal flat bar was observed against the sump wall during inspection.
H	24	SW (I)	01/31/01	CCTV / 734	CCTV was used to document the conditions of the waste surface. The surface appears unchanged since last inspected on 11/30/00.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	24	SW (I)	02/03/01	CCTV / 754	Inspection documented conditions of waste surface. The surface is covered with an "oily film" and foam-like material. The small globulars were still present. Approximately 90% of the surface appears to be covered. The appearance has not changed significantly since last inspected on 11/30/00.
H	24	SW (I)	02/15/01	CCTV / 748	Inspection revealed that waste surface conditions had not significantly changed since inspected on 2/3/01.
H	24	SW (I)	03/01/01	CCTV / 754	Inspection was made to monitor the surface conditions. The surface remains covered with floating foam/solids. The foam was slightly thicker than the previous inspection. The solids were floating just below the foam layer.
H	24	SW (I)	03/22/01	CCTV / 754	Conditions do not appear to have changed significantly since last inspected.
H	24	SW (I)	03/30/01	CCTV / 748	Conditions do not appear to have changed significantly since last inspected. An aerosol can or polypropylene bottle was observed floating on the surface.
H	24	SW (I)	04/13/01	CCTV / 754	Inspection was made to monitor the surface conditions. Conditions do not appear to have changed significantly since last inspected.
H	24	SW (I)	05/27/01	CCTV / 754	The surface is completely covered with a film and that approximately 95% is covered with a gray material. Some gel-like (globules) are still present on the surface.
H	24	SW (I)	06/26/01	CCTV / 754	Inspection was made to monitor the surface conditions. Conditions do not appear to have changed significantly since last inspected.
H	24	SW (I)	07/11/01	CCTV / 785	Tank steel wall and concrete dome were normal. The surface of the waste was covered with a gray film and had some gel-like globules floating on the surface.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	24	SW (I)	08/17/01	CCTV / 754	Inspection was made to monitor the surface conditions. Conditions do not appear to have changed significantly since last inspected.
H	24	SW (I)	09/13/01	CCTV / 754	Inspection was made to monitor the surface conditions. Conditions do not appear to have changed significantly since last inspected.
H	24	SW (I)	10/15/01	CCTV / 754 A	Inspection was made to monitor the surface conditions. Conditions do not appear to have changed significantly since last inspected.
H	24	SW (I)	12/08/01	CCTV / 754 A	Inspection was performed to monitor the surface conditions. The gray film covering the liquid appears a little heaver than the last inspected on 9/13/01 and is covering approximately 95% of the surface.
F	25	A-01 (A)	01/11/01	WAP / P01022:01	Tank condition was normal. Water was observed directly beneath the riser which indicated that water inleakage has occurred around the riser plug.
F	25	A-02 (A)	01/11/01	WAP / P01022:02	Tank condition was normal. Water was observed directly beneath the riser which indicated that water inleakage has occurred around the riser plug.
F	25	A-02 (A)	08/25/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	25	A-03 (A)	01/11/01	WAP / P01022:03	Tank condition was normal. Water was observed directly beneath the riser which indicated that water inleakage has occurred around the riser plug.
F	25	A-03 (A)	08/25/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	25	A-04 (A)	01/11/01	WAP / P01022:04	Tank condition was normal. Water was observed directly beneath the riser which indicated that water inleakage has occurred around the riser plug.
F	25	A-04 (A)	08/25/01	CCTV / 746	The conductivity probe was deployed at the setpoint.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	25	P-01 (A)	01/22/01	DP / P01034:01-24	Tank condition was normal. Stains and marks on the secondary vessel wall indicate that water has leaked between the top of the secondary vessel wall and the annulus cover plate.
F	25	P-02 (A)	05/07/01	DP / P01141:01-24	Tank condition was normal.
F	25	P-03 (A)	01/11/01	WAP / P01022:05	Tank condition was normal.
F	25	P-04 (A)	01/11/01	WAP / P01022:06	Tank condition was normal.
F	25	P-05 (A)	01/11/01	WAP / P01022:07	Tank condition was normal. Water was observed directly beneath the riser which indicated that water inleakage has occurred around the riser plug.
F	25	P-06 (A)	01/11/01	WAP / P01022:08	Tank condition was normal.
F	25	P-07 (A)	01/22/01	DP / P01035:01-25	Tank condition was normal. Stains and marks on the secondary vessel wall indicate that water has leaked between the top of the secondary vessel wall and the annulus cover plate.
F	25	P-08 (A)	01/22/01	DP / P01036:01-25	Tank condition was normal.
F	25	P-09 (A)	01/22/01	DP / P01037:01-25	Tank condition was normal. Stains and marks on the secondary vessel wall indicate that water has leaked between the top of the secondary vessel wall and the annulus cover plate at a penetration line.
F	25	P-10 (A)	01/11/01	WAP / P01022:09	Tank condition was normal. Water was observed directly beneath the riser which indicated that water inleakage has occurred around the riser plug.
F	25	P-11 (A)	01/11/01	WAP / P01022:10	Tank condition was normal. Water was observed directly beneath the riser which indicated that water inleakage has occurred around the riser plug.
F	25	P-12 (A)	01/11/01	WAP / P01022:11	Tank condition was normal. Water was observed directly beneath the riser which indicated that water inleakage has occurred around the riser plug.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	25	P-13 (A)	01/11/01	WAP / P01022:12	Tank condition was normal. Water was observed directly beneath the riser which indicated that water inleakage has occurred around the riser plug.
F	25	P-14 (A)	01/11/01	WAP / P01022:13	Tank condition was normal. Water was observed directly beneath the riser which indicated that water inleakage has occurred around the riser plug.
F	26		11/01/01	HELIUM / HE-01-005	A helium tracer test was performed on the Tank 26 to Tanks 44/45 transfer lines due to a failed pressure test. A leak site was identified for excavation and repair near LDB-02 at Tank 45.
F	26	LDB-01	10/09/01	CCTV / 747 A	The conductivity probe was deployed at the setpoint.
F	26	LDB-02	02/27/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
F	26	LDB-04	02/27/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
F	26	LDB-05	02/27/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
F	26	LDB-08	02/27/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
F	26	R-01	07/14/01	CCTV / 786	CCTV was used to facilitate remote installation and leak check of feed pump.
F	26	A-01 (A)	01/23/01	WAP / P01029:01	Tank condition was normal.
F	26	A-02 (A)	01/23/01	WAP / P01029:02	Tank condition was normal.
F	26	A-02 (A)	09/18/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	26	A-03 (A)	01/22/01	DP / P01040:20	The conductivity probe was deployed at the setpoint.
F	26	A-03 (A)	01/23/01	WAP / P01029:03	Tank condition was normal.
F	26	A-04 (A)	01/23/01	WAP / P01029:04	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	26	A-04 (A)	08/25/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	26	P-01 (A)	01/23/01	WAP / P01029:05	Tank condition was normal.
F	26	P-02 (A)	01/23/01	WAP / P01029:06	Tank condition was normal.
F	26	P-03 (A)	01/22/01	DP / P01038:01-24	Tank condition was normal. Mild surface corrosion was observed on top of the ventilation duct.
F	26	P-04 (A)	01/22/01	DP / P01039:01-25	Tank condition was normal.
F	26	P-05 (A)	09/18/01	WAP / P01218:01	Tank condition was normal.
F	26	P-06 (A)	01/23/01	WAP / P01029:07	Tank condition was normal.
F	26	P-07 (A)	01/23/01	WAP / P01029:08	Tank condition was normal.
F	26	P-08 (A)	01/23/01	WAP / P01029:09	Tank condition was normal.
F	26	P-09 (A)	01/23/01	WAP / P01029:10	Tank condition was normal.
F	26	P-10 (A)	01/22/01	DP / P01040:01-25	Tank condition was normal.
F	26	P-11 (A)	01/22/01	DP / P01041:01-25	Tank condition was normal.
F	26	P-12 (A)	01/23/01	WAP / P01029:11	Tank condition was normal.
F	26	P-13 (A)	01/23/01	WAP / P01029:12	Tank condition was normal.
F	26	P-14 (A)	01/23/01	WAP / P01029:13	Tank condition was normal.
F	27	A-01 (A)	01/23/01	WAP / P01030:01	Tank condition was normal.
F	27	A-02 (A)	01/23/01	WAP / P01030:02	Tank condition was normal.
F	27	A-02 (A)	08/25/01	CCTV / 746	The conductivity probe was deployed at the setpoint.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	27	A-03 (A)	01/23/01	WAP / P01030:03	Tank condition was normal.
F	27	A-03 (A)	08/25/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	27	A-04 (A)	01/23/01	WAP / P01030:04	Tank condition was normal.
F	27	A-04 (A)	08/25/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	27	P-01 (A)	09/25/01	DP / P01222:01-25	Tank condition was normal.
F	27	P-02 (A)	09/25/01	DP / P01223:01-25	Tank condition was normal.
F	27	P-03 (A)	01/23/01	WAP / P01030:05	Tank condition was normal.
F	27	P-04 (A)	01/23/01	WAP / P01030:06	Tank condition was normal.
F	27	P-05 (A)	01/23/01	WAP / P01030:07	Tank condition was normal.
F	27	P-06 (A)	01/23/01	WAP / P01030:08	Tank condition was normal.
F	27	P-07 (A)	09/25/01	DP / P01224:01-25	Tank condition was normal. Stains and marks on the secondary vessel wall and ventilation duct have increased since last inspected on 8/13/97.
F	27	P-08 (A)	09/25/01	DP / P01225:01-25	Tank condition was normal. Stains and marks on the secondary vessel wall and ventilation duct have increased since last inspected on 8/13/97.
F	27	P-09 (A)	09/25/01	DP / P01226:01-25	Tank condition was normal.
F	27	P-10 (A)	01/23/01	WAP / P01030:09	Tank condition was normal.
F	27	P-11 (A)	01/23/01	WAP / P01030:10	Tank condition was normal.
F	27	P-12 (A)	01/23/01	WAP / P01030:11	Tank condition was normal.
F	27	P-13 (A)	01/23/01	WAP / P01030:12	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	27	P-14 (A)	01/23/01	WAP / P01030:13	Tank condition was normal.
F	28	GDL	10/31/01	HELIUM / HE-01-004	Helium tracer testing identified leak sites near LDB-3 approximately 50 feet north along the GDL.
F	28	LDB-04	10/09/01	CCTV / 747 A	The conductivity probe was deployed at the setpoint.
F	28	Underliner Sump	08/03/01	CCTV / 747	The conductivity probe standpipe was plugged.
F	28	Underliner Sump	08/06/01	CCTV / 748 C	Inspection revealed no obstructions below the conductivity probe standpipe. However, liquid was observed in the sump.
F	28	Underliner Sump	08/08/01	CCTV / 748 C	Inspection revealed no significant solids in the sump; however, a small amount of liquid was observed beneath the conductivity probe standpipe.
F	28	Underliner Sump	08/15/01	CCTV / 748 C	Inspection revealed liquid was present in the bottom of the conductivity probe standpipe.
F	28	Underliner Sump	08/22/01	CCTV / 748 C	CCTV was used to inspect the conductivity probe standpipe. Liquid was visible below the standpipe.
F	28	Underliner Sump	08/23/01	CCTV / N/A	CCTV was used to inspect conductivity probe standpipe. The standpipe was dry and free of obstructions.
F	28	A-01 (A)	01/24/01	WAP / P01031:01	Tank condition was normal.
F	28	A-02 (A)	01/24/01	WAP / P01031:02	Tank condition was normal.
F	28	A-02 (A)	08/25/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	28	A-03 (A)	01/24/01	WAP / P01031:03	Tank condition was normal.
F	28	A-03 (A)	08/25/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	28	A-04 (A)	01/24/01	WAP / P01031:04	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	28	A-04 (A)	08/25/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	28	P-01 (A)	01/24/01	WAP / P01031:05	Tank condition was normal.
F	28	P-02 (A)	01/24/01	WAP / P01031:06	Tank condition was normal.
F	28	P-03 (A)	09/25/01	DP / P01227:01-25	Tank condition was normal.
F	28	P-04 (A)	01/24/01	WAP / P01031:07	Tank condition was normal.
F	28	P-05 (A)	01/24/01	WAP / P01031:08	Tank condition was normal.
F	28	P-06 (A)	09/25/01	DP / P01228:01-25	Tank condition was normal.
F	28	P-07 (A)	01/24/01	WAP / P01031:09	Tank condition was normal.
F	28	P-08 (A)	09/25/01	DP / P01229:01-25	Tank condition was normal.
F	28	P-09 (A)	01/24/01	WAP / P01031:10	Tank condition was normal.
F	28	P-10 (A)	01/24/01	WAP / P01031:11	Tank condition was normal.
F	28	P-11 (A)	01/24/01	WAP / P01031:12	Tank condition was normal.
F	28	P-12 (A)	09/25/01	DP / P01230:01-25	Tank condition was normal. Stains and marks beneath penetration line designated WC have increased since last inspected.
F	28	P-13 (A)	01/24/01	WAP / P01031:13	Tank condition was normal.
F	28	P-14 (A)	01/24/01	WAP / P01031:14	Tank condition was normal.
H	29	A-01 (A)	03/14/01	WAP / P01114:01	Tank condition was normal.
H	29	A-01 (A)	07/18/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	29	A-02 (A)	03/14/01	WAP / P01114:02	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	29	A-02 (A)	07/18/01	CCTV / 746	The conductivity probe was deployed at the setpoint. The snap ring that holds the probe inside the sheath was missing.
H	29	A-03 (A)	03/14/01	WAP / P01114:03	Tank condition was normal.
H	29	A-03 (A)	07/18/01	CCTV / 746	The conductivity probe was deployed at the setpoint. A pipe clamp was observed on the annulus floor.
H	29	A-04 (A)	03/14/01	WAP / P01114:04	Tank condition was normal.
H	29	A-04 (A)	07/18/01	CCTV / 746	The magnetically mounted thermocouple was deployed at the setpoint.
H	29	P-01 (A)	07/18/01	WAP / P01189:01	Tank condition was normal.
H	29	P-02 (A)	09/13/01	DP / P01203: 01-25	Tank condition was normal.
H	29	P-03 (A)	03/14/01	WAP / P01114:11	Tank condition was normal.
H	29	P-04 (A)	03/14/01	WAP / P01114:05	Tank condition was normal.
H	29	P-05 (A)	07/03/01	DP / P01167:01-25	Tank condition was normal.
H	29	P-06 (A)	03/14/01	WAP / P01114:06	Tank condition was normal.
H	29	P-07 (A)	03/14/01	WAP / P01114:07	Tank condition was normal.
H	29	P-08 (A)	07/03/01	DP / P01168:01-24	Tank condition was normal.
H	29	P-09 (A)	03/14/01	WAP / P01114:08	Tank condition was normal.
H	29	P-10 (A)	03/14/01	WAP / P01114:09	Tank condition was normal.
H	29	P-11 (A)	07/03/01	DP / P01169:01-25	Tank condition was normal.
H	29	P-12 (A)	07/03/01	DP / P01170:01-25	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	29	P-13 (A)	03/14/01	WAP / P01114:10	Tank condition was normal.
H	29	P-14 (A)	09/13/01	DP / P01204: 01-25	Tank condition was normal.
H	29	D-02 (I)	12/27/01	CCTV / 748 H	CCTV was used to document the conditions of the waste surface. Exposed salt was observed covering approximately 50% of the Southeast side of the tank. Hydraulic lines used to deploy the cylindrical cooling coil were observed lying on the surface of the waste along with part of a thermowell that was cut after it had failed.
H	30	A-01 (A)	07/18/01	CCTV / 746	The conductivity probe was deployed at the setpoint. A leather glove was observed on the annulus floor.
H	30	A-01 (A)	09/10/01	WAP / P01216:01	Tank condition was normal.
H	30	A-02 (A)	03/14/01	WAP / P01116:01	Tank condition was normal.
H	30	A-02 (A)	07/18/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	30	A-03 (A)	03/14/01	WAP / P01116:02	Tank condition was normal. An increase of stains on the annulus floor was caused by water which had leaked into the annulus.
H	30	A-03 (A)	06/14/01	CCTV / 748 B	Calciferous deposits observed on the secondary vessel wall, top of the ventilation duct, and the annulus floor were caused by the inleakage of rainwater where the annulus cover plates rest on top of the secondary vessel wall.
H	30	A-03 (A)	07/18/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	30	A-04 (A)	07/16/01	WAP / P01190:01	Tank condition was normal.
H	30	A-04 (A)	07/18/01	CCTV / 746	The magnetically mounted thermocouple was deployed at the setpoint.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	30	P-01 (A)	07/16/01	WAP / P01190:02	Tank condition was normal.
H	30	P-02 (A)	07/25/01	DP / P01177:01-25	Tank condition was normal.
H	30	P-03 (A)	07/16/01	WAP / P01190:03	Tank condition was normal.
H	30	P-04 (A)	07/16/01	WAP / P01190:04	Tank condition was normal.
H	30	P-05 (A)	07/25/01	DP / P01178:01-25	Tank condition was normal.
H	30	P-06 (A)	07/16/01	WAP / P01190:05	Tank condition was normal.
H	30	P-07 (A)	07/16/01	WAP / P01190:06	Tank condition was normal.
H	30	P-08 (A)	03/14/01	WAP / P01116:08	Tank condition was normal.
H	30	P-08 (A)	09/10/01	DP / P01205: 01-25	Tank condition was normal.
H	30	P-09 (A)	03/14/01	WAP / P01116:03	Tank condition was normal.
H	30	P-10 (A)	03/14/01	WAP / P01116:04	Tank condition was normal.
H	30	P-11 (A)	03/14/01	WAP / P01116:05	Tank condition was normal.
H	30	P-12 (A)	03/14/01	WAP / P01116:06	Tank condition was normal.
H	30	P-13 (A)	03/14/01	WAP / P01116:07	Tank condition was normal.
H	30	P-14 (A)	09/10/01	DP / P01206: 01-25	Tank condition was normal. A masselin cloth was observed on the annulus floor.
H	30	H (I)	03/20/01	CCTV / 681	Inspection revealed that the tank walls and some cooling coils were coated with a thin layer of salt. No significant quantities of salt were observed above the liquid level.
H	30	H (I)	04/02/01	CCTV / 724	Inspection revealed salt deposits on the lower half of the cooling coils and on the tank wall.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	30	H (I)	04/10/01	CCTV / 724	Inspection revealed a small amount of salt deposits on the jet leg, and verified that a short downcomer is installed in the riser.
H	30	H (I)	04/25/01	CCTV / 724	CCTV was used to leak check TTJ. No leaks were observed.
H	30	H (I)	07/07/01	CCTV / 748 C	Inspection documented the conditions of the tank interior. The tank walls, cooling coils and center column are coated with a thin layer of salt. No other unusual conditions were observed.
H	30	H (I)	08/24/01	CCTV / 748 C	CCTV was used to document the interior of the tank. The cooling coils were covered with salt ranging from a thin coating to a few inches thick. The tank wall, center column and all other exposed surfaces were covered with a layer of salt. The waste surface was mostly liquid with some floating salt formations on top.
H	31	A-01 (A)	03/14/01	WAP / P01115:01	Tank condition was normal.
H	31	A-01 (A)	07/18/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	31	A-02 (A)	04/22/01	WAP / P01136:01	Tank condition was normal.
H	31	A-02 (A)	07/18/01	CCTV / 746	The conductivity probe was deployed at the setpoint. A piece of string or rope was observed on the annulus floor.
H	31	A-03 (A)	04/22/01	WAP / P01136:02	Tank condition was normal.
H	31	A-03 (A)	07/18/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	31	A-04 (A)	03/14/01	WAP / P01115:02	Tank condition was normal.
H	31	A-04 (A)	07/18/01	CCTV / 746	The magnetically mounted thermocouple was deployed at the setpoint.
H	31	P-01 (A)	07/18/01	WAP / P01191:01	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	31	P-02 (A)	09/13/01	DP / P01207: 01-25	Tank condition was normal.
H	31	P-03 (A)	03/14/01	WAP / P01115:03	Tank condition was normal.
H	31	P-04 (A)	03/14/01	WAP / P01115:04	Tank condition was normal.
H	31	P-05 (A)	07/02/01	DP / P01171:01-24	Tank condition was normal.
H	31	P-06 (A)	03/14/01	WAP / P01115:05	Tank condition was normal.
H	31	P-07 (A)	03/14/01	WAP / P01115:06	Tank condition was normal. A masselin cloth was observed on the top of the annulus ventilation duct.
H	31	P-08 (A)	07/02/01	DP / P01172:01-24	Tank condition was normal. An absorbent swipe was observed on the top of the ventilation duct.
H	31	P-09 (A)	03/14/01	WAP / P01115:07	Tank condition was normal.
H	31	P-10 (A)	03/14/01	WAP / P01115:08	Tank condition was normal.
H	31	P-11 (A)	03/14/01	WAP / P01115:09	Tank condition was normal.
H	31	P-12 (A)	07/02/01	DP / P01173:01-24	Tank condition was normal.
H	31	P-13 (A)	03/14/01	WAP / P01115:10	Tank condition was normal.
H	31	P-14 (A)	07/02/01	DP / P01174:01-25	Tank condition was normal.
H	32	C-01	11/19/01	CCTV / 748 F	CCTV was used leak check feed pump. No leaks were observed.
H	32	LDB-101	02/23/01	CCTV / N/A	Inspection revealed that there were no obstructions or liquid below the standpipe in the LDB.
H	32	LPS	02/15/01	CCTV / 748	Inspection documented conditions of LPS from the HDB-04 side. Shavings were observed in the LPS. No free standing liquid was observed.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	32	LPS	02/15/01	CCTV / 748	Inspection documented conditions of LPS from the tank side. Loose, dry debris and remnants of marking chalk were observed in the sleeve. No free standing liquid was observed.
H	32	LPS	03/16/01	CCTV / N/A	CCTV was used to inspect LPS-3346(A) for cracks and inleakage. No unusual conditions were observed.
H	32	A-01 (A)	03/26/01	WAP / P01121:01	Tank condition was normal.
H	32	A-01 (A)	03/28/01	CCTV / 746	The conductivity probe was deployed at the setpoint; however, the snap ring that holds the probe inside the sheath had been dislodged allowing the probe to extend beyond the sheath.
H	32	A-02 (A)	03/26/01	WAP / P01121:02	Tank condition was normal.
H	32	A-02 (A)	03/28/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	32	A-03 (A)	03/26/01	WAP / P01121:03	Tank condition was normal.
H	32	A-03 (A)	03/28/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	32	A-04 (A)	03/28/01	CCTV / 746	The magnetically mounted thermocouple was deployed at the setpoint.
H	32	A-04 (A)	07/18/01	WAP / P01192:01	Tank condition was normal.
H	32	P-01 (A)	07/18/01	WAP / P01192:02	Tank condition was normal.
H	32	P-02 (A)	07/25/01	DP / P01179:01-25	Tank condition was normal.
H	32	P-03 (A)	04/22/01	WAP / P01135:01	Tank condition was normal.
H	32	P-04 (A)	03/26/01	WAP / P01121:04	Tank condition was normal.
H	32	P-05 (A)	04/22/01	DP / P01142:01-25	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER			REMARKS
H	32	P-06 (A)	03/26/01	WAP	/	P01121:05	Tank condition was normal.
H	32	P-07 (A)	03/26/01	WAP	/	P01121:06	Tank condition was normal.
H	32	P-08 (A)	03/28/01	DP	/	P01123:01-25	Tank condition was normal.
H	32	P-09 (A)	03/26/01	WAP	/	P01121:07	Tank condition was normal.
H	32	P-10 (A)	03/26/01	WAP	/	P01121:08	Tank condition was normal.
H	32	P-11 (A)	03/26/01	WAP	/	P01121:09	Tank condition was normal.
H	32	P-12 (A)	07/25/01	DP	/	P01180:01-25	Tank condition was normal. Stains and marks on top of the ventilation duct and on the annulus floor have increased since last inspected on 6/11/97 due to water inleakage.
H	32	P-13 (A)	03/26/01	WAP	/	P01121:10	Tank condition was normal.
H	32	P-14 (A)	09/13/01	DP	/	P01208: 01-25	Tank condition was normal. Stains and marks on the secondary vessel wall have increased since last inspection due to the inleakage of rainwater.
H	32	P-15 (A)	07/25/01	DP	/	P01181:01-25	Tank condition was normal. Stains and deposits on the secondary vessel wall have increased since last inspected on 6/11/97 due to water inleakage between the annulus cover plate and the top of the secondary vessel wall.
H	32	C-01 (I)	05/03/01	CCTV	/	748	Inspection was made to observe for leaks and verify proper feed pump rotation. No leaks were observed and the proper pump rotation was verified.
H	32	C-02 (I)	01/13/01	CCTV	/	748	CCTV was used to observe for leakage at the feed pump nozzles during startup. No leaks were observed.
H	32	C-02 (I)	02/23/01	CCTV	/	756	CCTV was used to leak check the feed pump. Leakage was observed at the connector head.
H	32	C-02 (I)	02/23/01	CCTV	/	756	CCTV was used to leak check the feed pump. No leakage was observed.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	32	C-02 (I)	05/11/01	CCTV / 772	CCTV was used to determine if any blockage was present in the transfer line by observing flow through the nozzle. Water was observed flowing from the nozzle indicating no blockage in the line. The connector was tightened and verified to be leak free. No unusual conditions were observed.
H	32	H (I)	01/10/01	CCTV / 748	Inspection revealed no accumulation of salt on the cooling coils above the liquid level.
H	32	H (I)	01/17/01	CCTV / 748	CCTV was used to inspect cooling coils after tank was decanted. Cooling coil bundles installed in the B1, B5 & B7 risers were encrusted in salt from the waste surface to approximately 2 feet above the liquid surface. Cooling coil bundles installed in the B3 and B9 risers had salt accumulation in the internal section of the bundle.
H	32	H (I)	01/30/01	CCTV / 748	CCTV was used to inspect cooling coils after tank was decanted. No accumulation of salt was observed on the cooling coils above the liquid level.
H	32	H (I)	02/13/01	CCTV / 748	Inspection revealed a few small floating solids and a thin film on the waste surface. Salt accumulation was observed on the cooling coils and tank wall at the interface with the liquid.
H	32	H (I)	03/19/01	CCTV / 756	Inspection revealed that the downcomer is leaking.
F	33		04/18/01	HELIUM / HE-01-002	A helium tracer test verified the integrity of the FDB-03 to Tank 33 transfer line.
F	33	A-01 (A)	07/05/01	WAP / P01187:01	Tank condition was normal.
F	33	A-01 (A)	09/16/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	33	A-02 (A)	07/05/01	WAP / P01187:02	Tank condition was normal.
F	33	A-02 (A)	09/16/01	CCTV / 746	The conductivity probe was deployed at the setpoint.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER			REMARKS
F	33	A-03 (A)	07/05/01	WAP	/	P01187:03	Tank condition was normal.
F	33	A-03 (A)	09/16/01	CCTV	/	746	The conductivity probe was deployed at the setpoint.
F	33	A-04 (A)	07/05/01	WAP	/	P01187:04	Tank condition was normal.
F	33	A-04 (A)	09/16/01	CCTV	/	746	The magnetically mounted thermocouple was deployed at the setpoint.
F	33	P-01 (A)	07/05/01	WAP	/	P01187:05	Tank condition was normal.
F	33	P-02 (A)	03/07/01	DP	/	P01090:01-25	Tank condition was normal.
F	33	P-03 (A)	07/05/01	WAP	/	P01187:06	Tank condition was normal.
F	33	P-04 (A)	07/05/01	WAP	/	P01187:07	Tank condition was normal.
F	33	P-05 (A)	03/07/01	DP	/	P01091:01-24	Tank condition was normal.
F	33	P-06 (A)	07/05/01	WAP	/	P01187:08	Tank condition was normal.
F	33	P-07 (A)	07/05/01	WAP	/	P01187:09	Tank condition was normal.
F	33	P-08 (A)	03/07/01	DP	/	P01092:01-23	Tank condition was normal.
F	33	P-09 (A)	07/05/01	WAP	/	P01187:10	Tank condition was normal.
F	33	P-10 (A)	07/05/01	WAP	/	P01187:11	Tank condition was normal.
F	33	P-11 (A)	07/05/01	WAP	/	P01187:12	Tank condition was normal.
F	33	P-12 (A)	03/07/01	DP	/	P01093:01-25	Tank condition was normal.
F	33	P-13 (A)	07/05/01	WAP	/	P01187:13	Tank condition was normal.
F	33	P-14 (A)	03/07/01	DP	/	P01094:01-25	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	33	P-15 (A)	03/07/01	DP / P01095:01-25	Tank condition was normal.
F	33	P-16 (A)	07/05/01	WAP / P01187:14	Tank condition was normal.
F	33	C-01 (I)	04/05/01	CCTV / 748	Inspection revealed that the downcomer extended into the liquid waste.
F	33	C-01 (I)	04/11/01	CCTV / 748	CCTV was used to determine if the downcomer was plugged. Some leakage was observed at the top of the downcomer, but flow indicates that the downcomer is not plugged.
F	34		04/22/01	HELIUM / HE-01-001	A helium tracer test verified the integrity of the FDB-03 to Tank 34 transfer line.
F	34	A-01 (A)	07/05/01	WAP / P01188:01	Tank condition was normal.
F	34	A-01 (A)	09/16/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	34	A-02 (A)	07/05/01	WAP / P01188:02	Tank condition was normal.
F	34	A-02 (A)	09/16/01	CCTV / 746	The conductivity probe was deployed at the setpoint; however, the snap ring that holds the probe inside the sheath had been dislodged allowing the probe to extend beyond the sheath.
F	34	A-03 (A)	07/05/01	WAP / P01188:03	Tank condition was normal.
F	34	A-03 (A)	09/16/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	34	A-04 (A)	07/05/01	WAP / P01188:04	Tank condition was normal.
F	34	A-04 (A)	09/16/01	CCTV / 746	The magnetically mounted thermocouple was deployed at the setpoint.
F	34	P-01 (A)	07/05/01	WAP / P01188:05	Tank condition was normal.
F	34	P-02 (A)	03/06/01	DP / P01101:01-25	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	34	P-03 (A)	07/05/01	WAP / P01188:06	Tank condition was normal.
F	34	P-04 (A)	07/05/01	WAP / P01188:07	Tank condition was normal.
F	34	P-05 (A)	03/06/01	DP / P01106:01-25	Tank condition was normal.
F	34	P-06 (A)	07/05/01	WAP / P01188:08	Tank condition was normal.
F	34	P-07 (A)	07/05/01	WAP / P01188:09	Tank condition was normal.
F	34	P-08 (A)	03/06/01	DP / P01102:01-25	Tank condition was normal.
F	34	P-09 (A)	07/05/01	WAP / P01188:10	Tank condition was normal.
F	34	P-10 (A)	07/05/01	WAP / P01188:11	Tank condition was normal.
F	34	P-11 (A)	07/05/01	WAP / P01188:12	Tank condition was normal.
F	34	P-12 (A)	03/06/01	DP / P01103:01-25	Tank condition was normal.
F	34	P-13 (A)	07/05/01	WAP / P01188:13	Tank condition was normal.
F	34	P-14 (A)	03/06/01	DP / P01104:01-25	Tank condition was normal.
F	34	P-15 (A)	03/06/01	DP / P01105:01-25	Tank condition was normal.
F	34	P-16 (A)	07/05/01	WAP / P01188:14	Tank condition was normal.
F	34	H (I)	08/26/01	CCTV / 789	CCTV was used to verify that transfer jet anti-siphon tube was not plugged. A stain on the north wall beneath the penetration lines will be investigated.
F	34	H (I)	08/29/01	CCTV / 789	CCTV was used to leak check the transfer jet. A steam leak was observed and liquid was observed dripping from the nozzle box. Stains observed on the primary vessel wall beneath the penetration lines are most likely from condensation forming on the lines and running down the tank wall.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	34	H (I)	09/10/01	CCTV / 789	CCTV was used to document conditions of tank after 72.23 inches was transferred out. No accumulation of salt was observed on the cooling coils, jet or center column. A salt ring has formed around the tank at the previous fill level. Stains observed on the wall appear to originate around the penetration lines and are most likely from condensation forming on the line and running down the tank wall.
H	35	A-01 (A)	03/15/01	WAP / P01119:01	Tank condition was normal.
H	35	A-02 (A)	04/23/01	WAP / P01119:02	Tank condition was normal.
H	35	A-02 (A)	07/19/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	35	A-03 (A)	03/15/01	WAP / P01119:03	Tank condition was normal.
H	35	A-03 (A)	07/19/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	35	A-04 (A)	03/15/01	WAP / P01119:04	Tank condition was normal.
H	35	A-04 (A)	07/19/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	35	P-01 (A)	03/15/01	WAP / P01119:05	Tank condition was normal.
H	35	P-02 (A)	03/15/01	WAP / P01119:06	Tank condition was normal.
H	35	P-03 (A)	03/15/01	WAP / P01119:07	Tank condition was normal.
H	35	P-04 (A)	03/15/01	WAP / P01119:08	Tank condition was normal.
H	35	P-05 (A)	09/13/01	DP / P01202: 01-25	Tank condition was normal.
H	35	P-06 (A)	03/15/01	WAP / P01119:09	Tank condition was normal.
H	35	P-07 (A)	02/15/01	DP / P01056:01-25	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER			REMARKS
H	35	P-08 (A)	03/15/01	WAP	/	P01119:10	Tank condition was normal.
H	35	P-09 (A)	02/15/01	DP	/	P01057:01-25	Tank condition was normal.
H	35	P-10 (A)	03/15/01	WAP	/	P01119:11	Tank condition was normal.
H	35	P-11 (A)	02/15/01	DP	/	P01058:01-25	Tank condition was normal.
H	35	P-12 (A)	03/15/01	WAP	/	P01119:12	Tank condition was normal.
H	35	P-13 (A)	02/15/01	DP	/	P01059:01-25	Tank condition was normal.
H	35	P-14 (A)	03/15/01	WAP	/	P01119:13	Tank condition was normal.
H	36	A-01 (A)	08/20/01	WAP	/	P01197:02	Tank condition was normal.
H	36	A-02 (A)	07/17/01	WAP	/	P01193:01	Tank condition was normal.
H	36	A-02 (A)	07/19/01	CCTV	/	746	The conductivity probe was deployed at the setpoint.
H	36	A-03 (A)	07/17/01	WAP	/	P01193:02	Tank condition was normal.
H	36	A-03 (A)	07/19/01	CCTV	/	746	The conductivity probe was deployed at the setpoint.
H	36	A-04 (A)	07/17/01	WAP	/	P01193:03	Tank condition was normal.
H	36	A-04 (A)	07/19/01	CCTV	/	746	The conductivity probe was deployed at the setpoint.
H	36	P-01 (A)	07/17/01	WAP	/	P01193:04	Tank condition was normal.
H	36	P-02 (A)	07/17/01	WAP	/	P01193:05	Tank condition was normal.
H	36	P-03 (A)	07/17/01	WAP	/	P01193:06	Tank condition was normal.
H	36	P-04 (A)	07/17/01	WAP	/	P01193:07	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	36	P-05 (A)	02/28/01	DP / P01110:01-25	Tank condition was normal.
H	36	P-06 (A)	07/17/01	WAP / P01193:08	Tank condition was normal.
H	36	P-07 (A)	05/06/01	DP / P01143:01-25	Tank condition was normal.
H	36	P-08 (A)	07/17/01	WAP / P01193:09	Tank condition was normal. Stains on the annulus floor have increased since last inspected on 2/3/99.
H	36	P-09 (A)	02/28/01	DP / P01108:01-25	Tank condition was normal.
H	36	P-10 (A)	07/17/01	WAP / P01193:10	Tank condition was normal.
H	36	P-11 (A)	02/28/01	DP / P01109:01-25	Tank condition was normal.
H	36	P-12 (A)	07/17/01	WAP / P01193:11	Tank condition was normal. Stains on the annulus floor have increased due to the inleakage of water.
H	36	P-13 (A)	02/28/01	DP / P01111:01-24	Tank condition was normal.
H	36	P-14 (A)	08/20/01	WAP / P01197:01	Tank condition was normal.
H	37	A-01 (A)	05/27/01	WAP / P01148:01	Tank condition was normal.
H	37	A-02 (A)	07/17/01	WAP / P01194:01	Tank condition was normal.
H	37	A-02 (A)	07/19/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	37	A-03 (A)	05/27/01	WAP / P01148:02	Tank condition was normal.
H	37	A-03 (A)	07/19/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	37	A-04 (A)	05/27/01	WAP / P01148:03	Tank condition was normal.
H	37	A-04 (A)	07/19/01	CCTV / 746	The conductivity probe was deployed at the setpoint.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	37	P-01 (A)	07/17/01	WAP / P01194:02	Tank condition was normal.
H	37	P-02 (A)	07/17/01	WAP / P01194:03	Tank condition was normal.
H	37	P-03 (A)	07/17/01	WAP / P01194:04	Tank condition was normal.
H	37	P-04 (A)	07/17/01	WAP / P01194:05	Tank condition was normal.
H	37	P-05 (A)	02/14/01	DP / P01048:01-25	Tank condition was normal.
H	37	P-06 (A)	07/17/01	WAP / P01194:06	Tank condition was normal.
H	37	P-07 (A)	02/14/01	DP / P01049:01-25	Tank condition was normal.
H	37	P-08 (A)	07/17/01	WAP / P01194:07	Tank condition was normal.
H	37	P-09 (A)	02/14/01	DP / P01050:01-25	Tank condition was normal.
H	37	P-10 (A)	05/27/01	WAP / P01148:04	Tank condition was normal.
H	37	P-11 (A)	05/06/01	DP / P01144:01-25	Tank condition was normal.
H	37	P-12 (A)	05/27/01	WAP / P01148:05	Tank condition was normal.
H	37	P-13 (A)	02/28/01	DP / P01112:01-25	Tank condition was normal.
H	37	P-14 (A)	07/17/01	WAP / P01194:08	Tank condition was normal.
H	37	C-02 (I)	06/21/01	CCTV / 748 B	Inspection was made to determine if obstructions exist beneath the access ports. Installed equipment in the riser does not permit access to the tank below the access port sleeves.
H	37	C-02 (I)	09/21/01	CCTV / 775	CCTV was used to assist with obtaining measurements of the nozzle box for future installation of a BFV.
H	37	C-02 (I)	09/22/01	CCTV / 775	CCTV was used to assist with obtaining measurements of the nozzle box for future installation of a BFV.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	37	G (I)	05/31/01	CCTV / 775	Inspection of tank interior revealed salt accumulation on the cooling coils, short downcomer and jet above the liquid surface. The surface had a salt crust and salt crystals were forming on the liquid surface.
H	38	COP-3	06/28/01	CCTV / 748 C	Inspection revealed that the GDL was free of deposits and no unusual conditions were observed. A few loose solids were observed on the bottom of the pipe which have been washed down from the cleaning activities.
H	38	COP-3	06/28/01	CCTV / 776	Inspection of the GDL towards the Evaporator and Tank 38 revealed no deposits on the pipe wall. Minor scaling and few loose solids were observed on the bottom of the pipe.
H	38	GDL	09/21/01	HELIUM / HE-01-003	Helium tracer testing verified the integrity of the core pipe of the gravity drain line from 242-16H Evaporator to Tank 38.
H	38	LDB-01	03/13/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
H	38	LDB-01	03/18/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
H	38	LDB-01	09/21/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
H	38	A-01 (A)	03/08/01	WAP / P01108:10	Tank condition was normal.
H	38	A-01 (A)	06/14/01	CCTV / 778	CCTV was used to inspect annulus for source of inleakage. No unusual conditions were observed.
H	38	A-02 (A)	03/08/01	WAP / P01108:11	Tank condition was normal.
H	38	A-02 (A)	07/21/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	38	A-03 (A)	03/08/01	WAP / P01108:12	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	38	A-03 (A)	06/14/01	CCTV / 778	CCTV was used to inspect annulus for source of inleakage. No unusual conditions were observed.
H	38	A-03 (A)	07/21/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	38	A-04 (A)	03/08/01	WAP / P01108:13	Tank condition was normal. Stains and marks on top of the ventilation duct were caused by water which had leaked into the annulus.
H	38	A-04 (A)	05/30/01	CCTV / 748B	Increase in stains beneath the penetration lines indicate that water is entering the annulus via a failed seal.
H	38	A-04 (A)	06/13/01	CCTV / 748 B	Inspection revealed deposits on the secondary vessel wall, top of the ventilation duct, and annulus floor.
H	38	A-04 (A)	06/14/01	CCTV / 778	Stains and marks beneath the penetration line designated WS, WS1, SJ1 and SJ2 indicate that water is entering the annulus through a failed seal.
H	38	A-04 (A)	07/21/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	38	P-01 (A)	03/08/01	WAP / P01108:01	Tank condition was normal.
H	38	P-02 (A)	03/08/01	WAP / P01108:02	Tank condition was normal.
H	38	P-03 (A)	03/08/01	WAP / P01108:03	Tank condition was normal.
H	38	P-04 (A)	03/08/01	WAP / P01108:04	Tank condition was normal.
H	38	P-05 (A)	03/08/01	WAP / P01108:05	Tank condition was normal.
H	38	P-06 (A)	03/08/01	WAP / P01108:06	Tank condition was normal.
H	38	P-06 (A)	06/14/01	CCTV / 778	CCTV was used to inspect annulus for source of inleakage. No unusual conditions were observed.
H	38	P-07 (A)	03/08/01	WAP / P01108:07	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	38	P-08 (A)	03/08/01	WAP / P01108:08	Tank condition was normal.
H	38	P-09 (A)	03/08/01	WAP / P01108:09	Tank condition was normal.
H	38	P-09 (A)	06/14/01	CCTV / 778	CCTV was used to inspect annulus for source of inleakage. No unusual conditions were observed.
H	38	P-10 (A)	02/20/01	DP / P01079:01-25	Tank condition was normal.
H	38	P-10 (A)	06/14/01	CCTV / 778	Stains and marks beneath the penetration line designated WS, WS1, SJ1 and SJ2 indicate that water is entering the annulus through a failed seal.
H	38	P-11 (A)	02/20/01	DP / P01080:01-25	Tank condition was normal.
H	38	P-12 (A)	02/20/01	DP / P01081:01-25	Tank condition was normal.
H	38	P-13 (A)	02/20/01	DP / P01082:01-25	Tank condition was normal.
H	38	P-13 (A)	06/14/01	CCTV / 778	Stains on the annulus floor appear to be packing or sealing material which is entering the annulus from inleakage of water at the penetration lines.
H	38	P-14 (A)	02/20/01	DP / P01083:01-25	Tank condition was normal.
H	38	C-01 (I)	03/07/01	CCTV / 748	Inspection revealed that three of the four ports on the riser had obstructions beneath them. The southeast port was clear to the tank interior.
H	38	C-03 (I)	03/07/01	CCTV / 748	CCTV was used to identify obstructions beneath the riser which could prohibit equipment installation. No obstructions were present beneath the riser.
H	38	G (I)	03/07/01	CCTV / 748	CCTV was used to identify obstructions beneath the riser which could prohibit equipment installation. No obstructions were present beneath the riser.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	38	H (I)	03/07/01	CCTV / 748	CCTV was used to identify obstructions beneath the riser which could prohibit equipment installation. No obstructions were present beneath the riser.
H	38	H (I)	10/18/01	CCTV / 748 d	CCTV was used to leak check the transfer jet. Leakage was observed at the cam-locks.
H	38	H (I)	10/25/01	CCTV / 748 e	CCTV was used to leak check the transfer jet after the jet was rotated and regasketed. No leaks were observed.
H	39	LDB-01	04/26/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
H	39	LDB-01	10/23/01	CCTV / 747 A	The conductivity probe was deployed at the setpoint.
H	39	A-01 (A)	07/17/01	WAP / P01195:02	Tank condition was normal. Stains on the secondary vessel wall have increased since last inspected on 3/15/00.
H	39	A-02 (A)	03/13/01	WAP / P01118:10	Tank condition was normal.
H	39	A-02 (A)	08/02/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	39	A-03 (A)	03/13/01	WAP / P01118:11	Tank condition was normal.
H	39	A-03 (A)	08/02/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	39	A-04 (A)	03/13/01	WAP / P01118:12	Tank condition was normal.
H	39	A-04 (A)	08/02/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	39	P-01 (A)	03/13/01	WAP / P01118:01	Tank condition was normal.
H	39	P-02 (A)	03/13/01	WAP / P01118:02	Tank condition was normal.
H	39	P-03 (A)	03/13/01	WAP / P01118:03	Tank condition was normal.
H	39	P-04 (A)	03/13/01	WAP / P01118:04	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	39	P-05 (A)	03/13/01	WAP / P01118:05	Tank condition was normal.
H	39	P-06 (A)	07/17/01	WAP / P01195:01	Tank condition was normal.
H	39	P-07 (A)	03/13/01	WAP / P01118:06	Tank condition was normal.
H	39	P-08 (A)	03/13/01	WAP / P01118:07	Tank condition was normal.
H	39	P-09 (A)	03/13/01	WAP / P01118:08	Tank condition was normal.
H	39	P-10 (A)	03/13/01	WAP / P01118:09	Tank condition was normal.
H	39	P-11 (A)	10/09/01	DP / P01235:01-25	Tank condition was normal.
H	39	P-12 (A)	02/22/01	DP / P01084:01-25	Tank condition was normal.
H	39	P-13 (A)	02/22/01	DP / P01085:01-25	Tank condition was normal.
H	39	P-14 (A)	02/22/01	DP / P01086:01-25	Tank condition was normal.
H	40	C-01	02/27/01	CCTV / 748	The conductivity probe WTS-LE-2007 was deployed at the setpoint.
H	40	C-01	04/26/01	CCTV / 748	The conductivity probe was deployed on the TTJ spray chamber ledge.
H	40	C-01	05/08/01	CCTV / 764	CCTV was used to observed for leakage at the flanges in the spray chamber during transfer. No leakage was observed.
H	40	ValveBox	12/05/01	CCTV / 804	CCTV was used to leakcheck the downstream Gra-Loc connector and valve packing glands on valve jumper WTS-V-26. No leaks were observed.
H	40	ValveBox	12/06/01	CCTV / 804	Inspection verified valve PV-2009 in the closed position.
H	40	ValveBox	12/06/01	CCTV / 804	CCTV was used to leak check valve jumper PV-2009 valve gland packing and Gra-Loc connection. No leaks were observed.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	40	ValveBox	12/09/01	CCTV / 804	CCTV was used to leak check valve WTS-V-2009. No leaks were observed.
H	40	ValveBox	12/17/01	CCTV / 804	CCTV was used to inspect the valve box for liquid. No liquid was observed.
H	40	A-01 (A)	02/23/01	DP / P01067:01-25	Tank condition was normal. Stains and marks on the secondary vessel wall that originate beneath penetration supernate penetration line have increased since inspected on 5/21/97.
H	40	A-01 (A)	12/20/01	WAP / P01291:01	Tank condition was normal.
H	40	A-02 (A)	02/23/01	DP / P01068:19	The conductivity probe was deployed at the setpoint.
H	40	A-02 (A)	02/23/01	DP / P01068:01-25	Tank condition was normal. A masselin cloth was observed on the annulus floor.
H	40	A-02 (A)	12/20/01	WAP / P01291:02	Tank condition was normal.
H	40	A-03 (A)	02/23/01	DP / P01069:21	The conductivity probe was deployed at the setpoint.
H	40	A-03 (A)	02/23/01	DP / P01069:01-25	Tank condition was normal.
H	40	A-03 (A)	12/20/01	WAP / P01291:03	Tank condition was normal.
H	40	A-04 (A)	02/23/01	DP / P01070:22	The conductivity probe was deployed at the setpoint.
H	40	A-04 (A)	02/23/01	DP / P01070:01-25	Tank condition was normal.
H	40	A-04 (A)	12/20/01	WAP / P01291:04	Tank condition was normal.
H	40	P-01 (A)	01/09/01	WAP / P01017:01	Tank condition was normal.
H	40	P-01 (A)	12/20/01	WAP / P01291:05	Tank condition was normal.
H	40	P-02 (A)	02/23/01	DP / P01071:01-25	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	40	P-02 (A)	12/18/01	DP / P01277:01-24	Tank condition was normal.
H	40	P-03 (A)	01/09/01	WAP / P01017:02	Tank condition was normal.
H	40	P-03 (A)	12/20/01	WAP / P01291:06	Tank condition was normal.
H	40	P-04 (A)	01/09/01	WAP / P01017:03	Tank condition was normal.
H	40	P-04 (A)	12/20/01	WAP / P01291:07	Tank condition was normal.
H	40	P-05 (A)	01/09/01	WAP / P01017:04	Tank condition was normal.
H	40	P-05 (A)	12/18/01	DP / P01278:01-25	Tank condition was normal.
H	40	P-06 (A)	02/23/01	WAP / P01088:01	Tank condition was normal.
H	40	P-06 (A)	12/20/01	WAP / P01291:08	Tank condition was normal.
H	40	P-07 (A)	02/23/01	WAP / P01088:02	Tank condition was normal.
H	40	P-07 (A)	12/20/01	WAP / P01291:09	Tank condition was normal.
H	40	P-08 (A)	01/09/01	WAP / P01017:05	Tank condition was normal.
H	40	P-08 (A)	12/18/01	DP / P01279:01-25	Tank condition was normal.
H	40	P-09 (A)	01/09/01	WAP / P01017:06	Tank condition was normal.
H	40	P-09 (A)	12/20/01	WAP / P01291:10	Tank condition was normal.
H	40	P-10 (A)	01/09/01	WAP / P01017:07	Tank condition was normal.
H	40	P-10 (A)	12/20/01	WAP / P01291:11	Tank condition was normal.
H	40	P-11 (A)	01/09/01	WAP / P01017:08	Tank condition was normal.
H	40	P-11 (A)	12/18/01	DP / P01280:01-25	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	40	P-12 (A)	02/23/01	DP / P01072:01-25	Tank condition was normal.
H	40	P-12 (A)	12/20/01	WAP / P01291:12	Tank condition was normal.
H	40	P-13 (A)	02/23/01	DP / P01073:01-25	Tank condition was normal.
H	40	P-13 (A)	12/20/01	WAP / P01291:13	Tank condition was normal.
H	40	P-14 (A)	01/09/01	WAP / P01017:09	Tank condition was normal.
H	40	P-14 (A)	12/18/01	DP / P01281:01-25	Tank condition was normal.
H	40	B-01 (I)	02/02/01	CCTV / 753	Inspection documented conditions of waste surface. The waste surface was covered in a brown foam-like substance which appeared to have left deposits on the tank wall and cooling coils.
H	40	B-01 (I)	02/07/01	CCTV / 755	Inspection monitored surface agitation during slurry pump operation. No unusual conditions were observed.
H	40	B-01 (I)	02/08/01	CCTV / 755	Inspection monitored surface agitation during slurry pump operation. No accumulation of foam was observed.
H	40	B-01 (I)	02/09/01	CCTV / 755	Inspection monitored surface agitation during slurry pump operation. No accumulation of foam was observed.
H	40	B-01 (I)	02/15/01	CCTV / 755	Inspection monitored waste surface conditions. A very thin film was observed on the liquid surface. A small accumulation of this film was observed around some of the cooling coils.
H	40	B-01 (I)	04/08/01	CCTV / 755	CCTV was used to document surface conditions. No significant floating solids were observed. A leak check during flush water transfer revealed leaks which appear to be coming from the TTJ and spraying downward.
H	40	B-01 (I)	04/11/01	CCTV / 764	CCTV was used to monitor waste transfer to Tank 30 and document conditions of waste surface.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	40	B-01 (I)	04/20/01	CCTV / 764	CCTV was used to document effect of flush water on the waste surface during flush. No unusual conditions were observed.
H	40	B-01 (I)	10/25/01	CCTV / 803	CCTV was used to document the condition of the tank cooling coils. No anomalies were observed with respect to the coils or guides visible near the B-6 or H slurry pumps. All cooling coils were aligned properly inside the top guides. The D-4 thermowell was obscured from full view; however, it appeared to be properly aligned and intact. The waste level of 251.4 inches prevented viewing the bottom supports.
H	40	B-03 (I)	10/25/01	CCTV / 803	CCTV was used to document the condition of the tank cooling coils. No anomalies were observed with respect to the coils or guides visible near the G slurry pump. All cooling coils were aligned properly inside the top guides. The D2 thermowell near the G riser was properly aligned and intact. Several of the coils near the B2 pump were not equipped with top guides but appear to be properly aligned and at the correct height indicating no failure of the bottom supports. The waste level of 251.4" prevented viewing the bottom supports.
H	40	B-05 (I)	07/23/01	CCTV / 747	Inspection revealed that the conductivity probe was deployed on the ledge in the riser.
H	40	C-01 (I)	04/08/01	CCTV / 747	Inspection revealed that the conductivity probe was deployed on the TTJ spray chamber ledge. No leaks were observed in the spray chamber.
H	40	C-01 (I)	04/12/01	CCTV / 764	CCTV was used to document flush of TTJ. No leaks were observed during flush.
H	40	C-01 (I)	04/26/01	CCTV / 748	CCTV was used to document leak check of the TTJ. No leaks were observed.
H	40	C-03 (I)	03/11/01	CCTV / 755	Inspection revealed no floating solids; however, a thin film was observed on the waste surface.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	40	V-02 (I)	04/20/01	CCTV / 764	CCTV was used to document leak check of TTJ on flush connector on stuffing box. Water was observed leaking from a missing/bent flush water connector at the stuffing box.
H	40	V-02 (I)	04/24/01	CCTV / 764	CCTV was used to document conditions of TTJ. Inspection of jet suction and diversion plate appear normal.
H	40	V-02 (I)	04/26/01	CCTV / 748	CCTV was used to document leak check of the TTJ. No leaks were observed.
H	40	V-02 (I)	04/28/01	CCTV / N/A	CCTV was used to observe TTJ during start of waste transfer to Tank 30. A small liquid leak was observed at the coupling during initial startup. As the coupling heated up, no further leaks were observed.
H	40	V-02 (I)	05/01/01	CCTV / 764	CCTV was used to position TTJ in preparation for transfer.
H	40	V-02 (I)	05/01/01	CCTV / 764	CCTV was used to observe TTJ during start of waste transfer from Tank 30. A leak was observed at the steam leg stuffing box.
H	40	V-02 (I)	05/05/01	CCTV / N/A	CCTV was used to observe TTJ during start of waste transfer from Tank 30.
H	40	V-02 (I)	05/08/01	CCTV / 764	CCTV was used to observe TTJ during start of waste transfer to Tank 30. A leak was observed at the steam leg stuffing box.
H	41	LDB-01	11/19/01	CCTV / 747 A	Inspection was made to document the conditions of the LDB. Corrosion particles, mud and other loose items were observed.
H	41	LDB-02	11/19/01	CCTV / 747 A	Inspection was made to document the conditions of the LDB. Corrosion particles, mud and other loose items were observed.
H	41	Underliner Sump	11/19/01	CCTV / 748 F	Inspection was made to document the conditions of the sump. Corrosion particles, mud and other loose items were observed.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	41	A-01 (A)	01/09/01	WAP / P01033:01	Tank condition was normal.
H	41	A-01 (A)	12/16/01	DP / P01282:01-25	Tank condition was normal.
H	41	A-02 (A)	01/09/01	WAP / P01033:02	Tank condition was normal.
H	41	A-02 (A)	07/21/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	41	A-02 (A)	12/16/01	DP / P01283:01-25	Tank condition was normal.
H	41	A-03 (A)	02/23/01	WAP / P01087:01	Tank condition was normal.
H	41	A-03 (A)	07/21/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	41	A-03 (A)	12/16/01	DP / P01284:01-25	Tank condition was normal. A piece of Kraft paper was observed on the annulus floor.
H	41	A-04 (A)	02/23/01	WAP / P01087:02	Tank condition was normal.
H	41	A-04 (A)	07/21/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	41	A-04 (A)	12/16/01	DP / P01285:01-25	Tank condition was normal.
H	41	P-01 (A)	01/09/01	WAP / P01033:03	Tank condition was normal.
H	41	P-01 (A)	12/20/01	WAP / P01290:01	Tank condition was normal.
H	41	P-02 (A)	01/09/01	WAP / P01033:04	Tank condition was normal.
H	41	P-02 (A)	12/20/01	WAP / P01290:02	Tank condition was normal. A masselin cloth was observed on the annulus floor.
H	41	P-03 (A)	01/09/01	WAP / P01033:05	Tank condition was normal.
H	41	P-03 (A)	12/20/01	WAP / P01290:03	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	41	P-04 (A)	02/23/01	WAP / P01087:03	Tank condition was normal.
H	41	P-04 (A)	12/20/01	WAP / P01290:04	Tank condition was normal.
H	41	P-05 (A)	02/23/01	WAP / P01087:04	Tank condition was normal.
H	41	P-05 (A)	12/20/01	WAP / P01290:05	Tank condition was normal.
H	41	P-06 (A)	02/23/01	WAP / P01087:05	Tank condition was normal.
H	41	P-06 (A)	12/20/01	WAP / P01290:06	Tank condition was normal.
H	41	P-07 (A)	02/23/01	WAP / P01087:06	Tank condition was normal.
H	41	P-07 (A)	12/20/01	WAP / P01290:07	Tank condition was normal.
H	41	P-08 (A)	02/23/01	WAP / P01087:07	Tank condition was normal.
H	41	P-08 (A)	12/20/01	WAP / P01290:08	Tank condition was normal.
H	41	P-09 (A)	02/23/01	WAP / P01087:08	Tank condition was normal.
H	41	P-09 (A)	12/20/01	WAP / P01290:09	Tank condition was normal.
H	41	P-10 (A)	02/23/01	DP / P01074:01-25	Tank condition was normal. Mild surface corrosion was observed on the annulus floor.
H	41	P-10 (A)	12/20/01	WAP / P01290:10	Tank condition was normal.
H	41	P-11 (A)	02/23/01	DP / P01075:01-25	Tank condition was normal. Mild surface corrosion was observed on the annulus floor.
H	41	P-11 (A)	12/20/01	WAP / P01290:11	Tank condition was normal.
H	41	P-12 (A)	02/23/01	DP / P01076:01-25	Tank condition was normal.
H	41	P-12 (A)	12/20/01	WAP / P01290:12	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD / IDENTIFICATION NUMBER	REMARKS
H	41	P-13 (A)	02/23/01	DP / P01077:01-25	Tank condition was normal.
H	41	P-13 (A)	12/20/01	WAP / P01290:13	Tank condition was normal.
H	41	P-14 (A)	02/23/01	DP / P01078:01-25	Tank condition was normal. A leather glove was observed on the annulus floor.
H	41	P-14 (A)	12/20/01	WAP / P01290:14	Tank condition was normal.
H	42	VB	10/30/01	CCTV / 747 A	The conductivity probes were deployed at the setpoint.
H	42	A-01 (A)	02/23/01	DP / P01060:01-25	Tank condition was normal. Stains and marks on the secondary vessel wall beneath the supernate penetration line indicate that water continues to enter the annulus in this area.
H	42	A-01 (A)	12/18/01	WAP / P01292:03	Tank condition was normal.
H	42	A-02 (A)	02/23/01	DP / P01061:21	The conductivity probe was deployed at the setpoint.
H	42	A-02 (A)	02/23/01	DP / P01061:01-26	Tank condition was normal.
H	42	A-02 (A)	12/18/01	WAP / P01292:06	Tank condition was normal.
H	42	A-03 (A)	02/23/01	DP / P01061:21	The conductivity probe was deployed at the setpoint.
H	42	A-03 (A)	02/23/01	DP / P01062:01-25	Tank condition was normal.
H	42	A-03 (A)	12/18/01	WAP / P01292:12	Tank condition was normal.
H	42	A-04 (A)	02/23/01	DP / P01061:21	The conductivity probe was deployed at the setpoint.
H	42	A-04 (A)	02/23/01	DP / P01063:01-25	Tank condition was normal. A piece of plastic tubing was observed on the annulus floor.
H	42	A-04 (A)	12/18/01	WAP / P01292:08	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	42	P-01 (A)	01/10/01	WAP / P01032:01	Tank condition was normal.
H	42	P-01 (A)	12/18/01	WAP / P01292:04	Tank condition was normal.
H	42	P-02 (A)	01/10/01	WAP / P01032:02	Tank condition was normal.
H	42	P-02 (A)	12/18/01	WAP / P01292:05	Tank condition was normal.
H	42	P-03 (A)	01/10/01	WAP / P01032:03	Tank condition was normal.
H	42	P-03 (A)	12/14/01	DP / P01286:01-25	Tank condition was normal.
H	42	P-04 (A)	02/24/01	WAP / P01089:01	Tank condition was normal.
H	42	P-04 (A)	12/18/01	WAP / P01292:07	Tank condition was normal.
H	42	P-05 (A)	01/10/01	WAP / P01032:04	Tank condition was normal.
H	42	P-05 (A)	12/18/01	WAP / P01292:14	Tank condition was normal.
H	42	P-06 (A)	01/10/01	WAP / P01032:05	Tank condition was normal.
H	42	P-06 (A)	12/18/01	WAP / P01292:13	Tank condition was normal.
H	42	P-07 (A)	01/10/01	WAP / P01032:06	Tank condition was normal.
H	42	P-07 (A)	12/14/01	DP / P01287:01-25	Tank condition was normal.
H	42	P-08 (A)	01/10/01	WAP / P01032:07	Tank condition was normal.
H	42	P-08 (A)	12/18/01	WAP / P01292:11	Tank condition was normal.
H	42	P-09 (A)	01/10/01	WAP / P01032:08	Tank condition was normal.
H	42	P-09 (A)	12/18/01	WAP / P01292:10	Tank condition was normal.
H	42	P-10 (A)	01/10/01	WAP / P01032:09	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	42	P-10 (A)	12/18/01	WAP / P01292:09	Tank condition was normal.
H	42	P-11 (A)	01/10/01	WAP / P01032:10	Tank condition was normal.
H	42	P-11 (A)	12/14/01	DP / P01288:01-25	Tank condition was normal.
H	42	P-12 (A)	02/23/01	DP / P01064:01-25	Tank condition was normal.
H	42	P-12 (A)	12/18/01	WAP / P01292:15	Tank condition was normal.
H	42	P-13 (A)	02/23/01	DP / P01065:01-25	Tank condition was normal.
H	42	P-13 (A)	12/18/01	WAP / P01292:01	Tank condition was normal.
H	42	P-14 (A)	02/23/01	DP / P01066:01-25	Tank condition was normal.
H	42	P-14 (A)	12/18/01	WAP / P01292:02	Tank condition was normal.
H	43	LDB-01	10/27/01	CCTV / 747 A	The conductivity probe was deployed at the setpoint. Liquid was observed in the LDB.
H	43	LDB-02	07/22/01	CCTV / 747	The conductivity probe was deployed at the setpoint. Debris was observed inside the LDB.
H	43	LDB-03	05/04/01	CCTV / 747	CCTV was used to document position of conductivity probe. Probe was not visible due to a blockage in the standpipe.
H	43	LDB-03	08/11/01	CCTV / 748 C	Inspection of the conductivity probe standpipe revealed corrosion particles and mud had plugged the standpipe preventing the conductivity probe from being properly deployed.
H	43	LDB-03	08/12/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
H	43	LDB-03	08/19/01	CCTV / N/A	The conductivity probe was not visible beneath the standpipe.
H	43	LDB-03	10/24/01	CCTV / 747 a	The conductivity probe was deployed at the setpoint.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	43	LDB-03	10/25/01	CCTV / 747 a	Inspection was made to document conditions of LDB after flushing. Mud, silt, and corrosion particles were observed.
H	43	LDB-03	10/27/01	CCTV / 747 A	The conductivity probe was deployed at the setpoint.
H	43	LDB-03	10/29/01	CCTV / 747 A	The conductivity probe was deployed at the setpoint. Sediment and corrosion particles were observed.
H	43	LDB-03	11/19/01	CCTV / 747 A	CCTV was used to verify the condition of the drain and overflow lines. No unusual conditions were observed.
H	43	LDB-03	11/21/01	CCTV / 747 A	The conductivity probe was deployed at the setpoint.
H	43	LDB-03	12/03/01	CCTV / 747A	The conductivity probe was deployed at the setpoint.
H	43	LDB-03	12/07/01	CCTV / 747B	The conductivity probe was deployed at the setpoint.
H	43	LDB-04	03/21/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
H	43	LDB-04	12/03/01	CCTV / 747A	The conductivity probe was deployed at the setpoint.
H	43	LDB-07	03/09/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
H	43	LDB-07	09/07/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
H	43	LDB-07	10/05/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
H	43	LDB-07	10/19/01	CCTV / 747 A	The conductivity probe was deployed at the setpoint.
H	43	LDB-07	10/27/01	CCTV / 747 A	The conductivity probe was deployed at the setpoint.
H	43	LDB-07	10/28/01	CCTV / 747 A	The conductivity probe was deployed at the setpoint. A small amount of liquid remained on the LDB floor beneath the standpipe.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	43	LDB-07	12/03/01	CCTV / 747A	The conductivity probe was deployed at the setpoint.
H	43	R	11/30/01	CCTV / 748 G	CCTV was used to facilitate feed pump replacement and leak check. No leaks were observed.
H	43	R	12/02/01	CCTV / 748G	The conductivity probe was properly positioned in the feed pump overflow trough (per drawing D-149911).
H	43	R	12/08/01	CCTV / 777 A	Inspection documented water spraying on the conductivity probe positioned in the overflow trough while the feed pump was being primed.
H	43	A-01 (A)	04/22/01	WAP / P01117:01	Tank condition was normal.
H	43	A-02 (A)	03/13/01	WAP / P01117:2	Tank condition was normal.
H	43	A-02 (A)	07/21/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	43	A-03 (A)	07/17/01	WAP / P01196:01	Tank condition was normal.
H	43	A-03 (A)	07/21/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	43	A-04 (A)	03/13/01	WAP / P01117:3	Tank condition was normal.
H	43	A-04 (A)	07/21/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	43	P-01 (A)	03/13/01	WAP / P01117:6	Tank condition was normal.
H	43	P-02 (A)	03/13/01	WAP / P01117:5	Tank condition was normal.
H	43	P-03 (A)	07/17/01	WAP / P01196:02	Tank condition was normal.
H	43	P-04 (A)	03/13/01	WAP / P01117:4	Tank condition was normal.
H	43	P-05 (A)	07/17/01	WAP / P01196:03	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	43	P-06 (A)	07/17/01	WAP / P01196:04	Tank condition was normal. Stains on the secondary vessel wall have increased due to the inleakage of water.
H	43	P-07 (A)	07/17/01	WAP / P01196:05	Tank condition was normal.
H	43	P-08 (A)	07/17/01	WAP / P01196:06	Tank condition was normal. Stains on top of the ventilation duct and annulus floor have increased due to the inleakage of water.
H	43	P-09 (A)	07/17/01	WAP / P01196:07	Tank condition was normal. Stains on top of the ventilation duct, secondary vessel wall and annulus floor have increased due to the inleakage of water.
H	43	P-10 (A)	02/27/01	DP / P01096:01-25	Tank condition was normal. Stains and marks on the secondary vessel wall, the top of the ventilation duct and the annulus floor have increased since last inspected on 1/29/97 and appear to be caused by inleakage from penetration line designated WS7.
H	43	P-11 (A)	02/27/01	DP / P01097:01-25	Tank condition was normal.
H	43	P-12 (A)	02/27/01	DP / P01098:01-25	Tank condition was normal.
H	43	P-13 (A)	02/27/01	DP / P01099:01-25	Tank condition was normal.
H	43	P-14 (A)	02/27/01	DP / P01100:01-25	Tank condition was normal.
H	43	C-01 (I)	01/22/01	CCTV / 748	CCTV was used to determine the length of the down comer pipe. The length was indeterminate because the downcomer extended into the liquid.
H	43	G (I)	07/22/01	CCTV / 777	CCTV was used to monitor surface agitation and document flow patterns that developed during B-01 Flygt mixer operation.
H	43	G (I)	07/28/01	CCTV / 777	CCTV was used to monitor surface agitation and document flow patterns that developed during B-02 Flygt mixer operation.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	43	H (I)	06/11/01	CCTV / 777	CCTV was used to determine the length of the downcomer. The downcomer discharge was approximately 121 inches above the tank bottom per drawing D-149796-A.
H	43	H (I)	07/07/01	CCTV / 777	CCTV was used to leak check the B-01 Flygt mixer. No leaks were observed.
H	43	H (I)	11/27/01	CCTV / 777	Inspection verified that the feed pump was properly positioned. Based on drawing W748136, only the inlet and discharge piping are below the liquid surface.
H	43	H (I)	11/28/01	CCTV / 777 A	The feed pump can and piping was inspected. The inspection verified that the motor was above the liquid level.
F	44	LDB-02	06/20/01	CCTV / 748 B	The conductivity probe was deployed at the setpoint.
F	44	A-01 (A)	06/30/01	DP / P01157:01-25	Tank condition was normal.
F	44	A-02 (A)	06/29/01	DP / P01158:21	The conductivity probe was deployed at the setpoint.
F	44	A-02 (A)	06/29/01	DP / P01158:01-25	Tank condition was normal.
F	44	A-03 (A)	06/29/01	DP / P01159:21	The conductivity probe was deployed at the setpoint.
F	44	A-03 (A)	06/29/01	DP / P01159:01-24	Tank condition was normal.
F	44	A-04 (A)	06/30/01	DP / P01160:21	The conductivity probe was deployed at the setpoint.
F	44	A-04 (A)	06/30/01	DP / P01160:01-25	Tank condition was normal. Stains and marks on the secondary vessel wall have increased since last inspected.
F	44	P-01 (A)	05/22/01	WAP / P01150:01	Tank condition was normal.
F	44	P-02 (A)	05/22/01	WAP / P01150:02	Tank condition was normal.
F	44	P-03 (A)	05/22/01	WAP / P01150:03	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	44	P-04 (A)	05/22/01	WAP / P01150:04	Tank condition was normal.
F	44	P-05 (A)	05/22/01	WAP / P01150:05	Tank condition was normal.
F	44	P-06 (A)	05/22/01	WAP / P01150:06	Tank condition was normal.
F	44	P-07 (A)	05/22/01	WAP / P01150:07	Tank condition was normal.
F	44	P-08 (A)	09/15/01	WAP / P01217:01	Tank condition was normal. A masselin cloth was observed on the annulus floor.
F	44	P-09 (A)	09/15/01	WAP / P01217:02	Tank condition was normal.
F	44	P-10 (A)	05/22/01	WAP / P01150:08	Tank condition was normal.
F	44	P-11 (A)	05/22/01	WAP / P01150:09	Tank condition was normal.
F	44	P-12 (A)	05/22/01	WAP / P01150:10	Tank condition was normal.
F	44	P-13 (A)	05/22/01	WAP / P01150:11	Tank condition was normal.
F	44	P-14 (A)	05/22/01	WAP / P01150:12	Tank condition was normal.
F	45	LDB-01	06/20/01	CCTV / 748 B	The conductivity probe was deployed at the setpoint.
F	45	A-01 (A)	06/30/01	DP / P01161:01-25	Tank condition was normal.
F	45	A-02 (A)	07/01/01	DP / P01162:21	The conductivity probe was deployed at the setpoint.
F	45	A-02 (A)	07/01/01	DP / P01162:01-25	Tank condition was normal.
F	45	A-03 (A)	09/14/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
F	45	A-03 (A)	09/14/01	DP / P01209:21	The conductivity probe was deployed at the setpoint.
F	45	A-03 (A)	09/14/01	DP / P01209: 01-25	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	45	A-04 (A)	06/30/01	DP / P01163:21	The conductivity probe was deployed at the setpoint.
F	45	A-04 (A)	06/30/01	DP / P01163:01-25	Tank condition was normal.
F	45	P-01 (A)	05/22/01	WAP / P01151:01	Tank condition was normal.
F	45	P-02 (A)	05/22/01	WAP / P01151:02	Tank condition was normal.
F	45	P-03 (A)	05/22/01	WAP / P01151:03	Tank condition was normal.
F	45	P-04 (A)	05/22/01	WAP / P01151:04	Tank condition was normal.
F	45	P-05 (A)	05/22/01	WAP / P01151:05	Tank condition was normal.
F	45	P-06 (A)	05/22/01	WAP / P01151:06	Tank condition was normal.
F	45	P-07 (A)	05/22/01	WAP / P01151:07	Tank condition was normal.
F	45	P-08 (A)	05/22/01	WAP / P01151:08	Tank condition was normal.
F	45	P-09 (A)	05/22/01	WAP / P01151:09	Tank condition was normal.
F	45	P-10 (A)	05/22/01	WAP / P01151:10	Tank condition was normal.
F	45	P-11 (A)	05/22/01	WAP / P01151:11	Tank condition was normal.
F	45	P-12 (A)	05/22/01	WAP / P01151:12	Tank condition was normal.
F	45	P-13 (A)	05/22/01	WAP / P01151:13	Tank condition was normal.
F	45	P-14 (A)	05/22/01	WAP / P01151:14	Tank condition was normal.
F	46	LDB-03	02/27/01	CCTV / 747	The conductivity probe was resting on the floor of the LDB.
F	46	LDB-04	04/16/01	CCTV / 747	The conductivity probe was deployed at the setpoint.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	46	A-01 (A)	09/14/01	DP / P01210:01-25	Tank condition was normal.
F	46	A-02 (A)	09/14/01	DP / P01211:21	The conductivity probe was deployed at the setpoint.
F	46	A-02 (A)	09/14/01	DP / P01211:01-25	Tank condition was normal.
F	46	A-03 (A)	09/14/01	DP / P01212:21	The conductivity probe was deployed at the setpoint.
F	46	A-03 (A)	09/14/01	DP / P01212:01-25	Tank condition was normal.
F	46	A-04 (A)	09/14/01	DP / P01213:21	The conductivity probe was deployed at the setpoint.
F	46	A-04 (A)	09/14/01	DP / P01213:01-25	Tank condition was normal.
F	46	P-01 (A)	05/21/01	WAP / P01152:01	Tank condition was normal.
F	46	P-02 (A)	05/21/01	WAP / P01152:02	Tank condition was normal.
F	46	P-03 (A)	05/21/01	WAP / P01152:03	Tank condition was normal.
F	46	P-04 (A)	05/21/01	WAP / P01152:04	Tank condition was normal.
F	46	P-05 (A)	05/21/01	WAP / P01152:05	Tank condition was normal.
F	46	P-06 (A)	05/21/01	WAP / P01152:06	Tank condition was normal.
F	46	P-07 (A)	05/21/01	WAP / P01152:07	Tank condition was normal.
F	46	P-08 (A)	05/21/01	WAP / P01152:08	Tank condition was normal.
F	46	P-09 (A)	05/21/01	WAP / P01152:09	Tank condition was normal.
F	46	P-10 (A)	05/21/01	WAP / P01152:10	Tank condition was normal.
F	46	P-11 (A)	05/21/01	WAP / P01152:11	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	46	P-12 (A)	05/21/01	WAP / P01152:12	Tank condition was normal.
F	46	P-13 (A)	05/21/01	WAP / P01152:13	Tank condition was normal.
F	46	P-14 (A)	05/21/01	WAP / P01152:14	Tank condition was normal.
F	46	H (I)	02/06/01	CCTV / 748	Inspection revealed no steam leak in the transfer jet. Salt accumulation was observed on the jet cooling coils.
F	46	H (I)	10/02/01	CCTV / 798	CCTV was used to document conditions of tank after it was decanted. The waste surface was liquid with a few solids floating and no accumulation of salt was observed on the cooling coils, center column or tank walls. Liquid was observed dripping off cooling coil #10 with wet stains at the roof where the coil enters and exits the tank.
F	47	LDB-01	04/16/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
F	47	LDB-02	03/06/01	CCTV / N/A	The conductivity probe was deployed at the setpoint.
F	47	LDB-02	04/16/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
F	47	LDB-03	02/27/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
F	47	A-01 (A)	07/01/01	DP / P01164:01-25	Tank condition was normal.
F	47	A-02 (A)	07/01/01	DP / P01165:21	The conductivity probe was deployed at the setpoint.
F	47	A-02 (A)	07/01/01	DP / P01165:01-25	Tank condition was normal.
F	47	A-03 (A)	07/01/01	DP / P01166:01-25	Tank condition was normal.
F	47	A-03 (A)	10/22/01	CCTV / 746 a	The conductivity probe was deployed at the setpoint.
F	47	A-04 (A)	09/14/01	DP / P01214:21	The conductivity probe was deployed at the setpoint.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	47	A-04 (A)	09/14/01	DP / P01214:01-25	Tank condition was normal.
F	47	P-01 (A)	05/22/01	WAP / P01149:01	Tank condition was normal.
F	47	P-02 (A)	05/22/01	WAP / P01149:02	Tank condition was normal.
F	47	P-03 (A)	05/22/01	WAP / P01149:03	Tank condition was normal.
F	47	P-04 (A)	05/22/01	WAP / P01149:04	Tank condition was normal.
F	47	P-05 (A)	05/22/01	WAP / P01149:05	Tank condition was normal.
F	47	P-06 (A)	05/22/01	WAP / P01149:06	Tank condition was normal.
F	47	P-07 (A)	05/22/01	WAP / P01149:07	Tank condition was normal.
F	47	P-08 (A)	05/22/01	WAP / P01149:08	Tank condition was normal.
F	47	P-09 (A)	05/22/01	WAP / P01149:09	Tank condition was normal.
F	47	P-10 (A)	05/22/01	WAP / P01149:10	Tank condition was normal.
F	47	P-11 (A)	05/22/01	WAP / P01149:11	Tank condition was normal.
F	47	P-12 (A)	05/22/01	WAP / P01149:12	Tank condition was normal.
F	47	P-13 (A)	05/22/01	WAP / P01149:13	Tank condition was normal.
F	47	P-14 (A)	05/22/01	WAP / P01149:14	Tank condition was normal.
H	48	LDB-02	11/12/01	CCTV / 748 F	CCTV was used to position conductivity probe. A small mound of corrosion particles and mud were observed beneath the standpipe.
H	48	LDB-04	11/12/01	CCTV / 748 F	CCTV was used to position conductivity probe. A small mound of corrosion particles and mud were observed beneath the standpipe.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	48	LDB-05	11/12/01	CCTV / 748 F	CCTV was used to position conductivity probe. A small mound of corrosion particles and mud were observed beneath the standpipe.
H	48	LDB-06	11/12/01	CCTV / 748 F	CCTV was used to position conductivity probe. A small mound of corrosion particles and mud were observed beneath the standpipe.
H	48	LDB-06	12/11/01	CCTV / 747 B	The conductivity probe was deployed at the setpoint.
H	48	Underliner Sump	03/23/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
H	48	A-01 (A)	01/05/01	DP / P01001:01-24	Tank condition was normal.
H	48	A-01 (A)	12/28/01	WAP / P01296:01	Tank condition was normal.
H	48	A-02 (A)	01/05/01	DP / P01002:01-25	Tank condition was normal.
H	48	A-02 (A)	01/06/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	48	A-02 (A)	12/28/01	WAP / P01296:02	Tank condition was normal.
H	48	A-03 (A)	01/05/01	DP / P01003:20	The conductivity probe was deployed at the setpoint.
H	48	A-03 (A)	01/05/01	DP / P01003:01-24	Tank condition was normal. Chromate deposits from the primary vessel wall have dried and fallen off of the tank wall since last inspected.
H	48	A-03 (A)	07/21/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	48	A-03 (A)	12/28/01	WAP / P01296:03	Tank condition was normal.
H	48	A-04 (A)	01/05/01	DP / P01004:20	The conductivity probe was deployed at the setpoint.
H	48	A-04 (A)	01/05/01	DP / P01004:01-24	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	48	A-04 (A)	07/21/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	48	A-04 (A)	12/28/01	WAP / P01296:04	Tank condition was normal.
H	48	P-01 (A)	01/11/01	WAP / P01018:01	Tank condition was normal.
H	48	P-01 (A)	12/10/01	DP / P01259:01-25	Tank condition was normal.
H	48	P-02 (A)	02/22/01	WAP / P01018:02	Tank condition was normal.
H	48	P-02 (A)	12/18/01	DP / P01260:01-25	Tank condition was normal.
H	48	P-03 (A)	01/05/01	WAP / P01018:03	Tank condition was normal.
H	48	P-03 (A)	12/28/01	WAP / P01296:05	Tank condition was normal.
H	48	P-04 (A)	01/05/01	WAP / P01018:04	Tank condition was normal.
H	48	P-04 (A)	12/28/01	WAP / P01296:06	Tank condition was normal.
H	48	P-05 (A)	01/05/01	WAP / P01018:05	Tank condition was normal.
H	48	P-05 (A)	12/28/01	WAP / P01296:07	Tank condition was normal.
H	48	P-06 (A)	01/05/01	WAP / P01018:06	Tank condition was normal.
H	48	P-06 (A)	12/10/01	DP / P01261:01-25	Tank condition was normal.
H	48	P-07 (A)	01/11/01	WAP / P01018:07	Tank condition was normal.
H	48	P-07 (A)	12/18/01	DP / P01262:01-25	Tank condition was normal.
H	48	P-08 (A)	01/05/01	WAP / P01018:08	Tank condition was normal.
H	48	P-08 (A)	12/18/01	DP / P01263:01-25	Tank condition was normal.
H	48	P-09 (A)	01/05/01	WAP / P01018:09	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	48	P-09 (A)	12/10/01	DP / P01264:01-25	Tank condition was normal.
H	48	P-10 (A)	01/05/01	WAP / P01018:10	Tank condition was normal.
H	48	P-10 (A)	12/28/01	WAP / P01296:08	Tank condition was normal.
H	48	P-11 (A)	01/05/01	WAP / P01018:11	Tank condition was normal.
H	48	P-11 (A)	12/28/01	WAP / P01296:09	Tank condition was normal.
H	48	P-13 (A)	01/05/01	WAP / P01018:12	Tank condition was normal.
H	48	P-13 (A)	12/28/01	WAP / P01296:10	Tank condition was normal.
H	48	P-14 (A)	02/22/01	WAP / P01018:13	Tank condition was normal.
H	48	P-14 (A)	12/28/01	WAP / P01296:11	Tank condition was normal.
H	48	B-02 (I)	10/18/01	CCTV / 801	Inspection revealed two thermowells in the D-02 riser. The loose hanging wire observed was an abandoned lead for a magnetically roof mounted thermocouple installed during startup in 1995.
H	48	B-03 (I)	10/18/01	CCTV / 801	Inspection revealed two thermowells in the D-02 riser. The loose hanging wire observed was an abandoned lead for a magnetically mounted thermocouple installed during startup in 1995.
H	49		01/13/01	CCTV / 749	CCTV was used to document conditions of the purge exhaust condenser. A buildup of material was observed on the inner walls of the condenser tubes.
H	49		01/14/01	CCTV / 749	CCTV was used to document conditions of the purge exhaust condenser after flushing. The presence of material in the condenser tubes had not changed since last inspected on 1/13/01.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	49		01/18/01	CCTV / 749	CCTV was used to document conditions of the purge exhaust condenser after flushing. The presence of material in the condenser tubes had not changed since last inspected on 1/14/01.
H	49		01/23/01	CCTV / 749	Inspection revealed that the deposits on the inner walls of the condenser tubes have been reduced to residue after multiple flushings.
H	49	B-03	12/06/01	CCTV / 797	The conductivity probe installed in the spray chamber was deployed at the setpoint.
H	49	B-05	12/06/01	CCTV / 797	The conductivity probe installed in the spray chamber was improperly deployed.
H	49	LDB-04	12/05/01	CCTV / 747 B	The conductivity probe was deployed at the setpoint.
H	49	LDB-06	10/03/01	CCTV / 747	The conductivity probe was deployed beyond the minimum setpoint. It is resting on the LDB bottom. The probe is marked incorrectly. It is marked at 1 inch instead of 1/4 inch.
H	49	VB	10/10/01	CCTV / 797	CCTV was used to leak check the Gra-Loc flange. No leaks were observed.
H	49	A-01 (A)	01/05/01	DP / P01005:01-25	Tank condition was normal.
H	49	A-01 (A)	12/19/01	WAP / P01294:14	Tank condition was normal.
H	49	A-02 (A)	01/05/01	DP / P01006:01-25	Tank condition was normal.
H	49	A-02 (A)	01/09/01	CCTV / 746	The conductivity probe was improperly deployed. It was observed on top of the annulus ventilation duct.
H	49	A-02 (A)	02/06/01	CCTV / 746	The conductivity probe was deployed at the setpoint. A masselin cloth was observed on the annulus floor.
H	49	A-02 (A)	10/06/01	CCTV / 746 A	The conductivity probe was deployed at the setpoint.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	49	A-02 (A)	12/19/01	WAP / P01294:03	Tank condition was normal.
H	49	A-03 (A)	01/05/01	DP / P01007:19	The conductivity probe was deployed at the setpoint.
H	49	A-03 (A)	01/05/01	DP / P01007:01-23	Tank condition was normal.
H	49	A-03 (A)	01/09/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	49	A-03 (A)	10/06/01	CCTV / 746 A	The conductivity probe was deployed at the setpoint.
H	49	A-03 (A)	12/19/01	WAP / P01294:07	Tank condition was normal.
H	49	A-04 (A)	01/05/01	DP / P01008:21	The conductivity probe was deployed at the setpoint.
H	49	A-04 (A)	01/05/01	DP / P01008:01-25	Tank condition was normal.
H	49	A-04 (A)	01/09/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	49	A-04 (A)	10/06/01	CCTV / 746 A	The conductivity probe was deployed at the setpoint.
H	49	A-04 (A)	12/19/01	WAP / P01294:10	Tank condition was normal.
H	49	P-01 (A)	01/04/01	WAP / P01019:01	Tank condition was normal.
H	49	P-01 (A)	12/12/01	DP / P01265:01-25	Tank condition was normal.
H	49	P-02 (A)	01/04/01	WAP / P01019:02	Tank condition was normal.
H	49	P-02 (A)	12/12/01	DP / P01266:01-25	Tank condition was normal.
H	49	P-03 (A)	01/04/01	WAP / P01019:03	Tank condition was normal.
H	49	P-03 (A)	12/19/01	WAP / P01294:01	Tank condition was normal.
H	49	P-04 (A)	01/04/01	WAP / P01019:04	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	49	P-04 (A)	12/19/01	WAP / P01294:02	Tank condition was normal.
H	49	P-05 (A)	01/04/01	WAP / P01019:05	Tank condition was normal.
H	49	P-05 (A)	12/19/01	WAP / P01294:04	Tank condition was normal.
H	49	P-06 (A)	01/04/01	WAP / P01019:06	Tank condition was normal.
H	49	P-06 (A)	12/19/01	WAP / P01294:05	Tank condition was normal.
H	49	P-07 (A)	01/04/01	WAP / P01019:07	Tank condition was normal.
H	49	P-07 (A)	12/19/01	WAP / P01294:06	Tank condition was normal.
H	49	P-08 (A)	01/04/01	WAP / P01019:08	Tank condition was normal.
H	49	P-08 (A)	12/12/01	DP / P01267:01-25	Tank condition was normal.
H	49	P-09 (A)	01/04/01	WAP / P01019:09	Tank condition was normal.
H	49	P-09 (A)	12/19/01	DP / P01268:01-25	Tank condition was normal.
H	49	P-10 (A)	01/04/01	WAP / P01019:10	Tank condition was normal.
H	49	P-10 (A)	12/19/01	WAP / P01294:08	Tank condition was normal.
H	49	P-11 (A)	01/04/01	WAP / P01019:11	Tank condition was normal.
H	49	P-11 (A)	12/19/01	WAP / P01294:09	Tank condition was normal.
H	49	P-12 (A)	01/04/01	WAP / P01019:12	Tank condition was normal.
H	49	P-12 (A)	12/19/01	WAP / P01294:11	Tank condition was normal.
H	49	P-13 (A)	01/04/01	WAP / P01019:13	Tank condition was normal.
H	49	P-13 (A)	12/19/01	WAP / P01294:12	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	49	P-14 (A)	01/04/01	WAP / P01019:14	Tank condition was normal.
H	49	P-14 (A)	12/19/01	WAP / P01294:13	Tank condition was normal.
H	49	B-01 (I)	09/21/01	CCTV / 790 C	CCTV was used to document the condition of the cooling coil and supports. No anomalies were observed to the coils, guides or supports visible near the V-2, B-1 or B-4 risers. All cooling coils observed were properly aligned inside the top guides. No failures of the bottom supports were observed. The thermowell installed in the D2 riser was intact but bent and contacting the lower loop of a cooling coil.
H	49	B-04 (I)	10/02/01	CCTV / 797	CCTV was used to document the condition of the coils. No anomalies were observed with respect to the coils, guides or supports visible near the V-2, B-1 or B-4 riser, which previously had quad-volute slurry pumps installed. All cooling coils observed were properly aligned inside the top guides. No failures of the bottom supports were observed. The D-4 thermowell near the B-4 riser appeared intact.
H	49	C-03 (I)	09/21/01	CCTV / 790 C	CCTV was used to document condition of the coils, supports and guides including area under the V-2 riser. All cooling coils observed were properly aligned inside the top guides. A pile of steel tapes was observed on the floor beneath the riser. A stainless object (piping or container) was observed on the surface near the riser.
H	49	G (I)	01/12/01	CCTV / 748	CCTV verified flow into the tank during the flushing of the purge ventilation condenser.
H	49	G (I)	01/13/01	CCTV / 749	CCTV verified flow into the tank during the flushing of the purge ventilation condenser.
H	49	G (I)	01/18/01	CCTV / 749	CCTV verified flow into the tank during the flushing of the purge ventilation condenser.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	49	G (I)	09/05/01	CCTV / 790	CCTV was used to monitor B-01 and B-04 slurry pump blowdown. Two bottom support brackets for cooling coils 16 and 17 had sheared and the coils had fallen out of the top guides. The coils were leaning against adjacent coils near the V-01 slurry pump.
H	50	LDB-01	12/20/01	CCTV / N/A	CCTV was used to facilitate the remote flushing of the LDB.
H	50	LDB-01	12/23/01	CCTV / 747 B	The conductivity probe was deployed at the setpoint.
H	50	LDB-01	12/28/01	CCTV / 747 B	The conductivity probe was deployed at the setpoint.
H	50	A-01 (A)	01/04/01	DP / P01009:01-22	Tank condition was normal.
H	50	A-01 (A)	12/19/01	WAP / P01293:14	Tank condition was normal.
H	50	A-02 (A)	01/04/01	DP / P01010:22	The conductivity probe was deployed at the setpoint.
H	50	A-02 (A)	01/04/01	DP / P01010:01-25	Tank condition was normal. Stains and marks on the secondary vessel wall and ventilation duct have dried since last inspected on 5/8/97. A "D" sized dry cell battery was observed on top of the refractory pad.
H	50	A-02 (A)	01/06/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	50	A-02 (A)	12/19/01	WAP / P01293:03	Tank condition was normal.
H	50	A-03 (A)	01/04/01	DP / P01011:21	The conductivity probe was deployed at the setpoint.
H	50	A-03 (A)	01/04/01	DP / P01011:01-25	Tank condition was normal.
H	50	A-03 (A)	01/06/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	50	A-03 (A)	12/19/01	WAP / P01293:07	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD / IDENTIFICATION NUMBER	REMARKS
H	50	A-04 (A)	01/04/01	DP / P01012:21	The conductivity probe was deployed at the setpoint.
H	50	A-04 (A)	01/04/01	DP / P01012:01-25	Tank condition was normal.
H	50	A-04 (A)	01/06/01	CCTV / 746	The conductivity probe was deployed at the setpoint. An absorbent swipe was observed on the annulus floor.
H	50	A-04 (A)	12/19/01	WAP / P01293:10	Tank condition was normal.
H	50	P-01 (A)	01/04/01	WAP / P01020:01	Tank condition was normal.
H	50	P-01 (A)	12/10/01	DP / P01269:01-25	Tank condition was normal. Stains and marks on the primary vessel wall were caused by water inleakage. Mild surface corrosion was observed on the bottom knuckle plate of the primary vessel wall.
H	50	P-02 (A)	01/04/01	WAP / P01020:02	Tank condition was normal.
H	50	P-02 (A)	12/10/01	DP / P01270:01-25	Tank condition was normal.
H	50	P-03 (A)	01/04/01	WAP / P01020:03	Tank condition was normal.
H	50	P-03 (A)	12/19/01	WAP / P01293:01	Tank condition was normal.
H	50	P-04 (A)	01/04/01	WAP / P01020:04	Tank condition was normal.
H	50	P-04 (A)	12/19/01	WAP / P01293:02	Tank condition was normal.
H	50	P-05 (A)	01/04/01	WAP / P01020:05	Tank condition was normal.
H	50	P-05 (A)	12/19/01	WAP / P01293:04	Tank condition was normal.
H	50	P-06 (A)	01/04/01	WAP / P01020:06	Tank condition was normal.
H	50	P-06 (A)	12/19/01	WAP / P01293:05	Tank condition was normal.
H	50	P-07 (A)	01/11/01	WAP / P01020:07	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	50	P-07 (A)	12/19/01	WAP / P01293:06	Tank condition was normal.
H	50	P-08 (A)	01/04/01	WAP / P01020:08	Tank condition was normal.
H	50	P-08 (A)	12/10/01	DP / P01271:01-25	Tank condition was normal. Mild surface corrosion was observed on the primary vessel wall.
H	50	P-09 (A)	01/04/01	WAP / P01020:09	Tank condition was normal.
H	50	P-09 (A)	12/10/01	DP / P01272:01-25	Tank condition was normal. Inleakage of rainwater has reconfigured and washed away chromate stains and deposits on the primary vessel wall.
H	50	P-10 (A)	01/04/01	WAP / P01020:10	Tank condition was normal.
H	50	P-10 (A)	12/19/01	WAP / P01293:08	Tank condition was normal.
H	50	P-11 (A)	01/04/01	WAP / P01020:11	Tank condition was normal.
H	50	P-11 (A)	12/19/01	WAP / P01293:09	Tank condition was normal.
H	50	P-12 (A)	01/04/01	WAP / P01020:12	Tank condition was normal.
H	50	P-12 (A)	12/19/01	WAP / P01293:11	Tank condition was normal.
H	50	P-13 (A)	01/04/01	WAP / P01020:13	Tank condition was normal.
H	50	P-13 (A)	12/19/01	WAP / P01293:12	Tank condition was normal.
H	50	P-14 (A)	01/04/01	WAP / P01020:14	Tank condition was normal.
H	50	P-14 (A)	12/19/01	WAP / P01293:13	Tank condition was normal.
H	51	A-01 (A)	01/03/01	DP / P01013:01-25	Tank condition was normal.
H	51	A-01 (A)	12/19/01	WAP / P01295:01	Tank condition was normal.
H	51	A-02 (A)	01/03/01	DP / P01014:01-25	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	51	A-02 (A)	01/09/01	CCTV / 746	The conductivity probe was improperly deployed. It was observed on top of the annulus ventilation duct.
H	51	A-02 (A)	02/06/01	CCTV / 746	The conductivity probe was deployed at the setpoint. A plastic bag was observed on the annulus floor.
H	51	A-02 (A)	12/19/01	WAP / P01295:02	Tank condition was normal.
H	51	A-03 (A)	01/03/01	DP / P01015:21	The conductivity probe was deployed at the setpoint.
H	51	A-03 (A)	01/03/01	DP / P01015:01-25	Tank condition was normal.
H	51	A-03 (A)	01/09/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	51	A-03 (A)	12/19/01	WAP / P01295:03	Tank condition was normal. Stains and marks on the primary vessel wall have changed since last inspected due to the inleakage of rainwater.
H	51	A-04 (A)	01/03/01	DP / P01016:21	The conductivity probe was deployed at the setpoint.
H	51	A-04 (A)	01/03/01	DP / P01016:01-25	Tank condition was normal.
H	51	A-04 (A)	01/09/01	CCTV / 746	The conductivity probe was deployed at the setpoint.
H	51	A-04 (A)	12/19/01	WAP / P01295:04	Tank condition was normal.
H	51	P-01 (A)	01/03/01	WAP / P01021:01	Tank condition was normal.
H	51	P-01 (A)	12/10/01	DP / P01273:01-25	Tank condition was normal.
H	51	P-02 (A)	01/03/01	WAP / P01021:02	Tank condition was normal.
H	51	P-02 (A)	12/10/01	DP / P01274:01-25	Tank condition was normal. A masselin cloth was observed on the annulus floor.
H	51	P-03 (A)	01/03/01	WAP / P01021:03	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	51	P-03 (A)	12/19/01	WAP / P01295:05	Tank condition was normal.
H	51	P-04 (A)	01/03/01	WAP / P01021:04	Tank condition was normal.
H	51	P-04 (A)	12/19/01	WAP / P01295:06	Tank condition was normal.
H	51	P-05 (A)	01/03/01	WAP / P01021:05	Tank condition was normal.
H	51	P-05 (A)	12/19/01	WAP / P01295:07	Tank condition was normal.
H	51	P-06 (A)	01/11/01	WAP / P01021:06	Tank condition was normal.
H	51	P-06 (A)	12/19/01	WAP / P01295:08	Tank condition was normal. Stains and marks on the primary vessel wall have changed since last inspected due to the inleakage of rainwater.
H	51	P-07 (A)	01/11/01	WAP / P01021:07	Tank condition was normal.
H	51	P-07 (A)	12/19/01	WAP / P01295:09	Tank condition was normal.
H	51	P-08 (A)	01/11/01	WAP / P01021:08	Tank condition was normal.
H	51	P-08 (A)	12/10/01	DP / P01275:01-25	Tank condition was normal.
H	51	P-09 (A)	01/11/01	WAP / P01021:09	Tank condition was normal.
H	51	P-09 (A)	12/20/01	DP / P01276:01-25	Tank condition was normal. Stains and marks on the primary vessel wall have changed since last inspected due to the inleakage of rainwater.
H	51	P-10 (A)	01/11/01	WAP / P01021:10	Tank condition was normal.
H	51	P-10 (A)	12/19/01	WAP / P01295:10	Tank condition was normal.
H	51	P-11 (A)	01/11/01	WAP / P01021:11	Tank condition was normal.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	51	P-11 (A)	12/19/01	WAP / P01295:11	Tank condition was normal. Stains and marks on the primary vessel wall have changed since last inspected due to the inleakage of rainwater.
H	51	P-12 (A)	01/11/01	WAP / P01021:12	Tank condition was normal.
H	51	P-12 (A)	12/19/01	WAP / P01295:12	Tank condition was normal.
H	51	P-13 (A)	01/11/01	WAP / P01021:13	Tank condition was normal.
H	51	P-13 (A)	12/19/01	WAP / P01295:13	Tank condition was normal.
H	51	P-14 (A)	01/11/01	WAP / P01021:14	Tank condition was normal.
H	51	P-14 (A)	12/19/01	WAP / P01295:14	Tank condition was normal.
H	51	B-03 (I)	09/17/01	CCTV / 791	CCTV was used to document to conditions of the cooling guides and supports. No anomalies were observed to the coils, guides, or supports visible above the liquid level. The bottom support pins and angle bracket supports were below the liquid level and not viewable. However, all cooling coils observed were properly aligned inside the top guides. This indicates no severe failures of the bottom supports. A sample bottle was observed on the surface of the waste near the riser.
H	51	B-03 (I)	09/21/01	CCTV / 791	CCTV was used to document to conditions of the tank thermowells. Inspection revealed that the D-4 thermowell supports appear to be in good condition.
H	51	C-03 (I)	09/21/01	CCTV / 791	Inspection revealed that several of the support rods had broken away from the D-3 thermowell. The thermowell is twisted and obstructions prevented viewing all of the supports.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	51	E-01 (I)	09/17/01	CCTV / 791	CCTV was used to document to conditions of the cooling guides and supports. No anomalies were observed to the coils, guides, or supports visible above the liquid level. The bottom support pins and angle bracket supports were below the liquid level and not viewable. However, all cooling coils observed were properly aligned inside the top guides. This indicates no severe failures of the bottom supports. The D-2 thermowell had sheared near the bottom of the riser plug. The 1 inch schedule 40 SST piping is located near the B-1 slurry pump.
H	51	E-01 (I)	10/04/01	CCTV / 748 D	CCTV was used to observe the cooling coils and the D2 thermowell during operation of slurry pumps. No excessive movement of cooling coils or the D2 thermowell was observed. The D3 thermowell was not visible from this riser. The D2 thermowell was broken at the top and was held suspended by wires.
H	CTS	LDB-04	03/26/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
F	DB-02		06/07/01	CCTV / 748 B	Valve WTS-V-97 was verified open for a transfer, and closed upon completion of the transfer. The valve pin on the universal joint was broken and was protruding from the housing.
F	DB-02		06/14/01	CCTV / N/A	Inspection verified valve WTS-V-97 in the open position.
F	DB-02		06/14/01	CCTV / N/A	Inspection verified valve WTS-V-97 in the closed position.
F	DB-02		07/06/01	CCTV / N/A	Valve WTS-V-97 was verified open for leak check and transfer and then verified closed.
F	DB-02		07/27/01	CCTV / N/A	Inspection verified valve WTS-V-97 in the open position.
F	DB-02		07/30/01	CCTV / N/A	Inspection verified valve WTS-V-97 in the closed position.
F	DB-02		08/01/01	CCTV / 748 C	Inspection verified valve WTS-V-97 open then placed in the closed position.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER			REMARKS
F	DB-02		08/04/01	CCTV	/	N/A	Inspection verified valve WTS-V-97 in the open position.
F	DB-02		08/15/01	CCTV	/	N/A	Inspection verified valve WTS-V-97 in the closed position.
F	DB-02		08/16/01	CCTV	/	N/A	Inspection verified valve WTS-V-97 in the open position.
F	DB-02		08/16/01	CCTV	/	N/A	Inspection verified valve WTS-V-97 in the closed position.
F	DB-02		09/13/01	CCTV	/	N/A	Inspection verified valve WTS-V-97 in the open position.
F	DB-02	LDB-01	06/06/01	CCTV	/	747	Inspection was made to determine the position of the conductivity probe. The inspection was inconclusive.
F	DB-02	LDB-01	06/08/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
F	DB-02	LDB-01	08/01/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
F	DB-02	LDB-01	08/02/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
F	DB-02	LDB-02	06/06/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
F	DB-02	LDB-02	06/12/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
F	DB-02	LDB-02	08/01/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
F	DB-02	LDB-02	08/03/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
F	DB-02	LDB-02	08/04/01	CCTV	/	747	CCTV was used to verify conductivity probe position and assist HLWO in responding to an alarm. The probe was properly positioned and not contacting the liquid visible in the LDB. The probe was repositioned which cleared the alarm, and it remains properly positioned.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER			REMARKS
F	DB-02	LDB-02	08/04/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
F	DB-02	LDB-02	08/05/01	CCTV	/	747	The conductivity probe was deployed at the setpoint. Liquid is visible beneath the probe.
F	DB-02	LDB-02	08/07/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
F	DB-02	MLDB-01	06/05/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
F	DB-02	MLDB-08	04/30/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
F	DB-02	MLDB-08	05/31/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
H	DB-02	LDB-01	02/05/01	CCTV	/	747	The conductivity probe was deployed at the setpoint. Corrosion particles and mud were observed in the LDB.
H	DB-02	LDB-01	07/25/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
H	DB-02	MLDB-04	02/07/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
H	DB-02	MLDB-05	02/07/01	CCTV	/	747	The conductivity probe was deployed at the setpoint. An abandoned probe was observed lying on the floor.
H	DB-02	MLDB-06	02/08/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
F	DB-03		04/04/01	CCTV	/	N/A	Inspection verified valve WTS-V-153 in the closed position.
F	DB-03		04/05/01	CCTV	/	N/A	Inspection verified valve WTS-V-153 in the open position.
F	DB-03		05/16/01	CCTV	/	N/A	Inspection verified that valves WTS-V-149 and 150 in the closed position.
F	DB-03		08/19/01	CCTV	/	N/A	Inspection verified valve WTS-V-153 in the open position.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER			REMARKS
F	DB-03		08/26/01	CCTV	/	N/A	Inspection verified valve WTS-V-151 was closed and then placed in the open position.
F	DB-03		09/21/01	CCTV	/	N/A	Inspection verified valve WTS-V-153 in the closed position.
F	DB-03		09/24/01	CCTV	/	N/A	Inspection verified valve WTS-V-153 in the open position.
F	DB-03	LDB-02	08/22/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
F	DB-03	MLDB-01	04/19/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
F	DB-03	MLDB-01	09/10/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
F	DB-03	MLDB-01	10/10/01	CCTV	/	747 A	The conductivity probe was deployed at the setpoint.
F	DB-03	MLDB-02	04/24/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
F	DB-03	MLDB-02	10/10/01	CCTV	/	747 A	The conductivity probe was deployed at the setpoint.
F	DB-03	MLDB-02	12/26/01	CCTV	/	747 B	The conductivity probe was deployed at the setpoint.
F	DB-03	Sump	05/30/01	CCTV	/	748 B	Inspection documented configuration of sump and sump drain.
F	DB-03	Sump	09/27/01	CCTV	/	748 C	Inspection was made to identify a penetration line opening into the sump. Approximately 24" of the line was inspected. The origin of the line is unknown, however, it appears to be a drain line. No unusual conditions were observed.
F	DB-03	Sump	12/26/01	CCTV	/	747 B	Inspection verified that water being poured into MLDB-02 entered the sump via a side wall penetration. Inspection observed a counterweight attached to Jumper 9(FDB3)3 near wall nozzle 9.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	DB-03	Sump Riser	06/07/01	CCTV / 748 B	Inspection verified water flow from Tank 34 Valve House floor drain into FDB-03 sump.
F	DB-04		02/22/01	CCTV / N/A	Inspection documented valve WTS-V-227 in the closed position.
F	DB-04		04/04/01	CCTV / N/A	Inspection verified that valve WTS-V-228 was opened and then placed in the closed position.
F	DB-04		04/05/01	CCTV / N/A	Inspection verified valve WTS-V-228 in the open position.
F	DB-04		04/06/01	CCTV / N/A	Inspection verified valve WTS-V-228 in the open position.
F	DB-04		04/08/01	CCTV / N/A	Inspection verified valve WTS-V-228 in the closed position.
F	DB-04		04/10/01	CCTV / 747	Inspection verified valve WTS-V-228 in the open position.
F	DB-04		05/13/01	CCTV / 771	Inspection revealed that jumper {12-13D(FDB-04)16D} had a small leak at nozzle 12 during leak check. Nozzles 16D and 13D were leak free.
F	DB-04		05/14/01	CCTV / 771	Inspection revealed that jumper {12-13D(FDB-04)16D} was leaking at nozzle 12.
F	DB-04		05/15/01	CCTV / 771	CCTV was used to leak check jumper {12-13D(FDB-04)16D}. Small leaks were observed at nozzles 12 and 16D. Nozzle 13D was leak free.
F	DB-04		05/30/01	CCTV / 771	Inspection revealed a very small leak from jumper {12-13D(FDB-04)16D} below nozzle 12.
F	DB-04		05/31/01	CCTV / 771	CCTV was used to leak check nozzle 12. A wet area on the floor beneath the nozzle was larger at the end of the flush. Liquid appears to be running down the wall instead of dripping.
F	DB-04		06/01/01	CCTV / 771	Inspection revealed several drips puddling on the floor under wall nozzle #12.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	DB-04		06/02/01	CCTV / 748 B	CCTV was used to perform leak check. Wall nozzle 12 was leak free; however, floor nozzle 16D was leaking. Valve WTS-V-237 was manipulated and placed in the closed position.
F	DB-04		06/03/01	CCTV / 748 B	CCTV was used to document leak check. Wall nozzle 13 and the 16D satellite nozzle were leaking. Wall nozzle 12 was leak free. Water was entering from the flush water valve box. Valve WTS-V-228 was verified in the open position.
F	DB-04		08/10/01	CCTV / N/A	Inspection verified valve WTS-V-236 in the closed position.
F	DB-04		08/15/01	CCTV / N/A	Inspection verified valve WTS-V-236 in the closed position.
F	DB-04		08/20/01	CCTV / N/A	Inspection verified valve WTS-V-226 in the closed position.
F	DB-04		09/17/01	CCTV / N/A	Inspection verified valve WTS-V-232 in the open position.
F	DB-04		09/25/01	CCTV / N/A	Inspection verified valve WTS-V-309 in the closed position.
F	DB-04	LDB-01	05/02/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
F	DB-04	LDB-01	07/14/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
F	DB-04	LDB-02	07/14/01	CCTV / 747	The conductivity probe was deployed at the setpoint. Debris was observed on the bottom of the LDB.
F	DB-04	LDB-02	07/29/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
F	DB-04	LDB-02	07/31/01	CCTV / 747	The conductivity probe was deployed at the setpoint. Mud was observed in the bottom of the LDB under the probe.
F	DB-04	LDB-03	03/22/01	CCTV / 747	The conductivity probe was deployed at the setpoint.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	DB-04	LDB-03	05/04/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
F	DB-04	LDB-05	03/21/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
F	DB-04	LDB-13	03/30/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
F	DB-04	LDB-13	03/30/01	CCTV / 747	CCTV was used to document conditions in the LDB. Approximately three inches of liquid was observed in the LDB.
F	DB-04	LDB-13	03/31/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
F	DB-04	LDB-13	04/05/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
F	DB-04	LDB-13	05/25/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
F	DB-04	LDB-13	06/14/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
F	DB-04	LDB-13	06/29/01	CCTV / 747	The conductivity probe was improperly positioned.
F	DB-04	LDB-13	06/29/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
F	DB-04	LDB-13	07/04/01	CCTV / 747	The conductivity probe was deployed at the setpoint. Mud and debris were observed in the bottom of the LDB.
F	DB-04	LDB-13	08/15/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
F	DB-04	LDB-13	11/25/01	CCTV / 747 A	The conductivity probe was deployed at the setpoint.
F	DB-04	LDB-13	12/18/01	CCTV / 747 B	The conductivity probe was deployed at the setpoint.
F	DB-04	LDB-14	05/02/01	CCTV / 747	The conductivity probe was deployed at the setpoint.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
F	DB-04	SW	06/07/01	CCTV / 748 B	CCTV was used to leak check jumper 12-13D(FDB4)16D after regasketing. No leaks were observed on the jumper nozzles or valve block.
H	DB-04		12/13/01	CCTV / 748 H	CCTV was used to document the jumper configuration after the sump jet was replaced.
H	DB-04		12/13/01	CCTV / 748 H	CCTV was used to leak check nozzles 11 and 14. No leaks were observed.
H	DB-04	Gang Valve House	06/14/01	CCTV / 748 B	Inspection revealed that the drain line was plugged approximately 2 feet from the grate.
H	DB-04	Gang Valve House	10/20/01	CCTV / 748 D	CCTV was used to document conditions of floor drain. The floor drain walls were coated with a muddy substance. Liquid was observed approximately 3 feet from the opening.
H	DB-04	Gang Valve House	11/01/01	CCTV / 748 E	Liquid was observed approximately 3" inside the drain opening.
H	DB-04	Gang Valve House	11/20/01	CCTV / 748 F	Inspection was made to check for blockage in sump jet steam line. Approximately 16' of the line was inspected. Liquid was observed at 9' and no obstructions or unusual conditions were observed.
H	DB-04	Sump	11/02/01	CCTV / 748 G	CCTV was used to monitor sump during transfer from Tank 30 to Tank 32. No unusual conditions were observed.
H	DB-04	Sump	11/02/01	CCTV / 748 G	CCTV was used to monitor sump during transfer from Tank 30 to Tank 32. No unusual conditions were observed.
H	DB-04	Sump	11/12/01	CCTV / 748 E	CCTV was used to document conditions of the sump and piping configuration. The sump was full of liquid. No other unusual conditions were observed.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	DB-04	Sump	11/14/01	CCTV / 748 G	CCTV was used to monitor the sump as attempts were made to unplug the jet. The sump jet was back flushed and an air lift was attempted. The sump jet remains plugged.
H	DB-04	Sump	11/14/01	CCTV / 748 F	CCTV was used to document the conditions in the diversion box and monitor the emptying of the sump.
H	DB-04	Sump	11/15/01	CCTV / 748 F	CCTV was used to document the conditions in the diversion box and monitor the emptying of the sump.
H	DB-04	Sump	11/15/01	CCTV / 748 F	CCTV was used to document the conditions in the diversion box and monitor the emptying of the sump.
H	DB-04	Sump	11/15/01	CCTV / 748 G	CCTV was used to monitor sump.
H	DB-04	Sump	11/16/01	CCTV / 748 G	CCTV was used to monitor sump.
H	DB-04	Sump	11/23/01	CCTV / 748 G	CCTV was used to document the conditions in the diversion box and monitor the emptying of the sump.
H	DB-04	Sump	11/23/01	CCTV / 748 G	CCTV was used to monitor sump during transfer through diversion box.
H	DB-04	Sump	11/25/01	CCTV / 748 G	CCTV was used to monitor sump during transfer from Tank 30 to Tank 32. No unusual conditions were observed.
H	DB-04	Sump	11/26/01	CCTV / 748 G	CCTV was used to monitor sump during transfer from Tank 30 to Tank 32. No unusual conditions were observed.
H	DB-04	Sump	12/09/01	CCTV / 748 G	CCTV was used to document the conditions in the diversion box and monitor the emptying of the sump.
H	DB-06		03/27/01	CCTV / N/A	Inspection verified valve WTS-V-57 in the closed position.
H	DB-06		04/23/01	CCTV / N/A	Inspection verified valve WTS-V-57 in the closed position.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	DB-06		05/03/01	CCTV / N/A	Inspection verified valve WTS-V-57 in the closed position.
H	DB-06	LDB-01	03/06/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
H	DB-06	LDB-02	03/05/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
H	DB-06	LDB-03	03/07/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
H	DB-06	LDB-04	03/08/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
H	DB-06	LDB-05	03/08/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
H	DB-07		01/27/01	CCTV / N/A	Inspection verified valve WTS-V-163 in the closed position.
H	DB-07		10/17/01	CCTV / N/A	Inspection verified valve WTS-V-163 in the closed position.
H	DB-07		10/23/01	CCTV / N/a	Inspection verified valve WTS-V-163 in the closed position.
H	DB-07		12/10/01	CCTV / 748 H	Inspection verified valve WTS-V-163 in the closed position
H	DB-07		12/14/01	CCTV / N/A	Inspection verified valve WTS-V-165 in the closed position.
H	DB-07	LDB-01	03/23/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
H	DB-07	LDB-01	09/22/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
H	DB-07	LDB-02	04/25/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
H	DB-07	LDB-02	10/04/01	CCTV / 747 A	The conductivity probe was deployed at the setpoint.
H	DB-07	LDB-03	02/09/01	CCTV / 747	The conductivity probe was deployed at the setpoint.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER			REMARKS
H	DB-07	LDB-03	08/09/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
H	DB-07	LDB-04	11/13/01	CCTV	/	747 A	The conductivity probe was deployed at the setpoint.
H	DB-07	LDB-05	02/09/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
H	DB-07	LDB-05	08/19/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
H	DB-07	LDB-06	11/13/01	CCTV	/	747 A	The conductivity probe was deployed at the setpoint.
H	DB-07	LDB-06	11/13/01	CCTV	/	747 A	The conductivity probe was deployed at the setpoint.
H	DB-07	LDB-07	11/13/01	CCTV	/	747 A	The conductivity probe was deployed at the setpoint.
H	DB-07	LDB-08	03/23/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
H	DB-07	LDB-08	09/23/01	CCTV	/	747	The conductivity probe was deployed at the setpoint.
H	DB-07	Sump	01/03/01	CCTV	/	744	Inspection was made to document conditions of sump and determine origin of inleakage. The origin of the leak was the valve house steam condensate line.
H	DB-08		01/03/01	CCTV	/	N/A	Inspection verified valve WTS-V-198 in the closed position.
H	DB-08		01/27/01	CCTV	/	N/A	Inspection verified valve WTS-V-200 in the closed position.
H	DB-08		03/26/01	CCTV	/	N/A	Inspection verified valve WTS-V-198 in the closed position.
H	DB-08		03/27/01	CCTV	/	N/A	Inspection verified valve WTS-V-200 in the closed position.
H	DB-08		04/23/01	CCTV	/	N/A	Inspection verified valve WTS-V-200 in the closed position.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	DB-08		05/03/01	CCTV / 748	Inspection verified valve WTS-V-200 in the closed position.
H	DB-08		06/14/01	CCTV / N/A	Inspection verified valve WTS-V-198 in the closed position.
H	DB-08		08/15/01	CCTV / 748 C	Inspection verified valve WTS-V-200 in the closed position.
H	DB-08		08/18/01	CCTV / N/A	Inspection verified valve WTS-V-200 in the open position.
H	DB-08		08/18/01	CCTV / N/A	Inspection verified valve WTS-V-200 in the closed position.
H	DB-08		08/19/01	CCTV / N/A	Inspection verified valve WTS-V-200 in the open position.
H	DB-08		09/10/01	CCTV / N/A	Inspection verified operation of valves WTS-V-200 and 269.
H	DB-08		09/26/01	CCTV / N/A	Inspection verified valve WTS-V-198 in the closed position.
H	DB-08		11/17/01	CCTV / N/A	Inspection verified valve WTS-V-198 in the closed position.
H	DB-08		12/14/01	CCTV / N/A	Inspection verified valve WTS-V-198 in the closed position.
F	EVAP-16	E-03	03/01/01	CCTV / 650	Inspection revealed no accumulation of solids on the warming coils, evaporator walls, tube bundles or piping. A thin layer of fine particles was observed near the bottom of the cone.
F	EVAP-16	E-04	11/27/01	CCTV / 796	Inspection of the pot revealed no solids or deposits on the vessel side walls, bottom of the demister, tube bundle, warming coil, or other exposed surfaces. There was some loose material on top of the tube bundle, warming coil and floating on top of the liquid. The material settled on top of the coil and tube bundle as the liquid level lowered. Approximately 14" of liquid and less that 4" of loose solids remain in the pot. The vessel is essentially clean and no unusual conditions were observed.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER			REMARKS
F	EVAP-16	SE	01/24/01	CCTV	/	752	CCTV was used to document the position of the lift jumper thermocouple. The vent jumper thermocouple wire appears to be positioned near the Hanford connector. The lift jumper thermocouple was not visible.
F	EVAP-16	SE	03/11/01	CCTV	/	751	Inspection revealed that the E-04 Hanford connector was installed properly and was leak free.
F	EVAP-16	SE	10/02/01	CCTV	/	796	Inspection of evaporator cell revealed no unusual conditions. However, the inspection was not complete, and another inspection will be performed to complete the evaluation of the cell.
F	EVAP-16	SE	11/07/01	CCTV	/	796	Inspection documented the condition of the evaporator cell, pot exterior, and associated piping. No unusual conditions were observed.
F	EVAP-16	SE	12/15/01	CCTV	/	796	CCTV was used to leak check nozzle E4. No leaks were observed.
H	EVAP-16		01/03/01	CCTV	/	745	CCTV was used to assist with cutting lifting bale and jumper repositioning. The lifting bale on the condenser jumper was successfully removed. The jumper was properly positioned and tightened. All connector heads and dummies were tightened.
H	EVAP-16		02/21/01	CCTV	/	745	CCTV was used to leak check the sump jet during emptying of the sump. No leaks were observed.
H	EVAP-16		04/13/01	CCTV	/	N/A	Inspection of the lance supply line revealed no unusual conditions.
H	EVAP-16		04/24/01	CCTV	/	763	CCTV was used to document alignment of the catheter jumper. Inspection revealed that the jumper was installed backwards.
H	EVAP-16		04/30/01	CCTV	/	763	Inspection revealed nozzles N2 and E2 were leak free. The flush water connector to the diaphragm pump had a small leak that eventually stopped.
H	EVAP-16		05/12/01	CCTV	/	763	Inspection revealed that connector head 10 was leak free.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	EVAP-16		06/22/01	CCTV / 781	Inspection of the evaporator vessel supports revealed no flaking paint. There was some mild surface corrosion observed and the support collar was discolored due to the settlement of dirt when there was 2 inches of water in the cell.
H	EVAP-16		08/02/01	CCTV / 781	CCTV was used to document conditions of cell after all jumpers were reinstalled. No damage of cell covers, walls or plumbing were observed. Mercury was observed on the cell floor.
H	EVAP-16	Condenser Cell	10/07/01	CCTV / 781 C	Inspection revealed that the condenser is leaking at the top flange.
H	EVAP-16	Condenser Cell	10/08/01	CCTV / 781 C	Inspection revealed that the condenser is leaking at the bottom flange.
H	EVAP-16	Condenser Cell	10/08/01	CCTV / 781 C	Inspection revealed that the condenser is leaking at the top flange.
H	EVAP-16	Condenser Cell	10/13/01	CCTV / 781 C	Inspection of the condenser cell revealed that it continues to leak at the flange between the condenser shell and the top cover.
H	EVAP-16	Condenser Cell	12/18/01	CCTV / N/A	CCTV was used to observe leak at the condenser flange after an increase was recorded in the evaporator cell sump. Leakage is consistent with leak rate documented previously.
H	EVAP-16	E-03	04/30/01	CCTV / 767	Inspection of the pot showed no significant changes since last inspected on 10/30/00. The white salt deposits that were present in October were no longer visible, and were most likely dissolved when water was added. No indications were visible of the water level that was in the pot, and no apparent changes of deposits on the upper regions of the vessel were observed. The vessel sidewalls, thermowells, warming coils and other exposed piping remain encrusted with solids (sodium aluminosilicate).
H	EVAP-16	Lift Jumper	08/08/01	CCTV / 781	Inspection of the inlet side was incomplete. The outlet side had deposits and loose solids near the Hanford connector.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER			REMARKS
H	EVAP-16	Lift Jumper	08/08/01	CCTV	/	781	Inspection of the outlet side revealed solids and scale. The inlet side had minor scaling and loose solids present. Additional cleaning is necessary.
H	EVAP-16	Lift Jumper	08/09/01	CCTV	/	781	The outlet was free of deposits and loose solids. Only minor scaling was observed and the line is essentially clean.
H	EVAP-16	Lift Jumper	08/09/01	CCTV	/	781	Inspection of the inlet side revealed only minor scaling and that the line was essentially clean from the separator pot to the Hanford connector.
H	EVAP-16	N-3	06/20/01	CCTV	/	776	Inspection of the Tank 38 GDL performed via the catheter jumper was made as baseline inspection prior to hydro-lancing. Deposits observed at the nozzle face were covering approximately 20-30% of the line.
H	EVAP-16	N-3	06/21/01	CCTV	/	776	Inspection of the Tank 38 GDL after the first pressure washing revealed deposits on the walls of the line covering approximately 10-20% of the line.
H	EVAP-16	N-3	06/22/01	CCTV	/	N/A	Inspection of the Tank 38 GDL revealed that deposits covered approximately 15-20% of the line.
H	EVAP-16	N-3	06/25/01	CCTV	/	776	Inspection of the vertical portion of the Tank 38 GDL revealed scale and some deposits on the pipe wall.
H	EVAP-16	N-3	06/27/01	CCTV	/	776	Inspection of the vertical section of the Tank 38 GDL revealed some deposits and scale on the pipe walls. The deposits have decreased since last pressure wash, and the horizontal section appears free of deposits.
H	EVAP-16	N-3	06/27/01	CCTV	/	776	Inspection of the vertical section of the Tank 38 GDL revealed some minor scaling and some minor deposits where the GDL transitions to horizontal toward tank 38.
H	EVAP-16	NE	03/19/01	CCTV	/	758	CCTV was used to leak check nozzles N3 and N12. Nozzle N12 was leak free; however, nozzle N3 was leaking.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	EVAP-16	NE	03/22/01	CCTV / 758	CCTV was used to leak check nozzles N3 and N12 after tightening. No leaks were observed.
H	EVAP-16	NE	05/26/01	CCTV / 763	CCTV was used to observe for leaks as the pot reached the operating temperature for chemical cleaning. No leaks were observed.
H	EVAP-16	NE	08/15/01	CCTV / 781	CCTV was used to perform leak check of the Hanford connectors at nozzles N3, N3X, N10X and N10. No leaks were observed. Liquid observed on the floor was due to the flushing.
H	EVAP-16	NE	08/16/01	CCTV / 781	CCTV was used to document conditions of evaporator cell and pot exterior. No unusual conditions were observed.
H	EVAP-16	NE	10/03/01	CCTV / 781 B	Inspection of the evaporator pot and cell showed no signs of degradation. Liquid was observed dripping from the skin of the vessel.
H	EVAP-16	NE	10/03/01	CCTV / 781 B	CCTV was used to determine the origin of the wet area on the floor beneath the evaporator vessel. Liquid was observed dripping from the covering where the support leg joins the skin. The evaporator cell was flushed and during this process liquid entered the skin covering the vessel and saturated the insulation and is slowly seeping out.
H	EVAP-16	NE	10/06/01	CCTV / 781 B	Inspection of the E2 and E3 nozzles revealed no leaks. Water continues to seep through the skin of the vessel at the welds around the support leg. Liquid was observed coming from the condenser cell. The area around the N3 nozzle appears damp.
H	EVAP-16	NE	10/13/01	CCTV / 781 D	Inspection revealed no jumpers leaking; however, water continues to leak from the skin at the welds near a support leg and from the condenser cell.
H	EVAP-16	NE	10/25/01	CCTV / 781 c	Inspection documented that the exterior of the pot and floor to be dry.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	EVAP-16	NE	11/23/01	CCTV / 781 D	CCTV was used to leak check the E-02, E-03 and N-03 connector heads during startup. No leakage was observed.
H	EVAP-16	NE	11/23/01	CCTV / 781 D	CCTV was used to monitor leakage at the condenser flange during startup.
H	EVAP-16	NW	08/15/01	CCTV / 781	CCTV was used to perform leak check of the Hanford connectors at nozzles E1, N3 and N3X. No leaks were observed. Liquid observed on the floor was due to the flushing.
H	EVAP-16	Sump	05/24/01	CCTV / 763	CCTV was used to inspect nozzles for leakage during heating process. No signs of leakage were observed.
H	EVAP-16	Sump	05/26/01	CCTV / 763	CCTV was used to inspect nozzles for leakage during heating process. No signs of leakage were observed.
H	EVAP-16	Sump	10/03/01	CCTV / 781 B	CCTV was used to determine the origin of the wet area beneath the evaporator vessel. Liquid was observed dripping from the base of the evaporator. The evaporator cell was flushed and during this process liquid entered the skin covering the vessel and saturated the insulation and is slowly seeping out.
H	EVAP-16	Sump	10/03/01	CCTV / 781 B	Inspection of the evaporator pot and cell showed no signs of degradation. Plastic and other material was observed in the sump. Extraneous items were observed on the floor. A wet area was observed on the floor under the evaporator vessel.
H	EVAP-16	Sump	10/04/01	CCTV / 781 B	CCTV was used to document pH test of liquid on the cell floor. The liquid on the floor was from flush water seeping out of the vessel skin.
H	EVAP-16	SW	08/15/01	CCTV / 781	CCTV was used to leak check the E4 and N12 connector heads. No leaks were observed.
H	EVAP-16	SW	08/16/01	CCTV / 781	CCTV was used to document conditions of evaporator cell and pot exterior. No unusual conditions were observed.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER			REMARKS
H	EVAP-16	West Lift Line	06/20/01	CCTV	/	776	Inspection revealed deposits at 70 inches from the nozzle.
H	EVAP-16	West Lift Line	06/21/01	CCTV	/	776	Inspection of the lift line after the first lancing revealed no significant changes. Deposits were still observed 70 inches from the nozzle.
H	EVAP-16	West Lift Line	06/22/01	CCTV	/	N/A	Inspection of the lift line after the first lancing revealed no significant changes. Deposits were still observed 70 inches from the nozzle.
H	EVAP-16	West Lift Line	06/25/01	CCTV	/	776	Inspection revealed that about approximately 50% of the line remains plugged below 70 inches from the nozzle.
H	EVAP-16	West Lift Line	06/25/01	CCTV	/	776	Inspection of the line revealed no significant decrease in the deposits beginning 70 inches from the nozzle.
H	EVAP-16	West Lift Line	06/27/01	CCTV	/	776	Inspection revealed deposits approximately 18 inches long beginning 70 inches from the nozzle. The line appears free of deposits to approximately 2 feet from the end of the lift line.
H	EVAP-16	West Lift Line	07/13/01	CCTV	/	748 C	The deposits observed in the line had not been removed by acid cleaning. The line will be pressure washed and re-inspected.
H	EVAP-16	West Lift Line	07/14/01	CCTV	/	748 C	Inspection revealed only minor scaling on the pipe wall after pressure washing.
H	EVAP-16	West Lift Line	08/08/01	CCTV	/	781	Inspection verified that the line is essentially clean from the nozzle to the bottom of the pot.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	EVAP-16	E-03 (I)	06/07/01	CCTV / 776	Inspection revealed that approximately 90-95% of solids were removed after first acid strike. Some minor scaling is still present in the upper regions of the vessel. No deposits were observed on the thermowells, the exterior of the lift lines, the ext. of the feed line, or the exterior of the downcomer. The tube bundle has some deposits at both ends, in the middle on the support plate, and between some tubes. Significant amounts of deposits remain at the point where the cone and the side wall are wielded; however, these deposits do not form a complete ring.
H	EVAP-16	E-03 (I)	06/17/01	CCTV / 776	CCTV was used to facilitate remote sampling of the vessel. The conical regions are covered with scale. Loose solids observed on the bottom of the pot were approximately 3 to 5 inches deep.
H	EVAP-16	E-03 (I)	07/13/01	CCTV / 776	CCTV was used to document presence of solids in evaporator cone. Approximately 4 inches of loose solids which looked like coarse sand remained in the bottom of the vessel.
H	EVAP-16	E-03 (I)	07/13/01	CCTV / 776	Inspection of the vessel after the second acid cleaning revealed that the deposits on the sidewall and the ends of the tube bundle had been removed. Some of these settled on several of the tubes as loose solids. Also, small amounts of loose solids remain on the warming coils.
H	EVAP-25		02/26/01	CCTV / 759	Inspection of the vessel interior showed all visible surfaces to be free of deposits and no scaling was observed. No loose solids, color deviations or other anomalies were observed.
H	EVAP-25	6 " Port	07/25/01	CCTV / 759	Inspection revealed the evaporator pot had a thin layer of scale at the operating limit and at the beginning of the cone. No abnormalities were observed.
H	EVAP-25	GDL Cell	10/25/01	CCTV / 759 a	Inspection of the cell, cell covers and piping were normal, and no unusual conditions were observed.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	EVAP-25	NE	10/25/01	CCTV / 759 A	Inspection of the evaporator cell, vessel, jumpers and piping were normal. No unusual conditions were observed.
H	EVAP-25	S-06	12/30/01	CCTV / 759 A & B	Inspection of the pot showed all areas to be free of deposits. A thin scale was observed on the tube bundle and on some areas of the pot wall, especially near the operating level. The bottom coil supports, lance line, and bottom of the cone were not visible due to the amount of liquid in the pot.
H	EVAP-25	South Steam Lance	07/24/01	CCTV / 759	Inspection revealed that the steam lance is relatively clean. Approximately 1 inch of silt sediment was observed in the bottom of the pot. Small droplets of mercury were also observed in the bottom of the pot.
H	EVAP-25	Steam Lance	07/10/01	CCTV / 759	CCTV was used to document conditions of the lance line and evaporator cone. The lift line was free of debris up to the point where the camera entered liquid. The liquid was too thick with particulates to allow inspection.
H	EVAP-25	SW	01/13/01	CCTV / N/A	CCTV was used to leak check nozzle S-06. No leaks or unusual conditions were observed.
H	EVAP-25	SW	08/01/01	CCTV / 759	CCTV was used to leak check nozzle S-06. No leaks or unusual conditions were observed.
H	EVAP-25	SW	10/25/01	CCTV / 759 A	Inspection of the evaporator cell, vessel, jumpers and piping were normal. No unusual conditions were observed.
H	EVAP-25	SW	10/30/01	CCTV / 759 A	CCTV was used to leak check the Y-3 connector on the evaporator. No leaks were observed.
H	EVAP-25	Overhead Tank #1 (I)	06/28/01	CCTV / 784	CCTV was used to document the presence of mercury in overhead tank #1. A small quantity was observed on the bottom of the tank.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	EVAP-25	Overhead Tank# 1 (I)	10/15/01	CCTV / 784	Inspection of overhead tank revealed the sediment level was below the tank suction line.
H	EVAP-25	Overhead Tank #2 (I)	10/15/01	CCTV / 784	Inspection of the overhead tank revealed the sediment level was below the tank suction.
H	EVAP-25	Overhead Tank #2 (I)	10/22/01	CCTV / 802 B, 802 C, 802 D	Inspection of overhead tank #2 revealed minimal sediment and mercury remained after the sparge cleaning cycle was repeated several times.
F	IAL High Point		01/19/01	CCTV / 738	CCTV was used to document position of sump conductivity probes. Liquid was present in the sump which prevented verification of probe placement.
F	IAL High Point		01/20/01	CCTV / 748	CCTV was used to document conditions of sump. Approximately 1/2 inch of liquid was present in the sump. After removal and reinstallation of drain rods, the sump was free of standing liquid.
F	IAL High Point		03/21/01	CCTV / N/A	Inspection verified that no liquid was present in the sump
F	IAL High Point		10/12/01	CCTV / 748 D	CCTV was used to document conditions of sump and inspect for liquid beneath the conductivity probes in the sump. No liquid or other unusual conditions were observed. The conductivity probes were visible and were properly positioned.
F	IAL High Point		11/07/01	CCTV / 748 E	The sump conductivity probes were deployed at the setpoint.
S	Late Wash	LDB-070	10/15/01	CCTV / N/A	The conductivity probe was not visible. Mud was observed on the bottom of the LDB.
S	Late Wash	LDB-190	10/15/01	CCTV / N/A	The conductivity probe was not visible. Mud was observed on the bottom of the LDB.
S	Late Wash	LDB-190	10/17/01	CCTV / 747 A	The conductivity probe was deployed properly.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
S	Late Wash	LDB-190	10/23/01	CCTV / 747 a	The conductivity probe appears to be contacting the floor of the LDB.
H	Neutralizatio n Tank		05/15/01	CCTV / 748B	A baseline inspection was performed prior to the addition of the chemicals being added to the 2H pot to support cleaning activities. No unusual conditions were observed. Approximately 2 - 4 inches of liquid was present.
H	Neutralizatio n Tank	(I)	07/15/01	CCTV / 776	Inspection revealed solids on the service piping, baffles, vessel side walls and agitator. Liquid 3 - 6 inches on the bottom of the vessel had foam on the surface; however, no solids were observed above the liquid surface.
F	PP-01		01/28/01	CCTV / 559	CCTV was used to facilitate the remote removal and replacement of sump pump. Inspection documented that that the hydrogen vent and pump tank overflow pipe were unobstructed.
F	PP-01		05/26/01	CCTV / 748B	CCTV was used to support removal of cutting tool and verify that the pump tank overflow line and passive ventilation nozzle were free of obstructions.
F	PP-01	NE	03/28/01	CCTV / 761	CCTV was used to position new sump pump and to verify that the passive vent and overflow drain were free of obstructions.
H	PP-01	NE	12/04/01	CCTV / 748-G	CCTV was used to document condition in the pump pit. Approximately 3"-5" of liquid was observed on the floor. The sump pump, hoses, connector heads, jumpers, a pump stand wrapped in plastic and a lift unit were observed on the floor of the diversion box.
H	PP-05	LDB-05	11/08/01	CCTV / 747 A	The conductivity probe was deployed at the setpoint.
H	PP-06	LDB-07	11/06/01	CCTV / 747 A	The conductivity probe was deployed at the setpoint.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	PP-07		08/25/01	CCTV / 748 C	CCTV was used to verify operation and leak check of valves WTS-V-6953 6958. Both valves operated correctly; however, valve 6953 had approximately 1/4 the travel of valve 6958.
H	PP-07		08/26/01	CCTV / 700	CCTV was used to leak check the Hanford connector heads at wall nozzles 2 and 19 and tank nozzles 23 and 23Z. The Hanford connector head at nozzle 23Z was leaking.
H	PP-07		08/29/01	CCTV / 700	CCTV was used to verify leak check of nozzle 23. No leaks were observed.
H	PP-07		09/01/01	CCTV / 748 C	CCTV was used to verify leak check of wall nozzle 23. No leaks were observed. A brown, oily substance was observed on the agitator flange and on the oil overflow tank above the agitator.
H	PP-07		09/05/01	CCTV / 700	Inspection revealed solids covering the bottom of the pump tank and a thin film on the surface of the liquid.
H	PP-07		09/11/01	CCTV / 700	CCTV was used to document tightening of jumper 21(HPP7)22. The pump pit tank overflow line was verified to be free of obstructions.
H	PP-07		09/11/01	CCTV / 700	CCTV was used to verify leak check of wall nozzles 19, 23, and 23X, 23Y and 23Z. No leaks were observed.
H	PP-07		09/13/01	CCTV / 700	CCTV was used to verify leak check of jumpers 2(HPP7)23Z and 19(HPP7)23,23X,23Y,23Z. No leaks were observed.
H	PP-07		09/19/01	CCTV / 792	CCTV was used to document condition of overflow line from pump tank. No obstructions were observed.
H	PP-07		09/20/01	CCTV / 792	CCTV was used to leak check on valve WTS-V-49. No leaks were observed.
H	PP-07		09/20/01	CCTV / 792	CCTV was used to leak check on nozzles 19, 2, 23 and 23Z. No leaks were observed.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	PP-07	NE	11/24/01	CCTV / 748 G	CCTV was used to document the position of the conductivity probe installed in the sump. The probe was not visible. Water was added to the sump to determine the elevation of the sump conductivity probe. The conductivity probe is approximately 2.5 inches from the bottom of the standpipe.
H	PP-07	NE	11/25/01	CCTV / 748 G	CCTV was used to document the position of the conductivity probe installed in the sump after calibration of sump level transmitter. The probe was not visible. Water was added to the sump to determine the elevation of the sump conductivity probe. The conductivity probe is approximately 2.5 inches from the bottom of the standpipe.
H	PP-08		12/05/01	CCTV / 806	Inspection verified that the passive vent nozzle was free of obstructions.
H	PP-08		12/07/01	CCTV / 806	CCTV was used to leak check nozzles 5 and 20. No leaks observed.
H	PP-08	South	12/08/01	CCTV / 806	CCTV was used to verify the proper rotation of the transfer pump. The pump was rotating properly in the clockwise position.
H	PP-5&6	LDB-01	01/11/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
H	PP-5&6	LDB-02	01/12/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
H	PP-5&6	LDB-05	05/01/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
H	PP-5&6	LDB-07	04/30/01	CCTV / 747	The conductivity probe was deployed at the setpoint.
F	Storm Water Gates		03/06/01	CCTV / N/A	Inspection revealed that the storm water gate was leaking and the surface appeared to be uneven indicating that the gasket sealing surface needs to be reworked.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER			REMARKS
F	Storm Water Gates		05/30/01	CCTV	/	774	CCTV was used to document operation of storm gates and verify proper seal. No unusual conditions were observed.
F	Storm Water Gates		06/27/01	CCTV	/	748 C	CCTV was used to inspect storm water gate bottom gasket. Rock and debris was observed on inlet side of gate. Inspection documented opening and closing of gate on the inlet side.
F	SWS	3F-06	11/14/01	CCTV	/	803	Inspection documented the conditions inside the storm sewer. Condition had not changed since inspected on 12/1/97.
F	SWS	4F-11	11/27/01	CCTV	/	803	Inspection documented the conditions inside the storm sewer. Condition had not changed since inspected on 5/20/96.
F	SWS	4F-12	11/27/01	CCTV	/	803	Inspection documented the conditions inside the storm sewer. Condition had not changed since inspected on 8/5/98.
H	SWS	4H-01	11/13/01	CCTV	/	803	Inspection documented conditions and establish a baseline for future inspections. No evidence of structural damage or significant infiltration. There was, however, trash and weeds at the drain entrance and trash in the floor of the drain.
H	SWS	4H-02	11/13/01	CCTV	/	803	Inspection documented conditions and establish a baseline for future inspections. No evidence of structural damage was observed. Approximately 2" of sediment was observed in the inlet and outlet to the drain.
H	SWS	4H-04	11/13/01	CCTV	/	803	Inspection documented conditions and establish a baseline for future inspections. No evidence of structural damage or significant infiltration was observed.

AREA	TANK OR ANCILLARY	ACCESS OPENING (A OR I)	DATE	INSPECTION METHOD IDENTIFICATION NUMBER	REMARKS
H	WLE	H-02	04/23/01	CCTV / 362	Inspection revealed that the structural condition had not changed. Moisture was observed on the bottom of the cell covers, transfer lines and encasement walls. Stains and marks on the wall were caused by water inleakage. Light colored deposits were observed on the top of the encasement wall in the northeast corner. Further inspections will be performed to determine the origin of the deposits.
H	WLE	H-04	06/17/01	CCTV / 748 B	Inspection was made to investigate stains observed on wall during annual inspection. Stains and marks originate at the top of the cell and appear to be from inleakage of water.
H	WLE	H-05	04/23/01	CCTV / 362	Inspection revealed that the structural condition had not changed. Moisture was observed on the bottom of the cell covers, transfer lines and encasement walls. No unusual conditions were observed.
H	WLE	H-06	04/23/01	CCTV / 362	Inspection revealed that the structural condition had not changed. Moisture was observed on the bottom of the cell covers, transfer lines and encasement walls. No unusual conditions were observed.
H	WLE	H-07	04/23/01	CCTV / 362	Inspection revealed that the structural condition had not changed. Moisture was observed on the bottom of the cell covers, transfer lines and encasement walls.

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Distribution

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D. J. Blake, 703-H
L. T. Ling, 703-H
S. M. Aleman, 703-H

WSRC

S. F. Piccolo, 703-H
T. J. Lex, 703-H
M. D. Johnson, 703-H
V. G. Dickert, 703-H
M. S. Miller, 704-56H
S. S. Cathey, 703-H
K.A. Hauer, 241-71S
N. R.. Davis, 703-H
R. L. Salizzoni, 703-H
N. F. Chapman, 703-H
J. J. Phillips, 703-H
W. T. Davis, 707-H
W. C. Clark, 241-100F
A. J. Tisler, 241-100F
M. Loibl, 703-H
D. H. Coleman, 241-110F
T. E. Chandler, 703-H
J. B. Guillerme, 704-71S
R. B. Montgomery, 707-H
R. L. Shanks, 225-8H
R. K. Cauthen, 730-2B
D. C. Blair, 704-8H
Shift Office, 704-8H
C. R. Hayes, 703-H
P. D. d'Entremont, 703-H
N. C. Iyer, 773-A
W. L. Tamosaitis, 773-A
T. L. Ortner, 704-56H
S. A. Sanders, 210-S
G. F. Stejskal, 730-2B
G. H. Laska, 742-A
J. W. Cook, 742-A
W. R. West, 704-8H (20)
R. S. Waltz, 704-8H (20)
R. D. Robbins, 704-8H
C. J. Moore, 704-8H
J. M. Mealing, 704-8H
J. L. Doolittle, 704-8H
M. T. Lott, 704-8H
J. M. Hurt, 704-8H
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STE Office, 242-2H
STE Office, 241-82H
CSTE Inspection Records, 704-8H
H. G. Desai, 225-8H
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