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PERMITS TO CONSTRUCT/MODIFICATION

APPLICANT'S NAME: LUNDAY-THAGARD COMPANY

MAILING ADDRESS: 9302 GARFIELD AVENUE
SOUTH GATE, CA 90280

EQUIPMENT ADDRESS: 9301 GARFIELD AVENUE
SOUTH GATE, CA 90280

FACILITY ID NO.: 800080
RECLAIM NOx Cycle 2 Facility
RECLAIM SOx Cycle 2 Facility

EQUIPMENT DESCRIPTION:

FACILITY PERMIT SECTION H					Conditions
PROCESS 2	SYSTEM 2				
TREATING/STRIPPING	TANK VENT LINE H2S REMOVAL SYSTEM				
Description	ID No.	Connected To	RECLAIM Source Type	Emissions* And Requirements	Conditions
SCRUBBER, PACKED BED, V-510, SULFUR SCRUBBING MEDIA, 6,000 LBS, IN-SERIES , HEIGHT: 8 FT; DIAMETER: 4 FT A/N: 543241 556996 Permit to Construct Issued: 03/22/13 <u>DATE OF ISSUANCE</u>	C239	D35 D38 D39 D40 D45 D46 D47 D48 D49 D50 D51 D52 D68 D71 D74 C97 C240 D251 D252			E193.2, E193.4, E193.5
SCRUBBER, PACKED BED, V-511, SULFUR SCRUBBING MEDIA, 6,000 LBS, IN-SERIES , HEIGHT: 8 FT; DIAMETER: 4 FT A/N: 543241 556996 Permit to Construct Issued: 03/22/13 <u>DATE OF ISSUANCE</u>	C240	D35 D38 D39 D40 D45 D46 D47 D48 D49 D50 D51 D52 D68 D71 D74 C97 C239 D251 D252			E193.2, E193.4, E193.5
BLOWERS, BL-514 AND BL-515, ONE STANDBY-BY, COMMON TO C239 AND C240, 3 HP A/N: 543241 556996 Permit to Construct Issued: 03/22/13 <u>DATE OF ISSUANCE</u>	D242				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 543241 556996 Permit to Construct Issued: 03/22/13 <u>DATE OF ISSUANCE</u>	D244				H23.17

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FACILITY PERMIT SECTION H					Conditions
PROCESS 5	SYSTEM 1				
STORAGE TANKS	FIXED ROOF				
Description	ID No.	Connected To	RECLAIM Source Type	Emissions* And Requirements	Conditions
STORAGE TANK, FIXED ROOF, NO. 413, 20000 GALS; DIAMETER 12 FT; HEIGHT: 24 FT A/N: 382981 556994 Permit to Construct Issued: <u>DATE OF ISSUANCE</u>	D38	<u>C239</u> <u>C240</u>			B22.3, H23.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 414, 20000 GALS; DIAMETER 12 FT; HEIGHT: 24 FT A/N: 382983 556993 Permit to Construct Issued: <u>DATE OF ISSUANCE</u>	D39	<u>C239</u> <u>C240</u>			B22.3, H23.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 415, 20000 GALS; DIAMETER 12 FT; HEIGHT: 24 FT A/N: 382984 556992 Permit to Construct Issued: <u>DATE OF ISSUANCE</u>	D40	<u>C239</u> <u>C240</u>			B22.3, <u>H23.2</u> , K67.2
STORAGE TANK, FIXED ROOF, STEAM HEATED, NO. 6606, DISTILLATE, ASPHALT, WITH INTERNAL STEAM COILS, <u>WITH MIXER</u> , 6600 BBL; DIAMETER: 32 FT; HEIGHT: 48 FT WITH A/N: 380750 556991 Permit to Construct Issued: <u>DATE OF ISSUANCE</u>	D70	C203			C6.8, H23.2, K67.2
CONDENSER, PACKED, 55-GAL DRUM, WITH STEEL WOOL	C203	D70			D12.5, D322.1
STORAGE TANK, FIXED ROOF, STEAM HEATED, NO. 4208, WITH INTERNAL STEAM COILS, 4200 BBL; DIAMETER: 25 FT; HEIGHT: 48 FT WITH A/N: 380751 556995 Permit to Construct Issued: <u>DATE OF ISSUANCE</u>	D71	<u>C204</u> <u>C239</u> <u>C240</u>			C6.9, H23.2, K67.2
CONDENSER, PACKED, 55-GAL DRUM, WITH STEEL WOOL	C204	D71			D12.5, D322.1

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STORAGE TANK, FIXED ROOF, STEAM HEATED, NO. 1232, ASPHALT, WITH MIXER, 1200 BBL; DIAMETER: 15 FT; HEIGHT: 40 FT WITH A/N: 344480 556990 Permit to Construct Issued: DATE OF ISSUANCE	D127	C128			A63.1, C1.4, C6.2, E71.1, H23.1
CONDENSER, PACKED, 55-GAL DRUM, WITH STEEL WOOL	C128	D127			D12.2

BACKGROUND

Lunday-Thagard Co. (LTR) operates a petroleum refinery located at 9302 Garfield Avenue in the city of South Gate. Lunday-Thagard is a small petroleum refinery that receives heavy crude oil from various sources and produces primarily asphalt. Other lighter end products such as gas oil and naphtha are produced and shipped to other refineries for further processing.

LTR is proposing to connect four existing tanks (D38, D39, D40, and D71) to vent to the existing tank vent line sulfur treatment system (C239/C240), which is then routed to incinerator I-301 (C97) for increased air pollution control. Currently, tanks D38, D39, and D40 vent to atmosphere, and tank D71 vents to a 55-gallon drum packed with steel wool for control of visible emissions. Tanks C239 and C240 are incorrectly listed on the permit as being in series, they are actually operated as per Condition E193.2 with one in operation and one in stand-by. The “in series” description will be deleted from the permit.

Additionally, LTR is proposing to add a side-entry mixer to two storage tanks (D70 and D127). These two tanks will continue to each be vented to a 55-gallons drum packed with steel wool for visible emission control.

PERMIT HISTORY

On October 8, 2013, the District received six (6) modification permit to construct applications, an administrative change application and a RECLAIM/Title V Permit Amendment for the following applications listed in Table 1.

Table 1: List of Applications covered in this evaluation

AN	Status/Type	Equipment Descr./Device No.	Proposed Permit Action
556989	21/85	N/A	Facility Permit Amendment
556990	20/50	Storage tank No. 1232 (D127)	Add mixer to tank
556991	20/50	Storage tank No. 6606 (D70)	Add mixer to tank
556992	20/50	Storage tank No. 415 (D40)	Vent to C239/C240
556993	20/50	Storage tank No. 414 (D39)	Vent to C239/C240
556994	20/50	Storage tank No. 413 (D38)	Vent to C239/C240
556995	20/50	Storage tank No. 4208 (D71)	Remove venting to condenser C204, vent to C239/C240
556996	21/63	Tank vent H2S removal system (C239/C240)	Administrative change to update connections to D38, D39, D40, & D71

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COMPLIANCE RECORD REVIEW

The following was taken from the District's Compliance Tracking System for the period from June 1, 2011 through June 1, 2014. None of the NCs or NOVs, nor any complaints, apply to these tanks or sulfur treatment system.

Table 2: NOVs and NCs

Ticket Number	Ticket Type	Violation date	Violation Description	Current Status
P34686	NOV	05/16/13	RULE 1173 – VOC LEAK > 50,000 PPM FOUND DURING BLUE SKY INSPECTION	In Compliance
P34690	NOV	07/01/12	RULE 2004 – INACCURATE QCER FOR 3 RD QUARTER OF 2012 RECLAIM PERIOD	In Compliance
P34685	NOV	07/01/11	RULE 2004 – INACCURATE QCER FOR 1 ST AND 2 ND QUARTER OF 2011 RECLAIM PERIOD	In Compliance

Rule 301 Fee Evaluation

The following fees are applicable to these applications.

Table 3: Rule 301 Fees

A/N	Equipment	Type	Fee Schedule	Fee Required	Fees Paid, \$	R301 Amend Date
556989	Facility Permit Amendment	85	-	\$1,824.90	\$1,824.90	7/1/2013
556990	Storage Tank No.1232 (D127)	50	C	\$3,508.86	\$3,508.86	7/1/2013
556991	Storage Tank No. 6606 (D70)	50	C	\$3,508.86	\$3,508.86	7/1/2013
556992	Storage Tank No. 415 (D40)	50	C	\$3,508.86	\$3,508.86	7/1/2013
556993	Storage Tank No. 414 (D39) <small>50% of fee for identical equipment</small>	50	C	\$1,754.43	\$1,754.43	7/1/2013
556994	Storage Tank No. 413 (D38) <small>50% of fee for identical equipment</small>	50	C	\$1,754.43	\$1,754.43	7/1/2013
556995	Storage Tank No. 4208 (D71)	50	C	\$3,508.86	\$3,508.86	7/1/2013
556996	Tank Vent H2S removal system	63	-	\$725.03	\$1,450.06	7/1/2013
TOTAL:				\$20,094.23	\$20,819.26	
				Net Fee Due:	(\$725.03)	

A refund of \$725.03 will be due to LTR for a duplicate fee submittal for the Tank Vent H2S system.

PROCESS DESCRIPTION

LTR is 10,000 BPD asphalt topping plant and refinery. Prior to, during, and after the refining process, materials are stored in storage tanks. Many of the storage tanks are connected to the refinery's vapor recovery system where they are first vented to a sulfur treatment system (C239/C240) and then vented to LTR's Incinerator I-301 (C97) with over 98% VOC destruction efficiency. LTR has continuous monitoring to ensure that the vent gas from the tank vent line H2S removal system feeding the incinerator remains below NSPS Subpart J limits.

Currently, D71 is connected to a 55-gallon drum condenser for control of visible emissions. D38, D39, and D40 are currently vented to atmosphere. LTR is proposing to connect all 4 of these tanks to the existing sulfur treatment system (C239/C240) which then vents to the Incinerator (C97). By adding this connection to the vapor recovery system, sulfur and VOC emissions will be reduced, with no increase in visible emissions.

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Additionally, LTR is proposing to add a side entry mixer to D127 and D70, similar to many of the existing storage tanks at the facility which also have mixers.

EMISSIONS CALCULATIONS

Tanks D127 and D70 are having mixers added as part of this permit action, the mixers will be added where there is already a fitting for a manhole, so only two components will be added for the mixer on each tank. No other changes to commodity or throughput are requested, so the only increases are because of the fugitive components, increases of 0.05 lb/day VOC per tank. See Attachment A for the fugitive emissions numbers and calculations, which are summarized as increases below in Table 5.

Tanks D38, D39, and D40 currently vent to atmosphere. Tank D71 currently vents to a carbon drum for control of visible emissions. Connection to the sulfur treatment system and then to incinerator C97 will reduce emissions. There are minor increases in VOC emissions because of fugitive components. See Attachment A for the fugitive emissions numbers and calculations, which are summarized as increases below in Table 5.

Previous source tests of C97 indicate over 98% VOC destruction efficiency. A source test dated 10/21/2009 showed 99.96% efficiency; a source test dated 11/8/2012 showed 99.95% efficiency. Since the increase in vent gases going to the tank vent line sulfur treatment system followed by incinerator C97, the performance of the tank vent line sulfur treatment system and C97 is expected to remain unchanged at > 98% efficiency. A VOC emissions decrease from connecting tanks D38, D39, D40, and D71 to vapor recovery is expected.

The current capacity of Incinerator C97 is 14 MMBtu/hr, which is equivalent to 7200 dscfm when corrected to 15% O₂. The latest source test dated 11/8/12 showed that the incinerator has about 6010 dscfm currently venting to the incinerator, with 35 dscfm attributed to 11 storage tanks. Adding 4 additional storage tanks that will vent to C97 should not increase the flow rate beyond the capacity of the incinerator.

Since they are pre-NSR tanks, the VOC emission decreases for tanks D38, D39, D40 and D71 are based on the average throughputs from the AERs from the two years (2011 & 2012) prior to submission of this application. The AERs and application indicate that these 4 tanks store Gas Oil. See attachment B for the 2011 and 2012 AER tank throughputs and MSDS for Gas Oil. A summary of the throughputs for each tank is listed below in Table 4. The emissions using the average throughput were then run through EPA Tanks 4.0 for Gas Oil aka LVGO (see Attachment C for the Tanks 4.0 output). An emission reduction of 98% of the incinerator C97 was taken into account to show the emissions decreases from connecting the equipment to vapor recovery. See Table 5 below for a summary of the emissions increases from fugitives and decreases from connection to vapor recovery.

Table 4: AER throughput summary

<u>Device No.</u>	<u>Material Stored</u>	<u>2011 AER Throughput (gal/yr)</u>	<u>2012 AER Throughput (gal/yr)</u>	<u>2 year average throughput (gal/yr)</u>
D38 (Tank 413)	Gas Oil	208,380	4,237,720	2,223,050
D39 (Tank 414)	Gas Oil	2,592,800	4,237,720	4,915,260
D40 (Tank 415)	Gas Oil	208,380	4,237,720	2,223,050
D71 (Tank 4208)	Gas Oil	50,782,960	37,302,330	44,042,645

Table 5: Summary of Emission Increases and Decreases

<u>Device No.</u>	<u>Increase (lb/day)</u>	<u>Decrease (lb/day)</u>	<u>Net Change (lb/day)</u>
D38 (Tank 413)	0.12	-0.73	-0.61

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D39 (Tank 414)	0.08	-1.07	-0.99
D40 (Tank 415)	0.10	-0.73	-0.61
D70 (Tank 6606)	0.05	NA	+0.05
D71 (Tank 4208)	0.15	-9.51	-9.36
D127 (Tank 1232)	0.05	NA	+0.05
Total Emissions Change			-11.47

EVALUATION AND RULE REVIEW:

Rule 212 – Standards for Approving Permits, Amended Nov. 14, 1997

- 212(a) The storage tank modifications and connections to the sulfur treatment system will operate without emitting air contaminants in violation of the provision of Division 26 of the State Health & Safety Code and District rules.
- 212(c)(1) This facility is not located within 1,000 ft of any school.
- 212(c)(2) A 30-day public notice is not required since there is no increase in emissions.
- 212(c)(3)(A) Not applicable. The MICR is less than one in a million for each permit unit.
- 212(d)-(h) Not applicable.

Rule 401 – Visible Emissions, Amended Nov. 9, 2001

Visible emissions are not expected under normal operation. Although the drum condenser which controlled visible emissions will be removed from D71, it is expected that connection to the vapor recovery will be more than sufficient to control any visible emissions.

Rule 402 – Nuisance, Adopted May 7, 1976

Nuisance complaints are not expected with properly maintained equipment. Compliance with rule is expected.

Rule 463 – Organic Liquid Storage, Amended May 6, 2005

These tanks store the following compounds:

<u>Device No.</u>	<u>Tank No.</u>	<u>Tank Capacity (gal) [bbl]</u>	<u>Commodities Stored</u>	<u>Rule 463 Vapor Pressure Limit (psi)</u>
D38	413	20,000 [476]	Gas Oil	1.5
D39	414	20,000 [476]	Gas Oil	1.5
D40	415	20,000 [476]	Gas Oil	1.5
D70	6606	277,200 [6,600]	Asphalt, Distillate	0.5
D71	4208	176,400 [4,200]	Gas Oil	0.5
D127	1232	50,400 [1,200]	Asphalt	0.5

Lunday-Thagard has permit conditions (either vapor pressure conditions, or temperature conditions which limit the vapor pressure) so that the vapor pressures of materials stored in these tanks is less than 0.5 psia or 1.5 psia, in order to comply with Rule 463. These tanks are also tagged to either H23.1 or H23.2, indicating that they are subject to Rule 463. Continued compliance is expected.

Rule 1149 – Storage Tank Cleaning and Degassing, Amended July 14, 1995

VOC emissions during cleaning and degassing of these storage tanks are to be controlled by one of the control methods mentioned in this rule. Compliance is expected.

Rule 1173 – Fugitive Emissions of Volatile Organic Compounds, Amended Dec. 6, 2002

Lunday-Thagard Co.
File: AN 556990

Permit to Construct Evaluation

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Rule 1173 categorizes leak types and stipulates maintenance & reporting requirements for fugitive components. LTR will add any new fugitive components installed as a result of these modification into their existing 1173 inspection and maintenance program. Compliance is expected.

Rule 1178 – Further Reductions of VOC Emissions from Storage Tanks at Petroleum Facilities, Amended April 7, 2006

This rule is applicable to this facility since it is a petroleum refinery with facility wide VOC emissions exceeding the 20 tons/year VOC threshold. This rule applies to all aboveground storage tanks that have capacity equal to or greater than 75,000 liters (19,815 gallons) and are used to store organic liquids with a true vapor pressure greater than 5 mm Hg (0.1 psi) absolute under actual storage conditions.

For Tanks D38, D39, D40, & D71:

Rule 1178 is applicable to tanks greater than 19,815 gallons that are used to store organic liquids with a true vapor pressure greater than 0.1 psi. The gas oil stored in tanks D38, D39, D40 and D71 is generally under 0.1 psi, however under heated conditions and as allowed per permit conditions, may be as high as 0.5 psi, so therefore could be subject to Rule 1178. As part of this application, these tanks are to be connected to vapor recovery, so will comply with Rule 1178.

- 1178(d)(4)(A)(i) Incinerator C97, the control device for these storage tanks, has a control efficiency of >95% which is greater than that specified by the rule. Previous source tests of C97 on 10/21/2009 and 11/8/2012 indicate over 99% VOC destruction efficiency. Compliance is expected.
- 1178(d)(4)(A)(ii) Tank gauging or sampling device on tanks shall be equipped with a vapor-tight cover, which shall be closed at all times, with no visible gaps. The roof of the tanks shall be properly maintained to be vapor-tight and free of holes, tears and uncovered openings. Compliance is expected.
- 1178(d)(4)(A)(iii) All openings on the roof shall be properly installed and maintained in vapor tight condition. Compliance is expected.
- 1178(d)(4)(A)(iv) The tanks are already each equipped with pressure-vacuum vents that are set to the lesser of 10% below the maximum working pressure of the roof or 0.5 psig, similarly to other tanks at the facility. Continued compliance is expected.
- 1178(d)(4)(A)(v) The pressure-vacuum vents will be operated in vapor-tight condition at all times except when the operating pressure of a tank exceeds the manufacturer's recommended setting. Compliance is expected.
- 1178(e) The tanks are permanently identified.
- 1178(f)(3)(A) LTR has previously done performance testing of this equipment to demonstrate the efficiency of the control device. Continued compliance is expected.
- 1178(f)(3)(B) LTR currently does quarterly leak inspections, continued compliance is expected.

*For Tanks D70 & D127:
Lunday-Thagard Co.
File: AN 556990*

Permit to Construct Evaluation

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Rule 1178(i)(3) states that organic liquids that are stored at above ambient temperatures with a true vapor pressure greater than 5 mm Hg (0.1 psi) absolute under actual storage conditions shall be determined as those whose volume percent evaporated is greater than ten percent at an adjusted temperature TAdj as determined by ASTM Method D-86 of:

$$T_{Adj} = 300 \text{ }^\circ\text{F} + T_1 - T_a$$

Where:

T₁ = Liquid Storage Temperature (°F)

T_a = Ambient Temperature (°F) = 70°F

ASTM Method D-86, <https://law.resource.org/pub/us/cfr/ibr/003/astm.d86.2007.pdf>, is designed for the analysis of distillate fuels; it is not applicable to products containing appreciable quantities of residual material. The test method determines quantitatively the boiling range characteristics of: light and middle distillates, automotive spark-ignition engine fuels, aviation gasolines, turbine fuels, regular and low sulfur diesel fuels, special petroleum spirits, naphthas, white spirits, kerosene, and Grades and 2 burner fuels. Since this test method cannot be used to test asphalt materials due to high quantities of residual material, it is determined that tanks storing asphalt (i.e. Tanks D70 and D127) are not subject to this rule.

REGULATION XIII – New Source Review

1303(a) – BACT The increase in VOC emissions due to these modifications is less than 1 lb/day for each source, therefore, BACT is not required.

1303(b) There is no net emission increase (rather, there is a net emission decrease) therefore the provisions of 1303(b) do not apply.

REGULATION XIV – Toxics and Other Non-Criteria Pollutants

Rule 1401 – New Source Review of Toxic Air Contaminants, Amended March 4, 2005

This rule specifies limits for maximum individual cancer risk (MICR), cancer burden, and non-cancer acute and chronic hazard index (HI) for new permit units, relocations, or modifications to existing permits which emit toxic air contaminants (TAC).

Rule 1401(g)(1)(B) exempts modification of permit units with no increase in cancer burden, MICR, or chronic HI at any receptor location. The modifications of D38, D39, D40, and D71 result in a net decrease in emissions, so there is no increase in the cancer burden, MICR or the chronic HI at any receptor location. Therefore the modifications to D38, D39, D40 and D71 are not subject to the requirements of Rule 1401(d).

The modifications to D70 and D127, however, result in a small emissions increase. The increase in VOC is 0.05 lb/day on each of these tanks. Asphalt is stored in these tanks, and the MSDS for Asphalt indicates that is it ~0.1 wt % Hydrogen Sulfide. At ~0.1 wt % Hydrogen sulfide, 0.00005 lb/day (0.00000208 lb/hr) of Hydrogen Sulfide might be emitted by each permit unit.

Tier 1 screening analysis was performed to determine the maximum one-hour and annual average emission rates of TAC released to atmosphere from the addition of fugitive components to connect the mixers to tanks D71 and D127. The results of the health risk assessment are summarized in Table 6. (See Attachment D for Rule 1401 Tier 1 risk screening and MSDS for asphalt)

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Table 6: Results of Health Risk Assessment

Tier 1 Results			
D70		D127	
Cancer/Chronic ASI	Acute ASI	Cancer/Chronic ASI	Acute ASI
5.50E-05 passed	9.92E-05 passed	5.50E-05 passed	9.92E-05 passed

- 1401(d)(1) Tier 1 calculation shows the increase in MICR is less than one in one million at any receptor location; cancer burden is less than 0.5. Compliance is expected.
- 1401(d)(2) The tanks passed Tier 1 Chronic HI screening.
- 1401(d)(3) The tanks passed Tier 1 Acute HI screening.
- 1401(d)(4) The risk per year is less than 1/70 of the one in one million allowable risk at any receptor location in residential area. Since the MICR is less than one in a million, the risk per year is less than 1/70th this value.

REGULATION XX – RECLAIM PERMITS

There are no changes in either NOx or SOx emissions, Regulation XX is not applicable.

REGULATION XXX – TITLE V PERMITS

Lunday-Thagard Co. was issued a final Title V operating permit on October 29, 2009. This application is classified as a minor permit revision as defined in 3000(b)(15). Minor revisions are exempt from public participation per 3006(c), but are required to be submitted to the EPA per 3003(j)(1)(B) and the State per 3003(m)(1). The proposed minor permit revision shall be submitted to the EPA and State.

STATE REGULATIONS

California Environmental Quality Act (CEQA)

The applicant has submitted 400-CEQA Forms, California Environmental Quality Act Applicability, indicating that CEQA documents are not required.

FEDERAL REGULATIONS

NSPS for Petroleum Refinery – 40CFR60 Subpart J

§60.104: Standards for sulfur dioxide.

- §60.104(a)(1): LTR has a sulfur treatment system serving the storage tank vent line which is installed so that no fuel gas will be burned in C97 that contains hydrogen sulfide (H2S) in excess of 160 ppm. As part of this permitting action the several of the storage tanks will be connected to this sulfur treatment system prior to incineration. No impact to current compliance to C97 is expected.

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§60.105: **Monitoring of emissions and operations.**

§60.105(a)(4): LTR has installed a CEMS for continuously measuring and monitoring the concentration of H2S in the fuel gases before being burned incinerator C97. Continued compliance is expected.

NSPS for Petroleum Refinery Equipment VOC Leaks – 40CFR60 Subpart GGGa

Applicability: Pursuant to §60.590a(a)(3), the fugitive components contained in the sulfur treatment system is an affected facility. Since LTR is also a petroleum refinery, this subpart is applicable. The sulfur treatment system has been and will remain subject to the provisions of this Subpart. Continued compliance is expected.

§60.592a: **Standards.**

The standard specifies what the leak thresholds are for prospective fugitive components as well as the timeframe to make repairs. This standard also specifies recordkeeping and reporting requirements.

RECOMMENDATION:

It is recommended that Permits to Construct be issued in the Facility Permit Section H subject to the following conditions:

DEVICE ID.	FP COND. NO.	CONDITION	
D127	A63.1	The operator shall limit emissions from this equipment as follows:	
		CONTAMINANT	EMISSIONS LIMIT
		Visible emissions	Less than or equal to 0 Percent opacity
		[40CFR 60 Subpart UU, 8-5-1983] [Devices subject to this condition: D127]	
D38 D39 D40	B22.3	The operator shall not use this equipment with materials having a(n) true vapor pressure of 1.5 psia or greater under actual operating conditions.	
		[RULE 1303(b)(2)-Offset, 5-10-1996 RULE 463, 11-4-2011]	
		[Devices subject to this condition: D38, D39, D40] <i>This condition was incorrectly tagged to these devices in 2001 or 2002. These tanks are pre-NSR and not subject to offsets. The pressure limit of 1.5 psia was put into place for purposes of Rule 463, and thus this condition will be tagged to Rule 463 instead of Rule 1303.</i>	
D127	C1.4	The operator shall limit the throughput to no more than 150000 barrels in any one year. [RULE 1303(b)(2)-Offset, 5-10-1996] [Devices subject to this condition: D127]	

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DEVICE ID.	FP COND. NO.	CONDITION
D127	C6.2	<p>The operator shall use this equipment such that the temperature being monitored, as indicated below, does not exceed 450 Deg F.</p> <p>To comply with this condition, the operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the storage tank.</p> <p>[RULE 204, 10-8-1993; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]</p> <p>[Devices subject to this condition: D127]</p>
D70	C6.8	<p>The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, does not exceed 490 Deg F.</p> <p>To comply with this condition, the operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature of the liquid stored in the storage tank.</p> <p>The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.</p> <p>[RULE 204, 10-8-1993; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]</p> <p>[Devices subject to this condition: D70]</p>
D71	C6.9	<p>The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, does not exceed 249 Deg F.</p> <p>To comply with this condition, the operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature of the liquid stored in the storage tank.</p> <p>The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.</p> <p>[RULE 204, 10-8-1993; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]</p> <p>[Devices subject to this condition: D71]</p>
D127	D12.2	<p>The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the filter. The operator shall determine and record the parameter being measured once per month.</p> <p>[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]</p> <p>[Devices subject to this condition: D127]</p>

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DEVICE ID.	FP COND. NO.	CONDITION
D70 D71	D12.5	<p>The operator shall install and maintain a(n) pressure sensing device to accurately indicate the water level of the water seal in the drum condenser.</p> <p>The continuous pressure monitoring shall include a low level alarm, which shall be set at 20 inches water column.</p> <p>If the pressure falls below 20 inches water column, the operator shall conduct a visual inspection and take necessary action immediately to bring the pressure above 20 inches water column.</p> <p>The operator shall maintain the tank vent line discharge no more than 17 inches from the bottom of the drum condenser.</p> <p>[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]</p> <p>[Devices subject to this condition: D70,D71]</p> <p><i>As the condenser drum will be removed from D71, this condition is no longer applicable.</i></p>
D70 D71	D322.1	<p>The operator shall perform a weekly inspection of the drum condenser and filter, to assure that proper water level is maintained in the drum and the filter is in good operating condition.</p> <p>[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]</p> <p>[Devices subject to this condition: D70, D71]</p> <p><i>As the condenser drum will be removed from D71, this condition is no longer applicable.</i></p>
D127	E71.1	<p>The operator shall only use this equipment to store asphalt with a flash point not less than 475 deg. F.</p> <p>[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 204, 10-8-1993]</p> <p>[Devices subject to this condition: D127]</p>

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DEVICE ID.	FP COND. NO.	CONDITION														
C239 C240	E193.2	<p>The operator shall operate and maintain this equipment as follows:</p> <p>Two vessels total: one in operation, the other on stand-by.</p> <p>[1303(b)(2)-Offset, 5-10-1996; 1303(b)(2)-Offset, 12-6-2002]</p> <p>[Devices subject to this condition: C239, C240]</p>														
C239 C240	E193.4	<p>The operator shall operate and maintain this equipment as follows:</p> <p>During media change-out operations, spent media shall:</p> <ol style="list-style-type: none"> 1) Be placed immediately into sealed containers after removal. 2) During breaks in media removal activities, all vessels and/or containers containing spent media shall be sealed and not exposed to the atmosphere. <p>[Rule 402, 5-7-1976]</p> <p>[Devices subject to this condition: C239, C240, C246, C247]</p>														
C239 C240	E193.5	<p>The operator shall operate and maintain this equipment as follows:</p> <p>Equipment shall only receive displaced gases from C217, C218, or C219 when such vessels are out of services for media removal operations.</p> <p>For purposes of this condition, displaced gases are the off-gases from degassing unit C217, C218, and C219 when in stand-by mode and not operating as the sulfur control device for the crude units.</p> <p>[Rule 402, 5-7-1976]</p> <p>[Devices subject to this condition: C239, C240]</p>														
D127	H23.1	<p>This equipment is subject to the applicable requirements of the following rules or regulations:</p> <table border="1"> <thead> <tr> <th>Contaminant</th> <th>Rule</th> <th>Rule / Subpart</th> </tr> </thead> <tbody> <tr> <td>VOC</td> <td>District Rule</td> <td>463</td> </tr> <tr> <td>VOC</td> <td>District Rule</td> <td>1149</td> </tr> <tr> <td>PM</td> <td>40CFR60, SUBPART</td> <td>UU</td> </tr> </tbody> </table> <p>[RULE 1149, 7-14-1995; RULE 1149, 5-2-2008; RULE 463, 5-6-2005; RULE 463, 11-4-2011; 40CFR 60 Subpart UU, 8-5-1983]</p> <p>[Devices subject to this condition: D127]</p>			Contaminant	Rule	Rule / Subpart	VOC	District Rule	463	VOC	District Rule	1149	PM	40CFR60, SUBPART	UU
Contaminant	Rule	Rule / Subpart														
VOC	District Rule	463														
VOC	District Rule	1149														
PM	40CFR60, SUBPART	UU														
D38 D39	H23.2	<p>This equipment is subject to the applicable requirements of the following rules or regulations:</p>														

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DEVICE ID.	FP COND. NO.	CONDITION		
		Contaminant	Rule	Rule / Subpart
D40 (added) D70 D71		VOC	District Rule	463
		VOC	District Rule	1149
		<p>[RULE 1149, 7-14-1995; RULE 1149, 5-2-2008; RULE 463, 5-6-2005; RULE 463, 11-4-2011]</p> <p>[Devices subject to this condition: D38, D39, <u>D40</u>, D70, D71]</p> <p><i>Condition H23.2 was missing from D40, however records from the Title V permit issuance and from A/N 382984 indicate that this condition should be tagged to D40, so it will be added back in.</i></p>		
D244	H23.17	This equipment is subject to the applicable requirements of the following rules or regulations:		
		Contaminant	Rule	Rule / Subpart
		VOC	District Rule	1173
		VOC	40CFR60, SUBPART	GGGa
<p>[RULE 1173, 5-13-1994; RULE 1173, 2-6-2009; 40CFR 60 Subpart GGGa, 6-2-2008]</p> <p>[Devices subject to this condition: D244]</p>				
D38 D39 D40 D70 D71	K67.2	The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):		
		Throughput and vapor pressure of stored liquid		
		<p>[RULE 1178, 4-7-2006; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 463, 5-6-2005 11-4-2011]</p> <p>[Devices subject to this condition: D38, D39, D40, D70, D71]</p>		

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List of Attachments:	
A	Fugitive Emissions Calculations
B	2011 and 2012 AER tank Throughputs & Gas Oil MSDS
C	EPA Tanks 4.0 Results
D	Rule 1401 calculations and Asphalt MSDS