

# TECHNICAL MEMORANDUM

To:	Nevada Environmental Response Trust
Cc:	Nevada Division of Environmental Protection
From:	David Bohmann and Bounkheana Chhun
Date:	April 7, 2019
Subject:	AP-5 Operation and Maintenance Summary – December 2018 and January 2019 Nevada Environmental Response Trust Site; Henderson, Nevada

At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this summary of the operation and maintenance (O&M) activities performed during December 2018 and January 2019 for the AP-5 Pond Phase III sediment mixing, Phase IVa solids washing, and decant water transfer. The system was operated and maintained in accordance with the AP-5 Pond Sediment Washing Treatment Process Operations & Maintenance Manual.

#### SUMMARY OF O&M ACTIVITIES

Tetra Tech continued operation and maintenance activities associated with the AP-5 sediment mixing and washing system in December 2018 and January 2019 to provide mixing of the AP-5 slurry to keep the sediment in suspension and facilitate extraction of ammonium perchlorate. Operation and maintenance activities associated with solids washing and decant transfer operations were also ongoing during December 2018 and January 2019

#### SOLIDS WASHING AND DECANT WATER TRANSFER

Throughout December 2018 and January 2019, routine procedures for washing the solids and transferring decant water were followed. Mixers were run periodically to wash solids while reducing mechanical wear on system components. Approximately 146,407 gallons of AP-5 wash water was decanted from the Process Tanks and transferred to the Day Tank in December 2018 and approximately 129,622 gallons of AP-5 wash water was decanted from the Process Tanks and transferred to the Day Tank in January 2019. A summary of daily AP-5 wash water volumes that were decanted from the Process Tanks and transferred to the Day Tank in December 2018 and January 2019 are provided in the attached Tables 1a and 1b. The cumulative total of AP-5 wash water volumes that were decanted from the Process Tanks and transferred to the Day Tank is presented in Table 2a. The cumulative total of Stabilized Lake Mead Water (SLMW) added to the Process Tanks for sediment washing is presented in Table 2b. Note that the SLMW flowmeter readings presented in the routine inspection forms (Attachment A) include both the volume of SLMW added to the Process Tanks for sediment washing and for dilution of AP-5 wash water during transfer (discussed below) and flushing of the lines following each batch transfer.

I

Once the AP-5 wash water has been decanted from the Process Tanks and transferred to the Day Tank, Envirogen Technologies, Inc. (ETI) transfers the water to the Receiving Tank and subsequently blends the AP-5 water with extracted groundwater for treatment by the Fluidized Bed Reactors. ETI controls and operates the transfer of the AP-5 wash water from the Day Tank to the Receiving Tank, which includes an option to dilute the AP-5 wash water with SLMW to achieve a consistent concentration at the Receiving Tank. The dilution setting is adjustable and has a default setting of 3% perchlorate. During the months of December 2018 and January 2019, ETI adjusted the dilution parameters to achieve a lower concentration in the Receiving Tank as a conservative measure to control influent concentrations to the fluidized bed reactors (FBRs). The AP-5 wash water was diluted to an average batch concentration of 2.0% in December 2018 and January 2019.

#### **Perchlorate Mass Removal Estimates**

Prior to the start of solids washing, the Process Tanks were sampled to provide an estimate of the starting mass of perchlorate in the Process Tanks. The average starting perchlorate mass estimate is provided on Tables 3 and 4. Following residual solids transfer, the Process Tanks were resampled on July 26 and July 27, 2018 to determine the mass transferred and the resulting mass in the Process Tanks. The updated perchlorate mass estimate is also provided on Tables 3 and 4.

Two methods are used to estimate subsequent perchlorate mass removal resulting from the solids washing process. Due to differing constraints associated with each method, the two methods are intended to provide a range of reasonable estimates for perchlorate mass removal. The first mass removal estimate method uses monthly grab samples from the Process Tanks to estimate the mass of perchlorate removed from each Process Tank and the remaining perchlorate mass in each tank (Table 3 and Figure 1). In December 2018, one grab sample was collected from each tank for analysis of perchlorate. In January 2019, four grab samples were collected from each tank for analysis of perchlorate. Sampling positions were established at four separate locations along the mixer bridge (5, 20, 40, and 55 feet from the sidewall). Four samples were collected in January 2019 to reduce variability from a single-point sample by averaging the four samples results. The perchlorate mass estimate for each tank in December 2018 and January 2019 as determined by the sampling method is provided on Table 3.

The second mass removal estimate method uses the average concentration of each batch of decant water transferred by ETI from the Day Tank to the Receiving Tank. The average batch concentration is estimated by an in-line mass flow meter that continuously measures fluid density and flow rate. The density is converted to perchlorate concentration based on a density-to-perchlorate concentration curve developed from laboratory analysis. An estimate of the total mass of perchlorate removed from the Process Tanks based on the mass flow meter readings is presented in Table 4. Table 4 also includes an estimate of the perchlorate mass added to the Process Tanks from May – July 2018 as part of final pond closure activities based on single-point samples from each Process Tank.

The total perchlorate mass remaining using both methods described above is presented on Figure 2. The deviations in the total mass removal using the two methods is believed to be primarily the result of the use of limited monthly grab samples from each Process Tank. The initial and subsequent comprehensive perchlorate mass estimates developed for the Process Tanks revealed significant variability in individual perchlorate sample results within each tank. Therefore, the mass estimates calculated from the single-point and four-point monthly grab samples are subject to this variability. The mass removal approach using the mass flow meter also has limitations that likely contribute in part to the observed deviation in mass estimates. The mass flow meter approach relies on a density-to-perchlorate concentration curve previously developed from laboratory analysis but does not utilize laboratory data each month. This method also does not include the mass in AP-5 wash water in the Day Tank that has been decanted from the Process Tanks but not yet processed through the mass flow meter. Therefore, the perchlorate mass removal using these two approaches, as summarized in Figure 2, is intended to provide a range of reasonable estimates for perchlorate mass removal.

#### **Ammonia Mass Removal Estimates**

The Process Tanks were sampled on November 1, 2017 to provide an estimate of the mass of ammonia in the tanks at that time. Similar to the sampling for the starting perchlorate mass estimate, the starting ammonia mass estimate incorporates data obtained from sampling of the Process Tanks. The average ammonia mass estimate as of November 1, 2017 is provided as the starting mass on Table 5. The tanks were resampled on July 26 and July 27, 2018 to determine the ammonia mass transferred during pond solids removal and the resulting mass in the Process Tanks. The updated ammonia mass estimate for each tank is shown on Table 5 and Figure 3. Single-point monthly tank grab samples were completed in December 2018 and January 2019 for estimating the mass of ammonia removed from each Process Tank and the remaining ammonia mass in each tank.

#### **Treatment Timeline**

As part of evaluating the long-term treatment approach for perchlorate and ammonia, a projected treatment timeline was developed using the estimated mass loading to the Process Tanks and expected treatment rates. This treatment timeline projection is routinely updated with operational data (flow rates and concentrations). The treatment timeline projections beyond this reporting period are also routinely updated with actual recent treatment rates as the basis for estimating future treatment rates. The estimated FBR feed rates used for projections are 2 gpm at 2% perchlorate in the summer season and 10 gpm at 2% perchlorate in the winter season. The original and updated projected treatment timelines are provided in the attached Figure 4. The updated projection remains generally consistent with the previous O&M summary report. Based on current information, solids treatment is expected to be completed in the first quarter of 2020. The projected ending date will periodically change since this is a dynamic treatment process with many variables affecting actual treatment rates and mass estimates used to project the treatment timeline.

#### **ROUTINE INSPECTIONS**

Routine inspections were conducted throughout December 2018 and January 2019. Routine inspections are intended to proactively identify potential issues or concerns with key infrastructure, identify and perform routine maintenance tasks, and confirm process equipment is ready for service. During the inspections, Tetra Tech staff visually inspected the Process Tanks, Day Tank, piping, secondary containment, and the liner system for damage and leaks; confirmed mixer operation; and recorded findings on the inspection forms. Inspections, testing, and maintenance of the dilution lines, transfer lines, and Receiving Tank are under the responsibility of ETI as of July 17, 2017. Copies of routine inspection forms are provided in Attachment A. Summaries of the primary inspection activities are included below.

## **Process Piping**

The piping within the AP-5 Process Area secondary containment area was inspected on a routine basis. AP-5 sediment wash water was decanted from the Process Tanks and transferred to the Day Tank routinely throughout the months of December 2018 and January 2019. The findings of the inspections are provided below:

- No visible damage to, or leaks from, the AP-5 process piping were observed.
- Process piping and SLMW piping were frozen on several occasions following nights where temperatures
  dropped below freezing for extended periods. All pipes were thawed and ongoing operations were not
  impacted.

## **Secondary Containment**

The AP-5 Process Area secondary containment liner was inspected by 360-degree perimeter inspections on a routine basis. The findings of the inspections are provided below:

• No damage to the secondary containment liner was observed.

 Stormwater accumulated on the secondary containment liner and in equipment pad sumps and was pumped to the Process Tanks on January 6 through January 8 and January 15 through January 17, 2019.

#### **Tanks and Equipment**

Process Tanks T-201, T-202 and T-203, and Day Tank T-204 were inspected on a routine basis in December 2018 and January 2019. The findings of the inspections are provided below:

- No visible damage to, or leaks from, Process Tanks or the Day Tank were observed.
- Precipitate on the interior sides of the Process Tanks and impeller shafts was routinely washed down in all three tanks.
- The annual service for the air compressor was completed on January 16, 2019.
- The air operated double diaphragm pump at the east sump was observed to be inoperable, and the pump was repaired on January 19, 2019 and confirmed to be in working order following the repair.

#### MONTHLY INSPECTION

The December 2018 and January 2019 monthly inspections were conducted on December 31, 2018 and January 31, 2019. Monthly inspections are conducted to provide a more thorough investigation of major equipment and parts and to confirm functionality of key control and interlock components. The monthly inspection form is provided in Attachment B. A summary of the findings is provided below:

- Spare parts for operation of the AP-5 slurry treatment system were present and stored on site.
- Air operated double diaphragm pumps were tested, and all were found to be in good working order.
- High-high level alarms for the Process Tanks and Day Tank were tested. All of the level sensors were
  observed to be functional at the time of the testing.

#### CERTIFICATION

#### AP-5 Operation and Maintenance Summary – December 2018 and January 2019

#### **Nevada Environmental Response Trust Site** (Former Tronox LLC Site) Henderson, Nevada

#### Nevada Environmental Response Trust (NERT) Representative Certification

I certify that this document and all attachments submitted to the Division were prepared at the request of, or under the direction or supervision of NERT. Based on my own involvement and/or my inquiry of the person or persons who manage the systems(s) or those directly responsible for gathering the information or preparing the document, or the immediate supervisor of such person(s), the information submitted and provided herein is, to the best of my knowledge and belief, true, accurate, and complete in all material respects.

Office of the Nevada Environmental Response Trust
Le Petomane XXVII, not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee  A Solely in the Individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee  A Solely in the Individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee
Signature: , not individually, but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee
Name: Jay A. Steinberg, not individually, but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee
Title: Solely as President and not individually
<b>Company:</b> Le Petomane XXVII, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee
Date:

#### CERTIFICATION

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been prepared in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

Description of Services Provided: Prepared AP-5 Operation and Maintenance Summary for December 2018 and January 2019.

April 7, 2019

Date

Kyle Hansen, CEM

Field Operations Manager/Geologist Tetra Tech, Inc.

Nevada CEM Certificate Number: 2167

Nevada CEM Expiration Date: September 18, 2020

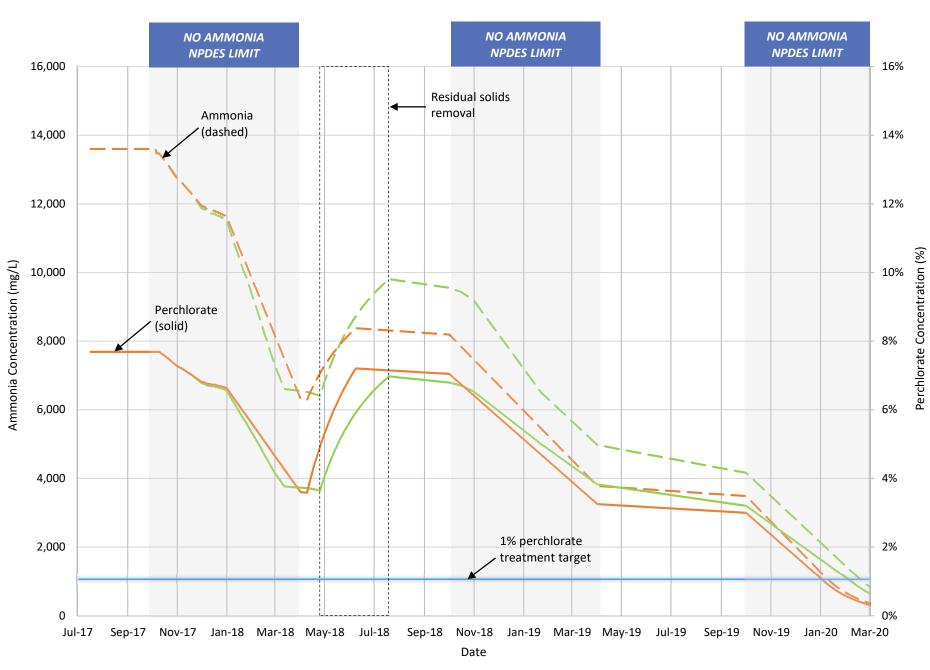
# **Figures**

Figure 1. Estimate of Perchlorate Mass Remaining in Process Tanks 400,000 Transfer of residual solids to the Process Tanks completed between 350,000 April 26, 2018 and July 19, 2018. Tracking of mass for individual Process Tanks not completed during this time. 300,000 Estimated Perchlorate Mass Remaining (lbs) 250,000 200,000 150,000 100,000 50,000 Jul-17 Aug-17 Sep-17 Oct-17 Nov-17 Dec-17 Jan-18 Feb-18 Mar-18 Apr-18 May-18 Jun-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Date \_\_\_\_T-201 \_\_\_\_\_T-202 \_\_\_\_\_T-203

Figure 2. Estimate of Total Perchlorate Mass Remaining in Process Tanks 1,000,000 Transfer of residual solids to the Process Tanks completed between 900,000 April 26, 2018 and July 19, 2018. Tracking of mass for individual Process Tanks not completed during this time. 800,000 700,000 Estimated Perchlorate Mass Remaining (lbs) 600,000 500,000 400,000 300,000 200,000 100,000 Jul-17 Aug-17 Sep-17 Oct-17 Nov-17 Dec-17 Jan-18 Feb-18 Mar-18 Apr-18 May-18 Jun-18 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Date Tank Sample Method — Mass Flow Meter Batch Data Method

Figure 3. Estimate of Ammonia Mass Remaining in Process Tanks 60,000 Transfer of residual solids to the Process Tanks completed between April 26, 2018 and July 19, 2018. Tracking of mass for individual Process 50,000 Tanks not completed during this time. Estimated Ammonia Mass Remaining (lbs) 40,000 30,000 20,000 10,000 0 Jul-18 Aug-18 Sep-18 Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Nov-17 Dec-17 Jan-18 Feb-18 Mar-18 Apr-18 May-18 Jun-18 Date T-201 T-202 T-203

Figure 4. Projected AP-5 Solids Treatment Timeframe



Notes: Orange lines depict November 2017 treatment estimates; Green lines depict current treatment estimates.

This model uses simplified assumptions regarding AP-5 decant water treatment feed rate and addition of SLMW for wash water.

## **Tables**

Table 1a. December Monthly AP-5 Wash Water Decant Records

Doto	T-201	T-202	T-203	Daily Total
Date	(Gallons)	(Gallons)	(Gallons)	(Gallons)
12/1/2018	-	-	-	-
12/2/2018	-	12,200	-	12,200
12/3/2018	-	17,480	-	17,480
12/4/2018	-	-	-	-
12/5/2018	-	-	-	-
12/6/2018	-	-	-	-
12/7/2018	-	17,895	-	17,895
12/8/2018	-	-	-	-
12/9/2018	-	-	-	-
12/10/2018	-	-	-	-
12/11/2018	-	-	-	-
12/12/2018	-	24,256	-	24,256
12/13/2018	-	-	-	-
12/14/2018	-	-	-	-
12/15/2018	-	-	-	-
12/16/2018	-	-	-	-
12/17/2018	-	23,417	-	23,417
12/18/2018	-	-	-	-
12/19/2018	-	-	-	-
12/20/2018	-	-	-	-
12/21/2018	-	-	-	-
12/22/2018	-	-	-	-
12/23/2018	-	25,241	-	25,241
12/24/2018	-	-	-	-
12/25/2018	-	-	-	-
12/26/2018	-	-	-	-
12/27/2018	-	25,918	-	25,918
12/28/2018	-	-	-	-
12/29/2018	-	-	-	-
12/30/2018	-	-	-	-
12/31/2018	-	-	-	-
Total	-	146,407	-	146,407

1 - Decant volumes presented are based on the starting and ending volumes in the Day Tank during decant operations, plus the volume that was transferred by ETI to the Receiving Tank during the time decant operations were occurring.

Table 1b. January Monthly AP-5 Wash Water Decant Records

Doto	T-201	T-202	T-203	Daily Total
Date	(Gallons)	(Gallons)	(Gallons)	(Gallons)
1/1/2019	-	-	-	-
1/2/2019	-	26,778	-	26,778
1/3/2019	-	-	-	-
1/4/2019	-	-	-	-
1/5/2019	-	-	-	-
1/6/2019	-	-	-	-
1/7/2019	-	18,862	-	18,862
1/8/2019	-	-	-	-
1/9/2019	-	-	-	-
1/10/2019	-	-	-	-
1/11/2019	-	19,383	-	19,383
1/12/2019	-	-	-	-
1/13/2019	-	-	-	-
1/14/2019	-	-	-	-
1/15/2019	-	-	-	-
1/16/2019	-	23,697	-	23,697
1/17/2019	-	-	-	-
1/18/2019	-	-	-	-
1/19/2019	-	-	-	-
1/20/2019	-	-	-	-
1/21/2019	-	-	20,036	20,036
1/22/2019	-	-	-	-
1/23/2019	-	-	-	-
1/24/2019	-	-	-	-
1/25/2019	-	-	20,866	20,866
1/26/2019	-	-	-	-
1/27/2019	-	-	-	-
1/28/2019	-	-	-	-
1/29/2019	-	-	-	-
1/30/2019	-	-	21,523	
1/31/2019	-	-	-	
Total	-	88,720	62,425	129,622

1 - Decant volumes presented are based on the starting and ending volumes in the Day Tank during decant operations, plus the volume that was transferred by ETI to the Receiving Tank during the time decant operations were occurring.

Table 2a. Cumulative AP-5 Wash Water Decant and Transfer Records

Month	T-201 (Gallons)	T-202 (Gallons)	T-203 (Gallons)	Monthly Total (Gallons)
July 2017	38,377	(Gallolis)	20,906	59,283
August 2017	8,868		9,454	18,322
September 2017	5,555	22,819	2,12	22,819
October 2017		117,200		117,200
November 2017	26,567	65,048	98,171	189,786
December 2017	88,449	43,485	71,600	203,534
January 2018	95,673	81,036	59,577	236,286
February 2018	108,564	55,620	122,012	286,196
March 2018	75,262	76,737	-	151,999
April 2018	44,177	-	27,290	71,467
May 2018	71,329	-	22,579	93,908
June 2018	49,982	-	-	49,982
July 2018	50,583	-	-	50,583
August 2018	49,377	-	-	49,377
September 2018	23,094	-	-	23,094
October 2018	96,653	-	-	96,653
November 2018	100,315	20,276	-	120,591
December 2018	-	146,407	-	146,407
January 2019	-	88,720	62,425	151,145
<b>Cumulative Total</b>	927,270	717,348	494,014	2,138,632

- 1 Stabilized Lake Mead Water (SLMW) volume added to tanks does not include the volume used to routinely wash down precipitate on the interior sides and mixer impellar shafts. The volume of wash down water is approximately 2,000 gallons per tank per month.
- 2 The volume of SLMW added to the tanks does not include stormwater that accumulates in the lined secondary containment and equipment pads that is pumped to the Process Tanks.

Table 2b. Cumulative Stabilized Lake Mead Water Volume Added for Sediment Washing

Month	T-201 (Gallons)	T-202 (Gallons)	T-203 (Gallons)	Monthly Total (Gallons) <sup>1</sup>
July 2017	22,775	(Gallolis)	6,150	28,925
August 2017	13,970		7,860	21,830
September 2017	13,370	20,010	7,000	20,010
October 2017		131,247		131,247
November 2017	27,360	65,435	75,440	168,235
December 2017	43,570	39,585	5,485	88,640
January 2018	24,135	30,685	64,205	119,025
February 2018	92,020	22,475	126,845	241,340
March 2018	81,685	79,270	-	160,955
April 2018	465	-	18,805	19,270
May 2018	825	_	390	1,215
June 2018	860	-	-	860
July 2018	480	-	-	480
August 2018	280	-	-	280
September 2018	220	-	-	220
October 2018	1,490	-	-	1,490
November 2018	220,212	310	-	220,522
December 2018	-	2,780	-	2,780
January 2019	-	96,270	950	97,220
<b>Cumulative Total</b>	530,347	488,067	306,130	1,324,544

- 1 Stabilized Lake Mead Water (SLMW) volume added to tanks does not include the volume used to routinely wash down precipitate on the interior sides and mixer impellar shafts. The volume of wash down water is approximately 2,000 gallons per tank per month.
- 2 The volume of SLMW added to the tanks does not include stormwater that accumulates in the lined secondary containment and equipment pads that is pumped to the Process Tanks.

Table 3a. Estimate of Perchlorate Mass in Process Tanks Based on Tank Samples after Initial Slurry Transfer

		Mass in T-201 (lbs)	Mass in T-202 (lbs)	Mass in T-203 (lbs)	Total Monthly Mass Removed (lbs)	Total Perchlorate Mass In Process Tanks (lbs)
Initial P	erchlorate Mass <sup>1</sup>	168,055	247,579	185,745		601,380
	July 2017 <sup>2</sup>	17,828	-	9,189	27,017	574,363
	August 2017	4,120	-	4,155	8,275	566,088
	September 2017	-	12,547	-	12,547	553,540
ved	October 2017	-	59,663	-	59,663	493,878
4pprox.Mass Removed	November 2017	10,605	32,571	40,418	83,594	410,284
s Re	December 2017	41,090	16,693	28,582	86,365	323,919
Mas	January 2018	36,195	25,360	19,639	81,195	242,724
.xo	February 2018	26,727	13,925	29,020	69,672	173,051
Арри	March 2018	12,248	12,168	-	24,415	148,636
	April 2018	6,083	-	4,441	10,524	138,112
	May 2018 <sup>3</sup>	INDIVIDUAL PI	ROCESS TANK MA	ASS CALCULATIO	NS WERE SUSPEN	DED UNTIL POND
	June 2018		SOLID	S TRANSFER COI	MPLETED.	
Ending	Perchlorate Mass					138,112

Table 3b. Estimate of Perchlorate Mass in Process Tanks Based on Tank Samples after Residual Solids Transfer

		Mass in T-201 (lbs)	Mass in T-202 (lbs)	Mass in T-203 (lbs)	Total Monthly Mass Removed (lbs)	Total Perchlorate Mass In Process Tanks (lbs)
Initial P	erchlorate Mass <sup>4</sup>	370,459	272,873	296,418		939,750
	July 2018	370,459	272,873	296,418		939,750
	August 2018⁵	23,717	-	-	23,717	916,033
	September 2018	10,889	-	-	10,889	905,144
	October 2018	46,380	-	-	46,380	858,764
	November 2018	38,510	10,660	-	49,170	809,594
	December 2018	-	72,088	-	72,088	737,507
	January 2019	-	36,002	31,779	67,781	669,726
Ending	Perchlorate Mass	250,963	154,123	264,640		669,726

- 1 The initial perchlorate mass estimate presented is based on an average of laboratory results. The 95% confidence interval for starting perchlorate mass in all three Process Tanks is 422,491 to 776,030 pounds.
- 2 The approximate mass removed for July 2017 is based on the starting concentrations in the Process Tanks. Subsequent mass removal calculations are based on both the starting (prior month) and ending (current month) perchlorate concentrations resulting from single point samples from each tank.
- 3 Individual tank mass calculations were suspended until pond closure activities were completed. Following pond closure, a more comprehensive sampling of the Process Tanks was completed to establish new mass estimates.
- 4 The perchlorate mass estimate after pond solids transfer is based on an average of laboratory results. The 95% confidence interval for the perchlorate mass in all three Process Tanks is 814,953 to 1,064,163 pounds.
- 5 Mass removal estimates on individual tanks resumed in August 2018.

Table 4. Estimate of Perchlorate Mass in Process Tanks Based on Batch Transfers

		Estimated Monthly Mass Added (lbs) <sup>3</sup>	Total Monthly Mass Removed (lbs)	Total Perchlorate Mass In Process Tanks (lbs)
Initial P	erchlorate Mass <sup>1</sup>			601,380
	July 2017 <sup>2</sup>		13,520	587,860
	August 2017 <sup>2</sup>		6,000	581,860
	September 2017		10,706	571,154
ved	October 2017		49,990	521,163
оша	November 2017		74,231	446,933
Approx.Mass Removed	December 2017		73,066	373,867
Mas	January 2018		69,363	304,504
.ox	February 2018		73,247	231,257
Арр	March 2018		25,321	205,935
`	April 2018		7,030	198,905
	May 2018 <sup>4 5</sup>	151,078	11,126	338,857
	June 2018⁵	227,250	9,337	556,770
	July 2018⁵	341,180	9,343	888,608
Perchlo	rate Mass After Por	nd Solids Removal <sup>5</sup>		939,750
	August 2018		11,710	928,040
355	September 2018		9,777	918,264
r.Mc	October 2018		35,943	882,320
Approx.Mass Removed	November 2018		61,959	820,361
	December 2018		64,395	755,966
	January 2019		57,196	698,770
Ending I	Perchlorate Mass			698,770

- 1 The initial perchlorate mass estimate presented is based on an average of laboratory results as summarized in the August 11, 2017 technical memo *AP-5 Tank Sampling Activities and Mass Estimate Summary*. The 95% confidence interval for starting perchlorate mass in all three Process Tanks is 422,491 to 776,030 pounds.
- 2 Individual batch data not available from ETI for July and August 2017. Values presented for these months are based on ETI's estimates. Subsequent monthly estimates are based on ETI records for batch volumes and average batch concentrations transferred from the Day Tank T-204 to the Receiving Tank T-205.
- 3 From May to July 2018, estimates of the perchlorate mass added as part of final AP-5 pond closure activities were developed based on single point samples from each Process Tank. Monthly mass added were estimated using a single point sample from each Process Tank and may underestimate the mass contribution from settled residual solids.
- 4 The May 2018 estimate of mass added from AP-5 Pond closure activities represents the period from April 26, 2018 through May 31, 2018
- 5 The perchlorate mass estimate after pond solids transfer is based on an average of laboratory results. The 95% confidence interval for the perchlorate mass in all three Process Tanks is 814,953 to 1,064,163 pounds.

Table 5a. Estimate of Ammonia Mass in Process Tanks after Initial Pond Transfer

Initial A	ammonia Mass <sup>1</sup>	Mass in T-201 (lbs) 18,217	Mass in T-202 (lbs) 22,343	Mass in T-203 (lbs) 20,277	•	Total Ammonia Mass In Process Tanks (lbs) 60,837
IIIItiai A	November 2017	1,323	3,979	4,490	9,792	51,045
	December 2017	3,974	1,778	2,659	8,411	42,634
p		·	-	·		•
200	January 2018	3,353	3,009	2,163	8,526	34,108
rox. emoved	February 2018	2,945	1,509	3,564	8,017	26,091
Approx. ss Remc	March 2018	1,445	1,441	-	2,886	23,206
App Mass R	April 2018	682	-	490	1,172	22,034
	May 2018 <sup>2</sup>	INDIVIDUAL PR	OCESS TANK MA	SS CALCULATION	S WERE SUSPEND	DED UNTIL POND
June 2018			SOLIDS	TRANSFER COM	PLETED.	
Ending	Ammonia Mass					22,034

Table 5b. Estimate of Ammonia Mass in Process Tanks after Residual Pond Solids Transfer

		Mass in T-201	Mass in T-202	Mass in T-203	Total Monthly Mass Removed	Total Ammonia Mass In Process
		(lbs)	(lbs)	(lbs)	(lbs)	Tanks (lbs)
Initial A	mmonia Mass <sup>3</sup>	56,496	42,023	42,335		140,854
pa	July 2018	56,496	42,023	42,335		140,854
1016	August 2018 <sup>4</sup>	3,294	-	-	3,294	137,560
Approx. Mass Removed	September 2018	1,561	-	-	1,561	135,999
	October 2018	7,340	-	-	7,340	128,659
×. ≥	November 2018	5,483	1,455	-	6,939	121,720
pro	December 2018	-	10,263	-	10,263	111,457
Ар	January 2019	-	3,998	3,699	7,697	103,760
Ending A	Ammonia Mass	38,817	26,306	38,636		103,760

- 1 The initial ammonia mass estimate presented is based on an average of laboratory results for slurry and accumulated solids samples collected on November 1, 2017. Ammonia mass estimates are not available prior to this date.
- 2 Individual tank mass calculations were suspended until pond closure activities were completed. Following pond closure, a more comprehensive sampling of the Process Tanks was completed to establish new mass estimates.
- 3 The ammonia mass estimate after pond solids transfer is based on an average of laboratory results. The 95% confidence interval for the ammonia mass in all three Process Tanks is 118,994 to 162,598 pounds.
- 4 Mass removal estimates on individual tanks resumed in August 2018.

# Attachment A Phase III O&M Routine Inspection Forms

Date: 12/1/18 Time: 0730 Inspector	Initials:	KSH
PROCESS PIPING INSPECTION		
1. Observe piping between Process Tank secondary containment and FBR	secondary co	ontainment.
Any leaks, punctures, damage, bulges visible?	Yes*	(No)
2. Observe piping in Process Tank secondary containment area.		7
Any leaks, punctures, damage, bulges visible?	Yes*	(No)
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east	of Process T	anks.
Flowmeter: 2, 915, 225 (gallons)		
SECONDARY CONTAINMENT INSPECTION		
4. Perform 360 perimeter walk to observe liner system for potential wear	and tear.	~
Any leaks, punctures, or other damage visible?	Yes	(No)
5. Is there storm water accumulation greater than 1 foot?	Yes	N
If Yes, pump storm water into one of the Process Tanks.		_
6. Is there storm water accumulation in equipment pad sumps?:	Yes	(Ne
If Yes, pump storm water into one of the process tanks.		

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	(No)	Yes*	(NO)	Yes*	Nd	Yes*	(No)
All decant valves and transfer valves locked out?**	Yes	No*	(res	No*	Res	No*	NA	NA
Are transfer pumps ready for service?	(e)	No*	Yes	No*	Ves	No*	NA	NA

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	No	Yes*	(No)	Yes*	(10)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	es	No	es	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.		No	res	No	es	No
Mixer running and turbulence/vortex observed?**		(Ng)	Yes	(No)	Yes	(No)*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature 4 9 Oil temperature	5	) °F	5	O °F	57	2°F

Date: 17/18 Time: Inspector Initials: K4H
NOTES:
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site Implementation Manager immediately if this condition is observed and active washing is not occurring.
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.
COMMENTS:
(Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)
-Mixory run intermittently to reduce wear
Operator Signature: All S. Harrs
EMERGENCY CONTACTS:

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: <u>/2/z //8′</u> Time: _	1435	Inspecto	r Initials:	25H						
PR	OCESS PIPING INSPECTION										
1.	. Observe piping between Process Tank secondary containment and FBR secondary containment.										
	Any leaks, punctures, damage,	bulges visible?		Yes*	No						
2.	Observe piping in Process Tank seco	ondary containme	ent area.		à						
	Any leaks, punctures, damage, l	bulges visible?		Yes*	(Ne						
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks.  Flowmeter: 2,930,270 (gallons)										
SEC	CONDARY CONTAINMENT INSPECTIO	ON									
4.	Perform 360 perimeter walk to obse	erve liner system	for potential wea	r and tear.							
	Any leaks, punctures, or other d	lamage visible?		Yes	(No)						
5.	Is there storm water accumulation go	Yes	No								
6.	Is there storm water accumulation i If Yes, pump storm water into o	Yes	No								
PRO	DCESS TANKS AND DAY TANK INSPE	CTION	to.								
7.	Perform 360 degree walk around of	each tank to insp	ect for damage o	r leaks and lock	out of valves:						
		T-201	T-202	T-203	T-204						

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	(NO)
All decant valves and transfer valves locked out?**	Yes	No*	res	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Ves	No*	Yes	No*	Yes	No*	NA	NA

	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	(NO)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Yes	No	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Ves	No	Ves	No	es	No
Mixer running and turbulence/vortex observed?**	Yes	(No*)	Yes	(No*)	Yes	(No.)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature <u>lo ()</u> Oil temperature	0	<i>O</i> °F	5	9 °F	5_	9 °F

Date:	Time:	Inspector Initials:
NOTES:		
	tation Manager immediate and through photographs.	ely if any of these conditions are observed and thoroughly
		shutdown of mixers and opening of decant valves. Notify Site lition is observed and active washing is not occurring.
	•	ole generators to power the mixers in the event of a power consolidating in the bottom of the Process Tanks.
COMMENTS:		
(Describe all "yes" answ	ers, any observed damag	e, any areas that could not be inspected and the reason, etc.)
		V:
Operator Signature:	1200	

#### **EMERGENCY CONTACTS:**

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 12/3/1X Time: 1250 Inspector Init	ials:	KSH
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR sec	ondary co	ontainment.
	Any leaks, punctures, damage, bulges visible?	Yes*	(No
2.	Observe piping in Process Tank secondary containment area.		
	Any leaks, punctures, damage, bulges visible?	Yes*	(No')
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of	Process Ta	anks.
	Flowmeter: $\underline{Z938,900}$ (gallons)		
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear and	l tear.	$\alpha$
	Any leaks, punctures, or other damage visible?	Yes	(No
5.	Is there storm water accumulation greater than 1 foot?	Yes	No
	If Yes, pump storm water into one of the Process Tanks.		
6.	Is there storm water accumulation in equipment pad sumps?:	Yes	6
	If Yes, pump storm water into one of the process tanks.		

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	(No)	Yes*	(No)	Yes*	6
All decant valves and transfer valves locked out?**	Res	No*	Yes	No*	(Yes)	No*	NA	NA
Are transfer pumps ready for service?	(res)	No*	Yes	No*	Yes	No*	NA	NA

		T-201		T-202		203
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	(NB)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	es	No	(es)	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.		No	res	No	(es)	No
Mixer running and turbulence/vortex observed?**		No*	Yes	No	Yes	(0)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature 53 Oil temperature		52°F		52 °F		3 °F

Date: 12/3/18 Time: Inspector Initials: KG/+
NOTES:
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site Implementation Manager immediately if this condition is observed and active washing is not occurring.
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.
COMMENTS: (Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)
- Mixers run intermittently to reduce wear
Operator Signature: Mylis. Hans
EMERGENCY CONTACTS:

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: $12/4/18$ Time: $1075$ Inspector Init	ials:	KGH
PROCESS PIPING INSPECTION		
1. Observe piping between Process Tank secondary containment and FBR sec	condary co	ontainment.
Any leaks, punctures, damage, bulges visible?	Yes*	(No <sup>1</sup> )
2. Observe piping in Process Tank secondary containment area.		
Any leaks, punctures, damage, bulges visible?	Yes*	No
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of	Process Ta	anks.
Flowmeter: 2, 945, 360 (gallons)		
SECONDARY CONTAINMENT INSPECTION		
4. Perform 360 perimeter walk to observe liner system for potential wear and	d tear.	$\sim$
Any leaks, punctures, or other damage visible?	Yes	No (No
5. Is there storm water accumulation greater than 1 foot?	Yes	(No
If Yes, pump storm water into one of the Process Tanks.		``
6. Is there storm water accumulation in equipment pad sumps?:	Yes	(Ne)
If Yes, pump storm water into one of the process tanks.		

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	(No)	Yes*	No
All decant valves and transfer valves locked out?**	Yes	No*	Xe <sub>s</sub>	No*	es	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	(Yes)	No*	res	No*	NA	NA

	T-2	201	T-202		T-203	
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	(es)	No	(Yes	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.		No	Yes	No	(es)	No
Mixer running and turbulence/vortex observed?**		(No*)	Yes	(No*)	Yes	Nox
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature 53 Oil temperature	5	/ °F	5	Z_ °F	52	°F

Date: 12/4/18	Time:	Inspector Initials: _	1241
NOTES:			
* - Notify Site Implementati document on this form and	on Manager immediately if an through photographs.	y of these conditions are o	bserved and thoroughly
	g requires occasional shutdov nmediately if this condition is		
	ize and connect portable gene p prevent solids from consolid		
COMMENTS: (Describe all "yes" answers,	any observed damage, any a	reas that could not be insp	pected and the reason, etc.)
- Mixers run in	Lermittently to re	educe wear.	
	<u></u>	- 200000	
×			
Operator Signature:	les. House		

#### **EMERGENCY CONTACTS:**

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 12/5/18 Time: 0845	Inspector Initials:	12411
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containm	ent and FBR secondary cont	ainment.
	Any leaks, punctures, damage, bulges visible?	Yes*	(No
2.	Observe piping in Process Tank secondary containment are	ea.	
	Any leaks, punctures, damage, bulges visible?	Yes*	(No
	Record reading on Stabilized Lake Mead Water (SLMW) flow Flowmeter: 2952,790 (gallons)	wmeter east of Process Tank	5.
SE	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for po	tential wear and tear.	$\sim$
	Any leaks, punctures, or other damage visible?	Yes	(No
5.	Is there storm water accumulation greater than 1 foot?  If Yes, pump storm water into one of the Process Tanks	Yes	(No)
6.	Is there storm water accumulation in equipment pad sump.  If Yes, pump storm water into one of the process tanks.		(No)
PR	OCESS TANKS AND DAY TANK INSPECTION	** V	

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	(No)	Yes*	(No)	Yes*	(No)
All decant valves and transfer valves locked out?**	Yes	No*	(es)	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	ves	No*	Yes	No*	NA	NA

	T-201		T-2	202	T-203	
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(Na)	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	(Ves)	No	(es)	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.	Yes	No	(Yes)	No	(e)	No
Mixer running and turbulence/vortex observed?**		No*	Yes	(No*)	Yes	(No)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature 46 Oil temperature	4	4 °F	41	'{ °F	4	5°F

Date: _	12/5/18	Time:	Inspe	ctor Initials:	KSH
NOTES	:				
		entation Manager immedi n and through photograph		onditions are obs	served and thoroughly
		washing requires occasiona ager immediately if this co			
		mobilize and connect port ours to prevent solids from			*
сомм	ENTS:				
(Descri	be all "yes" an	swers, any observed damo	age, any areas that co	uld not be inspe	ected and the reason, etc.)
- M	iters ru	a ruterun Hendh	to reduce	wear,	
	4-			20,000	
i i					
Operat	or Signature: _	Agle S. Hans			<i>\$</i> 7

#### **EMERGENCY CONTACTS:**

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 11/0/18 Time: 11/25/11 Inspector Ini	tials:	KIH
	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR se Any leaks, punctures, damage, bulges visible?	condary o	ontainment No
2.	Observe piping in Process Tank secondary containment area.  Any leaks, punctures, damage, bulges visible?	Yes*	(No)
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Flowmeter: 2,967,695 (gallons)	Process T	anks.
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear are Any leaks, punctures, or other damage visible?	d tear. Yes	(N)
5.	Is there storm water accumulation greater than 1 foot?  If Yes, pump storm water into one of the Process Tanks.	Yes	(No)
6.	Is there storm water accumulation in equipment pad sumps?:  If Yes, pump storm water into one of the process tanks.	Yes	Nb
PRO	OCESS TANKS AND DAY TANK INSPECTION		
7.	Perform 360 degree walk around of each tank to inspect for damage or lea	aks and lo	ck out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	(No)	Yes*	(b)
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	(Yes)	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-201		T-202		T-2	203
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Yes	No	Yes	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.		No (	Yes	No	(Yes	No
Mixer running and turbulence/vortex observed?**		(No*)	Yes	(No*)	Yes	Not
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature <u>53</u> Oil temperature	50	°F	5	/ °F	5	O °F

Date: 12/6/18 Time: Inspector Initials: KSM
NOTES:
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site Implementation Manager immediately if this condition is observed and active washing is not occurring.
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.
COMMENTS: (Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.
- Mixers run intermittantly to reduce wear.
Operator Signature: Myle S. Harris

#### **EMERGENCY CONTACTS:**

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Observe piping between Process Tank secondary containment and FBR secondary containment Any leaks, punctures, damage, bulges visible?  Observe piping in Process Tank secondary containment area.  Any leaks, punctures, damage, bulges visible?  Yes*  No  No  No  Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks.  Flowmeter: 7,775,890 (gallons)									
Date: 12/7/18 Time:	1045	Inspecto	or Initials: <u>/</u>	1911					
PROCESS PIPING INSPECTION	75								
<ol> <li>Observe piping between Process Ta</li> </ol>	ank secondary cor	ntainment and FE	R secondary con	tainment					
Any leaks, punctures, damage,	bulges visible?		Yes*	(No)					
<ol><li>Observe piping in Process Tank second</li></ol>	ondary containme	ent area.		$\sim$					
Any leaks, punctures, damage,	bulges visible?		Yes*	(No)					
			st of Process Tan	ks.					
SECONDARY CONTAINMENT INSPECTIO	ON \								
1. Perform 360 perimeter walk to obs	erve liner system	for potential wea	ar and tear.	(3)					
Any leaks, punctures, or other of	lamage visible?		Yes	(No)					
5. Is there storm water accumulation (	greater than 1 foo	ot?	(Yes)	No					
If Yes, pump storm water into o	ne of the Process	Tanks.							
<ol><li>Is there storm water accumulation i</li></ol>	n equipment pad	sumps?:	(Yes)	No					
Observe piping between Process Tank secondary containment and FBR secondary containment Any leaks, punctures, damage, bulges visible?  Observe piping in Process Tank secondary containment area. Any leaks, punctures, damage, bulges visible?  Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks. Flowmeter: 7,775,890 (gallons)  CONDARY CONTAINMENT INSPECTION  Perform 360 perimeter walk to observe liner system for potential wear and tear. Any leaks, punctures, or other damage visible?  Is there storm water accumulation greater than 1 foot? If Yes, pump storm water into one of the Process Tanks.  Is there storm water accumulation in equipment pad sumps?: Is there storm water accumulation in equipment pad sumps?:  OCESS TANKS AND DAY TANK INSPECTION  Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:									
PROCESS TANKS AND DAY TANK INSPE	CTION		100	٦ /					
7. Perform 360 degree walk around of	each tank to insp	ect for damage o	or leaks and lock	out of valves:					
PROCESS PIPING INSPECTION  1. Observe piping between Process Tank secondary containment and FBR secondary containment Any leaks, punctures, damage, bulges visible?  2. Observe piping in Process Tank secondary containment area. Any leaks, punctures, damage, bulges visible?  3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks. Flowmeter: 2,775,890 (gallons)  SECONDARY CONTAINMENT INSPECTION  3. Perform 360 perimeter walk to observe liner system for potential wear and tear. Any leaks, punctures, or other damage visible?  3. Is there storm water accumulation greater than 1 foot? If Yes, pump storm water into one of the Process Tanks.  4. Is there storm water accumulation in equipment pad sumps?:  5. Is there storm water accumulation in equipment pad sumps?:  6. Is there storm water accumulation in equipment pad sumps?:  6. Is there storm water accumulation in equipment pad sumps?:  7. No 16 Yes, pump storm water into one of the process tanks.  8. ROCESS TANKS AND DAY TANK INSPECTION  7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:  7. T-201 T-202 T-203 T-204									
Visible damage or leaks/stains?			()						

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	(No)	Yes*	(No)	Yes*	Ne
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	es	No*	NA	NA

					· , · · · · · · · · · · · · · · · · · ·	
	T-201		T-202		T-2	203
Visible oil leaks from gear box?	Yes*	(No	Yes*	(No	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Yes	No	Yes	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	Yes	No No
Mixer running and turbulence/vortex observed?**	Yes	(Vo*)	Yes	No*	Yes	(No
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature 53 Oil temperature	5	/ °F	5	O °F	5	ク °F

Date: 12/7/18 Time: Inspector Initials: K4/
NOTES:
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site Implementation Manager immediately if this condition is observed and active washing is not occurring.
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.
COMMENTS: (Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)
- Mixery run intermittently to reduce wear
Operator Signature: Myle S. Hausen
EMERGENCY CONTACTS:

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Dat	e: 12/8/18 Time: 05/0 Inspector Initi	als:	KGH
PRO	DCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR secondary	ondary o	ontainment.
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
2.	Observe piping in Process Tank secondary containment area.  Any leaks, punctures, damage, bulges visible?	Yes*	No
_			
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Flowmeter: 2,986, 655 (gallons)	rocess ?	anks.
SEC	ONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear and	tear.	<b>a</b>
	Any leaks, punctures, or other damage visible?	Yes	(No)
5.	Is there storm water accumulation greater than 1 foot?	Yes	(NB)
	If Yes, pump storm water into one of the Process Tanks.		$\overline{\mathcal{L}}$
6.	Is there storm water accumulation in equipment pad sumps?:	Yes	No
	If Yes, pump storm water into one of the process tanks.		
PRO	OCESS TANKS AND DAY TANK INSPECTION		

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	(Ng)	Yes*	Mo
All decant valves and transfer valves locked out?**	(es)	No*	(Yes	No*	(es)	No*	NA	NA
Are transfer pumps ready for service?	Ves	No*	(Yes	No*	Yes	No*	NA	NA

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	(Ng)	Yes*	(Ng)	Yes*	16
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	res	No	yes	No	(es)	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.	ves	No	Yes	No	(es)	No
Mixer running and turbulence/vortex observed?**	Yes	Mo*)	Yes	No	Yes	Nox
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature 43 Oil temperature	4.	<b>⊘</b> °F	4	7 °F	4	Ø °F

Date: 12/9/19 Time: Inspector Initials: KS/
NOTES:
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site Implementation Manager immediately if this condition is observed and active washing is not occurring.
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.
COMMENTS:
(Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)
- Mixers run intermittently to reduce wear
Operator Signature: Myle S. Haus

#### **EMERGENCY CONTACTS:**

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date:	12/9/18 Time: 1325 Inspector	Initials:	KSH
	SS PIPING INSPECTION		
1. Ob	oserve piping between Process Tank secondary containment and FBR Any leaks, punctures, damage, bulges visible?	secondary co	ontainment No
2. Ob	serve piping in Process Tank secondary containment area. Any leaks, punctures, damage, bulges visible?	Yes*	(No)
3. Re	cord reading on Stabilized Lake Mead Water (SLMW) flowmeter east Flowmeter: 2,997, 420 (gallons)	of Process T	anks.
SECON	IDARY CONTAINMENT INSPECTION		
4. Pe	rform 360 perimeter walk to observe liner system for potential wear Any leaks, punctures, or other damage visible?	and tear. Yes	(No)
5. is t	there storm water accumulation greater than 1 foot?  If Yes, pump storm water into one of the Process Tanks.	Yes	No
6. Is t	there storm water accumulation in equipment pad sumps?:  If Yes, pump storm water into one of the process tanks.	Yes	(No.)

## PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	(No)	Yes*	No
All decant valves and transfer valves locked out?**	(Yes	No*	(ve)	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	(Yes)	No*	(Yes)	No*	NA	NA

	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	No	Yes*	No	Yes*	(Na)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	les	No	(Yes	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.		No	(igs	No	(es	No
Mixer running and turbulence/vortex observed?**		Ng)	Yes	No*	Yes	Not
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperatureOOil temperature	5	9 °F	6	/ °F	5	9 °F

Date: [2/9/	[ <u>]</u> Time:		Inspector Initials:	KSH
NOTES:				
	mentation Manager imm orm and through photogr		nese conditions are ob	served and thoroughly
	t washing requires occasi nager immediately if this			decant valves. Notify Site is not occurring.
	o mobilize and connect p hours to prevent solids f			
COMMENTS: (Describe all "yes" a	nswers, any observed do	amage, any areas t	that could not be inspe	ected and the reason, etc.)
- Mixens	sup referen	wiferefly	to reduce	wear
				in .
		200 - 0000	0.800	
39		- 4-		
Operator Signature:	Hyles. 7	hul		
	1/			

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 12/10/18 Time: 1335 Inspector Initials:	KSH
PROCESS PIPING INSPECTION	12 d 21 U
Observe piping between Process Tank secondary containment and FBR secondary	any containment
Any leaks, punctures, damage, bulges visible?	
Observe piping in Process Tank secondary containment area.  Any leaks, punctures, damage, bulges visible?  Ye	s* No
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceedings on Stabilized Lake	ess Tanks.
SECONDARY CONTAINMENT INSPECTION	
4. Perform 360 perimeter walk to observe liner system for potential wear and tea	r.
Any leaks, punctures, or other damage visible? Yes	s (No)
5. Is there storm water accumulation greater than 1 foot? Yes	s No
If Yes, pump storm water into one of the Process Tanks.	
6. Is there storm water accumulation in equipment pad sumps?: Yes  If Yes, pump storm water into one of the process tanks.	s (No)
PROCESS TANKS AND DAY TANK INSPECTION	
7. Perform 360 degree walk around of each tank to inspect for damage or leaks an	d lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	Ves	No*	Yes	No*	es	No*	NA	NA
Are transfer pumps ready for service?	(Ve)	No*	Yes	No*	Yes	No*	NA	NA

	T-201 T-202		T-203			
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Yes	No	(Yes)	No No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	(Yes	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	(No*)	Yes	(No*)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature Oil temperature	نا	2 °F	6	3 °F	62	°F

Date: 12/10/18 Time: Inspector Initials: K-9/1
NOTES:
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site Implementation Manager immediately if this condition is observed and active washing is not occurring.
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.
COMMENTS: (Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)
- Myers run intermittently to reduce wear
Operator Signature: Myle S. Hansen
Operator Signature:

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Dat	te: <u>12/11/18</u> Time: <u>1000</u> Inspector Initi	als: <u> </u>	
PRO	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR sec	ondary containr	nent_
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
2.	Observe piping in Process Tank secondary containment area.		<u></u>
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Flowmeter: 3.012,350 (gallons)	Process Tanks.	
			_
4.	Perform 360 perimeter walk to observe liner system for potential wear and Any leaks, punctures, or other damage visible?	Yes	(NO
5.	Is there storm water accumulation greater than 1 foot?  If Yes, pump storm water into one of the Process Tanks.	Yes	
6.	Is there storm water accumulation in equipment pad sumps?:  If Yes, pump storm water into one of the process tanks.	Yes	(NO)
PRO	OCESS TANKS AND DAY TANK INSPECTION		

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	(No)	Yes*	Ão
All decant valves and transfer valves locked out?**	(es)	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	ves	No*	Yes	No*	Yes	No*	NA	NA

	T-2	201	T-202		T-2	203
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	res	No	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	(es)	No	(es)	No	(es)	No
Mixer running and turbulence/vortex observed?**	Yes	MO*	Yes	(No*	Yes	(Vo*)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature 53 Oil temperature		Z°F	Ĺ	2°F	51	°F

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date	e: $\frac{ Z / Z / 8 }{ Z / Z }$ Time: $\frac{ Z / Z }{ Z / Z }$	Inspector Initials:	K411
PRO	CESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containmen	it and FBR secondary	containment,
	Any leaks, punctures, damage, bulges visible?	Yes*	No
2.	Observe piping in Process Tank secondary containment area.		20
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
3. 1	Record reading on Stabilized Lake Mead Water (SLMW) flown Flowmeter: 3,624,110 (gallons)	neter east of Process	Tanks.
SECO	ONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for poter	ntial wear and tear.	
	Any leaks, punctures, or other damage visible?	Yes	(No)
5. 1	s there storm water accumulation greater than 1 foot?	Yes	No
	If Yes, pump storm water into one of the Process Tanks.		$\lambda$
6. 1	s there storm water accumulation in equipment pad sumps?: If Yes, pump storm water into one of the process tanks.	: Yes	(40)
000	CCC TABLES AND DAY TABLE INSPECTION		

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	(No)	Yes*	(NO)
All decant valves and transfer valves locked out?**	Yes	No*	(es	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	ves	No*	Yes	No*	NA	NA

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No	Yes*	(NO)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Ves	No	Yes	No	(ve)	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	Yes	No (
Mixer running and turbulence/vortex observed?**	Yes	(No*)	Yes	(No*)	Yes	(No*)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperatureOZ Oil temperature	0	∫ °F	68	°F	61	°F

Date: _	12/12/18	Time:	Inspector Initials:	KGH	
NOTES:					
		on Manager immediat through photographs.	ely if any of these conditions are ob	served and tho	roughly
			shutdown of mixers and opening of lition is observed and active washing		
		•	ble generators to power the mixers i consolidating in the bottom of the Po		a power
COMME (Describ		any observed damag	e, any areas that could not be inspe	ected and the r	eason, etc.)
- W;X	urg run fu	termittently to	reduce wear,		
	<u> </u>				
	r Signature:	S. J. Han	<u>An</u>	TI .5.	(14)

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Di	ate: <u>12/13/18</u> Time: <u>0855</u> Inspector	Initials: <u>K</u>	411
PF	' / ROCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBI	R secondary con	tainment
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
2.	Observe piping in Process Tank secondary containment area.		á
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
3.		t of Process Tan	ks.
	Flowmeter: $3031,480$ (gallons)		
SE	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear	r and tear.	
	Any leaks, punctures, or other damage visible?	Yes	(No
5.	Is there storm water accumulation greater than 1 foot?	Yes	(No)
	If Yes, pump storm water into one of the Process Tanks.		
6.	Is there storm water accumulation in equipment pad sumps?:	Yes	(No)
	If Yes, pump storm water into one of the process tanks.		
-PR	OCESS TANKS AND DAY TANK INSPECTION		
7.	Perform 360 degree walk around of each tank to inspect for damage or	r leaks and lock o	out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	(No
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Ves	No*	NA	NA
Are transfer pumps ready for service?	Ves	No*	Yes	) No*	Yes	No*	NA	NA

	T-2	201	T-202		Т-2	203
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	(M)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Yes	No	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	(Ves	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	Yes	(No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature Oil temperature	4	9 °F	50	) °F	48	} °F

Date:	12/13/1	18	Time:	<u> </u>	Inspector Initials:	K4H
NOTE	S:					
			Manager imme ough photogra		nese conditions are ob	oserved and thoroughly
					mixers and opening of ved and active washin	decant valves. Notify Site g is not occurring.
					s to power the mixers in the bottom of the P	in the event of a power Process Tanks.
COMN	IENTS:					
(Descr	ibe all "yes" a	nswers, an	y observed dar	nage, any areas (	hat could not be insp	ected and the reason, etc.)
- N	liters (v	n ju	erm: Hurt	y to redo	ce wear.	
	-001					
Operat	or Signature:	Kyl	J. Han	M	-	h

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	18
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 12/14/19 Time:	0840	_	Inspecto	r Initials		49	<u>H</u>				
PROCESS PIPING INSPECTION											
Observe piping between Process Tank secondary containment and FBR secondary containment.  Any leaks, punctures, damage, bulges visible?  Yes*  No.											
	7 m/ reals, partitions, 1 miles										
	2. Observe piping in Process Tank secondary containment area.  Any leaks, punctures, damage, bulges visible?  Yes*  No.										
3. Record reading on Stabilized Lake N	3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks.										
SECONDARY CONTAINMENT INSPECTIO	ON										
'	<ul> <li>4. Perform 360 perimeter walk to observe liner system for potential wear and tear.</li></ul>										
5. Is there storm water accumulation g	greater than 1 fo	ot?		Υ	es	No	) =				
If Yes, pump storm water into o	ne of the Proces	s Tanks.				ح					
6. Is there storm water accumulation i	in equipment pac	d sumps?	:	Υ	es	(No					
If Yes, pump storm water into o	ne of the proces	s tanks.									
PROCESS TANKS AND DAY TANK INSPE	CTION										
7. Perform 360 degree walk around of		pect for a	lamage o	or leaks a	and lock o	out of va	lves:				
	T-201	T-2	202	T-2	203	T-2	04				
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes* No	Yes*	(No	Yes*	No	Yes*	(b)				
All decant valves and transfer valves locked out?**	Yes No*	Yes	No*	Yes	No*	NA	□ NA				
Are transfer pumps ready for service?  No*  No*  No*  No*  No*  No*  NA  NA											
9 Visual inspection from top of each D	Process Tanks										
8. Visual inspection from top of each Process Tank:  T-201 T-202 T-203											
		1	10		1/3	_					

1 = 0	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	(ies)	No	Ves	No	(es)	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.	(Yes)	No	(Ye)	No	(es)	No
Mixer running and turbulence/vortex observed?**	Yes	(Vo*)	Yes	(No*)	Yes	MODE
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature 43 Oil temperature		Z°F	4	√ °F	41	°F

Date:	12/14/18	Time:	Inspector Initials:	KFH
NOTES:	•			
		on Manager immediat through photographs.	ely if any of these conditions are obs	erved and thoroughly
			shutdown of mixers and opening of d lition is observed and active washing	
		•	ble generators to power the mixers in consolidating in the bottom of the Pr	•
COMME (Describe		any observed damag	e, any areas that could not be inspe	cted and the reason, etc.)
- 1	1,xos run	ndermitten	ofly.	
8	<u> </u>			
Operator	r Signature:	Glo S. Har	M	<i>*</i>

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 12/15/18 Time: 0848	Inspector Initials:	16511
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary contains	ment and FBR secondary co	ntainment.
	Any leaks, punctures, damage, bulges visible?	Yes*	No
2.	Observe piping in Process Tank secondary containment a	rea.	
	Any leaks, punctures, damage, bulges visible?	Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) fl	owmeter east of Process Ta	nks.
	Flowmeter: 3,054, 110 (gallons)		
SE	CONDARY CONTAINMENT INSPECTION		
1.	Perform 360 perimeter walk to observe liner system for p	otential wear and tear.	

Any leaks, punctures, or other damage visible? Yes 5. Is there storm water accumulation greater than 1 foot? Yes No If Yes, pump storm water into one of the Process Tanks.

6. Is there storm water accumulation in equipment pad sumps?: Yes No If Yes, pump storm water into one of the process tanks.

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	Yes No*		Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	No	Yes*	No	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Yes	No	Yes	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.		No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature <u>48</u> Oil temperature		°F	4	> °F	45	°F

Date:	12/15/18	Tîme:	Inspector Initials:	KGIS
NOTE	S:			
		tion Manager immedia d through photographs	tely if any of these conditions are o	bserved and thoroughly
			shutdown of mixers and opening o	
			able generators to power the mixers consolidating in the bottom of the	
	MENTS: ribe all "yes" answer	s, any observed dama	ge, any areas that could not be insp	pected and the reason, etc.)
~ N	lixers sur	n putermite	rofly	
			537	
Opera	tor Signature:	gle S- Han	us_	in .
EMER	GENCY CONTACTS:	U		

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Dat	Pate: 12/16/18 Time: 1420 Inspector Initials: KS//										
PR	PROCESS PIPING INSPECTION										
1.	Observe piping between Process Tank secondary containment and FBR secondary containment     Any leaks, punctures, damage, bulges visible?     Yes*										
2.	Observe piping in Process Tank secondary containment area.  Any leaks, punctures, damage, bulges visible?  Yes*							(No			
3.	3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks.  Flowmeter: 3, 067, 710 (gallons)										
SEC	CONDARY CONTAINMENT INSPECTIO	ON									
4.	Perform 360 perimeter walk to obse Any leaks, punctures, or other of		•	for pote	ntial wea		ar. es	No			
5.	Is there storm water accumulation g	_				Υ	es	No	) )		
6.	Is there storm water accumulation in If Yes, pump storm water into o		-	•	:	Y	es	(Vo			
PRO	DCESS TANKS AND DAY TANK INSPE	CTION									
7.	Perform 360 degree walk around of	each tar	ık to insp	ect for o	iamage o	or leaks a	and lock (	out of va	lves:		
	T-201 T-202 T-203 T-204										
1	sible damage or leaks/stains? spect all welds and nozzles/valves)	Yes*	No	Yes*	No.	Yes*	No	Yes*	(0)		
All decant valves and transfer valves   No*   Yes   No*   No							NA	NA			

0	Vicual	inspection	from	ton of	aach	Drocess	Tank
ŏ.	visuai	inspection	Trom	top or	eacn	Process	Tank:

Are transfer pumps ready for

service?

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	No	Yes*	No	Yes*	(10)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	ves	No	Yes	No	(Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Ves	No	Yes	No	(Yes	No
Mixer running and turbulence/vortex observed?**	Yes	(Vo*)	Yes	(10*)	Yes	<b>No*</b>
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature Oil temperature	6	2_°F	6	4°F	a	3 °F

No\*

Yes

No\*

NA

NA

No\*

Date:	(2/16/18	Time:	Inspector In	itials:	125/1	
NOTE	S:					
		ion Manager immediately i I through photographs.	f any of these condition	ns are obs	erved and tho	roughly
		ng requires occasional shut mmediately if this condition				
		ilize and connect portable g to prevent solids from cons				a power
COMN	ΛENTS:					
(Descr	ibe all "yes" answers	s, any observed damage, a	ny areas that could not	t be inspe	cted and the r	eason, etc.)
_ /	Mixes run	intermittently	to reduce	wee	V	
						0.750
Operat	tor Signature:	Sled Haus			13	

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 12/11/18 Time: 0845 Inspector Initi	als:	K411
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR sec	ondary c	ontainment
	Any leaks, punctures, damage, bulges visible?	Yes*	No
2.	Observe piping in Process Tank secondary containment area.		
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of B	rocess T	anks.
	Flowmeter: $3,073,980$ (gallons)		
SEG	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear and	tear.	$\sim$
	Any leaks, punctures, or other damage visible?	Yes	(No
5.	Is there storm water accumulation greater than 1 foot?	Yes	(No)
	If Yes, pump storm water into one of the Process Tanks.		<i>a</i>
6.	Is there storm water accumulation in equipment pad sumps?:	Yes	(No)
	If Yes, pump storm water into one of the process tanks.		

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	(es)	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	es	No*	(Yes)	No*	Ves	No*	NA	NA

	T-201		T-202		T-2	203
Visible oil leaks from gear box?	Yes*	No	Yes*	(No)	Yes*	(Ne)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Ves	No	(Yes)	No	(es	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.		No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	(Yes)	No*	Yes	(No*)	(es)	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature / Oil temperature	4	8°F	4	9 °F	4	Î °F

Date:	12/17	1/18	Time:	Inspector I	nitials:	KIH	
NOTE	S:						
			Manager immediately if rough photographs.	any of these condition	ons are o	bserved and t	horoughly
			equires occasional shutd ediately if this condition				
			and connect portable ge revent solids from consc				
COMN	/IENTS:						
(Desci	ibe all "yes	s" answers, ai	ny observed damage, an	y areas that could no	ot be insp	pected and the	e reason, etc.)
7-	702 1	Vitur o	ff during d.	ecant			
				75.5 e2			
, es			t.				
Opera	tor Signatu	re:	les Ha	use		ä	
EMERO	SENCY CON	ITACTS:	J				
Tiala			Manag	Dhara A			

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Dat	e: 12/18/18 Time: 07/0	Inspector Initials:	K5H
PR	DCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containme	ent and FBR secondary co	ntainment.
	Any leaks, punctures, damage, bulges visible?	Yes*	No
2.	Observe piping in Process Tank secondary containment are	a.	~
	Any leaks, punctures, damage, bulges visible?	Yes*	(No
	Record reading on Stabilized Lake Mead Water (SLMW) flow Flowmeter: 3,08,710 (gallons)  ONDARY CONTAINMENT INSPECTION	wmeter east of Process Ta	anks.
		tantial was and task	
4.	Perform 360 perimeter walk to observe liner system for pot Any leaks, punctures, or other damage visible?	Yes	(No)
5.	Is there storm water accumulation greater than 1 foot?	Yes	No
	If Yes, pump storm water into one of the Process Tanks.		
6.	Is there storm water accumulation in equipment pad sumps  If Yes, pump storm water into one of the process tanks.		(Ng)

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-2	201	T-2	202	T-2	203	T-2	204
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	(No	Yes*	No	Yes*	No	Yes*	Q₩.
All decant valves and transfer valves locked out?**	Yes	No*	Yes	°No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-2	201	T-202		T-2	203
Visible oil leaks from gear box?	Yes*	No	Yes*	No	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Yes	No	Yes	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.	Yes	(No.	Xes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperatureOil temperature	4	32°F	4	∠ °F	યુ	°F

Date: 12/18/19 Time: Inspector Initials: KSA
NOTES:
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site Implementation Manager immediately if this condition is observed and active washing is not occurring.
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.
COMMENTS:  (Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)
- Mixers run intermittently to reduce ween
Operator Signature:

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

0044

Date:	1/3		· '	nspecto	i illiciais.	•	1 1 . (		
PROCESS PIPING INSPECTION									
<ol> <li>Observe piping between Process Ta Any leaks, punctures, damage,</li> </ol>		*	ntainmen	t and FB		dary cont	ainment		
Observe piping in Process Tank secondary containment area.									
,	leaks, punctures, damage, bulges visible?  Yes*  No								
3. Record reading on Stabilized Lake N Flowmeter: 3,096,5				neter ea	st of Pro	cess Tani	ks.		
SECONDARY CONTAINMENT INSPECTIO	ON								
4. Perform 360 perimeter walk to obse	erve line	r system	for poter	ntial wea	er and te	ar.	/		
Any leaks, punctures, or other o						es	No		
5. Is there storm water accumulation (	greater t	han 1 fo	ot?		Y	es	No		
If Yes, pump storm water into o	ne of the	e Process	Tanks.						
6. Is there storm water accumulation i	n equipr	nent pac	l sumps?:	:	Y	es	(No	)	
If Yes, pump storm water into o	ne of the	e process	tanks.						
PROCESS TANKS AND DAY TANK INSPE	CTION								
7. Perform 360 degree walk around of	each tar	nk to insi	ect for d	lamage o	or leaks a	ind lock o	out of va	lves:	
		201	T-2	V -	1	203		204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	(N)	
All decant valves and transfer valves locked out?**	Yes	No*	(Yes)	No*	Yes	No*	NA	NA	
Are transfer pumps ready for service?	Ves	No*	Yes	No*	Yes	No*	NA	NA	
8. Visual inspection from top of each P	rocess T	ank:							
		- 11	T-2			202		203	
Visible oil leaks from gear box?			Yes*	(No)	Yes*	(No)	Yes*	(No)	
Has routine wash down of precipitate/	crystals o	on tank	(Yes)	No	Ves	No	Ves	No	

No

No\*

Yeş

Yes

(Yes)

Yes

No

No\*

Yes

Yes

sides and mixer impeller been completed?

Mixer off as part of sediment washing process?

If Yes, draw an "X" through answers to next question.

No

No\*)

1664

Date: 12/19/18	Time:	Inspector Initials:	KGH
NOTES:			
	tation Manager immediately and through photographs.	y if any of these conditions are ob	served and thoroughly
		utdown of mixers and opening of ion is observed and active washing	
		e generators to power the mixers nsolidating in the bottom of the P	
COMMENTS:			
(Describe all "yes" answ	ers, any observed damage,	any areas that could not be insp	ected and the reason, etc.)
-Mixers - un	interm. Hently.		
	7.55		
37			
Operator Signature:	The S. Ha	usu	

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	y,
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 12/20/18 Time:	Inspecto	r Initials:		K51	<u>4 :                                    </u>								
PROCESS PIPING INSPECTION													
1. Observe piping between Process Ta	nk secor	ndary cor	ntainmer	nt and FB	R second	lary cont	tainment	t.					
Any leaks, punctures, damage,	bulges vi	sible?			Υ	es*	No	<u>)</u>					
2. Observe piping in Process Tank secondary containment area.													
Any leaks, punctures, damage, bulges visible? Yes*													
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks.													
Flowmeter: 3, 104, 05	Flowmeter: 3, 104, 050 (gallons)												
σ,		•	,										
SECONDARY CONTAINMENT INSPECTIO	ON												
4. Perform 360 perimeter walk to obse	erve line	r system	for pote	ntial wea	ar and te	ar.	7						
Any leaks, punctures, or other d	lamage v	/isible?			Y	Yes No							
5. Is there storm water accumulation g	greater t	han 1 foo	ot?		Yes No			5)					
If Yes, pump storm water into o	ne of the	e Process	Tanks.				<u>ب</u>						
6. Is there storm water accumulation i	n equipr	nent pad	sumps?	:	Yes (No			,)					
If Yes, pump storm water into o	ne of the	e process	tanks.										
PROCESS TANKS AND DAY TANK INSPE	CTION												
·								,					
7. Perform 360 degree walk around of	each tar	ik to insp	pect for c	lamage o	or leaks a	nd lock (	out of va	ives:					
	T-2	201	T-2	202	T-2	:03	T-2	204					
Visible damage or leaks/stains?	No	Yes*	(o)	Yes*	(NA)								
(inspect all welds and nozzles/valves)	Yes*	(No	Yes*		** 1/2								
All decant valves and transfer valves locked out?**	Yes	No*	(Yes)	No*	Yes	No*	NA	NA					

Q	Vicual	inspection	from to	n of each	Process	Tank:
ο.	visuai	Inspection	TLOTH FO	o oi eacii	Process	Tank.

locked out?\*\*

service?

Are transfer pumps ready for

	T-2	201	T-202		T-203	
Visible oil leaks from gear box?	Yes*	No	Yes*	(No)	Yes*	(NO)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	(Pe)	No	Ves	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	(es)	No	(Yes	No	(e)	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	(No*)	Yes	No
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature 44 Oil temperature	4	5 °F	4	i °F	4	₽ °F

No\*

(es)

Yes

ves

No\*

NA

NA

No\*

Date: 12/20/18	Time:	Inspector Initials:	K91-1
NOTES:			
* - Notify Site Implementation document on this form and the		if any of these conditions are of	bserved and thoroughly
		utdown of mixers and opening of on is observed and active washir	
	•	generators to power the mixers solidating in the bottom of the l	•
COMMENTS: (Describe all "yes" answers, a	ny observed damage,	any areas that could not be insp	nected and the reason, etc.)
· Mixur run inter	mittently		
<u>e</u> :	/	T	Θ
Operator Signature:	gli S. Hann	A	
<b>EMERGENCY CONTACTS:</b>			

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Dat	te: 12/21//3 Time: 0330 Ins	spector Initials:	KGH
	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment a Any leaks, punctures, damage, bulges visible?	and FBR secondary o	containment.
2.	Observe piping in Process Tank secondary containment area.  Any leaks, punctures, damage, bulges visible?	Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmer Flowmeter: 3, 111, 456 (gallons)	ter east of Process	Tanks.
SEC	ONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potenti	ial wear and tear.	
	Any leaks, punctures, or other damage visible?	Yes	(No)
5.	Is there storm water accumulation greater than 1 foot?  If Yes, pump storm water into one of the Process Tanks.	Yes	No
6.	Is there storm water accumulation in equipment pad sumps?:  If Yes, pump storm water into one of the process tanks.	Yes	No

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-2	T-202		T-203		204
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	(NB)
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	(res)	No*	Yes	No*	NA	NA

or visconnopoetton from top or each frocass failt.						
		T-201		T-202		203
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	yes	No	es	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.		No	Yes	No	es	No
Mixer running and turbulence/vortex observed?**		(No*)	Yes	(No*)	Yes	(No
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature Oil temperature	4	5 °F	4	ה °F	40	) °F

Date: 17/21/18 Time: Inspec	ctor Initials:	RSFI
NOTES:		
* - Notify Site Implementation Manager immediately if any of these co- document on this form and through photographs.	nditions are obse	erved and thoroughly
** - Active sediment washing requires occasional shutdown of mixers a Implementation Manager immediately if this condition is observed and		
Initiate procedures to mobilize and connect portable generators to pow loss greater than six hours to prevent solids from consolidating in the b		
COMMENTS: (Describe all "yes" answers, any observed damage, any areas that cou	uld not be inspec	ted and the reason, etc.)
- Mixers run intermittently to reduce	weer	
Operator Signature: 18 S. House		8
EMERGENCY CONTACTS:		

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date	e: 12/22/16 Time: 1245 Inspector Initi	als: <i>[</i> 4	25 H
PRO	CESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR sec	ondary contai	nment.
	Any leaks, punctures, damage, bulges visible?	Yes*	NO)
2. (	Observe piping in Process Tank secondary containment area.		
	Any leaks, punctures, damage, bulges visible?	Yes*	No
3. 1	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Flowmeter: 3, 1 ス (6, フ 9 の	Process Tanks	
SECC	ONDARY CONTAINMENT INSPECTION		
4. F	Perform 360 perimeter walk to observe liner system for potential wear and	tear.	0
	Any leaks, punctures, or other damage visible?	Yes	No
5. I	s there storm water accumulation greater than 1 foot?  If Yes, pump storm water into one of the Process Tanks.	Yes	No
6. I	s there storm water accumulation in equipment pad sumps?:  If Yes, pump storm water into one of the process tanks.	Yes	(Ng)
PRO	CESS TANKS AND DAY TANK INSPECTION		

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	(Ye)s	No*	Ves	No*	Ves	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	YES	No*	Ves	No*	NA	NA

	T-2	T-201		T-202		203
Visible oil leaks from gear box?	Yes*	(No	Yes*	No	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	(es)	No	ves	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.	ves	No	Yes	No	YES	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	Yes	(No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature 5 5 Oil temperature	6	°F	6	2 °F	6	2°F

Date: 12/22/13 Time: Inspector Initials: KSII	
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.	
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Si Implementation Manager immediately if this condition is observed and active washing is not occurring.	ite
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.	
COMMENTS: (Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, e	tc.)
- Mixes our intermittently	_
	_
Operator Signature: Wyle S. Warren	

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 12/23/18 Time: 09 40 Inspector Initials:	KGH
PR	OCESS PIPING INSPECTION	
1.	Observe piping between Process Tank secondary containment and FBR secondary	/ containment.
	Any leaks, punctures, damage, bulges visible? Yes*	(No)
2.	Observe piping in Process Tank secondary containment area.	6
	Any leaks, punctures, damage, bulges visible? Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process	s Tanks.
	Flowmeter: 3/34,040 (gallons)	
SEC	CONDARY CONTAINMENT INSPECTION	
4.	Perform 360 perimeter walk to observe liner system for potential wear and tear.	
	Any leaks, punctures, or other damage visible?	No
5.	Is there storm water accumulation greater than 1 foot? Yes	No
	If Yes, pump storm water into one of the Process Tanks.	

#### PROCESS TANKS AND DAY TANK INSPECTION

6. Is there storm water accumulation in equipment pad sumps?:

If Yes, pump storm water into one of the process tanks.

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

Yes

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Yes	No	Wes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	No ×	Yes	No	es	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature Oil temperature	5	O °F	5	1 °F	5	0 °F

Date:	12/23/18	Time:	Inspector Initials:	RSH
NOTES	S:			
	tify Site Implementat nent on this form and		ediately if any of these conditions are ob phs.	served and thoroughly
			onal shutdown of mixers and opening of condition is observed and active washing	
			ortable generators to power the mixers om consolidating in the bottom of the P	
	NENTS: ibe all "yes" answers	, any observed da	mage, any areas that could not be insp	ected and the reason, etc.)
- N	riture off	to red	vel wear	
	tor Signature:	Myl S.	Hausen	*
Tielo		Name	Dhone # Commu	

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 12/24/18 Time: 0870 Inspector Initia	als: K	911
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR secondary leaks, punctures, damage, bulges visible?	ondary contai Yes*	nment.
2.	Observe piping in Process Tank secondary containment area.  Any leaks, punctures, damage, bulges visible?	Yes*	Ng
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of P Flowmeter: 3,141,480 (gallons)	rocess Tanks.	
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear and	tear.	1
	Any leaks, punctures, or other damage visible?	Yes	No
5.	Is there storm water accumulation greater than 1 foot?  If Yes, pump storm water into one of the Process Tanks.	Yes	No
6.	Is there storm water accumulation in equipment pad sumps?:  If Yes, pump storm water into one of the process tanks.	Yes	(Nd)

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	6
All decant valves and transfer valves locked out?**	es	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

			to the same of the			
	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	No	Yes*	(No)	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Yes	No	Yes	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.		No (	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature 45 Oil temperature	48	} °F	4	7 °F	4	7 °F

Date:	12/24/18	Time:	Inspector Initials: _	<u> </u>
NOTE	S:			
			y of these conditions are o	bserved and thoroughly
COMN	ΛENTS:			
(Desci	NOTES:  - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly ocument on this form and through photographs.  * - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site implementation Manager immediately if this condition is observed and active washing is not occurring. In the procedures to mobilize and connect portable generators to power the mixers in the event of a power iss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.  **OMMENTS:  Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)  **Mitter Con Ymbraille La Calva was			
- N	Mixtury run 77	whently	La reclue u	ua
Opera	tor Signature:	gle S. Hause		95

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 12/25/18 Time: 0608 Inspector Ini	tials:	KSV.
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR secondary leaks, punctures, damage, bulges visible?	condary co Yes*	ntainment.
2.	Observe piping in Process Tank secondary containment area.  Any leaks, punctures, damage, bulges visible?	Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Flowmeter: 3150,380 (gallons)	Process Ta	inks.
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear ar	ıd tear.	21
	Any leaks, punctures, or other damage visible?	Yes	(No)
5.	Is there storm water accumulation greater than 1 foot?  If Yes, pump storm water into one of the Process Tanks.	Yes	No
6.	Is there storm water accumulation in equipment pad sumps?:  If Yes, pump storm water into one of the process tanks.	Yes	No
PRO	DCESS TANKS AND DAY TANK INSPECTION		

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	(No
All decant valves and transfer valves locked out?**	Yes	No*	es	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	es	No*	NA	NA

	T-2	T-201 T-2		202	T-2	203
Visible oil leaks from gear box?	Yes*	(No	Yes*	No	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Yes	No	Tes	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.		No	Ves	No	Yes	No
Mixer running and turbulence/vortex observed?**		No*	Yes	No*	Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature 56 Oil temperature	5	Ø °F	5	5°F	5	5°F

Date: _	12/25/18	Time:		nspector Initials:	129 H	
NOTES:						
				ese conditions are	observed and tho	roughly
						a power
	NOTES:  1 - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.  12 - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site implementation Manager immediately if this condition is observed and active washing is not occurring. Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.  COMMENTS:  Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.  - Mixey run i where it each to reduce wear.	eason, etc.)				
- M	ixers run i	ntermitten	ofly to	reduce	wear	
Operato	r Signature:	ples Her	ww			×

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 12/24/18 Time: 0902 Inspector Initi	ials: K	54
PROCESS PIPING INSPECTION		
1. Observe piping between Process Tank secondary containment and FBR sec	ondary contain	ment.
Any leaks, punctures, damage, bulges visible?	Yes*	(No)
2. Observe piping in Process Tank secondary containment area.		
Any leaks, punctures, damage, bulges visible?	Yes*	(No)
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of	Process Tanks.	
Flowmeter: 3,163,710 (gallons)		
SECONDARY CONTAINMENT INSPECTION		
4. Perform 360 perimeter walk to observe liner system for potential wear and	d tear.	-
Any leaks, punctures, or other damage visible?	Yes	No
5. Is there storm water accumulation greater than 1 foot?	Yes	(No)
If Yes, pump storm water into one of the Process Tanks.		
6. Is there storm water accumulation in equipment pad sumps?:	Yes	No
If Yes, pump storm water into one of the process tanks.		

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	(No	Yes*	No	Yes*	(No	Yes*	440
All decant valves and transfer valves locked out?**	Yes	No*	(es)	No*	(Yes)	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Ves	No*	NA	NA

or visual improvious from top or cools i decoration.	,					
	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	No	Yes*	(No	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Yes	No	(res)	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	(Yés)	No	Yés	No	(Yes	No
Mixer running and turbulence/vortex observed?**	Yes	No	Yes	No*	Yes	No
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature 51 Oil temperature	51	) °F	4	q °F	40	ĵ °F.

Date: _	12/24/18	Time:	Inspector Initials:	KSA
NOTES	:			
	ify Site Implementati ent on this form and		iately if any of these conditions are obs	served and thoroughly
			al shutdown of mixers and opening of a ndition is observed and active washing	
			table generators to power the mixers in consolidating in the bottom of the Pr	
COMM (Descri		any observed damo	age, any areas that could not be inspe	ected and the reason, etc.)
- Mi	ters run }	utermittently	to reduce wear	15
20 10				
į.				
Operato	or Signature:	le S. Hans	<u> </u>	

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date:	12/27/18	Time:	1419	Inspector Initia	1s: <u>K</u>	1.4H
PROCESS	PIPING INSPECTION					
1. Obse	rve piping between P	rocess Tan	k secondary contair	nment and FBR seco	ndary contai	nment.
,	Any leaks, punctures, o	lamage, bu	ulges visible?		Yes*	(No)
2. Obse	rve piping in Process	Г <mark>ank seco</mark> r	ndary containment a	area.		<i>a</i> >
1	any leaks, punctures, o	lamage, bı	ulges visible?		Yes*	(No)
3. Reco	rd reading on Stabilize	ed Lake Me	ead Water (SLMW) i	flowmeter east of Pr	ocess Tanks.	
F	lowmeter: <u>3, 17</u>	9, 87	(gallons)			
SECOND	ARY CONTAINMENT I	NSPECTION	N			
4. Perfo	rm 360 perimeter wa	lk to obser	ve liner system for	potential wear and t	ear.	$\sim$
A	ny leaks, punctures, c	r other da	mage visible?		Yes	(Nb)
5. Is the	re storm water accun	nulation gr	eater than 1 foot?		Yes	(No)
ŀ	Yes, pump storm wat	er into on	e of the Process Tar	nks.		
6. Is the	re storm water accum	iulation in	equipment pad sur	nps?:	Yes	and
li	Yes, pump storm wat	er into on	e of the process tan	ıks.		

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	(No)	Yes*	(No)	Yes*	(S)
All decant valves and transfer valves locked out?**	(Ye)	No*	Yes	No*	(es)	No*	NA	NA
Are transfer pumps ready for service?	(Pe)s	No*	(Ve):	No*	(Yes)	No*	NA	NA

·	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	No)	Yes*	(No)	Yes*	(6)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	(ves)	No	es	No	(es)	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.		No	Res	No	(es	No
Mixer running and turbulence/vortex observed?**		(No <sup>+</sup> )	Yes	Nox	Yes	(No*)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperatureOil temperature	5	<i>()</i> °F	4.	7 °F	49	°F

Date: $12/27/18$ Time: Inspector Initials: $45/4$
NOTES:
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site Implementation Manager immediately if this condition is observed and active washing is not occurring.
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.
COMMENTS: (Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)
- Mixers off to reduce wear, run intermittently
Operator Signature: Hyle & Hause
EMERGENCY CONTACTS:

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Dat	e: 17/28/18 Time:	095	50		Inspector Initials:			KSH	
PRO	DCESS PIPING INSPECTION								
1.	Observe piping between Process Ta	ank secor	ndary cor	ntainmer	nt and FB	R secon	dary conf	tainment	<u>.</u>
	Any leaks, punctures, damage,	bulges vi	sible?			Υ	es*	(Ne	9)
2.	Observe piping in Process Tank sec	ondary c	ontainme	ent area.				2	$\overline{}$
	Any leaks, punctures, damage,	bulges vi	sible?			Υ	es*	(No	9)
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks.									
	Flowmeter: 3/86,	350	(gallon	s)					
SEC	ONDARY CONTAINMENT INSPECTION	אכ							
4.	Perform 360 perimeter walk to obs	erve line	r system	for pote	ntial wea	ar and te	ar.		9
	Any leaks, punctures, or other o	damage v	isible?			Υ	es	No	
5.	Is there storm water accumulation	greater t	han 1 foo	ot?		Υ	es	No	
	If Yes, pump storm water into o	ne of the	Process	Tanks.					7
6.	Is there storm water accumulation	in equipn	nent pad	sumps?	:	Y	es	No	
	If Yes, pump storm water into o	ne of the	process	tanks.					
PRC	CESS TANKS AND DAY TANK INSPE	CTION							
7.	Perform 360 degree walk around of	each tar	nk to insp	ect for o	lamage o	or leaks a	ind lock (	out of va	lves:
		T-2	201	T-2	202	T-2	203	T-2	204
i	ible damage or leaks/stains? spect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	N
	decant valves and transfer valves ked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA

0	Microsl	inspection	from ton	ofeach	Drocece	Tank
a.	visuai	Inspection	rrom too	or eacn	Process	Tank:

Are transfer pumps ready for

service?

	T-2	T-201		T-202		203
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	(1)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Yes	No	Yes	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	es	No
Mixer running and turbulence/vortex observed?**	Yes	(No*)	Yes	No*	Yes	(No*)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature 45 Oil temperature	4:	∠ °F	4	3 °F	4	3 °F

No\*

No\*

No\*

NA

NA

Date: 12/28/18 Time: Inspector Initials:
NOTES:
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site Implementation Manager immediately if this condition is observed and active washing is not occurring.
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.
COMMENTS: (Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)
- Mixes run intermittently to reduce wear.
Operator Signature: Myld Hanne

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 12/29/19 Time: 1140 Inspector Initials:	KGH
PROCESS PIPING INSPECTION	
Observe piping between Process Tank secondary containment and FBR secondary  Application and the secondary containment and the secondary c	containment.
Any leaks, punctures, damage, bulges visible? Yes*  2. Observe piping in Process Tank secondary containment area.	(No)
Any leaks, punctures, damage, bulges visible?  Yes*	(No)
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process	Tanks.
Flowmeter: 3,194,890 (gallons)	
SECONDARY CONTAINMENT INSPECTION	
4. Perform 360 perimeter walk to observe liner system for potential wear and tear.	<i>@</i> 3
Any leaks, punctures, or other damage visible? Yes	(No)
5. Is there storm water accumulation greater than 1 foot? Yes	(No
If Yes, pump storm water into one of the Process Tanks.	
6. Is there storm water accumulation in equipment pad sumps?: Yes  If Yes, pump storm water into one of the process tanks.	(No)
PROCESS TANKS AND DAY TANK INSPECTION	

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	(No)	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	fes	No*	NA	NA
Are transfer pumps ready for service?	Ve	No*	Ves	No*	Yes	No*	NA	NA

	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Yes	No	Yes	No No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.		No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	(No*)	Yes	(No*)	Yes	(No*)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperatureO Oil temperature	4	4 °F	4	3 °F	45	∫ °F

KUS PHASE III O&IVI KUUTIIVE IINSPECTION FORIVI
Date: 12/29/18 Time: Inspector Initials:
NOTES:
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site Implementation Manager immediately if this condition is observed and active washing is not occurring.
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.
COMMENTS:
(Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)
- Mixers run intermittently to reduce when - Power outeige from 5 - 9 april unknown cause tripped breakers @ MCC.
- Power outeige from 5 - 9 agm. Unknown Cause tripped
breakers @ MCC.
Operator Signature: 12 St. Hause

## **EMERGENCY CONTACTS:**

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 12/30/18 Time: 08/5 Inspector Initi	als: <u>K</u>	1.511
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR sec	ondary conta	inment.
	Any leaks, punctures, damage, bulges visible?	Yes*	No
2.	Observe piping in Process Tank secondary containment area.		
	Any leaks, punctures, damage, bulges visible?	Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of F	rocess Tanks	i
	Flowmeter: 3201440 (gallons)		
SE	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear and	tear.	
	Any leaks, punctures, or other damage visible?	Yes	No
5.	Is there storm water accumulation greater than 1 foot?	Yes	No
	If Yes, pump storm water into one of the Process Tanks.		_
6.	Is there storm water accumulation in equipment pad sumps?:	Yes	No
	If Yes, pump storm water into one of the process tanks.		_
PR	OCESS TANKS AND DAY TANK INSPECTION		

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-2	202	T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	Ne
All decant valves and transfer valves locked out?**	Ves	No*	Ves	No*	(es)	No*	NA	NA
Are transfer pumps ready for service?	Ves	No*	Yes	No*	Yes	No*	NA	NA

	T-2	201	T-2	202	T-2	.03
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	(NO)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	(es)	No	Yes	No	(es)	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	(res)	No	es	No		No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	NO)	Yes	(Vo*)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperatureOil temperature	3	9 °F	41	2 °F	39	°F

Date: 12/30/18 Time:	Inspector Initials:
NOTES:	
* - Notify Site Implementation Manager immediately if any of t document on this form and through photographs.	hese conditions are observed and thoroughly
** - Active sediment washing requires occasional shutdown of a large lar	
Initiate procedures to mobilize and connect portable generator loss greater than six hours to prevent solids from consolidating	
COMMENTS: (Describe all "yes" answers, any observed damage, any areas	that could not be inspected and the reason, etc.)
- Mixers run intermittently to r	edvec wear
Operator Signature: Lyle A. Hausen EMERGENCY CONTACTS:	

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 12/3	1/18	Time:	0831	_ Inspe	ector Initials:	KGH
PROCESS PIPING	•					
1. Observe pipi	ng between P	rocess Tan	k secondary co	ntainment and	d FBR secondary	containment.
Any leak	s, punctures, o	damage, bu	ılges visible?		Yes*	No
2. Observe pipi	ng in Process	Tank secon	dary containm	ent area.		6
Any leak	s, punctures, o	damage, bu	ılges visible?		Yes*	No
	_	_	ad Water (SLM	•	r east of Proces	s Tanks.
SECONDARY CO	NTAINMENT I	NSPECTION	N			
4. Perform 360	perimeter wa	lk to obser	ve liner system	for potential	wear and tear.	
Any leak	s, punctures, c	or other da	mage visible?		Yes	(No)
5. Is there store	n water accun	nulation gr	eater than 1 fo	ot?	Yes	No
If Yes, pu	imp storm wa	ter into on	e of the Proces	s Tanks.		
6. Is there storr	n water accun	nulation in	equipment pad	d sumps?:	Yes	(Nø
If Yes, pu	ımp storm wai	ter into on	e of the proces	s tanks.		

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	(NS)
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

o. Visual hispection from top of cucin frocess funk.						
	T-2	201	T-2	T-202		203
Visible oil leaks from gear box?	Yes*	No	Yes*	(No)	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Ves	No	Yes	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.		No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**		No*	Yes	No*	Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature 4 Oil temperature	了	€  °F	3	7°F	7	9 °F

Date: 12/31/18 Time: Inspector Initials:
NOTES:
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site Implementation Manager immediately if this condition is observed and active washing is not occurring.
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.
COMMENTS:
(Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)
- Mixers for jutermittently to recluse wear.
Operator Signature: Hyle J. Hausun

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 1/1/2019 Time:	0300	Inspecto	Initials:	X4H			
PROCESS PIPING INSPECTION							
1. Observe piping between Process Ta	nk secondary co	ntainment and FB	R secondary con	tainment			
Any leaks, punctures, damage,	bulges visible?		Yes*	(No )			
2. Observe piping in Process Tank second	ondary containme	ent area.					
Any leaks, punctures, damage, l	bulges visible?		Yes*	(No			
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks.  Flowmeter: 3, 218, 420 (gallons)							
SECONDARY CONTAINMENT INSPECTIO	ON						
4. Perform 360 perimeter walk to obse	erve liner system	for potential wea	r and tear.				
Any leaks, punctures, or other d	lamage visible?		Yes	No			
5. Is there storm water accumulation g	greater than 1 foo	ot?	Yes	No			
If Yes, pump storm water into o	ne of the Process	Tanks.		<u> </u>			
6. Is there storm water accumulation i	n equipment pac	! sumps?:	Yes	(No)			
If Yes, pump storm water into o	ne of the process	tanks.					
PROCESS TANKS AND DAY TANK INSPECTION							
7. Perform 360 degree walk around of	each tank to insp	pect for damage o	r leaks and lock	out of valves:			
	T-201	T-202	T-203	T-204			

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	(No)	Yes*	(g)
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-2	201	T-2	202	T-2	203 ~
Visible oil leaks from gear box?	Yes*	No	Yes*	(No)	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Ves	No	ves	No	Yes	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	(No*)	Yes	(LOW)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature 7,4 Oil temperature	3	°F		7 °F	Z	∂°F

Date:	1/1/19	<u>9                                    </u>	ne:	Ir	spector Initials:	K41	<u></u>
NOTES	5:						
		mentation Mana rm and through	ager immediately photographs.	if any of thes	e conditions are	observed and	thoroughly
			es occasional shut ely if this conditio				
			connect portable g nt solids from cons				
	1ENTS: ibe all "yes" a	nswers, any ob	served damage, a	nny areas tha	t could not be in	spected and to	he reason, etc.)
	Mixur	run pu	Ler m. He	ifty o	e reduce	were	
	or Signature:	0	1. Han	4		Ţ	

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 1/2/19 Time:	1519	Inspecto	or Initials:	KGI			
PROCESS PIPING INSPECTION							
1. Observe piping between Process Ta	ank secondary co	ntainment and F	BR secondary con	tainment			
Any leaks, punctures, damage,	bulges visible?		Yes*	No	9		
2. Observe piping in Process Tank second	ondary containm	ent area.			7		
Any leaks, punctures, damage,	bulges visible?		Yes*	No	)		
3. Record reading on Stabilized Lake N	Aead Water (SLM	IW) flowmeter ea	ast of Process Tan	ks.			
Flowmeter: 3,236, 8	50 (gallon	s)					
SECONDARY CONTAINMENT INSPECTION	ON						
4. Perform 360 perimeter walk to obs	erve liner system	for potential we	ar and tear.				
Any leaks, punctures, or other of	?aldisiv agamat		Yes	No			
5. Is there storm water accumulation	greater than 1 fo	ot?	Yes	No	o) =		
If Yes, pump storm water into o	ne of the Proces	s Tanks.		>	<b>*</b>		
6. Is there storm water accumulation	in equipment pac	d sumps?:	Yes	(No	)		
If Yes, pump storm water into o	ne of the proces	s tanks.					
PROCESS TANKS AND DAY TANK INSPE	CTION						
7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:							
	T-201	T-202	T-203	T-2	.04		
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes* No	Yes* No	Yes* (Ng)	Yes*	CHO		
All decant valves and transfer valves locked out?**	Yes No*	ves No*	Yes No*	NA	NA		

8.	Visual	inspection	from tor	of each	<b>Process</b>	Tank:
----	--------	------------	----------	---------	----------------	-------

Are transfer pumps ready for

service?

	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	No	Yes*	NA	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Yes	No	(Yes)	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	V <sub>B</sub> s	No
Mixer running and turbulence/vortex observed?**		No*	Yes	(No	Yes	(No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature 49 Oil temperature	3	7 °F	3	g °F	36	°F

No\*

No\*

Yes

No\*

NA

NA

Date: 1/2/19 Time:	Inspector Initials: KSA	<u>k-1</u>
NOTES:		
* - Notify Site Implementation Manager immediately if any o document on this form and through photographs.	f these conditions are observed and t	:horoughly
** - Active sediment washing requires occasional shutdown of Implementation Manager immediately if this condition is obs		
Initiate procedures to mobilize and connect portable generat loss greater than six hours to prevent solids from consolidation		
COMMENTS:		
(Describe all "yes" answers, any observed damage, any area	s that could not be inspected and th	e reason, etc.)
- Penwe ree from SLMW In	24	<b>V</b>
- Penove ree from SLMW in	to rules wear.	
PATRICE CONTROL CONTRO		
4		
Operator Signature: The States Service		
EIMERGENCT CONTACTS:		

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Dat	te: 1/3/18 Time: 1450 Inspector Initial	s: <u>K</u> G	H
PR	DCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR secondary leaks, punctures, damage, bulges visible?	ndary contain Yes*	ment No
2.	Observe piping in Process Tank secondary containment area.  Any leaks, punctures, damage, bulges visible?	Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Pro- Flowmeter: 3,246,170 (gallons)	ocess Tanks.	
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear and to Any leaks, punctures, or other damage visible?	ear. Yes	No
5.	Is there storm water accumulation greater than 1 foot?  If Yes, pump storm water into one of the Process Tanks.	Yes	No
6.	Is there storm water accumulation in equipment pad sumps?:  If Yes, pump storm water into one of the process tanks.	Yes	(Ng)
PRC	DCESS TANKS AND DAY TANK INSPECTION		

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	) Yes*	6
All decant valves and transfer valves locked out?**	Yes	No*	es	No*	Pes	) No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	es	No*	Yes	) No*	NA	NA

	T-2	201	T-2	202	T-2	203 2
Visible oil leaks from gear box?	Yes*	No	Yes*	(No)	Yes*	160
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	(es)	No	Yes	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.		No	res	No	es	25
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No	Yes	(lo*)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature 53 Oil temperature	46	) °F	4	7 °F	4	9 °F

Date:	3/19	Time:	Inspect	or Initials:	<u>K</u> 4H
NOTES:	*				
	te Implementation N in this form and thro		ely if any of these cond	ditions are obse	rved and thoroughly
** - Active s Implementa	ediment washing re tion Manager imme	quires occasional s diately if this condi	hutdown of mixers an	d opening of de active washing is	cant valves. Notify Site not occurring.
Initiate proc loss greater	edures to mobilize a than six hours to pr	and connect portab event solids from c	le generators to powe onsolidating in the bo	er the mixers in the troop of the Property	the event of a power cess Tanks.
COMMENTS (Describe al		y observed damage	e, any areas that coul	d not be inspect	ed and the reason, etc.)
Rem	ound ice f	From SL	Mw lives		
· Mix	ery run	intermi	Hently Lo	reduce	wey
	contacts:	1. S. Hen	usur_		74
Title		Name	Phone #	Comments	

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 1/4/19 Time: 09/// Inspector Initials:	KGH
PROCESS PIPING INSPECTION	·
Observe piping between Process Tank secondary containment and FBR second	lany containment
	es* No
2. Observe piping in Process Tank secondary containment area.	
Any leaks, punctures, damage, bulges visible?	es* No
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Pro- Flowmeter: 3, 250, 730 (gallons)	cess Tanks.
SECONDARY CONTAINMENT INSPECTION	
4. Perform 360 perimeter walk to observe liner system for potential wear and te	ar.
Any leaks, punctures, or other damage visible?	es (No)
5. Is there storm water accumulation greater than 1 foot?	es (No)
If Yes, pump storm water into one of the Process Tanks.	
o. Is there storm that a document of the story of the sto	es (Na
If Yes, pump storm water into one of the process tanks.	
PROCESS TANKS AND DAY TANK INSPECTION	

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	(Ng)	Yes*	(1)
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	(Yes)	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	No	Yes*	(No)	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Ves	No	Yes	No	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	(No	Yes	(NO)*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature 38 Oil temperature	3	, 5°F	3	√°F	3	→ °F

Date: 1/4/19 Time: Inspector Initials: K-9/1
NOTES:
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site Implementation Manager immediately if this condition is observed and active washing is not occurring.
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.
COMMENTS:
(Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)
- Removed jee From SIMW lines
- Mixley con intermettently to reclaim wear
Operator Signature: Myle S. Herrs

### **EMERGENCY CONTACTS:**

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 1/5 / 19 Time: _	1145	Inspector I	nitials:	K4	H					
PROCESS PIPING INSPECTION				1,						
1. Observe piping between Process Ta	nk secondary contai	nment and FBR	secondary co	ntainment						
Any leaks, punctures, damage, i	oulges visible?		Yes*	No	•					
2. Observe piping in Process Tank seco	ondary containment	area.			١.					
Any leaks, punctures, damage, l	oulges visible?		Yes*	(No	<u> </u>					
		flowmeter east	of Process Ta	nks.						
SECONDARY CONTAINMENT INSPECTIO	ON									
4. Perform 360 perimeter walk to obse	erve liner system for	potential wear	and tear.	_						
Any leaks, punctures, or other d	amage visible?		Yes	(No	$\mathfrak{P}$					
5. Is there storm water accumulation g	reater than 1 foot?		Yes	(No	)					
If Yes, pump storm water into o	ne of the Process Ta	nks.		_	_					
6. Is there storm water accumulation i	n equipment pad su	mps?:	Yes	No	7					
If Yes, pump storm water into o	ne of the process tar	nks.								
PROCESS TANKS AND DAY TANK INSPE	CTION									
7. Perform 360 degree walk around of	each tank to inspect	for damage or	leaks and lock	out of va	lves:					
PROCESS PIPING INSPECTION  1. Observe piping between Process Tank secondary containment and FBR secondary containment.  Any leaks, punctures, damage, bulges visible?  2. Observe piping in Process Tank secondary containment area.  Any leaks, punctures, damage, bulges visible?  3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks.  Flowmeter: 3,261,500 (gallons)  SECONDARY CONTAINMENT INSPECTION  4. Perform 360 perimeter walk to observe liner system for potential wear and tear.  Any leaks, punctures, or other damage visible?  Yes  If Yes, pump storm water into one of the Process Tanks.  6. Is there storm water accumulation in equipment pad sumps?:  Yes  If Yes, pump storm water into one of the process tanks.  PROCESS TANKS AND DAY TANK INSPECTION										
Visible damage or leaks/stains?	(0	100		. =						

	T-2	201	T-2	202	T-2	203	T-2	204
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	(No)	Yes*	No	Yes*	(No)	Yes*	(v)
All decant valves and transfer valves locked out?**	Ves	No*	Yes	No*	es	No*	NA	NA
Are transfer pumps ready for service?	Ves	No*	Ves	No*	Yes	No*	NA	NA

·	T-201 T-202		T-203			
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Yes	No	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Kes	No	(Ves)	No	(FBS	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No	Yes	(No
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperatureOil temperature	46	₽°F	40	l °F	4	∕ °F

Date: _	1/5/19	Time:		nspector Initia	ls:	K411	
NOTES	•						
		itation Manager immediate and through photographs.	ely if any of the	se conditions a	ire observi	ed and thorougl	hly
		shing requires occasional s er immediately if this condi					fy Site
		obilize and connect portab ers to prevent solids from co					ver
COMM (Descri		vers, any observed damage	e, any areas the	at could not be	: inspected	d and the reaso	n, etc.)
- M	ixus ru	i jutermitten	My Les	reduce	Wear		
					= 3		
	or Signature:	Kyl S. Han	du	-		Ē	VA ,

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Dat	e: $1/6/19$ Time: $0200$ Inspector Initials:	KaH
PRO	DCESS PIPING INSPECTION	
1.	Observe piping between Process Tank secondary containment and FBR secondary	ary containment.
	Any leaks, punctures, damage, bulges visible?	s* (Na)
2.	Observe piping in Process Tank secondary containment area.  Any leaks, punctures, damage, bulges visible?  Ye.	s* No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Proceed Flowmeter: 3, 273, 050 (gallons)	ess Tanks.
SEC	ONDARY CONTAINMENT INSPECTION	
4.	Perform 360 perimeter walk to observe liner system for potential wear and teal Any leaks, punctures, or other damage visible? Yes	
5.	Is there storm water accumulation greater than 1 foot?  If Yes, pump storm water into one of the Process Tanks.	No No
6.	Is there storm water accumulation in equipment pad sumps?:  If Yes, pump storm water into one of the process tanks.	No (" calu

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	₩6
All decant valves and transfer valves locked out?**	Yes	No*	es	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	es	No*	Ves	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	(N)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Ves	No	Nes	No	Yes	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.	es	No	Yes	No	Mes	No
Mixer running and turbulence/vortex observed?**		MO*)	Yes	(No*	Yes	(No*)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperatureOil temperature	4	5°F	41	( °F	4	°F

Date: 1/6/19 Time: Inspector Initials: K4H
NOTES:
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site Implementation Manager immediately if this condition is observed and active washing is not occurring.
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.
COMMENTS:
Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)  - Pumping rain water from sumps & secondary containmuit  - Mixers run intermittently to recluse wear.
- Mixery POU intermittently to recluse wear.
Operator Signature: Kylend Harrsm

#### **EMERGENCY CONTACTS:**

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 1/7/19 Time: 12.15 Inspector Initials:	KSH	
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR secondary Any leaks, punctures, damage, bulges visible? Yes*	containment.	
2.	Observe piping in Process Tank secondary containment area.  Any leaks, punctures, damage, bulges visible?  Yes*	(lo)	
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Flowmeter: 3 281, 130 (gallons)	Tanks.	
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear and tear.  Any leaks, punctures, or other damage visible?  Yes	(No	
5.	Is there storm water accumulation greater than 1 foot?  If Yes, pump storm water into one of the Process Tanks.	No	pumping
6.	Is there storm water accumulation in equipment pad sumps?:  If Yes, pump storm water into one of the process tanks.	No	Borman Rod

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

· · · · · · · · · · · · · · · · · · ·	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	Ves	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	(Yes	No*	Yes	No*	NA	NA

· · · · ·	T-2	201	T-202		T-2	203
Visible oil leaks from gear box?	Yes*	No	Yes*	(No)	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	ves	No	Tes	No	es	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Ves	No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	(lo*)	Yes	(No+)	Yes	(No)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature 55 Oil temperature	5	U °F	4	9 °F	5	O °F

Date: _	1/7/19	Time:	Insp	ector Initials:	K4H
NOTES	:				
		ion Manager immediate through photographs.	ely if any of these c	onditions are obs	erved and thoroughly
		ng requires occasional s mmediately if this condi			ecant valves. Notify Site is not occurring.
	=	lize and connect portab o prevent solids from c			•
COMM	ENTS:				
(Descril	be all "yes" answers	, any observed damage	e, any areas that co	ould not be inspe	cted and the reason, etc.)
- Mi	serg run ru	term. Hently	to reduce	wear,	
			200		
	·				
Operato	or Signature: <u></u>	bl Hanse			

### **EMERGENCY CONTACTS:**

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 1/8/19 Time: 1/30 Inspector Initials: 1/4	2 H
PROCESS PIPING INSPECTION	
Observe piping between Process Tank secondary containment and FBR secondary containment     Any leaks, punctures, damage, bulges visible? Yes*	ent.
2. Observe piping in Process Tank secondary containment area.  Any leaks, punctures, damage, bulges visible?  Yes*	No
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks.  Flowmeter: 3, 293, 720 (gallons)	
SECONDARY CONTAINMENT INSPECTION	
4. Perform 360 perimeter walk to observe liner system for potential wear and tear.	
Any leaks, punctures, or other damage visible?	No
5. Is there storm water accumulation greater than 1 foot?  If Yes, pump storm water into one of the Process Tanks.	No Pumpines
6. Is there storm water accumulation in equipment pad sumps?:  If Yes, pump storm water into one of the process tanks.	No
DROCESS TANKS AND DAY TANK INSPECTION	

## PROCESS TANKS AND DAY TANK INSPECTION

11.1.0

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	No.
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-201		T-202		T-2	03
Visible oil leaks from gear box?	Yes*	No	Yes*	No	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Nes	No	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.		No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**		No*	Yes	No*	Yes	No
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperatureOil temperature	5	2°F	5	1_ °F	53	°F

Date: 1/9/19	Time:	Inspector Initials:	R911
NOTES:			
		y if any of these conditions are ob	oserved and thoroughly
* - Notify Site Implementation Manager immediately if any of these conditions are observed a document on this form and through photographs.  ** - Active sediment washing requires occasional shutdown of mixers and opening of decant v Implementation Manager immediately if this condition is observed and active washing is not of Initiate procedures to mobilize and connect portable generators to power the mixers in the eviloss greater than six hours to prevent solids from consolidating in the bottom of the Process Taccomments:  ** (Describe all "yes" answers, any observed damage, any areas that could not be inspected and the implementation of the Process Taccomments and the implementation of the Process Taccomments.  ** - Nixers of the implementation Manager immediately if any of these conditions are observed and the implementation of the Process Taccomments.  ** - Active sediment washing requires occasional shutdown of mixers and opening of decant visually in the process of the process			
	ers, any observed damage,	any areas that could not be insp	ected and the reason, etc.)
- Mixers rui	intermittently	to reduce wear	
- A			
AND VINCOLO			
:			
Operator Signature:	Kylid. Han	su_	
EMERGENCY CONTACTS:			

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 1/9/19 Time: 1250 Inspector	Initials:	KSH
PROCESS PIPING INSPECTION		
1. Observe piping between Process Tank secondary containment and FBF	R secondary cor	ntainment
Any leaks, punctures, damage, bulges visible?	Yes*	No
2. Observe piping in Process Tank secondary containment area.		
Any leaks, punctures, damage, bulges visible?	Yes*	No
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter eas Flowmeter: 3,301, 200 (gallons)	t of Process Tar	ıks.
SECONDARY CONTAINMENT INSPECTION		
4. Perform 360 perimeter walk to observe liner system for potential wear	r and tear.	
Any leaks, punctures, or other damage visible?	Yes	No
5. Is there storm water accumulation greater than 1 foot?	Yes	No
If Yes, pump storm water into one of the Process Tanks.		
6. Is there storm water accumulation in equipment pad sumps?:	Yes	(No)
If Yes, pump storm water into one of the process tanks.		
PROCESS TANKS AND DAY TANK INSPECTION		
7. Perform 360 degree walk around of each tank to inspect for damage o	r leaks and lock	out of valves:
		T = 202

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	) Yes*	No	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-2	01	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	(No	Yes*	No	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Yes	No	es	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	Yes	(10*)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature Oil temperature	5	/ °F	5	Z°F	5	°F

Date:	1/9/19	Time:	Inspector Initials:	129H
NOTE	S:			
				oserved and thoroughly
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.  ** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Implementation Manager immediately if this condition is observed and active washing is not occurring. Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.  COMMENTS:  (Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason,  - Mixery Cun intermitted by to reduce well.	ected and the reason, etc.)			
- M	ixers run in	otermitten	they to seduce we	<u> </u>
	etor Signature:	gles. A	lance	

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 0 1 4 10 19 Time: 1010 Inspector Initia	ıls: <u>K</u>	4H
	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR secondary	ondary conta	inment
	Any leaks, punctures, damage, bulges visible?	Yes*	(No )
2.	Observe piping in Process Tank secondary containment area.		A
	Any leaks, punctures, damage, bulges visible?	Yes*	(No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of P Flowmeter: 3,313,380 (gallons)	rocess Tanks	5.
SEC	ONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear and	tear.	
	Any leaks, punctures, or other damage visible?	Yes	No
5.	Is there storm water accumulation greater than 1 foot?	Yes	No
	If Yes, pump storm water into one of the Process Tanks.		

#### PROCESS TANKS AND DAY TANK INSPECTION

6. Is there storm water accumulation in equipment pad sumps?:

If Yes, pump storm water into one of the process tanks.

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

Yes

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	Yes	No*	es	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

or visual inspection from top or ducir i rocess runni						
	T-2	201	T-2	T-202 T-203		
Visible oil leaks from gear box?	Yes*	(No	Yes*	(No	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Yes	No	Ves	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	No	Yes	No*)	Yes	No
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperatureOil temperature	5	<b>U</b> °F	5	) °F	40	<sup>°</sup> F

Date	: _ 1/10/1	<u>9</u> т	ime:	_ In	spector Initials:	12-5-14	· ———
NOT	ES:						
			nager immediately if gh photographs.	any of thes	e conditions are	observed and t	horoughly
			uires occasional shutd ately if this condition				
			d connect portable go ent solids from consc		*		,
COM	MENTS:						
(Desc	cribe all "yes" a	nswers, any o	bserved damage, an	y areas tha	t could not be in:	spected and the	e reason, etc.)
- ,	Mixung	run iu	term: Hent l	y to	reduce	wear.	
	X						
-							
Opera	ator Signature:	Phyli	1. Hans	un		*	

### **EMERGENCY CONTACTS:**

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

4	Da	te: 1/11/19 Tin	ne:	1220	Inspector Initials	12	8#
	PR	OCESS PIPING INSPECTION					
	1.	Observe piping between Proces	ss Tanl	k secondary contai	nment and FBR second	dary conta	ainment.
		Any leaks, punctures, dama	ge, bu	ılges visible?	Υ	'es*	(No)
	2.	Observe piping in Process Tank	secon	dary containment	area.		0
		Any leaks, punctures, dama	ige, bu	ılges visible?	Y	'es*	No
		Record reading on Stabilized La Flowmeter: 3.324.	230	(gallons)	flowmeter east of Pro	cess Tank	s.
	SEC	CONDARY CONTAINMENT INSPE	CTION	1			
	4.	Perform 360 perimeter walk to	obser	ve liner system for	potential wear and te	ar.	
		Any leaks, punctures, or otl	ner da	mage visible?	Y	es	(No)
	5.	Is there storm water accumulated If Yes, pump storm water in	_		•	es	(No)
	6.	Is there storm water accumulat			•	es	(No
	PRO	DCESS TANKS AND DAY TANK IN	ISPECT	FION			

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-2	202	T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	(3)
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

5.						
	T-2	201	T-2	T-202 T-20		
Visible oil leaks from gear box?	Yes*	(No)	Yes*	No	Yes*	CHQ.
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Yes	No	Yes	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	Yes	(Nox)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperatureOil temperature	5.	2 °F	5	3 °F	5	°F

Date:	1/11/19	Time:		spector Initials:	KGH	
NOTES	5:					
	tify Site Implementati nent on this form and			e conditions are ob	oserved and thoroughly	
	tive sediment washin nentation Manager in				decant valves. Notify Site	9
	e procedures to mobil eater than six hours to	•	_	•	in the event of a power Process Tanks.	
COMN	IENTS:					
(Descri	ibe all "yes" answers,	any observed da	mage, any areas tha	t could not be insp	ected and the reason, etc	:.)
- M	ixus run	ruter in	i Hent by	to redu	ict way	
	<u> </u>					_
		1808	U-041 * 141.0			
Operat	or Signature:	glid He	insu.		1.00	

### **EMERGENCY CONTACTS:**

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 1/12/19 Time: 13/0 Inspector Initia	als: <u></u> <u> </u>	11							
PR	PROCESS PIPING INSPECTION									
1.	Observe piping between Process Tank secondary containment and FBR secondary		ment.							
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)							
2.	Observe piping in Process Tank secondary containment area.		1							
	Any leaks, punctures, damage, bulges visible?	Yes*	No							
	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Flowmeter: 3,331, 010 (gallons)	Process Tanks.								
SEC	CONDARY CONTAINMENT INSPECTION									
4.	Perform 360 perimeter walk to observe liner system for potential wear and	tear.	1							
	Any leaks, punctures, or other damage visible?	Yes	No							
5.	Is there storm water accumulation greater than 1 foot?	Yes	No							
	If Yes, pump storm water into one of the Process Tanks.		^							
6.	Is there storm water accumulation in equipment pad sumps?:  If Yes, pump storm water into one of the process tanks.	Yes	No							

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-2	202	T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	Nø
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-2	201	T-2	T-202 T-20		203
Visible oil leaks from gear box?	Yes*	No	Yes*	No	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Yes	No	Wes	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	es	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature Oil temperature	5	4 °F	5	5°F	55	°F

Date: 1/12	/19	Time:	<del></del>	Inspector II	nitials:	5 H
NOTES:						
		n Manager immedi hrough photograph		these condition	ons are observed	l and thoroughly
		requires occasiona mediately if this co				t valves. Notify Site t occurring.
		re and connect port prevent solids from				
COMMENTS: (Describe all "	'yes" answers,	any observed damo	age, any area	s that could no	ot be inspected (	and the reason, etc.)
- Mixery	Cun h	Her mittent	ly to	reduce	bearing	wey
Operator Sign	U	le S- Has	usu		2100	

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	THE STATE OF THE S
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 1/13/19 Time: 12/5 Inspector In	itials: <u>K</u> 9	#
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR so	econdary contain	nment.
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
2.	Observe piping in Process Tank secondary containment area.		$\bigcirc$
	Any leaks, punctures, damage, bulges visible?	Yes*	(No
3.	,,,,,,,,,,,,,,	f Process Tanks.	
	Flowmeter:		
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear a	nd tear.	00
	Any leaks, punctures, or other damage visible?	Yes	No
5.	Is there storm water accumulation greater than 1 foot?	Yes	No
	If Yes, pump storm water into one of the Process Tanks.		
6.	Is there storm water accumulation in equipment pad sumps?:	Yes	No
	If Yes, pump storm water into one of the process tanks.		
DDC	OCESS TANKS AND DAY TANK INSPECTION		

Date: 1/13/19

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-2	201	T-2	202	T-2	203	T-2	204
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	es	No*	NA	NA
Are transfer pumps ready for service?	Ves	No*	Yes	No*	Yes	No*	NA	NA

o. Visual inspection from top of court forces faint							
	T-2	201	T-2	.02	T-2	203	
Visible oil leaks from gear box?	Yes*	(No	Yes*	No	Yes*	No	
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Yes	No	Yes	No	
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.		No	Yes	No	(es)	No	
Mixer running and turbulence/vortex observed?**		No*	Yes	No*	Yes	No	
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*	
Ambient air temperatureOil temperature	5	2 °F	51	°F	5	) °F	

Date: _	1/13/19	Time:	Inspecto	or Initials:	K511	
NOTES:						
		ation Manager immediately indicately indicat	f any of these cond	litions are obse	rved and thoroug	nly
		ing requires occasional shuto immediately if this condition				y Site
		bilize and connect portable g to prevent solids from cons				ver
COMME (Describ		rs, any observed damage, ai	ny areas that could	i not be inspect	ted and the reason	n, etc.)
- M;x	ers run	intermittently	to reduce	bearing	wlan	
	= = :			398		
	or Signature:	Kyl D. Hans	Solar -			
FIAIFIGE	HEI CONTACTS.					

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 1/14/19 Time: 0875 Inspector Init	ials: <u>/</u>	25H									
PROCESS PIPING INSPECTION											
1. Observe piping between Process Tank secondary containment and FBR sec	ondary co	ntainment.									
Any leaks, punctures, damage, bulges visible?	Yes*	(No)									
2. Observe piping in Process Tank secondary containment area.		0									
Any leaks, punctures, damage, bulges visible?	Yes*	No									
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Flowmeter: 3,353,630 (gallons)	. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks.										
SECONDARY CONTAINMENT INSPECTION											
4. Perform 360 perimeter walk to observe liner system for potential wear and	d tear.	n									
Any leaks, punctures, or other damage visible?	Yes	No									
5. Is there storm water accumulation greater than 1 foot?	Yes	No									
If Yes, pump storm water into one of the Process Tanks.		3									
6. Is there storm water accumulation in equipment pad sumps?:	Yes	(No									
If Yes, pump storm water into one of the process tanks.		38									
PROCESS TANKS AND DAY TANK INSPECTION											
7. Perform 360 degree walk around of each tank to inspect for damage or lea	ks and loci	k out of valves:									

	T-201		T-2	T-202 T-2		203	T-2	204
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	(N <sub>0</sub> )
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

o							
	T-2	201	T-2	202	T-203		
Visible oil leaks from gear box?	Yes*	No	Yes*	No	Yes*	Nø	
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Yes	No	res	No	
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	(e)	No	
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	Yes	No	
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*	
Ambient air temperatureOil temperature	4	4 °F	40	e °F	44	of °F	

Date:	1/14/19	Time:	Inspector Initials:	KSH
NOTES	S:			
				served and thoroughly
** - Ad Impler	ctive sediment washing mentation Manager im	g requires occasion mediately if this	onal shutdown of mixers and opening of condition is observed and active washing	decant valves. Notify Site g is not occurring.
COMN	TENTS:			
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.  ** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Simplementation Manager immediately if this condition is observed and active washing is not occurring. Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.  COMMENTS:	ected and the reason, etc.)			
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site Implementation Manager immediately if this condition is observed and active washing is not occurring. Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.  COMMENTS:  (Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)  - Mitter Con intermittently to reduce wear				
		William William		
		,		
		glist. H	lann	

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 1/15/19 Time:	1044	Inspecto	r Initials:	C5#	
PROCESS PIPING INSPECTION					
1. Observe piping between Process Ta	nk secondary con	tainment and FB	R secondary cor	ntainment	
Any leaks, punctures, damage,	bulges visible?		Yes*	(No)	
2. Observe piping in Process Tank seco	ondary containme	nt area.		0	
Any leaks, punctures, damage,	bulges visible?		Yes*	No	
3. Record reading on Stabilized Lake N Flowmeter: 3,665,0			st of Process Tar	nks.	
SECONDARY CONTAINMENT INSPECTIO	ON				
4. Perform 360 perimeter walk to obse	erve liner system i	for potential wea	ar and tear.		
Any leaks, punctures, or other o	lamage visible?		Yes	No	
5. Is there storm water accumulation	greater than 1 foo	t?	Yes	No	
If Yes, pump storm water into o	ne of the Process	Tanks.		Po	mp.
6. Is there storm water accumulation i	п equipment pad	sumps?:	Yes	No	٠,
If Yes, pump storm water into o	ne of the process	tanks.		Pc No 0.28 '	المازا
PROCESS TANKS AND DAY TANK INSPE	CTION			•	24
7. Perform 360 degree walk around of	each tank to insp	ect for damage	or leaks and lock	out of valves:	
	T-201	T-202	T-203	T-204	]
Visible damage or leaks/stains?	V-0* (10)	Vant (N)	Vast (3)	V* (A)	1

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	Ng	Yes*	No	Yes*	(No
All decant valves and transfer valves locked out?**	es	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-2	T-201		T-202		.03	
Visible oil leaks from gear box?	Yes*	(No)	Yes*	No	Yes*	No	
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	es	No	Yes	No	
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	les	No	
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	(No*)	Yes	No	
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*	
Ambient air temperatureOil temperature	5	O °F	5	Z°F	50	°F	

Date:	1/15/	19	Time:			Inspect	or Initials:		K411	
NOTE	S:									
			tation Manager i nd through phot		if any of	these con	ditions are	observe	ed and th	noroughly
			hing requires occ r immediately if							
			obilize and conne							
COMI	VIENTS:									
(Desc	ribe all "y	es" answe	ers, any observed	d damage, d	any area	s that coul	d not be in:	spected	i and the	reason, etc.)
- N	1,445	CUK	interm:	Hently	to	reduce	wear	n_		
				- 1		= 96200 v	-			
Opera	tor Signat	ure:	Lyl S. Ho	nsu		_			12	

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 1/16/19 Time: 0800 Inspector Initials: K5H

PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR sec	-	nent.
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
2.	Observe piping in Process Tank secondary containment area.		<u></u>
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of	Process Tanks.	
	Flowmeter: 3,372, 460 (gallons)		
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear and	d tear.	0.5
	Any leaks, punctures, or other damage visible?	Yes	(No)
5.	Is there storm water accumulation greater than 1 foot?	yes)	No
	If Yes, pump storm water into one of the Process Tanks.		0,42 jules
6.	Is there storm water accumulation in equipment pad sumps?:	(Yes)	No

#### PROCESS TANKS AND DAY TANK INSPECTION

If Yes, pump storm water into one of the process tanks.

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	(No)	Yes*	N
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	(Ves)	No*	(Yes)	No*	NA	NA

o. Visual hispection from top of cuent focess rank.	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	(N)	Yes*	(No)	Yes*	(6)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	(es)	No	(Yes)	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.		No	(Yes)	No	Yes	(No)
Mixer running and turbulence/vortex observed?**	Ye	No*	Yes	No*	(Yes)	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature 50 Oil temperature	68	s °F	4	7°F	71	°F

Date: 1/16/19 Time: Inspector Initials: LGH
NOTES:
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site Implementation Manager immediately if this condition is observed and active washing is not occurring.
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.
COMMENTS:
(Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)
- Mixery can intermittently to reduce wear
- Mixery run intermittently to reduce wear - Pumping suandary containment stormwater.
Operator Signature: Muls-Hause

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Dat	te: 1/17/19 Time: 1535 Insp	pector Initials:	25H
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment a	nd FBR secondary co	ntainment.
	Any leaks, punctures, damage, bulges visible?	Yes*	No
2.	Observe piping in Process Tank secondary containment area.		
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmet	er east of Process Ta	anks.
	Flowmeter: 34 24, 350 (gallons)		

#### **SECONDARY CONTAINMENT INSPECTION**

4. Perform 360 perimeter walk to observe liner system for potential wear and tear.
Any leaks, punctures, or other damage visible?
Yes

Is there storm water accumulation greater than 1 foot?If Yes, pump storm water into one of the Process Tanks.

6. Is there storm water accumulation in equipment pad sumps?:

If Yes, pump storm water into one of the process tanks.



No Parker

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-2	201	T-2	202	T-2	203	T-2	204
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	(Ng)	Yes*	No	Yes*	(No)
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

and the second s		_				
	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	(No)	Yes*	No	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Yes	No	Yes	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.	Ves	No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No	Yes	No
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature Oll temperature	5	5 °F	5	7 °F	5	Ce °F

Date: 1/17/19	Time:	Inspec	tor Initials: _	KGH
NOTES:				
* - Notify Site Implendocument on this for	nentation Manager immediat m and through photographs.	ely if any of these co	nditions are o	bserved and thoroughly
	washing requires occasional s ager immediately if this cond			
	o mobilize and connect portal nours to prevent solids from c			
COMMENTS: (Describe all "yes" an	nswers, any observed damag	e, any areas that cou	ld not be insp	pected and the reason, etc.)
- Pemprua	rainwater			
- Mixeds CL	n ratermittently	to reduce	wear.	
				- 2000
Operator Signature: _	Nyles Hans	<u></u>		
Title	Name	Phone #	Comme	ents

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 1/18/19 Time: /3/0 Inspector Initia	ıls:	KGH
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR secondary	endary cont	tainment.
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
2.	Observe piping in Process Tank secondary containment area.		
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of P Flowmeter: 34 670, 450 (gallons)	rocess Tan	ks.
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear and	tear.	
	Any leaks, punctures, or other damage visible?	Yes	(Ng/
5.	Is there storm water accumulation greater than 1 foot?	Yes	No
	If Yes, pump storm water into one of the Process Tanks.		
6.	Is there storm water accumulation in equipment pad sumps?:  If Yes, pump storm water into one of the process tanks.	Yes	<b>®</b>

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-2	201	T-2	202	T-2	203	T-2	204
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	N
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	) No*	NA	NA

o. Visual hispection from top of cach frocess fund.						
	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	(No	Yes*	No	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Yes	No	Ves	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	vies	No
Mixer running and turbulence/vortex observed?**	Yes	(io*)	Yes	(No*)	Yes	(No)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperatureOil temperature	5	7 °F	٢	γβ °F	5	<b>∂</b> °F

Date: 1/18/19 Time:	Inspector Initials:	<u>KSH</u>
NOTES:		
* - Notify Site Implementation Manager immediately if any odocument on this form and through photographs.	of these conditions are obs	erved and thoroughly
** - Active sediment washing requires occasional shutdown Implementation Manager immediately if this condition is ob-		
Initiate procedures to mobilize and connect portable genera loss greater than six hours to prevent solids from consolidations.		
COMMENTS: (Describe all "yes" answers, any observed damage, any are	as that could not be inspec	ted and the reason, etc.)
· Mixing run intermittently.	to reduce w.	ear
Operator Signature: My S. Hause EMERGENCY CONTACTS:		Л

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 1/19/19 Time: 13/6 Inspector Initi	als:	1511
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR sec	ondary contair	ment.
	Any leaks, punctures, damage, bulges visible?	Yes*	(No
2.	Observe piping in Process Tank secondary containment area.		
	Any leaks, punctures, damage, bulges visible?	Yes*	(Ng)
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Flowmeter: 3,508,470 (gallons)	rocess Tanks.	
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear and	tear.	
	Any leaks, punctures, or other damage visible?	Yes	(No
5.	Is there storm water accumulation greater than 1 foot?	Yes	(NO)
	If Yes, pump storm water into one of the Process Tanks.		
6.	Is there storm water accumulation in equipment pad sumps?:  If Yes, pump storm water into one of the process tanks.	Yes	(No)

#### PROCESS TANKS AND DAY TANK INSPECTION

11.0/0

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	) <sub>Yes*</sub>	(No)
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	(es)	No*	Ves	No*	NA	NA

	T-201		T-202		I T-2	203
Visible oil leaks from gear box?	Yes*	No)	Yes*	No)	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	ves	No	Yes	No	(Yes)	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	(No*	Yes	(Not)	Yes	No*)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperatureOil temperature	٧	) 7°F	51	Q °F	57	7°F

Date: 1/19/19	Time:	_ Inspector I	nitials:	P411
NOTES:				
* - Notify Site Implementation I document on this form and thro		any of these conditio	ins are obse	rved and thoroughly
** - Active sediment washing re Implementation Manager imme			-	-
Initiate procedures to mobilize a loss greater than six hours to pr				
COMMENTS:				
(Describe all "yes" answers, an	y observed damage, any	y areas that could no	t be inspec	ted and the reason, etc.)
- Mixury run rute - Especial cast & - Added 10000 gallow	rm Hently to re	elve peart	re Wea	ſ.
- Repaired cast &	vmp AODD p	ump.		
- Added 10000 gallon	4 to 7-202	/		1 92.360
, 0			3112133116	
i				
Operator Signature: Myl	1.1			H 9
Operator Signature:	nanac			
EMERGENCY CONTACTS:				
Title	Name	Phone #	Comment	5

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 1/20/19 Time: 1530 Inspector Initi	als:	K411
PR	/ / OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR sec	ondary	containment
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
2.	Observe piping in Process Tank secondary containment area.  Any leaks, punctures, damage, bulges visible?	Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Flowmeter: 3, 5 23, 110 (gallons)	rocess '	Tanks.
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear and	tear.	2
	Any leaks, punctures, or other damage visible?	Yes	(No
5.	Is there storm water accumulation greater than 1 foot?	Yes	(No)
	If Yes, pump storm water into one of the Process Tanks.		
6.	Is there storm water accumulation in equipment pad sumps?:  If Yes, pump storm water into one of the process tanks.	Yes	No

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	(Ng)	Yes*	No	Yes*	(No
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	(Ye)	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Ve	No*	NA	NA

o. Visual hisperior hour top of cool. House						
	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	(Na)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	(res	No	(Yes	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.	Ves	No	es	No	(e)	No N
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	MO*)	Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperatureO Oil temperature	5	7°F	5	7 °F	5	8°F

Date:	1/20/	19	Time:	<del></del>	Inspe	ctor Initials: _		K511	_
NOTE	S:								
			n Manager imm hrough photogr		ny of these co	onditions are o	bserve	d and thoro	ughly
			requires occasi mediately if this						
			e and connect prevent solids f						power
COMI	/IENTS:								
(Descr	ibe all "ye	es" answers, (	any observed d	amage, any d	areas that co	uld not be ins	pected	and the rea	son, etc.)
- N	11xerz	PUN /	dermitten	thy to	reduce	wlay.			
0								2.2	
ā				_					
	tor Signat	U	led. X	lansn	<u></u>			INT.	

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 1/21/19 Time: 15	05 Inspector Initials:	KS H							
PROCESS PIPING INSPECTION									
1. Observe piping between Process Tank secondary containment and FBR secondary containment.									
Any leaks, punctures, damage, bulges	visible? Yes	* No							
2. Observe piping in Process Tank secondary	containment area.								
Any leaks, punctures, damage, bulges	visible? Yes	* No							
3. Record reading on Stabilized Lake Mead W		ss Tanks.							
Flowmeter: 3, 610, 350	(gallons)								
SECONDARY CONTAINMENT INSPECTION									
4. Perform 360 perimeter walk to observe lin	ier system for potential wear and tear								
Any leaks, punctures, or other damage	e visible? Yes	(No							
5. Is there storm water accumulation greater	than 1 foot? Yes	(No)							
If Yes, pump storm water into one of t	he Process Tanks.								
6. Is there storm water accumulation in equip	pment pad sumps?: Yes	N							
If Yes, pump storm water into one of the	he process tanks.								

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-2	T-201		T-202		T-203		204
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	9
All decant valves and transfer valves locked out?**	Yes	No*	(es)	No*	(Yes)	No*	NA	NA
Are transfer pumps ready for service?	ves	No*	(es	No*	ves	No*	NA	NA

o. Visual inspection in the overest visual v	T-201		T-202		T-203	
Visible oil leaks from gear box?	Yes*	(No)	Yes*	No	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Yes	No	Ves	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	(No*)	Yes	<b>*</b> 0*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature 52 Oil temperature	51	°F	5	Z °F	51	°F

11010	TAMINE	THOREM	COMMENTS	
EMERGENCY CONTACTS:	Name	Phone #	Comments	
Operator Signature:	J. Hausi	<u> </u>		<i>a</i>
- /				
- May 85,000	gallary SI	-MW Into	T-202	L UP to 21.7
- Mixeus run in	term that in	to reacc	e heur	ng wear
- Min Com	Vac. 114 (1	1 0/1	2 1	
(Describe all "yes" answers, any	observed damage, any	areas that could no	t be inspecte	d and the reason, etc.)
COMMENTS:				
	vent solids from collsol	idating in the bottor	n or the Proce	:55 Idlik5.
Initiate procedures to mobilize a loss greater than six hours to pre				
Implementation Manager immed				
** - Active sediment washing red	quires occasional shutde	own of mixers and o	pening of deca	ant valves. Notify Site
document on this form and thro		, 0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ed and morodginy
* - Notify Site Implementation IV	lanager immediately if a	any of these condition	ns are observ	red and thoroughly
NOTES:				
Date: 1/21/19	Time:	_ Inspector I	nitials:	<u>K511</u>

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 1/22/19 Time: 0930 Inspector In	nitials:	KSII
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR s	econdary co	ontainment.
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
2.	Observe piping in Process Tank secondary containment area.		A
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Flowmeter: 3, 617, 690 (gallons)	of Process Ta	anks.
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear a	ınd tear.	<u>a</u>
	Any leaks, punctures, or other damage visible?	Yes	(N <sub>0</sub> )
5.	Is there storm water accumulation greater than 1 foot?	Yes	(No)
	If Yes, pump storm water into one of the Process Tanks.		Ø.
6.	Is there storm water accumulation in equipment pad sumps?:  If Yes, pump storm water into one of the process tanks.	Yes	(M)

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	(No)	Yes*	No	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	(es)	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-2	201	T-202		T-2	203
Visible oil leaks from gear box?		(No)	Yes*	(No)	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Yes	No	les	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.		No	(Yes	No	(Ve)	No
Mixer running and turbulence/vortex observed?**	Yes	(16*)	Yes	No*	Yes	<b>6</b> *
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperatureOil temperature	4	4 °F	4	5 °F	44	°F

Date	: 1/zz/	19	Time:	<del></del>	Inspector Ini	tials:	K51-1	
NOTE	ES:							
			n Manager imme Prough photograp	diately if any of t phs.	hese condition	s are observe	ed and thoroug	hly
				nal shutdown of condition is obser				fy Site
			77.	ortable generator om consolidating	•			ver
COM	MENTS:							
(Desc	ribe all "ye:	s" answers, a	ny observed dan	nage, any areas	that could not	be inspected	and the reason	n, etc.)
-M	there	run hut	ermittently	, to redu	ce bea	rtug w	ear	
					<u> </u>	27000 - 22.0		
ē						112		
Opera	ıtor Signatu	ire: Nu	le Aar	Mm	_		75	
	GENCY CON							

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 1/23/18 Time: 0750 Inspector In	nitials:	K9H
PROCESS PIPING INSPECTION		
1. Observe piping between Process Tank secondary containment and FBR s	secondary co	ntainment.
Any leaks, punctures, damage, bulges visible?	Yes*	No
2. Observe piping in Process Tank secondary containment area.		
Any leaks, punctures, damage, bulges visible?	Yes*	(No)
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east	of Process Ta	anks.
Flowmeter: $3625,430$ (gallons)		
SECONDARY CONTAINMENT INSPECTION		
4. Perform 360 perimeter walk to observe liner system for potential wear a	and tear.	-
Any leaks, punctures, or other damage visible?	Yes	(No)
5. Is there storm water accumulation greater than 1 foot?	Yes	No
If Yes, pump storm water into one of the Process Tanks.		
6. Is there storm water accumulation in equipment pad sumps?:	Yes	No
If Yes, pump storm water into one of the process tanks.		

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	(No
All decant valves and transfer valves locked out?**	Yes	No*	(es)	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	(P)s	No*	Yes	No*	NA	NA

•	T-2	201	T-202		T-203	
Visible oil leaks from gear box?	Yes*	(No)	Yes*	No	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	(Yes)	No	Yes	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.		No	Ves	No	es	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	(No*)	Yes	<b>(0</b> +)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature 27 Oil temperature	3	4°F	3	4 °F	35	°F

Date: 1/23/19 Time: Inspector Initials: KGA	
NOTES:	
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.	
<ul> <li>** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site</li> <li>Implementation Manager immediately if this condition is observed and active washing is not occurring.</li> </ul>	
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.	
COMMENTS:	
(Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc	)
- SLMW lines Frozen, cleaved lines for Et.? - Mixers rung intermittently to reduce wear.	_
- Mixery rung intermittently to reduce wear.	_
Operator Signature: Ngled. Hauser	1
MERGENCY CONTACTS:	
	7

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Dat	e: 1/24/19 Time: 1030 Inspector I	nitials:	KGH					
PRO	DCESS PIPING INSPECTION							
1.	1. Observe piping between Process Tank secondary containment and FBR secondary containment.							
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)					
2.	Observe piping in Process Tank secondary containment area.		$\sim$					
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)					
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east Flowmeter: 3, 639, 810 (gallons)	of Process Tan	ks.					
SEC	ONDARY CONTAINMENT INSPECTION							
4.	Perform 360 perimeter walk to observe liner system for potential wear a	and tear.						
	Any leaks, punctures, or other damage visible?	Yes	(No)					
5.	Is there storm water accumulation greater than 1 foot?	Yes	No					
	If Yes, pump storm water into one of the Process Tanks.		_					
6.	Is there storm water accumulation in equipment pad sumps?:	Yes	(No)					
	If Yes, pump storm water into one of the process tanks.							

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-2	201	T-2	202	T-2	203	T-2	204
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	(No)	Yes*	No	Yes*	600
All decant valves and transfer valves locked out?**	Ves	No*	(Yes)	No*	(Ves	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	(Yes	No*	es	No*	NA	NA

	T-2	201	T-2	202	T-2	.03
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(Ng)	Yes*	(No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Yes	No	Yes	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.		No	Ves	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	(Ng*	Yes	(No*)	Yes	(P)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperatureOil temperature	5	4°F	54	°F	57	°F

Date: 1/24	/19	Time:	Insp	ector Initials:	F-914	
NOTES:						
		Manager immediatel ough photographs.	y if any of these c	onditions are ob	served and thorough	ly
		equires occasional sh ediately if this condit			decant valves. Notify g is not occurring.	/ Site
		and connect portable revent solids from co			in the event of a pow rocess Tanks.	'er
COMMENTS:						
(Describe all "y	es" answers, an	y observed damage,	any areas that c	ould not be insp	ected and the reason	, etc.)
- Mixers	run int	er withoutly	to reduce	bearing.	Wear	
	1799					
	NO				9.	
Operator Signa	ture:	I. Hans	m_			

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 1/25/19 Time: 15/5 Inspector	or Initials:	KSA
PROCESS PIPING INSPECTION		
1. Observe piping between Process Tank secondary containment and F	BR secondary c	ontainment.
Any leaks, punctures, damage, bulges visible?	Yes*	(No
2. Observe piping in Process Tank secondary containment area.		
Any leaks, punctures, damage, bulges visible?	Yes*	(No)
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter expression of the Flowmeter: 3, 654, 830 (gallons)	ast of Process T	anks.
SECONDARY CONTAINMENT INSPECTION		
4. Perform 360 perimeter walk to observe liner system for potential we	ar and tear.	$\wedge$
Any leaks, punctures, or other damage visible?	Yes	(No)
<ol><li>Is there storm water accumulation greater than 1 foot?</li><li>If Yes, pump storm water into one of the Process Tanks.</li></ol>	Yes	NB
6. Is there storm water accumulation in equipment pad sumps?:  If Yes, pump storm water into one of the process tanks.	Yes	(No)

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	(No)	Yes*	Ng	Yes*	No	Yes*	(R)
All decant valves and transfer valves locked out?**	ves	No*	(Yes)	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

· · · · · ·	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	(No)	Yes*	(No)	Yes*	(No)
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Yes	No	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Ves	No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**		No*	Yes	(No*)	Yes	(No*)
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature Oil temperature	6	4 °F	6	g °F	Col	o °F

Date: _	1/25/19	Time:	_ Inspector Initials:	KSH
NOTES	*			
		on Manager immediately if a through photographs.	any of these conditions are ob	served and thoroughly
			own of mixers and opening of is observed and active washin	•
	•	• •	nerators to power the mixers lidating in the bottom of the F	•
	be all "yes" answers,		areas that could not be insp	ected and the reason, etc.)
- M;	ters for	idermittently for	reduce wear.	
			# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	,	gle S. Haus	<del></del>	
:IVIERG	ENCY CONTACTS:			

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Date: 1/26/19 Time: 15	30 Inspector Initia	als: <u>Kg</u>	<i>:</i>
PROCESS PIPING INSPECTION			
1. Observe piping between Process Tank secon	idary containment and FBR seco	ondary containn	nent.
Any leaks, punctures, damage, bulges vi	sible?	Yes*	No
2. Observe piping in Process Tank secondary co	ontainment area.		~
Any leaks, punctures, damage, bulges vi	sible?	Yes*	No
3. Record reading on Stabilized Lake Mead Wa	ter (SLMW) flowmeter east of P	rocess Tanks.	
Flowmeter: 3, 664,010	(galions)		
SECONDARY CONTAINMENT INSPECTION			
4. Perform 360 perimeter walk to observe line	r system for potential wear and	tear.	<b>a</b>
Any leaks, punctures, or other damage v	risible?	Yes	No
5. Is there storm water accumulation greater to	han 1 foot?	Yes	No
If Yes, pump storm water into one of the	Process Tanks.		
6. Is there storm water accumulation in equipm	nent pad sumps?:	Yes	No
If Yes, pump storm water into one of the	process tanks.		

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NΑ

	T-2	201	T-2	202	T-2	203 🕋
Visible oil leaks from gear box?	Yes*	No	Yes*	No	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No.	Yes	No	Yes	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.		No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	(No*	Yes	(No*)	Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature <u>62</u> Oil temperature	6	/ °F	6	ζ °F	62	- °F

Date: _	1/26/1	9	Time:		Inspect	tor Initials:	KSH	
NOTES	9							
			n Manager imm nrough photogr		y of these con	ditions are ob:	served and thoroug	ţhly
							decant valves. Not is not occurring.	ify Site
			e and connect prevent solids t				n the event of a porocess Tanks.	wer
сомм	ENTS:							
(Descrii	be all "yes"	answers, o	any observed d	amage, any a	reas that cou	d not be inspe	ected and the reasc	on, etc.)
- N	ixers	run	ruter mit	Hent by	to sedu	u bear i	ny wear	
-			- bit - bitte			20 400-0		
Operato	or Signature	: Ky	le 17	Lause	-		1	

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hanseл	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 1/27/19 Time: 1600 Inspector Init	ials:	K511
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR sec	ondary	containment.
	Any leaks, punctures, damage, bulges visible?	Yes*	No
2.	Observe piping in Process Tank secondary containment area.		
	Any leaks, punctures, damage, bulges visible?	Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Flowmeter: 3, 673, 705 (gallons)	Process	Tanks.
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear and	d tear.	
	Any leaks, punctures, or other damage visible?	Yes	No
5.	Is there storm water accumulation greater than 1 foot?	Yes	No
	If Yes, pump storm water into one of the Process Tanks.		( )
6.	Is there storm water accumulation in equipment pad sumps?:  If Yes, pump storm water into one of the process tanks.	Yes	(No

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	(N)
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-2	201	T-2	202	T-2	.03
Visible oil leaks from gear box?	Yes*	(No)	Yes*	No	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yés	No	Yes	No	es	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	(No*)	Yes	(No*)	Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature 67 Oil temperature	6	5°F	G-	7 °F	45	°F

Date:	1/27/19	Time:	Inspector Initials:	R S H
NOTE	S:			
	etify Site Implementation		if any of these conditions are obs	erved and thoroughly
			atdown of mixers and opening of don is observed and active washing	
			generators to power the mixers in solidating in the bottom of the Pro	•
	MENTS: ribe all "yes" answers,	any observed damage, (	any areas that could not be inspec	ted and the reason, etc.)
- N	14WG TUN	intermittentl	y to reduce bearing	Wear
Opera	tor Signature:	led. Hans	lun	

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 1/28/19 Time: 1106 Inspector Init	ials: <u>K</u>	511
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR sec	ondary cont	ainment.
	Any leaks, punctures, damage, bulges visible?	Yes*	No
2.	Observe piping in Process Tank secondary containment area.		0
	Any leaks, punctures, damage, bulges visible?	Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of	Process Tank	s.
	Flowmeter: 3,678, 420 (gallons)		
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear and	l tear.	
	Any leaks, punctures, or other damage visible?	Yes	No
5.	Is there storm water accumulation greater than 1 foot?	Yes	No
	If Yes, pump storm water into one of the Process Tanks.		
6.	Is there storm water accumulation in equipment pad sumps?:	Yes	(No)
	If Yes, pump storm water into one of the process tanks.		

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	(S)
All decant valves and transfer valves locked out?**	Yes	No*	Yes	) No*	res	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-2	201	T-202		T-2	203
Visible oil leaks from gear box?	Yes*	(No)	Yes*	No	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	(Yes)	No	Yes	No	es	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.	Yes	No	Ves	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature Oil temperature	6	<i>O</i> °F	5	8°F	5	7°F

Date: 1/28/19 Time: Inspector Initials: KS II
NOTES:
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site Implementation Manager immediately if this condition is observed and active washing is not occurring.
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.
COMMENTS:
(Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)
- Nixlors run intermittently to reduce bearing
wear
<del></del>
Operator Signature: Kyle S. Hausun
Operator Signature:

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Dat	te: 1/29 / 19 Time: 0930 Inspector Init	ials:	K-5.11
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR sec	ondary conta	nment.
	Any leaks, punctures, damage, bulges visible?	Yes*	No
2.	Observe piping in Process Tank secondary containment area.		
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of	Process Tanks	
	Flowmeter: 3, 690, 420 (gallons)		
SEC	ONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear and	l tear.	
	Any leaks, punctures, or other damage visible?	Yes	(No)
5.	Is there storm water accumulation greater than 1 foot?	Yes	(No)
	If Yes, pump storm water into one of the Process Tanks.		<u>a</u>
6.	Is there storm water accumulation in equipment pad sumps?:	Yes	(No)
	If Yes, pump storm water into one of the process tanks.		

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-201 T-		T-2	202 T-20		.03 T-2		204
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Ves	No*	Yes	No*	Yes	No*	NA	NA

	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	No	Yes*	(No)	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Yes	No	es	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	No	Yes	<b>(</b> (0)	Yes	No
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature 57 Oil temperature	5	Z°F	5	3°F	5	3 °F

Date:	1/29/19	Time:		Inspe	ctor Initials: _	KSH	
NOTES	S:						
		nentation Manager immo m and through photogra		y of these co	onditions are o	bserved and t	thoroughly
		washing requires occasion ager immediately if this					
		mobilize and connect pours to prevent solids fr					
COMN	TENTS:						
(Descr	ibe all "yes" an	swers, any observed da	mage, any a	reas that co	uld not be ins	pected and th	e reason, etc.)
- /	Viters r	un intermiten	the to	reduce	bearing	wear	
	100			2.5%			
Operat	or Signature: _	Thyle I Ha	usu			15	1

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 1/30/19 Time: 1330 Inspector In	itials:	KSH
PR	DCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR se	econdary cont	tainment.
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
2.	Observe piping in Process Tank secondary containment area.  Any leaks, punctures, damage, bulges visible?	Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Flowmeter: 3,697,840 (gallons)	f Process Tan	ks.
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear as	nd tear.	0
	Any leaks, punctures, or other damage visible?	Yes	No
5.	Is there storm water accumulation greater than 1 foot?  If Yes, pump storm water into one of the Process Tanks.	Yes	No
6.	Is there storm water accumulation in equipment pad sumps?:  If Yes, pump storm water into one of the process tanks.	Yes	No

#### PROCESS TANKS AND DAY TANK INSPECTION

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	T-2	201	T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	Mar.
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	res	No*	NA	NA

or trader mapostrom training or court increase terms							
	T-2	.01	T-2	.02	T-2	203	
Visible oil leaks from gear box?	Yes*	No	Yes*	No	Yes*	ES CONTRACTOR	
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	Yes	No	Yes	No	
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	Yes	No	
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	(No*)	Yes	No*	
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*	
Ambient air temperatureO' Oil temperature	Co	( °F	6	2 °F	62	2 °F	

Date: 1/39	/19	Time:		Inspector In	itials:	KSH
NOTES:						
		n Manager immedia nrough photographs		these condition	ns are observ	ed and thoroughly
		requires occasional nediately if this cond				ant valves. Notify Site not occurring.
		e and connect porta prevent solids from				
COMMENTS:						
(Describe all "ye	es" answers, (	any observed damag	ge, any areas	s that could not	t be inspecte	d and the reason, etc.)
- Mixers	run }	wherm : Hent	ly to	Ceduce	plasine	wear.
				PO MEN		
Operator Signate	ure: K	led Han	u			

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: 1/31/19 Time: 0830 Inspector Initials:	514
PR	OCESS PIPING INSPECTION	
1.	Observe piping between Process Tank secondary containment and FBR secondary contain	nment.
	Any leaks, punctures, damage, bulges visible? Yes*	No
2.	Observe piping in Process Tank secondary containment area.	0
	Any leaks, punctures, damage, bulges visible? Yes*	(No)
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks.	
	Flowmeter: 3, 710, 170 (gallons)	
SEC	CONDARY CONTAINMENT INSPECTION	
4.	Perform 360 perimeter walk to observe liner system for potential wear and tear.	3
	Any leaks, punctures, or other damage visible? Yes	(No
5.	Is there storm water accumulation greater than 1 foot? Yes	(No)
	If Yes, pump storm water into one of the Process Tanks.	

#### PROCESS TANKS AND DAY TANK INSPECTION

6. Is there storm water accumulation in equipment pad sumps?:

If Yes, pump storm water into one of the process tanks.

7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

Yes

	T-201		T-202		T-203		T-204	
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

- The second of						Carlos and American
	T-2	01	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	No	) Yes*	(No)	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	) No	Yes	No	ves	No
Mixer off as part of sediment washing process?  If Yes, draw an "X" through answers to next question.	res	) No	es	No	Ves	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	(lo*)	Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperatureOil temperature	50	°F	Ц	9°F	45	°F

Date: 1/31/19 Time: Inspector Initials: FGH
NOTES:
* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.
** - Active sediment washing requires occasional shutdown of mixers and opening of decant valves. Notify Site Implementation Manager immediately if this condition is observed and active washing is not occurring.
Initiate procedures to mobilize and connect portable generators to power the mixers in the event of a power loss greater than six hours to prevent solids from consolidating in the bottom of the Process Tanks.
COMMENTS: (Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)
- Mixery con intermittently to reduce bearing wear
Operator Signature: Refers. Hawen EMERGENCY CONTACTS:

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

# Attachment B Phase III O&M Monthly Inspection Forms

# **K05 PHASE III O&M MONTHLY INSPECTION FORM**

Date: 12/31/18 Time: 09	45		Inspec	tor Initi	als:	TR		-
INSPECT MATERIALS AND PARTS								
Are all spare parts present?:      No      If no, list which parts need to be ordered and inform Site Implementation Manager:								
					<del></del>			
Are all safety materials, resources, and supplies to perform work present?      No     If no, list what needs to be ordered and inform Site Implementation Manager:								No
			working	g order.	Provide	notes a	nd conta	ct the
<ul> <li>3. Check if all AODD transfer pumps are in good condition and working order. Provide notes and contact the Site Implementation Manager if any repairs are required:</li> <li>P-201</li> <li>P-202</li> <li>P-203</li> <li>P-204</li> <li>P-205</li> <li>P-206</li> <li>HIGH-HIGH LEVEL ALARMS INSPECTIONS</li> <li>4. Check if the high-high level warning alarm system is in good condition for each tank. Provide notes and contact the Site Implementation Manager if any repairs are required;</li> </ul>								
<u> </u>	T-2	201	T-2	02	T-2	203	T-2	204
Check what level the High-High alarm signals – is it consistent with the set points?	Yes	No*	Yes	No*	Yes	No*	Yes	No*
Test reset procedure – were there any issues?	Yes*	(No)	Yes*	(No)	Yes*	(No)	Yes*	No
Are all alarm status lights in good working order?	Yes	No*	Yes	No*	Yes	No*	Yes	No*
Are the shut-off devices in good working order? (Yes) No* (Yes) No* (Yes) No* (Yes) No*							No*	
Visible damages to the alarm cords and cables? Yes* No Yes* No Yes* No Yes* No								
Notes:								

<b>K05 PHASE III O&amp;M MONTHLY INSPECTION FORM</b>						
Date: 12/3//18 Time: 0945	Inspector	Initials: JR				
INSPECT PROCESS TANK MIXERS						
5. Visual inspection from top of each Process Tank:						
•	T-201	T-202	T-203			
Is there adequate oil in Process Tank mixer motors?	(Yes) No*	(Yes) No*	Yes No*			
Control panel mixer run time**	9344,9 hrs	9530, 6 hrs	9638. I hrs			
<ul> <li>INSPECT MAINTENANCE ITEMS</li> <li>6. Check if equipment requiring maintenance is in good required maintenance and contact the Site Implement</li> </ul>	condition and wo	orking order. Pro	vide the date of next			
Activity	Date of t Replaceme Mainten	Vext ent or ence	Comments			
Replace 3" decant transfer hoses	2/1/2					
Replace 3" solid transfer hoses	2/1/201					
Replace 1.5" SLMW flush hose	6/15/	2019				
Replace 3" stainless steel doublesphere expansion joints						
Replace air compressor filter element	10/16/	7097				
Service air compressor	1/26/3	4019				
Change process tank mixer gear box oil**	_ 114/2	٥٠٠٥				
Grease gear seals on process tank mixer	6/21/2	2019				
NOTES:						
<ul> <li>Notify Site Implementation Manager immediately if and document on this form and through photographs.</li> </ul>	y of these conditi	ons are observed	d and thoroughly			
** - Date of next oil change is approximate. The timing fo actual run time (10,000 hours). Each mixer ran for the fol control panel set up, and these hours need to be added to time for the mixers: M-201 = 1,276.2 hours, M-202 = 1,25	lowing hours afte the control pane	r the last oil char el readings to arri	nge and prior to ive at the total run			
COMMENTS:						
(Describe all "yes" answers, any observed damage, any c	reas that could n	ot be inspected (	and the reason, etc.)			

Operator Signature: MR

# **K05 PHASE III O&M MONTHLY INSPECTION FORM**

Date: _	12/31/2018	Time: 0945	Inspector Initials: JR
---------	------------	------------	------------------------

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

#### **K05 PHASE III O&M MONTHLY INSPECTION FORM** Date: 1/31/19 Time: 1145 Inspector Initials: \_ **INSPECT MATERIALS AND PARTS** Are all spare parts present?: No If no, list which parts need to be ordered and inform Site Implementation Manager: 2. Are all safety materials, resources, and supplies to perform work present? No If no, list what needs to be ordered and inform Site Implementation Manager: PUMP OPERATION INSPECTION 3. Check if all AODD transfer pumps are in good condition and working order. Provide notes and contact the Site Implementation Manager if any repairs are required: P-201 P-202 P-203 P-204 P-205 P-206 HIGH-HIGH LEVEL ALARMS INSPECTIONS 4. Check if the high-high level warning alarm system is in good condition for each tank. Provide notes and contact the Site Implementation Manager if any repairs are required: T-201 T-202 T-203 T-204 Check what level the High-High alarm signals -(Yes) No\* No\* Yes Yes No\* No\* Yes is it consistent with the set points? (No) Test reset procedure – were there any issues? Yes\* No Yes\* No No Yes\* Yes\* Are all alarm status lights in good working Yes` No\* Yes No\* Yes No\* Yes No\* order? Are the shut-off devices in good working order? (Yes) (Yes Yes /Yes ) No\* No\* No\* No\*

K05	Phase	Ш	Inspection	Form	1701:	1 03

Visible damages to the alarm cords and cables?

Notes:\_\_\_\_

Yes\*

No

Yes\*

No)

Yes\*

Yes\*

No

K05 PHASE III O&M MONTHLY INSPECTION FORM						
Date: 1/31/19 Time: 1145	Inspector	Initials:	R			
INSPECT PROCESS TANK MIXERS						
5. Visual inspection from top of each Process Tank:						
	T-201	T-202	T-203			
Is there adequate oil in Process Tank mixer motors?	(es No*	No*	(Yes) No*			
Control panel mixer run time**	9351.7 hrs	9581, 2 hrs	7644.8 hrs			
<ul><li>INSPECT MAINTENANCE ITEMS</li><li>6. Check if equipment requiring maintenance is in good required maintenance and contact the Site Implement</li></ul>						
	Date of I	Vext				
	Replacem	ent or				
Activity	Mainten	ance	Comments			
Replace 3" decant transfer hoses	2/1/2	019				
Replace 3" solid transfer hoses	2/1/2	019				
Replace 1.5" SLMW flush hose	6/15	12019				
Replace 3" stainless steel doublesphere expansion joints						
Replace air compressor filter element	10/16/-	5029				
Service air compressor	1/26/	2021				
Change process tank mixer gear box oil**	1/4/2	020				
Grease gear seals on process tank mixer	6/21/	2019				
	<del>_</del>					
NOTES:						
* - Notify Site Implementation Manager immediately if an document on this form and through photographs.	y of these condit	ions are observe	d and thoroughly			
** - Date of next oil change is approximate. The timing for actual run time (10,000 hours). Each mixer ran for the followorth panel set up, and these hours need to be added to time for the mixers:  M-201 = 1,276.2 hours, M-202 = 1,25	llowing hours after the control pan	er the last oil cha el readings to ari	nge and prior to rive at the total run			
COMMENTS:						
(Describe all "yes" answers, any observed damage, any o	areas that could	not be inspected	and the reason, etc.)			
			200000000000000000000000000000000000000			

Operator Signature: \_\_

# **K05 PHASE III O&M MONTHLY INSPECTION FORM**

Date: 1/3///	Time: _	1145	Inspector Initials:	JR

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	
Program Manager	Dan Pastor	(303) 588-0901	
Site Health & Safety	Karen Luna	(702) 217-8173	
Corporate Health & Safety	Michelle Gillie	(610) 348-7197	
Process Engineer	Courtney Flores	(770) 845-6281	
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334