

TECHNICAL MEMORANDUM

То:	Nevada Environmental Response Trust
Cc:	Nevada Division of Environmental Protection
From:	David Bohmann and Bounkheana Chhun
Date:	September 10, 2019
Subject:	AP-5 Operation and Maintenance Bi-Monthly Progress Report Summary – June and July 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 June and July 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 June and July 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 June and July 2019.

SOLIDS WASHING AND DECANT WATER TRANSFER

Throughout June and July 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 83,194 gallons of AP-5 wash water was decanted from the Process Tanks and transferred to the Day Tank in June 2019 and approximately 22,342 gallons of AP-5 wash water was decanted from the Process Tanks and transferred to the Day Tank in July 2019. A summary of daily AP-5 wash water volumes that were decanted from the Process Tanks and transferred to the Day Tank in July 2019. A summary of daily AP-5 wash water volumes that were decanted from the Process Tanks and transferred to the Day Tank in June and July 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.

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. During the months of June and July 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 1.8% in June and July 2019.

In an effort to provide decant water for feed to the FBRs at consistent concentrations and perchlorate to ammonia ratios, Tank T-203 was used as the source of all decant water transferred to the FBRs in June and July 2019. To facilitate transfer of decant water to the FBRs through Tank T-203, AP-5 wash water was transferred between tanks as part of the solids washing process. In June 2019, AP-5 wash water decanted from Tank T-201 was transferred to Tank T-202. Subsequently in July 2019, and AP-5 wash water decanted from Tank T-202 was transferred to Tank T-203. The perchlorate and ammonia concentrations in Tanks T-201 and T-202 are lower than that of T-203. The transfer of decant water between Process Tanks resulted in a transfer of mass (i.e. increase in perchlorate and ammonia mass in the Process Tank receiving decant water), which is reflected on Figures 1 and 3.

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 3a 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 3b 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 (Tables 3a and 3b, Figure 1). In June 2019, one grab sample was collected from each tank for analysis of perchlorate. In July 2019, four grab samples were collected from each tank for analysis of perchlorate. July samples were collected at four separate locations along the mixer bridge (5, 20, 40, and 55 feet from the sidewall). Four samples were collected in July 2019 to improve concentration estimates over those obtained from a single-point sample. The perchlorate mass estimate for each tank in June and July 2019 as determined by the sampling method is provided on Table 3b. As noted above, AP-5 wash water from solids washing was transferred between tanks in June and July 2019. As a result, the perchlorate mass in Tanks T-202 and T-203 slightly increased in June and July, respectively, due to the volume of wash water that was transferred to these tanks (Table 3b and Figure 1).

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 estimated 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 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 5a. 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 5b and Figure 3. Monthly tank grab samples were completed in June and July 2019 for estimating the mass of ammonia removed from each Process Tank and the remaining ammonia mass in each tank. As noted above, AP-5 wash water from solids washing was transferred between tanks in June and July 2019. As a result, the ammonia mass in Tanks T-202 and T-203 slightly increased in June and July, respectively, due to the volume of wash water that was transferred to these tanks (Table 5b and Figure 3).

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 2.0 gpm at 1.8% 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 for all three tanks is expected to be completed in 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. Starting in May 2019, the wash water in Process Tank T-201 was below the 1% concentration treatment threshold. Therefore, solids samples were collected from T-201 in June. The perchlorate concentrations in solid samples were slightly above 1%; therefore, additional mixing and decanting of wash water was conducted in June. Solids from T-201 were resampled for analysis of perchlorate in July 2019. Based on the composite sample collected in July 2019, the solids concentration in T-201 is less than 1% and solids washing activities are considered complete for that tank. The solids in tank T-201 will be characterized for disposal followed by removal of solids from the tank for dewatering and off-site disposal following build out of the solids dewatering area. The Trust and Tetra Tech will begin planning for the build out of this area and a summary of the preparation activities will be presented in the August/September 2019 report. Solids dewatering activities are anticipated to begin in 2020. The wash water in Tanks T-202 and T-203 remain above the 1% concentration threshold and treatment will continue for these tanks.

ROUTINE INSPECTIONS

Routine inspections were conducted throughout June and July 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 June and July 2019. The findings of the inspections are provided below:

• No visible damage to, or leaks from, the AP-5 process piping were observed.

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.
- No stormwater accumulation on the secondary containment liner or in equipment pad sumps were observed.

Tanks and Equipment

Process Tanks T-201, T-202 and T-203, and Day Tank T-204 were inspected on a routine basis in June and July 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.

MONTHLY INSPECTION

The June and July 2019 monthly inspections were conducted on June 30, 2019 and July 29, 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 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 Bi-Monthly Progress Report Summary – June and July 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**

Signature: 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

Company: Le Petomane XXVII, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

Date: 9/10110

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 Bi-Monthly Progress Report Summary for June and July 2019.

ed. Hansen

September 10, 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

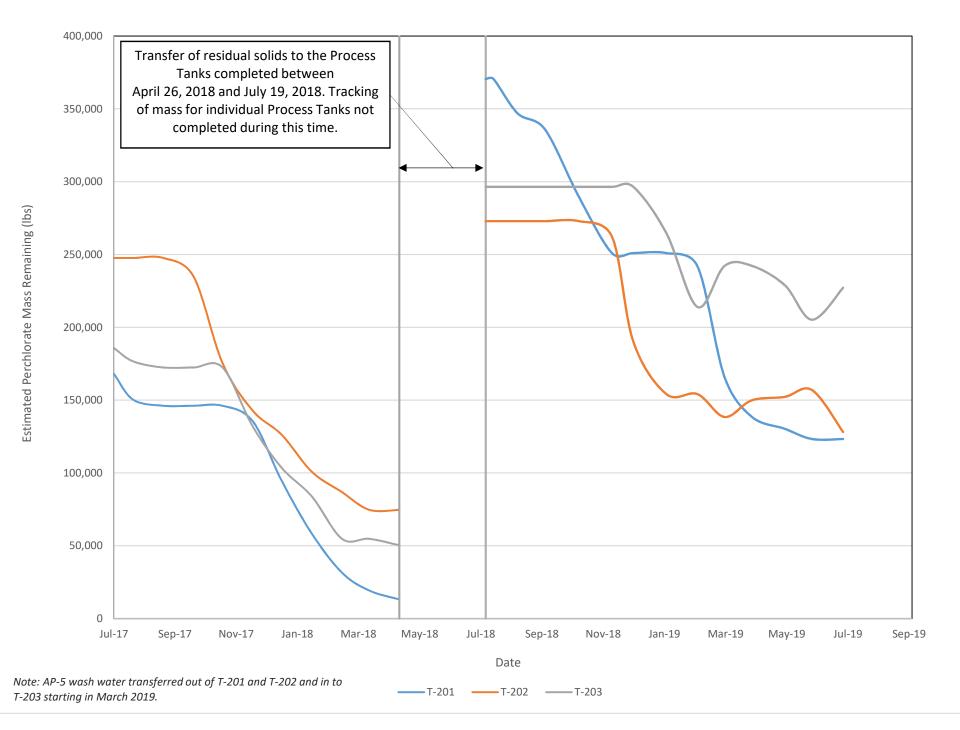
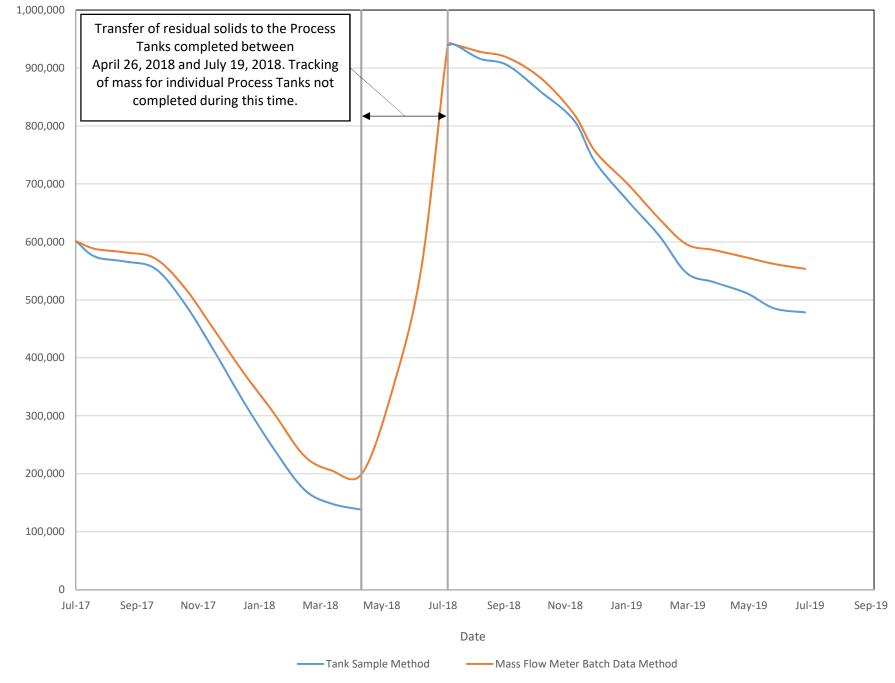
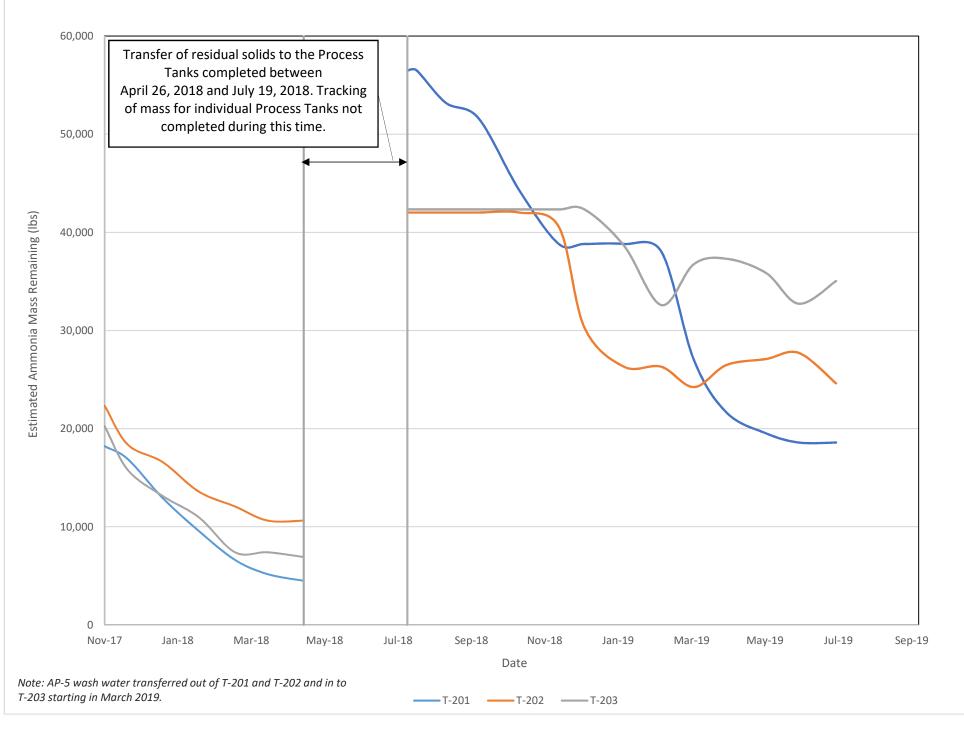


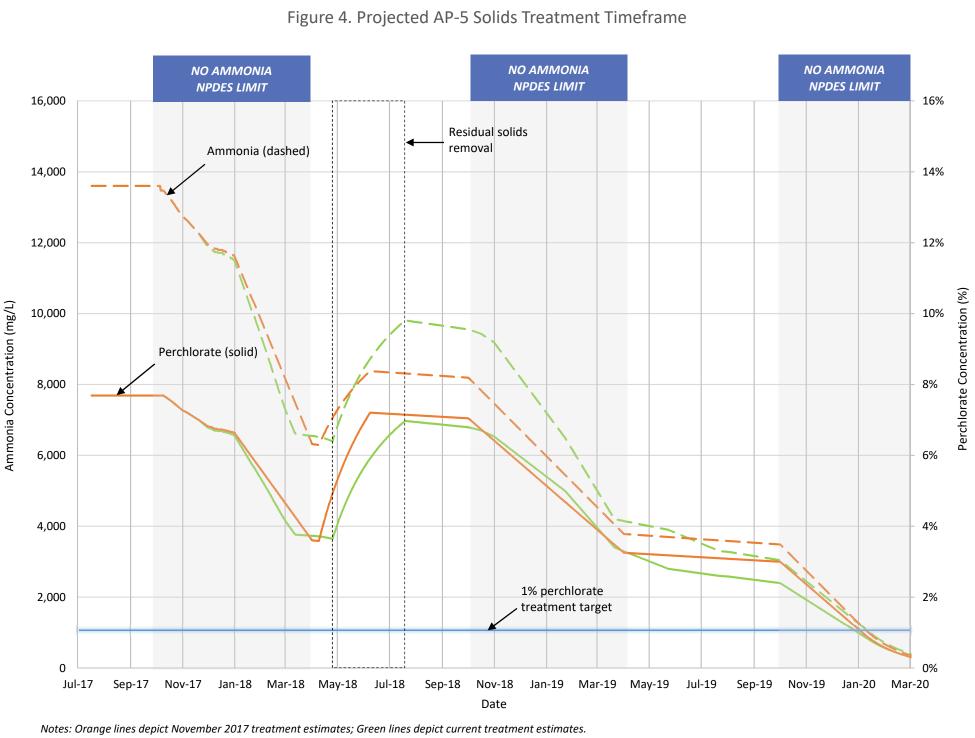
Figure 2. Estimate of Total Perchlorate Mass Remaining in Process Tanks



Estimated Perchlorate Mass Remaining (lbs)

Figure 3. Estimate of Ammonia Mass Remaining in Process Tanks





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

Tables

	T-201	T-202	T-203	Daily Total
Date	(Gallons)	(Gallons)	(Gallons)	(Gallons)
6/1/2019	-	-	-	-
6/2/2019	-	-	-	-
6/3/2019	-	-	23,166	23,166
6/4/2019	-	-	-	-
6/5/2019	-	-	-	-
6/6/2019	-	-	-	-
6/7/2019	-	-	-	-
6/8/2019	-	-	-	-
6/9/2019	-	-	-	-
6/10/2019	-	-	-	-
6/11/2019	-	-	21,152	21,152
6/12/2019	-	-	-	-
6/13/2019	-	-	-	-
6/14/2019	-	-	-	-
6/15/2019	-	-	-	-
6/16/2019	-	-	-	-
6/17/2019	-	-	18,899	18,899
6/18/2019	-	-	-	-
6/19/2019	-	-	-	-
6/20/2019	-	-	-	-
6/21/2019	-	-	-	-
6/22/2019	-	-	-	-
6/23/2019	-	-	-	-
6/24/2019	-	-	-	-
6/25/2019	-	-	19,977	19,977
6/26/2019	-	-	-	-
6/27/2019	-	-	-	-
6/28/2019	-	-	-	-
6/29/2019	-	-	-	-
6/30/2019	-	-	-	-
Total	-	-	83,194	83,194

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. July Monthly AP-5 Wash Water Decant Records	
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	T-201	T-202	T-203	Daily Total
Date	(Gallons)	(Gallons)	(Gallons)	(Gallons)
7/1/2019	-	-	-	-
7/2/2019	-	-	-	-
7/3/2019	-	-	-	-
7/4/2019	-	-	-	-
7/5/2019	-	-	-	-
7/6/2019	-	-	-	-
7/7/2019	-	-	-	-
7/8/2019	-	-	-	-
7/9/2019	-	-	-	-
7/10/2019	-	-	-	-
7/11/2019	-	-	-	-
7/12/2019	-	-	-	-
7/13/2019	-	-	-	-
7/14/2019	-	-	-	-
7/15/2019	-	-	22,342	22,342
7/16/2019	-	-	-	-
7/17/2019	-	-	-	-
7/18/2019	-	-	-	-
7/19/2019	-	-	-	-
7/20/2019	-	-	-	-
7/21/2019	-	-	-	-
7/22/2019	-	-	-	-
7/23/2019	-	-	-	-
7/24/2019	-	-	-	-
7/25/2019	-	-	-	-
7/26/2019	-	-	-	-
7/27/2019	-	-	-	-
7/28/2019	-	-	-	-
7/29/2019	-	-	-	-
7/30/2019	-	-	-	-
7/31/2019	-	-	-	-
Total	-	-	22,342	22,342

Notes:

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

	T-201	T-202	T-203	Monthly Total
Month	(Gallons)	(Gallons)	(Gallons)	(Gallons)
July 2017	38,377		20,906	59,283
August 2017	8,868		9,454	18,322
September 2017		22,819		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
February 2019	29,886	-	97,882	127,768
March 2019	17,897	-	95,684	113,581
April 2019	-	-	20,837	20,837
May 2019	-	-	55,405	55,405
June 2019	-	-	83,194	83,194
July 2019	-	-	22,342	22,342
Cumulative Total	975,053	717,348	869,358	2,561,759

Notes:

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.

Month	T-201	T-202	T-203	Monthly Total
	(Gallons)	(Gallons)	(Gallons)	(Gallons) ¹
July 2017	22,775		6,150	28,925
August 2017	13,970		7,860	21,830
September 2017		20,010		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
February 2019	630	-	1,630	2,260
March 2019	270	-	1,110	1,380
April 2019	86,500	4,500	210	91,210
May 2019	74,000	-	730	74,730
June 2019	85,000	-	1,930	86,930
July 2019	23,360	-	120	23,480
Cumulative Total	800,107	492,567	311,860	1,604,534

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

Notes:

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 (Ibs)	Total Monthly Mass Removed (lbs)	Total Perchlorate Mass In Process Tanks (lbs)	
Initial Perchlorate Mass ¹		168,055	247,579	185,745		601,380	
	July 2017 ²	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	
p	October 2017	-	59,663	-	59,663	493,878	
Approx. Mass Removed	November 2017	10,605	32,571	40,418	83,594	410,284	
Ren	December 2017	41,090	16,693	28,582	86,365	323,919	
lass	January 2018	36,195	25,360	19,639	81,195	242,724	
×.	February 2018	26,727	13,925	29,020	69,672	173,051	
pro	March 2018	12,248	12,168	-	24,415	148,636	
Ap	April 2018	6,083	-	4,441	10,524	138,112	
	May 2018 ³						
	June 2018	INDIVIDUAL PI	INDIVIDUAL PROCESS TANK MASS CALCULATIONS WERE SUSPENDED UNTIL POI SOLIDS TRANSFER COMPLETED.				
	July 2018		30210				
Ending	Perchlorate Mass					138,112	

Notes:

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 grab 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.

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

Initial P	erchlorate Mass⁴	Mass in T-201 (lbs) 370,459	Mass in T-202 (lbs) 272,873	Mass in T-203 (lbs) 296,418	Total Monthly Mass Removed (lbs)	Total Perchlorate Mass In Process Tanks (Ibs) 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
Approx. Mass Removed	November 2018	38,510	10,660	-	49,170	809,594
emc	December 2018	-	72,088	-	72,088	737,507
ss Ri	January 2019	-	36,002	31,779	67,781	669,726
Ma	February 2019	9,026	-	50,646	59,671	610,055
νo.	March 2019 ⁶	76,234	15,700	(28,139)	63,795	546,260
Idde	April 2019	27,186	(11,423)	(93)	15,670	530,590
	May 2019	8,238	(2,366)	13,346	19,218	511,372
	June 2019	7,006	(4,670)	23,693	26,028	485,344
	July 2019	-	28,762	(21,934)	6,829	478,515
Ending	Perchlorate Mass	123,273	128,120	227,122		478,515

Notes:

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.

6 - AP-5 wash water was transferred out of Process Tanks T-201 and T-202 into Process Tank T-203 starting

in March 2019 to provide consistent concentrations and perchlorate to ammonia ratios for feed to the FBRs.

		Estimated Monthly Mass Added (lbs) ³	Total Monthly Mass Removed (lbs)	Total Perchlorate Mass In Process Tanks (Ibs)
Initial P	Perchlorate Mass ¹			601,380
	July 2017 ²		13,520	587,860
	August 2017 ²		6,000	581,860
	September 2017		10,706	571,154
p	October 2017		49,990	521,163
νοι	November 2017		74,231	446,933
Ren	December 2017		73,066	373,867
ass	January 2018		69,363	304,504
Approx. Mass Removed	February 2018		73,247	231,257
(oud	March 2018		25,321	205,935
Ap	April 2018		7,030	198,905
	May 2018 ^{4 5}	151,078	11,126	338,857
	June 2018⁵	227,250	9,337	556,770
	July 2018⁵	341,180	9,343	888,608
Perchlo	orate Mass After Pon	d Solids Removal ⁵		939,750
	August 2018		11,710	928,040
	September 2018		9,777	918,264
_	October 2018		35,943	882,320
vea	November 2018		61,959	820,361
emo	December 2018		64,395	755,966
ss R	January 2019		57,196	698,770
May	February 2019		59,301	639,469
.xo	March 2019		43,614	595,855
Approx. Mass Removed	April 2019		9,820	586,035
A.	May 2019		13,081	572,954
	June 2019		11,009	561,945
	July 2019		8,394	553,551
Ending	Perchlorate Mass			553,551

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

Ending Perchlorate Mass

Notes:

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.

		Mass in T-201 (lbs)	Mass in T-202 (lbs)	Mass in T-203 (lbs)	Total Monthly Mass Removed (lbs)	Total Ammonia Mass In Process Tanks (lbs)	
Initial Ammonia Mass ¹		18,217	22,343	20,277		60,837	
	November 2017	1,323	3,979	4,490	9,792	51,045	
pa	December 2017	3,974	1,778	2,659	8,411	42,634	
Removed	January 2018	3,353	3,009	2,163	8,526	34,108	
	February 2018	2,945	1,509	3,564	8,017	26,091	
Approx. Mass	March 2018	1,445	1,441	-	2,886	23,206	
×.	April 2018	682	-	490	1,172	22,034	
pro	May 2018 ²						
Ap	June 2018	INDIVIDUAL PR			S WERE SUSPEND	DED UNTIL POND	
	July 2018		SOLIDS TRANSFER COMPLETED.				
Ending	Ammonia Mass					22,034	

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

					Total Monthly	Total Ammonia
		Mass in T-201 (Ibs)	Mass in T-202 (lbs)	Mass in T-203 (lbs)	Mass Removed (lbs)	Mass In Process Tanks (lbs)
Initial Ammonia Mass ³		56,496	42,023	42,335		140,854
	August 2018⁴	3,294	-	-	3,294	137,560
	September 2018	1,561	-	-	1,561	135,999
ved	October 2018	7,340	-	-	7,340	128,659
emo	November 2018	5,483	1,455	-	6,939	121,720
ss Ru	December 2018	-	10,263	-	10,263	111,457
Max	January 2019	-	3,998	3,699	7,697	103,760
Approx. Mass Removed	February 2019	773	-	6,045	6,818	96,942
Idd	March 2019 ⁵	11,041	2,074	(4,173)	8,942	88,000
1	April 2019	5,363	(2,253)	(548)	2,561	85,438
	May 2019	2,124	(610)	1,460	2,974	82,465
	June 2019	934	(623)	3,124	3,436	79,029
	July 2019	-	3,105	(2,313)	792	78,237
Ending	Ammonia Mass	18,583	24,613	35,041		78,237

Notes:

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.

5 - AP-5 wash water was transferred out of Process Tanks T-201 and T-202 into Process Tank T-203 starting

in March 2019 to provide consistent concentrations and perchlorate to ammonia ratios for feed to the FBRs.

Attachment A Phase III O&M Routine Inspection Forms

Date:	6/	11	9
	1	1	

Time: 1015

Inspector Initials: K41

Yes*

PROCESS PIPING INSPECTION

- 1. Observe piping between Process Tank secondary containment and FBR secondary containment.

 Any leaks, punctures, damage, bulges visible?
 Yes*
- 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: <u>4, 439, 4(0</u> (gallons)

SECONDARY CONTAINMENT INSPECTION

- 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? Yes If Yes, pump storm water into one of the Process Tanks.
 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

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

8. Visual inspection from top of each Process Tank:

	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.	es	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 <u>90</u> Oil temperature	90) °F	89	°F	89	°F

119 6/1 Date:

Inspector Initials: K4H

* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.

Time: _____

** - 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.

(Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)

run intermittenthy to reduce bearing wear. - Mixers

6 S. Hanse

Operator Signature:

EMERGENCY CONTACTS:

MERGENCY CONTACTS.	r	Phone #	Comments		
Title	Name				
	Brad Maynard	(907) 723-2646			
Site Implementation Manager	Kyle Hansen	(801) 949-6663			
Field Operations Manager		(303) 704-9527			
Project Manager	David Bohmann				
Program Manager	Dan Pastor	(303) 588-0901			
	Karen Luna	(702) 217-8173			
Site Health & Safety		(610) 348-7197			
Corporate Health & Safety	Michelle Gillie				
Process Engineer	Courtney Flores	(770) 845-6281	Reference Quote # 142770051		
		(702) 538 2292	Reference Customer # 1439334		
Emergency Generator (United Rentals)	Heath Barnard (702) 538 2292		Reference Customer # 145555		

Date: <u>6-2-19</u>	Time://00	Inspector Initials:	KSH
PROCESS PIPING INSPECTION			
 Observe piping between P Any leaks, punctures, e 	rocess Tank secondary conta damage, bulges visible?	ainment and FBR secondary Yes*	r containment.
2. Observe piping in Process Any leaks, punctures, o	Tank secondary containmen damage, bulges visible?	t area. Yes*	No
3. Record reading on Stabiliz Flowmeter:	ed Lake Mead Water (SLMW 【ろ、5ス5 (gallons)		i Tanks.

SECONDARY CONTAINMENT INSPECTION

 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? Yes If Yes, pump storm water into one of the Process Tanks.
 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

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*	<u>A</u>
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Ves	No*	NA	NA
Are transfer pumps ready for service?	res	No*	Yes	No*	es	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	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.	res	No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	Yes	Not
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste MA Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature Oil temperature	81	⊃°F	8	°F	86	°F

NN NN

Date:

Time: _____

Inspector Initials: KSH

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.)

to reduce bearing wear. Niters run interm yb J. Hannen

Operator Signature:

EMERGENCY CONTACTS:

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	m
Field Operations Manager	Kyle Hansen	(801) 949-6663	
Project Manager	David Bohmann	(303) 704-9527	2
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: $\frac{6/3}{19}$ Time: 1357	Inspector Initials:	K-GH
	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containm Any leaks, punctures, damage, bulges visible?	ent and FBR secondary Yes*	containment.
2.	Observe piping in Process Tank secondary containment are Any leaks, punctures, damage, bulges visible?	a. Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flow Flowmeter: $4,444,050$ (gallons)	wmeter east of Process	Tanks.

•	

SECONDARY CONTAINMENT INSPECTION

2.

3.

4. Perform 360 perimeter walk to observe liner system for potential wear and tear. Any leaks, punctures, or other damage visible? Yes 5. Is there storm water accumulation greater than 1 foot? 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

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?	res	No*	Yes	No*	Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	Ńo)	Yes*	No	Yes*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Ves	No	les	No	Yer	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	Not
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	90	∫ °F	9.	Z°F	93	• °F

Vo

6/3/19 Date: _

Inspector Initials: KG/

* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.

Time: _____

** - 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.)

- Mixerg run intermittently to reduce bearing wear Kyl J. Hansı Operator Signature: EMERGENCY CONTACTS: Comments Phone # Name Title (907) 723-2646 Brad Maynard Site Implementation Manager (801) 949-6663 Kyle Hansen Field Operations Manager (303) 704-9527 David Bohmann Project Manager (303) 588-0901 Dan Pastor Program Manager

Karen Luna

Michelle Gillie

Courtney Flores

Heath Barnard

(702) 217-8173

(610) 348-7197

(770) 845-6281

(702) 538 2292

Site Health & Safety

Process Engineer

(United Rentals)

Corporate Health & Safety

Emergency Generator

Reference Quote # 142770051

Reference Customer # 1439334

Date:	6/4/1	9
	17	

Time: 0945 Inspector Initials: KGH

Yes*

No

PROCESS PIPING INSPECTION

- 1. Observe piping between Process Tank secondary containment and FBR secondary containment Any leaks, punctures, damage, bulges visible? Yes* Ńο
- 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: 4,444,050 (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 5. Is there storm water accumulation greater than 1 foot? 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

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

a	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*	Ves	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	res	No*	Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	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	es	No	res	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	Not
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste MA Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>89</u> Oil temperature	8	7 °F	8	∫g °F	88	°F

Date: 6/4 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.

** - 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.)

to reduce bearing wear. Mixers sch intermitt

1 Hanser **Operator Signature:**

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:	10/51	119
_		1

Time:	0955
-------	------

Inspector Initials: K44

Yes*

PROCESS PIPING INSPECTION

- Any leaks, punctures, damage, bulges visible?
 Yes*
- 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: <u>4,446,705</u> (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
 5. Is there storm water accumulation greater than 1 foot? 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

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

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

8. Visual inspection from top of each Process Tank:

	T-2	201	T-2	202	- T-2	203
Visible oil leaks from gear box?	Yes*	No	Yes*	(No)	Yes*	(Ng)
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	Not
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	9	/ °F	9	Z°F	9	5 °F



No

Date:

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.)

to reduce - Mixers Voleous theath bearing r24 wear. Hans

Operator Signature:

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: 6/6/19 Time: 1025	Inspector Initials:	14411
PROCESS PIPING INSPECTION		
1. Observe piping between Process Tank secondary cont	ainment and FBR secondary co	ntainment.
Any leaks, punctures, damage, bulges visible?	Yes*	No
2. Observe piping in Process Tank secondary containmen	it area.	
Any leaks, punctures, damage, bulges visible?	Yes*	No
3. Record reading on Stabilized Lake Mead Water (SLMW Flowmeter: <u>4,446,705</u> (gallons)	•	nks.
SECONDARY CONTAINMENT INSPECTION		

4.	Perform 360 perimeter walk to observe liner system for potential wear and t	tear.
	Any leaks, punctures, or other damage visible?	Yes
5.	,	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

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*	res	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Ves	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	Т-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	Not
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste MA Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature Oil temperature	9	8°F	9	7 °F	9-	Z °₽

No

No

Date:

Time: _____

Inspector Initials: _____K < 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.)

Mixers run intermittently to reduce beauting wear **Operator Signature:**

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** Reference Quote # 142770051 Heath Barnard (702) 538 2292 (United Rentals) Reference Customer # 1439334

Date:	6	17	119	5
	1	1	S	

Time:	 11	10	

Inspector Initials: KSH

No

No No

PROCESS PIPING INSPECTION

1.	Observe piping between Process Tank secondary containment and FB	R secondary conta	
	Any leaks, punctures, damage, bulges visible?	Yes*	No
2.	Observe piping in Process Tank secondary containment area.		C

Any leaks, punctures, damage, bulges visible? Yes*
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks.

Flowmeter:	9,	44	8,4	550	(gallons)	

SECONDARY CONTAINMENT INSPECTION

4.	Perform 360 perimeter walk to observe liner system for potential we	ear and tear.	
	Any leaks, punctures, or other damage visible?	Yes	
5.	Is there storm water accumulation greater than 1 foot?	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

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	Т-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?	Yes	No*	Yes	No*	Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	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 Oil temperature	91	۴	97	°F	97	} °F

19 Date:

Time:

whermitten

Inspector Initials: KSH

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.)

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Operator Signature:

EMERGENCY CONTACTS:

- Mixeles run

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>6/8/9</u> Time: <u>0705</u> Ir	nspector Initials:	51-1
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment	t and FBR secondary 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) flowm	neter east of Process Tanks	5.
	Flowmeter: 4,448,850 (gallons)		
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for poten	itial wear and tear.	0
	Any leaks, punctures, or other damage visible?	Yes	No

- 5. Is there storm water accumulation greater than 1 foot?YesIf 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

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*	10	Yes*	No	Yes*	No
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	res	No*	NA	NA
Are transfer pumps ready for service?	Nes	No*	Res	No*	Aes	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*	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.	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	74	°F	75	°F	74	°F

Ne

No

Date:

Time: _

Inspector Initials: KGA

NOTES:

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** - 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.)

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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

Da	te: <u>6/9/19</u> Time: <u>12/5</u> Inspector Initials:	KSH
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.	0
	Any leaks, punctures, damage, bulges visible? Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process	Tanks.
	Flowmeter: $\underline{4,450,920}$ (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?Yes5. Is there storm water accumulation greater than 1 foot?YesIf Yes, pump storm water into one of the Process Tanks.Yes6. 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

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?**	Tes	No*	es	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-2	201	T-2	202	T-2	203
Visible oil leaks from gear box?	Yes*	No	Yes*	N9	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	No*	Yes	No*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste MA Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature 94 Oil temperature	9	4 °F	9	3 °F	94	°F

No No

Date:

Time: _

Inspector Initials: KGH

NOTES:

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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.)

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Operator Signature:

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

Da	te: <u>6/10/19</u> Time: <u>1364</u>	Inspector Initials:	Kyt
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment	nt and FBR secondary cont	ainment.
	Any leaks, punctures, damage, bulges visible?	Yes*	No
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: 4453, 420 (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 5. Is there storm water accumulation greater than 1 foot? 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

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*	es	No*	Yes	No*	NÀ	NA

8. Visual inspection from top of each Process Tank:

	T-2	01	T-2	202	T-2	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	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	No	Ye	No	S	No
Mixer running and turbulence/vortex observed?**	Yes	No	Yes	Ng*	Yes	No
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste MA Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature <u>100</u> Oil temperature	[0	(°F	(0	Z°F	102	°₽



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Yes*

Date:

Time:

Inspector Initials: KSH

NOTES:

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** - 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.)

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Operator Signature:

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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

	re: 6/11/19 Time: 1445	Inspector Initials:	2511
PRO	DCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containme	ent and FBR secondary cont	tainment
	Any leaks, punctures, damage, bulges visible?	Yes*	No
2.	Observe piping in Process Tank secondary containment area	a.	0
	Any leaks, punctures, damage, bulges visible?	Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flow	vmeter east of Process Tan	ks.
	Flowmeter: <u>4,453,420</u> (gallons)		
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
 5. Is there storm water accumulation greater than 1 foot? 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

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

	T-2	201	Т-2	02	T-2	203	T-2	204
Visible damage or leaks/stains? (inspect all welds and nozzles/valves)	Yes*	No	Yes*	No	Yes*	Ng	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

8. Visual inspection from top of each Process Tank:

	Т-2	201	Т-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.	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	10	7 °F	10	°F	10	6 °F

No

Date:

Time: _____

J. Ham

Inspector Initials: ______

NOTES:

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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.)

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Operator Signature:

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	e: 6/12/19 Time: 1305	Inspector Initials:)	247
PRC	CESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containme Any leaks, punctures, damage, bulges visible?	ent and FBR secondary contain Yes*	Ment.
2.	Observe piping in Process Tank secondary containment area Any leaks, punctures, damage, bulges visible?	a. Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flow Flowmeter: <u>4, 454, 900</u> (gallons)		
SEC	ONDARY CONTAINMENT INSPECTION		

- 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? Yes If Yes, pump storm water into one of the Process Tanks.
 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

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*	Ng
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

8. Visual inspection from top of each Process Tank:

	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?	Yes	No	es	No	res	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	No	Res	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 103 Oil temperature	[0]	5°F	10	3 °F	10	°F

No No

Date:

_____Time: _____

Inspector Initials:

KGF

NOTES:

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** - 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.)

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Operator Signature:

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	U
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:	6	1	19	
	1	l	1	

Time: 1025 Inspector Initials:

Yes*

KGH

No

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?
- 3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks. Flowmeter: 4457,085 (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 5. Is there storm water accumulation greater than 1 foot? 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

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*	Ves	No*	Yes	No*	NA	NA

	Т-2	201	T-2	202	T-a	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.	Yes	No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No	Yes	Not
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	-9	7 °F	e I	°₽	9	9 °F

Date:

Time: ____

Inspector Initials:

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NOTES:

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** - 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.)

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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: 6/14/19 Time: 0955	Inspector Initials:	125H
PR	DCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containme	ent and FBR secondary conta	ainment.
	Any leaks, punctures, damage, bulges visible?	Yes*	No
2.	Observe piping in Process Tank secondary containment area	а.	
	Any leaks, punctures, damage, bulges visible?	Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flow Flowmeter: <u>4, 157, 0, 85</u> (gallons)	vmeter east of Process Tank	s.
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for pot	ential 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.	,	Y

- 5. Is there storm water accumulation greater than 1 foot? 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

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?	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?		No	Yes	No	es	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.		No	res	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 MA Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature <u>93</u> Oil temperature	91	°F	9	O ⁰F	9:	Z°F

Date:

Time:

Inspector Initials: _____ [444

NOTES:

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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.)

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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

Date: 6/15/19 Time: 0730 Inspector Initials: KSH

Yes*

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?
- 3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks. Flowmeter: 4, 457, 085 (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 5. Is there storm water accumulation greater than 1 foot? 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

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*	Tes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Ves	No*	res	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	res	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	Not
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste ///A Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u><u></u>Oil temperature</u>	8.	5°F	84	°₽	85	۴

9 Date:

Inspector Initials: ____ KGH

NOTES:

* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.

Time:

** - 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.)

mermi - Millers CUN to reduce wear rear mo l. J. Hansn

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

Da	te: <u>6/16/19</u> Time: 07(0 Inspector Initials: <u>KGH</u>
PR	DCESS 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*
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks. Flowmeter: <u>4459, 890</u> (gallons)
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

 5. Is there storm water accumulation greater than 1 foot?
 Yes

 If Yes, pump storm water into one of the Process Tanks.
 Yes
- 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

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?	res	No*	Yes	No*	res	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	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.	Yes	No	res	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 MA Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature Oil temperature	G.	2_ °F	8	3°F	Ş.	ך ג צ

Nø

119 6/10 Date:

Time: _______

Inspector Initials: ______KH

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.)

to reduce hearing - Mikery interm Hendl run wear. e S. Hansu **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

PRC	DCESS PIPING INSPECTION
1.	Observe piping between Process Tank 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: 4, 460, 860 (gallons)

SECONDARY CONTAINMENT INSPECTION

Date:

- 4. Perform 360 perimeter walk to observe liner system for potential wear and tear. Any leaks, punctures, or other damage visible? Yes 5. Is there storm water accumulation greater than 1 foot? 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

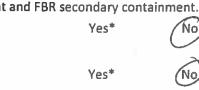
7. Perform 360 degree walk around of each tank to inspect for damage or leaks and lock out of valves:

	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*	Aes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	res	No*	Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-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?	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	es	No	res	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 MA Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>99</u> Oil temperature	9	9 °F	7	S °F	99	°F

K05 PHASE III O&M ROUTINE INSPECTION FORM



Yes*

Yes*



Time: 1428

Inspector Initials: _____KSH

119 Date:

Inspector Initials: _____

NOTES:

* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.

Time:

** - 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.)

1 due run intermit Mixws hearing wea J. Hansn **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	
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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:	6	//	Q	Ĺ
			7	

Time:	10	Û	5
			-

Inspector Initials: KSH

Yes*

PROCESS PIPING INSPECTION

19

- Any leaks, punctures, damage, bulges visible?
 Yes*
- 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: 4,460, 8660 (gallons)

SECONDARY CONTAINMENT INSPECTION

- 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? Yes If Yes, pump storm water into one of the Process Tanks.
 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

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*	Ro
All decant valves and transfer valves locked out?**	Yes	No*	es	No*	(Yes	No*	NA	NA
Are transfer pumps ready for service?	Res	No*	Ves	No*	les	No*	NA	NA

	Т-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?	res	No	Yes	No	<i>S</i>	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?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature Oil temperature	9	Ø °F	9	∂°F	9	°F

Date:

Time: ____

Inspector Initials: KG1

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.)

on intermittend ~ MILLERS reduce blartua wear. **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

K05 PHASE III O&M ROUTINE INSPECTION FORM Time: 10(0 Inspector Initials: KGH Date: **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 Water (SLMW) flowmeter east of Process Tanks. Flowmeter: 4,464, 560 (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 5. Is there storm water accumulation greater than 1 foot? Yes 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.

PROCESS TANKS AND DAY TANK INSPECTION

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

Yes

	T-2	201	T-2	202	Т-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?**	res	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-2	201	Т-2	202	Т-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.	Yes	No	Yes	No	es	No
Mixer running and turbulence/vortex observed?**	Yes	No*)	Yes	No*	Yes	Nat
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste MA Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature Oil temperature	90	f [°] F	9	Le °F	9.	°F

Date:

Time:

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Inspector Initials: K-SH

wear

NOTES:

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** - 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:

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(Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)

to reduce

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yled. 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

Date:	 6	20	119
	l		<i>,</i>

Time:	O	71	5	_

Inspector Initials: _____ KG((

Yes*

No

PROCESS PIPING INSPECTION

- 1. Observe piping between Process Tank secondary containment and FBR secondary containment Any leaks, punctures, damage, bulges visible? Yes* Ňο 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: 4,464,560 (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 5. Is there storm water accumulation greater than 1 foot? 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

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

	Т-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*	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?	fes	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	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	8	6 °F	5	7 °F	8)	7 °F

6/20/19 Date:

Time: ____

Inspector Initials: _____KSH

NOTES:

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** - 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.)

fron 5 75 mm prior to mon runina I. S. Hausen **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>6/21/19</u> Time: <u>0915</u> Inspector Initials: <u>K9/</u>	1
PR	OCESS PIPING INSPECTION	
1.	Observe piping between Process Tank secondary containment and FBR secondary containment Any leaks, punctures, damage, bulges visible? Yes*	nt. 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: 4,468,110 (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? Yes	at a

Yes

If Yes, pump storm water into one of the Process Tanks.6. Is there storm water accumulation in equipment pad sumps?:YesIf Yes, pump storm water into one of the process tanks.

PROCESS TANKS AND DAY TANK INSPECTION

5. Is there storm water accumulation greater than 1 foot?

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*	Ng
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	Tes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	T-2	201	Т-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.	es	No	es	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 MA Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature <u>85</u> Oil temperature	R.	ζ°F	Q	√ °F	83	°F

Date:

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.)

an tua wear.

Operator Signature:

Title	Name	Phone #	Comments
Site Implementation Manager	Brad Maynard	(907) 723-2646	
Field Operations Manager	Kyle Hansen	(801) 949-6663	
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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: 0/22/19 Time: 0630 Inspector Init	ials:	KSH
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR sec Any leaks, punctures, damage, bulges visible?	condary c Yes*	ontainment
2.	Observe piping in Process Tank secondary containment area.	163	
	Any leaks, punctures, damage, bulges visible?	Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Flowmeter: <u>4, 468, 110</u> (gallons)	Process T	anks.
SEG	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear and Any leaks, punctures, or other damage visible?	d tear. Yes	No
5	Is there storm water accumulation greater than 1 foot?	Yes	No
J.	If Yes, pump storm water into one of the Process Tanks.	103	No
6.	Is there storm water accumulation in equipment pad sumps?:	Yes	No

	renorm boo permeter ware to observe mer system for potential wea	r and tean	
	Any leaks, punctures, or other damage visible?	Yes	
5.	Is there storm water accumulation greater than 1 foot?	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

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-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?**		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>70</u> Oil temperature	7	(°F	70	2°F	7	∫ °F

Date:

Time:

Inspector Initials: ____ KGH

NOTES:

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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.)

inter mittenth Mitters to reduce Wear CUL bearing **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	
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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>0/23/19</u> Time: <u>0650</u> Inspector	Initials:	12441
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR Any leaks, punctures, damage, bulges visible?	secondary Yes*	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) flowmeter east Flowmeter: <u>4, 4772, 920</u> (gallons)	of Process	Tanks.
SE	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear		0
	Any leaks, punctures, or other damage visible?	Yes	NO

- 5. Is there storm water accumulation greater than 1 foot? 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

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

Q	T-2	201	T-2	202	Т-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*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-2	201	Т-2	202	Т-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	es	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?		No*	Yes	No*	Yes	No*
Ambient air temperature Oil temperature	78	۶°F	78	°F	80	୬ °F

No

Date:

Time:

Inspector Initials: _____ IL4 A

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.)

intermittenthe Mixer to reduce wear. on beache J. 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

Da	te: $\frac{6/24/19}{10}$ Time: $\frac{1640}{10}$ Inspector Initials:	K4	11
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR secondary	ary containn	1ent
	Any leaks, punctures, damage, bulges visible? Ye	s*	(No)
2.	Observe piping in Process Tank secondary containment area.		4
	Any leaks, punctures, damage, bulges visible? Ye	s*	(No)
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Proce Flowmeter: $4472,920$ (gallons)	ess Tanks.	
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear and tea	г.	2
	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.

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	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?	res	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 Oil temperature	71	٩°	7	Z ℃F	7	<mark>∠</mark> °F

Date:

Time: _____

Inspector Initials: KSH

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:

- Mixeus

(Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)

intermittently to reduce bearing where.

le & Hanson **Operator Signature:**

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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: 0/25/19 Time: 1000 Inspector Initials: KS	11
PROCESS PIPING INSPECTION	
1. Observe piping between Process Tank secondary containment and FBR secondary containment Any leaks, punctures, damage, bulges visible? Yes*	ent. No
2. Observe piping in Process Tank secondary containment area. Any leaks, punctures, damage, bulges visible? Yes*	No
 Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks. Flowmeter: <u>4,474,380</u> (gallons) 	
SECONDARY CONTAINMENT INSPECTION	

- 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? Yes If Yes, pump storm water into one of the Process Tanks.
 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

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*	res	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	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?	res	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	Not
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 Old Oil temperature	1() °F	1) () °F	10	0 °F

No

Date:

Time: _

Inspector Initials: KSH

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.)

to reduce bearing wear -202 m tour

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

Da	te: <u>6/26/19</u> Time: <u>1520</u> Inspecto	or Initials:	KSH
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and Fi	BR 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 ea Flowmeter: <u>4, 476, 120</u> (gallons)	ast of Process Ta	nks.
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential we	ar and tear.	2
	Any leaks, punctures, or other damage visible?	Yes	No
5.	Is there storm water accumulation greater than 1 foot?	Yes	No

6. Is there storm water accumulation in equipment pad sumps?: Yes If Yes, pump storm water into one of the process tanks.

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?**	Ves	No*	Yes	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	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*	No
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?	Yes	No	ves	No	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	es	No	les	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 $\underline{78}$ Oil temperature	98	ζ°F	9	€ °F	98	°F

No

Date:

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.

** - 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.)

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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

Date: $\frac{6/27/19}{17}$ Time: <u>1300</u> Inspector Initials: <u>A</u>	SA
PROCESS PIPING INSPECTION	
1. Observe piping between Process Tank secondary containment and FBR secondary containment	inment
Any leaks, punctures, damage, bulges visible? Yes*	No
2. Observe piping in Process Tank secondary containment area.	5
Any leaks, punctures, damage, bulges visible? Yes*	No
3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tank	s. 🧹
Flowmeter: 4,476.210 (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
 5. Is there storm water accumulation greater than 1 foot? 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

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	Т-2	202	Т-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?	fes	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	re	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 MA Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperatureO Oil temperature	(0	°F	10	Z-°₽	102	°F



Date:

Time: ___

Inspector Initials: _ KSH

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.)

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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

K05 PHASE III O&M ROUTINE INSPECTION FORM Time: 0925 Inspector Initials: KGH Date: **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* 3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks. 494, 120 (gallons) Flowmeter: 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? Yes If Yes, pump storm water into one of the Process Tanks.
 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

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

	Т-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	res	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	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 temperatureO Oil temperature	84	°F	8	7 °F	86	°F

Date:

Time:

Inspector Initials: KSH

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.)

hearing wea Ceduce T-201 2

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: $\frac{\left(\rho/z.9\right)}{19}$ Time: <u>0910</u> Inspector Initia	als:	KGH
PR	DCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR sec	ondary cor	ntainment.
	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 I	Process Tai	ıks.
	Flowmeter: <u>4,567,900</u> (gallons)		
SEC	ONDARY 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.		\mathcal{C}
6.	Is there storm water accumulation in equipment pad sumps?:	Yes	No

4.	renorm 500 permeter wark to observe mer system for potential wear	difu lear.
	Any leaks, punctures, or other damage visible?	Yes
5.	Is there storm water accumulation greater than 1 foot?	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

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*	Ro
All decant valves and transfer valves locked out?**	Yes	No*	les	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Ves	No*	Ves	No*	NA	NA

	Т-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?	fes	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	10*	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 <u>89</u> Oil temperature	17	۶°F	84	°F	Se) °F

Date:

Inspector Initials: KGH

NOTES:

* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.

Time:

** - 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.)

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le S. Hauser

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	1.
Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

Da	te: <u>6/30/19</u> Time: <u>1330</u> II	nspector Initials:	KGH
PR	DCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment Any leaks, punctures, damage, bulges visible?	t and FBR secondary co Yes*	ntainment. 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) flowm Flowmeter: <u>4, 571, 390</u> (gallons)	neter east of Process Ta	nks.
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for poten	ntial wear and tear.	~

- 4. Perform 360 perimeter wark to observe liner system for potential wear and tear. Any leaks, punctures, or other damage visible? Yes
 5. Is there storm water accumulation greater than 1 foot? 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

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	.02	T-2	.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*	les	No*	NA	NA
Are transfer pumps ready for service?	Ves	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?	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	res	No	Yes	No
Mixer running and turbulence/vortex observed?**	(Yes)	No*	Yes	(No*)	Yes	N∂*
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste MA Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature () () Oil temperature	17	G °F	10	(°F	9	°F



19 Date:

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.)

to reduce bearing wear intermittenth Mixers run

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	e: <u>7/1/19</u> Time: <u>0733</u>	Inspector Initials:	KSH
PRO	DCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary contain	ment and FBR secondary c	ontainment.
	Any leaks, punctures, damage, bulges visible?	Yes*	No
2.	Observe piping in Process Tank secondary containment a Any leaks, punctures, damage, bulges visible?	rea. Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) fl Flowmeter: <u>4,571,390</u> (gallons)	owmeter east of Process T	anks.
SEC	ONDARY CONTAINMENT INSPECTION		
Λ	Perform 360 perimeter walk to observe liner system for p	otential wear and tear	

4.	. Perform 360 perimeter walk to observe liner system for potential wear and tear.	
	Any leaks, punctures, or other damage visible? Yes	i
5.	Is there storm water accumulation greater than 1 foot? 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

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

č.	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*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	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?**		No*	Yes	No*	Yes	Not
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste MA Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature <u>S</u> Oil temperature	B	5°F	81	€ °F	8	5 °F

No No

Date:

_____ Time:

Inspector Initials: KSH

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.)

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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

Date:	7	121	119	
	1	1		

Time:	0937

Inspector Initials: KSH

Yes*

No

NO NO

PROCESS PIPING INSPECTION

- Observe piping between Process Tank secondary containment and FBR secondary containment.
 Any leaks, punctures, damage, bulges visible?
 Yes*
- 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: 4, 571, 510 (gallons)

SECONDARY CONTAINMENT INSPECTION

- 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? Yes If Yes, pump storm water into one of the Process Tanks.
 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

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

w	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*	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?	res	No	es	No	ves	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	res	No	ves	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	Not	Yes	No*)	Yes	Not
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 <u>93</u> Oil temperature	9	°F	91) °₽	90	°₽

Date:

Time:

Inspector Initials: KGH

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.)

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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

	te: 7/3/19 Time: 08/0 Inspec	ctor Initials:	KSH
1.	Observe piping between Process Tank secondary containment and	FBR secondary cont	ainment
	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 Flowmeter: <u>4, 571, 510</u> (gallons)	east of Process Tanl	<s.< td=""></s.<>
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential w	vear and tear.	
	Any leaks, punctures, or other damage visible?	Yes	No
5.	Is there storm water accumulation greater than 1 foot?	Yes	No

6. Is there storm water accumulation in equipment pad sumps?: Yes If Yes, pump storm water into one of the process tanks.

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	Т-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*	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?	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	res	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	8	₿°F	8	7 °F	8	7 °F

Date:

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.)

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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

Da	te: <u>- 7/4/19</u> Time: <u>0610</u> Inspector Initi	als:	KGH
PR	OCESS 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.		
	Any leaks, punctures, damage, bulges visible?	Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of F Flowmeter: $\underline{-4}, 571, 510$ (gallons)	'rocess Ta	nks.
SEC	CONDARY CONTAINMENT INSPECTION		
л	Perform 360 perimeter walk to obconve liner system for potential wear and	toor	

T +	renorm 500 perimeter wark to observe liner system for potential wear and	1001.
	Any leaks, punctures, or other damage visible?	Yes
5.	Is there storm water accumulation greater than 1 foot?	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

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*	N	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

8. Visual inspection from top of each Process Tank:

	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?	Yes	No	yes	No	ves	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 MA Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature Oil temperature	8	5°F	8	S(¢ °F	Ş	(∕ °F

No

Date:

Time: _

Inspector Initials: KSH

NOTES:

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** - 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.)

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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

Da	te: $\frac{7}{5} \frac{19}{19}$ Time: 0731	Inspector Initials:	ESH
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment		iment
	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) flow Flowmeter: <u>4,575,390</u> (gallons)	meter east of Process Tanks.	
SEG	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
5.	Is there storm water accumulation greater than 1 foot?	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

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*	es	No*	Yes	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*	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
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 Oil temperature	S	3°F	8	4 °F	8	3 °₽

No

Date:

Time:

Inspector Initials: ____K5H

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.)

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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

Da	te: 7/6/19 Time: 0730 Inspector Initials: _	RGH
PR	OCESS PIPING INSPECTION	
1.	Observe piping between Process Tank secondary containment and FBR secondar	y 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 Proces	is Tanks.
	Flowmeter: 4, 575, 630 (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? Yes	(No)

5. Is there storm water accumulation greater than 1 foot? 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

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?	res	No*	Tes	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? Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question. Mixer running and turbulence/vortex observed?** Are used oil containers labelled and stored appropriately, in accordance with the Site Waste MA Management Plan?		No	Yes	No	Yes	No
		No	Yes	No	ves	No
		Not	Yes	No	Yes	No
		No*	Yes	No*	Yes	No*
Ambient air temperature 6.2 Oil temperature	8	3°F	(፝፞ዿ፞፝፞፞ ^ኇ ₣	8	ך גר גר

Date:

Time:

Inspector Initials: KSH

NOTES:

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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.)

to reduce bearing wear - Mixers run intermittent

Operator Signature:

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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: 7/7/19 Time: <u>1310</u>	Inspector Initials:	KSH
PR	OCESS 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 area Any leaks, punctures, damage, bulges visible?	a. Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flow	vmeter east of Process Ta	nks.
	Flowmeter: 4, 575, 630 (gallons)		
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for pot	ential 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?:	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*	(es	No*	NA	NA

	T-201 T-202		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.	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 MA Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature Oil temperature	9 -	∫ °F	9	4(95	°F

Date:

Time: _____

Intermittent

Inspector Initials: _____

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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.)

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Operator Signature:

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EMERGENCY CONTACTS:

~ Mixers run

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>7/8/19</u> Time: <u>0870</u> Inspector Initial	s:	KGH
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR secor	idary con	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 Pro Flowmeter: <u>4,575, 63</u> の (gallons)	ocess Tan	ks.
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear and to	ear.	0

 Any leaks, punctures, or other damage visible?
 Yes

 5. Is there storm water accumulation greater than 1 foot?
 Yes

 If Yes, pump storm water into one of the Process Tanks.
 Yes

 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

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?**	res	No*	Ves	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	Т-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	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 MA Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature Oil temperature	K	3 °F	8	Z_°F	8-	3°F

Date:

Time: ___

Inspector Initials: _____KAH

NOTES:

* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.

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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.)

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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

Da	te: <u>7/9//9</u> Time: <u>1455</u> Inspector Init	ials:/	KSH
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR sec Any leaks, punctures, damage, bulges visible?	ondary conta Yes*	inment.
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: 4,579,450 (gallons)	Process Tanks	
SEC	ONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear and	d tear.	m
	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?:YesIf 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*	res	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 Process Tank:

	T-2	201	Т-2	202 🔪	Т-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.	Yes	No	res	No	es	No X
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	Yes	Nø*
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	10	Cf °F	10	24 °F	10	3 °₽

No

Date:

Time:

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.)

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gl. J. 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

	KUST HASE III OGIAI KOOTHAE IAST ECHOA FORM	
Da	ate: $\frac{7}{10}/19$ Time: 0922 Inspector Initials:	KSH
PR	ROCESS PIPING INSPECTION	
1.	Observe piping between Process Tank secondary containment and FBR secondary contain	ment
	Any leaks, punctures, damage, bulges visible? Yes*	No
2.	Observe piping in Process Tank secondary containment area.	$\overline{\mathcal{A}}$
	Any leaks, punctures, damage, bulges visible? Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks.	_
	Flowmeter: 4,579, 450 (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? Yes 5. Is there storm water accumulation greater than 1 foot? 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

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*	Tes	No*	Yes	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*	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	(res	No	res	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 ///A Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature <u>92</u> Oil temperature	90) °F	- 90	ク°F	91	∕ °F

KOS PHASE III O&M ROLITINE INSPECTION FORM



Date: _7/10/19

Time: _____

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Lo reduce beaving

Inspector Initials: ____/KSH

Wlav

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.)

Operator Signature:

Mixeus

fel. Have

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: Time:373	Inspector Initials:	K41
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containm	nent and FBR secondary cont	ainment
	Any leaks, punctures, damage, bulges visible?	Yes*	No
2.	Observe piping in Process Tank secondary containment are	2a.	0)
	Any leaks, punctures, damage, bulges visible?	Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flo Flowmeter: <u>4, 579, 450</u> (gallons)	wmeter east of Process Tank	S.

SECONDARY CONTAINMENT INSPECTION

- 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? Yes If Yes, pump storm water into one of the Process Tanks.
 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

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

	Т-:	201	Т-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*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes) No*	Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-2	201	Т-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.	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 Oil temperature		∕°F	- []	۴	- 11	Ø °F

No

Date:

Time: _____

Inspector Initials: KGG

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.)

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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

Date:	7	112	119	L
	1	1		_

Time:	0838

Inspector Initials: _

Yes*

KGH

No

PROCESS PIPING INSPECTION

 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?

3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks. Flowmeter: 4, 501,060 (gallons)

SECONDARY CONTAINMENT INSPECTION

 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? Yes If Yes, pump storm water into one of the Process Tanks.
 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

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*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	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?		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	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 95 Oil temperature	9	5 °F	9	5°₽	96	, °F

Date:

1/2/19

Time: _

Inspector Initials:

KSH

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.)

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J. Hansu

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

Dater	7	131	10
Date:		1.4	

Time: 0845



PROCESS PIPING INSPECTION

1.	Observe piping between Process Tank secondary containment and FBR	secondary cont	
	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: 4, 582, 800 (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 5. Is there storm water accumulation greater than 1 foot? 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

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	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	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	9	Û °F	9	°F.	9	۴

Date:

Time: _____

Inspector Initials: ____KS//

NOTES:

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** - 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.)

intermittentl to reduce run plaring

gle S. Hansu

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

Date:	7/14/19	
-------	---------	--

Time: 0630 Inspector Initials: 1641

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?
- 3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks. Flowmeter: 4, 582, 800 (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 5. Is there storm water accumulation greater than 1 foot? 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

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	DNo*	res	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-201		T-202		Т-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	res	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 MA Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature <u>84</u> Oil temperature	Ę	54°F	Č	}5 °F	8	4 °F



Yes*

Date:

Time: _____

Dan Pastor

Karen Luna

Michelle Gillie

Courtney Flores

Heath Barnard

Inspector Initials: ____KSH

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:

Program Manager

Process Engineer

(United Rentals)

Emergency Generator

Site Health & Safety

Corporate Health & Safety

(Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)

- Mixers run intermittenthe to reduce bearing wear. ol. 1. Haven Operator Signature: _ **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

(303) 588-0901

(702) 217-8173

(610) 348-7197

(770) 845-6281

(702) 538 2292

Reference Quote # 142770051

Reference Customer # 1439334

Dat	e: <u>7/15/19</u> Time: <u>1445</u>	Inspector Initials:/	K 411
PRO	DCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment	nt and FBR secondary contai	nment
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
2.	Observe piping in Process Tank secondary containment area	•	2
	Any leaks, punctures, damage, bulges visible?	Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flow	meter east of Process Tanks.	\bigcirc
	Flowmeter: $4,583,080$ (gallons)		
SEC	ONDARY CONTAINMENT INSPECTION		

 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? Yes If Yes, pump storm water into one of the Process Tanks.
 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
- 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

	Т-2	201	Т-2	202	Т-2	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	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Yes	No	Yes	No	Yer	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	(No*)	Yes	Nor
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste ///A Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature Oil temperature	1	4 °F		7 °F		2_ °F



19 Date:

____ Insp

Inspector Initials: ____ KGH

NOTES:

* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.

Time:

** - 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:

Project Manager

Program Manager

Process Engineer

Site Health & Safety

Corporate Health & Safety

(Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)

to reduce bearing WormHenth Mixerz **run** Wla **Operator Signature: EMERGENCY CONTACTS:** Title Phone # Name Comments Site Implementation Manager **Brad Maynard** (907) 723-2646 **Field Operations Manager** Kyle Hansen (801) 949-6663

(303) 704-9527

(303) 588-0901

(702) 217-8173

(610) 348-7197

(770) 845-6281

Emergency Generator (United Rentals)	Heath Barnard	(702) 538 2292	Reference Quote # 142770051 Reference Customer # 1439334

David Bohmann

Dan Pastor

Karen Luna

Michelle Gillie

Courtney Flores

Dat	te: <u>7/16/19</u> Time: <u>1510</u> Inspector Initia	als: Ke	+ H
PR	DCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR second	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 P Flowmeter: <u>4,583,260</u> (gallons)	rocess Tanks.	
SEC	ONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear and	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?: Yes 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*	10
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

8. Visual inspection from top of each Process Tank:

	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?	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	les	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?	4 Yes	No*	Yes	No*	Yes	No*
Ambient air temperatureOil temperature	115	°F)/.	2_ °F	11	€ [°] F

No)

19 Date:

Inspector Initials: _____

KG H

NOTES:

* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.

Time:

** - 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.)

ALLEVS on ern : 14 glons

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

	te: 7/17/19 Time: 1325 Inspector Initi OCESS PIPING INSPECTION	als:K	-511
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 I Flowmeter: <u>4,595, 3,10</u> (gallons)	Process 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

6. Is there storm water accumulation in equipment pad sumps?: Yes If Yes, pump storm water into one of the process tanks.

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

8. Visual inspection from top of each Process Tank:

	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?	Yes	No	Tes	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	fes	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 MA Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperatureOCOil temperature	10	5°F	10	4°F	10	₽°F

Nc

Date:

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.)

Hendly to reduce bearing wear 1 IN of SLMW to T-201 to make up cal

Operator Signature:

EMERGENCY CONTACTS:

Title Name Phone # Comments Site Implementation Manager **Brad Maynard** (907) 723-2646 **Field Operations Manager Kyle Hansen** (801) 949-6663 David Bohmann **Project Manager** (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** Reference Quote # 142770051 Heath Barnard (702) 538 2292 (United Rentals) Reference Customer # 1439334

Da	te: <u>7/18/19</u> Time: <u>0950</u>	Inspector Initials:	511
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary contains	nent and FBR secondary contair	iment,
	Any leaks, punctures, damage, bulges visible?	Yes*	(No)
2.	Observe piping in Process Tank secondary containment an	ea.	
	Any leaks, punctures, damage, bulges visible?	Yes*	No
3.	Record reading on Stabilized Lake Mead Water (SLMW) flo	owmeter east of Process Tanks.	\smile
	Flowmeter: 4, 596, 480 (gallons)		
SEC	ONDARY CONTAINMENT INSPECTION		

4.	Perform 360 perimeter walk to observe liner system for potential we	ear 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.		0
6.	Is there storm water accumulation in equipment pad sumps?:	Yes	Ng
	If Yes, pump storm water into one of the process tanks.		\cup

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*	Ng
All decant valves and transfer valves locked out?**	Yes	No*	Yes	No*	res	No*	NA	NA
Are transfer pumps ready for service?	Yes	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?	Yes	No	Yes	No	res	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	Not
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	9	3 °F	7	ζ°F	94	°F

Date: _ 8/19

Time: _____

l.J. Haven

Inspector Initials: KGH

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.)

in to reduce hearing wear - Mixeus run intermittent

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

Da	te: <u>7/19/19</u> Time: <u>10/0</u> ir	nspector Initials:	KSIL
Date: 1010 Inspector Initials: 1010 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* 3. Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of Process Tanks. Flowmeter: 1500 (gallons) SECONDARY CONTAINMENT INSPECTION 4. Perform 360 perimeter walk to observe liner system for potential wear and tear.			
1.	Observe piping between Process Tank secondary containment	t and 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.		neter east of Process Ta	nks.
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for poten	itial wear and tear.	G
	Any leaks, punctures, or other damage visible?	Yes	No

 Any leaks, punctures, or other damage visible?
 Yes

 5. Is there storm water accumulation greater than 1 foot?
 Yes

 If Yes, pump storm water into one of the Process Tanks.
 Yes

 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

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*	res	No*	Yes	No*	NA	NA
Are transfer pumps ready for service?	res	No*	Yes	No*	Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	T-2	01 A	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	tes	No	res	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	Ves	No	es	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 MA Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature Oil temperature	9	6 °F	9	7 °F	91	∩ °F

No

Date:

Inspector Initials: KSH

to reduce

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.)

Hand

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Time:

Operator Signature:

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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

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Date: 1/20/19 Time: 0720	Inspector Initials:	-41
PROCESS PIPING INSPECTION		
1. Observe piping between Process Tank secondary containme	ent and FBR secondary containr	nent.
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) flow	meter east of Process Tanks.	0
Flowmeter: 4,598, 180 (gallons)		

SECONDARY CONTAINMENT INSPECTION

4.	Perform 360 perimeter walk to observe liner system for potential we	ar 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?:	Yes	Ng
	If Yes, pump storm water into one of the process tanks.		0

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*	Nø
All decant valves and transfer valves locked out?**	Yes	No*	fes	No*	(Tes)	No*	NA	NA
Are transfer pumps ready for service?	Ves	No*	Ves	No*	Yes	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	Т-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?	fes	No	Yes	No	yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	les	No	fes	No	res	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*	Yes	Nor
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste MA Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperature6_4_ Oil temperature	K.	7 °F	8	5°F	85	°F

K-51(

Date:

7/20/19

Time:

Inspector Initials: ____K44

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.)

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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: 7/21/19 Time: 0850 Inspector Initia	als: <u>K</u>	SH
PR	DCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR second	ondary containi	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 P	rocess Tanks.	\smile
	Flowmeter: 4, 598, 180 (gallons)		
SEC	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. 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

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?	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	es	No	res	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>0</u> Oil temperature	9.	2 °F	9) °F	91	°F

Date:

Time:

Inspector Initials: _____KGH

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.)

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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

Data	7	177	119	
Date:		124		

Time:	 0	8	7	$\underline{\mathcal{O}}$	

Inspector Initials:

Yes*

K511

PROCESS PIPING INSPECTION

- Any leaks, punctures, damage, bulges visible?
 Yes*
- 2. 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: 4.599, 540 (gallons)

SECONDARY CONTAINMENT INSPECTION

 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? Yes If Yes, pump storm water into one of the Process Tanks.
 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

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*	Ves	No*	Yes	No*	NA	NA

	T-2	201	T-3	202	T-2	203 📉
Visible oil leaks from gear box?	Yes*	No	Yes*	No	Yes*	Mo
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*	res	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 <u>92</u> Oil temperature	10)ζ°F	9-	7 °F	19	°F

Date:

Time: ___

Inspector Initials: KGH

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.)

mern Ne educe - MHUS bearing wear, NUM U.S. Hanse **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

Da	te: <u>7/23/19</u> Time: <u>1530</u> Inspector Ini	tials:	K-914
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR se	condary contail	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 Flowmeter: <u>4, 599, 590</u> (gallons)	Process Tanks.	
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear an	d 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?: Yes 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*	res	No*	NA	NA
Are transfer pumps ready for service?	Yes	No*	res	No*	es	No*	NA	NA

8. Visual inspection from top of each Process Tank:

	Т-2	201	T-202		T-203	
Visible oil leaks from gear box?	Yes*	No)	Yes*	(Ng	Yes*	Ng
Has routine wash down of precipitate/crystals on tank sides and mixer impeller been completed?		No	Yes	No	ves	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?**	Yes	No*	Yes	No*	Yes	No#
Are used oil containers labelled and stored appropriately, in accordance with the Site Waste MA Management Plan?	Yes	No*	Yes	No*	Yes	No*
Ambient air temperatureO Oil temperature	1.0) { °F	10	5°F	10	5°F

(No

Date:

Time: _____

Inspector Initials:

KGH

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.)

VILLE to reduce rangferred allong of process water From T- 202

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



	OCESS PIPING INSPECTION Observe piping between Process Tank secondary containment and FBR secondary containment. Any leaks, punctures, damage, bulges visible? Yes* Observe piping in Process Tank secondary containment area. Any leaks, punctures, damage, bulges visible? Yes* No									
Da	te: <u>7/24/19</u> Time: <u>0830</u> Inspector	Initials:	KGH							
PR	OCESS PIPING INSPECTION									
1.		·								
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: $4,599,760$ (gallons)	t of Process Tan	ks.							
SE	CONDARY CONTAINMENT INSPECTION									
4.	Perform 360 perimeter walk to observe liner system for potential wear									
-	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-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?**	Ves	No*	Yes	No*	fes	No*	NA	NA
Are transfer pumps ready for service?	es	No*	Yes	No*	Yes	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*	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	res	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 MA Management Plan?	Yes	No*	Yes	No*	Yęs	No*
Ambient air temperature Oil temperature	90)°F	91	°F	90	°F

Date:

Time: ____

Inspector Initials:

KSH

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.)

netermittentl Mixus to reduce FUN bearing Wear.

Operator Signature:

ylid. Hansin

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>7/25/19</u> Time: <u>1330</u> Inspe	ctor Initials:	KSA
PR	DCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and Any leaks, punctures, damage, bulges visible?	l FBR secondary o Yes*	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 Flowmeter: <u><u>H</u>, <u>603</u>, <u>250</u> (gallons)</u>	east of Process	īanks.
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential v Any leaks, punctures, or other damage visible?	wear and tear. Yes	No

- 5. Is there storm water accumulation greater than 1 foot? 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

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

8. Visual inspection from top of each Process Tank:

	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	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 MA Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperatureO C Oil temperature	107	°F	10	′ ≤ °F	10	َح °F

No No

Date:

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.)

to reduce - Mixerg intermitte hearing CUN wear

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

	te: 7/26/19 Time: 0920 Inspector Initia	als:	241
1.	Observe piping between Process Tank secondary containment and FBR second	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 P Flowmeter: <u>4, 603, 250</u> (gallons)	rocess Tanks	
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.		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-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?	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?	Yes	No	es	No	Yes	No
Mixer off as part of sediment washing process? If Yes, draw an "X" through answers to next question.	res	No	Yes	No	Yes	No
Mixer running and turbulence/vortex observed?**	Yes	No*	Yes	No*)	Yes	Not
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	1	4 °F	9	Z °F	9	2_ °F

Date:

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.

** - 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.)

Mixens run inter mitters to reduce planing weer.

Operator Signature:

yes Haven

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 ROUTINE INSPECTION FORM Time: 0610 Inspector Initials: KSH Date: _ **PROCESS PIPING INSPECTION** 1. Observe piping between Process Tank secondary containment and FBR secondary containment. Yes* Any leaks, punctures, damage, bulges visible? 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: 4 603,250 (galions) 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 5. Is there storm water accumulation greater than 1 foot? 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

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		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*	res	No*	NA	ŇA
Are transfer pumps ready for service?	Yes	No*	Yes	No*	Yes	No*	NA	NA

	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?	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	Res	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	9	∕) °F	8	°F	9	°F

Date:

Time:

Inspector Initials:

NOTES:

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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.)

Fun intermittently to reduce bearing wear MIXERS

Operator Signature:

yles. Hanse

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: 7/28/19 Time: 0620 Inspec	tor Initials:	KGH
PRO	DCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and Any leaks, punctures, damage, bulges visible?	FBR secondary co 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 Flowmeter: <u>4, 603, 250</u> (gallons)	east of Process Ta	anks.
SEC	ONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential w Any leaks, punctures, or other damage visible?	vear and tear. Yes	No
5.	Is there storm water accumulation greater than 1 foot? If Yes, pump storm water into one of the Process Tanks.	Yes	R
6.	Is there storm water accumulation in equipment pad sumps?: If Yes, pump storm water into one of the process tanks.	Yes	

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		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*	es	No*	Res	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.	es	No	Nes	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 MA Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature Oil temperature	9	(°F	9	2°F	9	Z_ °F

Date:

Time: _

Inspector Initials: KSH

NOTES:

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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.)

intermittently to reduce bearing wear LENS [UU

Operator Signature:

Kyl I. Hansen

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>1/29/19</u> Time: <u>0950</u> Insp	ector Initials:	KSH
PR	OCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment an	nd FBR secondary 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)
	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter Flowmeter: $4, 603, 250$ (gallons)	er east of Process T	anks.
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential	I 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.		V.
6.	Is there storm water accumulation in equipment pad sumps?:	Yes	No
	If Yes, pump storm water into one of the process tanks.		V

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		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
Yes*	No	Yes*	Na	Yes*	NO
res	No	Yes	No	Yes	No
Tes	No	Yes	No	Yes	No
Yes	No*	Yes	No	Yes	Nor
Yes	No*	Yes	No*	Yes	No*
9	9°F	10	5 / °F	10	/ °F
	Yes* (res) (res) Yes	Yes No Yes No Yes No*	Yes*NoYes*YesNoYesYesNoYesYesNo*YesYesNo*Yes	Yes*NoYes*NoYesNoYes*NoYesNoYesNoYesNoYesNoYesNo*YesNo*YesNo*YesNo*	Yes*NoYes*NoYes*resNoresNoresresNoresNoresresNoresNoresresNoresNoresresNoresNoresresNo*resNo*resresNo*resNo*res

Date:

Time: _

____ Inspector Initials: K&H

NOTES:

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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.)

to reduce bearing wear internittently Mixlers run

Operator Signature:

ales Hanny

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:	als:	Kill
PR	DCESS PIPING INSPECTION		
1.	Observe piping between Process Tank secondary containment and FBR sec Any leaks, punctures, damage, bulges visible?	ondary conta Yes*	ainment
2.	Observe piping in Process Tank secondary containment area. Any leaks, punctures, damage, bulges visible?	Yes*	No
	Record reading on Stabilized Lake Mead Water (SLMW) flowmeter east of I Flowmeter: <u>4,603,250</u> (gallons) (4, 60 CONDARY CONTAINMENT INSPECTION	'rocess Tank	5.
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.	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:

÷.1	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	res	No	res	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	Ng*
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>100</u> Oil temperature		2°F	10	(°F	(0	Z °F

Date:

Time:

Inspector Initials: KSA

NOTES:

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** - 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.)

intermittently to reduce peaving allong 0 make 10 e valachative 1448

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

	ite: 7/31/19 Time: 0845 Inspector Ir	iitials:	KGH
1.	Observe piping between Process Tank secondary containment and FBR s	econdary c	ontainment
1.	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: <u>4, 6, 14, 6, 10</u> (gallons)	of Process T	anks.
SEC	CONDARY CONTAINMENT INSPECTION		
4.	Perform 360 perimeter walk to observe liner system for potential wear a	nd tear.	\cap
	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-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	.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	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 MAN Management Plan?		No*	Yes	No*	Yes	No*
Ambient air temperature <u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	9	O °F	91	°F	90) °F

31/19 Date: 7

Time: _____ Inspector Initials: ______K4K

NOTES:

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COMMENTS:

(Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)

to reduce inter mithently Mixeus run bearing wear.

Operator Signature:

61.7

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

Attachment B Phase III O&M Monthly Inspection Forms

		K05 PHASE III O&M MONTHLY INSPECTION FO	RM	
Dat	e: _	<u>6/30/19</u> Time: <u>0830</u> Inspector Initials: _	JR	
INS	PEC	T MATERIALS AND PARTS		
1.	Are	all spare parts present?: If no, list which parts need to be ordered and inform Site Implementation M	Yes anager:	No
2.	Are	all safety materials, resources, and supplies to perform work present? If no, list what needs to be ordered and inform Site Implementation Manage	(Yes)	No

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	$\overline{\mathbf{V}}$	
P-202		
P-203	Ī	
P-204	$\overline{\mathbf{V}}$	
P-205		
P-206	V	

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-2	T-201		T-202		T-203		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*	(N_0)	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*
Visible damages to the alarm cords and cables?	Yes*	(No)	Yes*	No	Yes*	(No)	Yes*	(No)

Notes:_____

KUS PHASE III U&IVI IVIUNTIMET INSPECTION FORIVI

Date:

Time: 0830

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**	95/4, 5 hrs	9588.6 hrs	9652,9 hrs

INSPECT MAINTENANCE ITEMS

6. Check if equipment requiring maintenance is in good condition and working order. Provide the date of next required maintenance and contact the Site Implementation if anything is in need of maintenance:

	Date of Next	
	Replacement or	
Activity	Maințenance	Comments
Replace 3" decant transfer hoses	8/1/2019	
Replace 3" solid transfer hoses	8/1/2019	
Replace 1.5" SLMW flush hose	2/15/2020	
Replace 3" stainless steel doublesphere expansion joints	8/1/2019	
Replace air compressor filter element	10/16/2022	
Service air compressor	1/26/2021	
Change process tank mixer gear box oil**	1/4/2020_	
Grease gear seals on process tank mixer	12/21/2011	

NOTES:

* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.

** - Date of next oil change is approximate. The timing for process tank mixer gear box oil change is based on actual run time (10,000 hours). Each mixer ran for the following hours after the last oil change and prior to control panel set up, and these hours need to be added to the control panel readings to arrive at the total run time for the mixers:

M-201 = 1,276.2 hours, M-202 = 1,253.2 hours, M-203 = 1,277.5 hours

COMMENTS:

(Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)

Operator Signature:

K05 PHASE III O&M MONTHLY INSPECTION FORM

Date: <u>6/30/19</u> T

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 INSPE	CTION FOR	IVI	
Date:	<u>7/29/19</u> Time: <u>1000</u> Inspect	tor Initials:	JR	
NSPE	CT MATERIALS AND PARTS			
l. Ar	re all spare parts present?: If no, list which parts need to be ordered and inform Site Implen	nentation Man	Yes	No
l. Ar	re all safety materials, resources, and supplies to perform work pre If no, list what needs to be ordered and inform Site Implementa		Yes	No

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	$\overline{\mathbf{V}}$	
P-202	$\overline{\mathbf{V}}$	-
P-203	$\overline{\mathbf{V}}$	-
P-204	V	-
P-205	$\overline{\mathbf{A}}$	-
P-206	$\overline{\mathbf{A}}$	_

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 – 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*
Visible damages to the alarm cords and cables?	Yes*	(No)	Yes*	(No)	Yes*	No	Yes*	(No)

Notes:____

K05 PHASE III O&M MONTHLY INSPECTION FORM

Date:

Time: 1000

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?	No*	Yes No*	Yes No*
Control panel mixer run time**	9520,6 hrs	<i>9589,3</i> hrs	9654.0 hrs

INSPECT MAINTENANCE ITEMS

6. Check if equipment requiring maintenance is in good condition and working order. Provide the date of next required maintenance and contact the Site Implementation if anything is in need of maintenance:

	Date of Next Replacement or	
Activity	Maintenance	Comments
Replace 3" decant transfer hoses	8/1/2019	
Replace 3" solid transfer hoses	8/1/2019	
Replace 1.5" SLMW flush hose	2/15/2020	
Replace 3" stainless steel doublesphere expansion joints	8/1/2019	
Replace air compressor filter element	10/16/2022	
Service air compressor	1/26/2021	
Change process tank mixer gear box oil**	114/2020	
Grease gear seals on process tank mixer	12/2/2019	

NOTES:

* - Notify Site Implementation Manager immediately if any of these conditions are observed and thoroughly document on this form and through photographs.

** - Date of next oil change is approximate. The timing for process tank mixer gear box oil change is based on actual run time (10,000 hours). Each mixer ran for the following hours after the last oil change and prior to control panel set up, and these hours need to be added to the control panel readings to arrive at the total run time for the mixers:

M-201 = 1,276.2 hours, M-202 = 1,253.2 hours, M-203 = 1,277.5 hours

COMMENTS:

(Describe all "yes" answers, any observed damage, any areas that could not be inspected and the reason, etc.)

€. RR Operator Signature:

K05 PHASE III O&M MONTHLY INSPECTION FORM

Date: _______ Time: ______ 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