

5. Briefly describe the type of business and processes at your facility.

World Oil Refining's ("World Oil") facility is a petroleum refinery that processes crude oil into asphalt. Non-asphalt byproducts (naphtha, light distillate oil, and vacuum gas oils) are shipped to other companies (including motor fuel refineries) for further processing.

World Oil petitions the Hearing Board for this variance because World Oil needs to shut down the facility for several hours to complete the replacement of an uninterruptable power supply ("UPS") to provide backup power to the vapor incinerator (C97), the distributed control system ("DCS"), Control Room, and critical safety equipment and instrumentation. Following two breakdown incidents linked to the existing UPS on April 15 and May 5, 2025, resulting in a shutdown of the refinery, both of which were timely reported to the District, it became clear that the existing UPS requires replacement due to its age and the unavailability of spare parts, as the manufacturer no longer supports the existing UPS system.

Subsequently, World Oil obtained and has partially installed a replacement UPS system. The new UPS is physically in place; however, to finish installing the replacement UPS, World Oil will need to deenergize the facility's main power supply so that the UPS can safely be integrated into the facility's power systems. During this work to complete installation of the new UPS, the facility will be without main or backup power.

Prior to undertaking this work to complete installation of the new UPS, as well as during the variance period, World Oil will cease all active refinery operations, including operation of incinerator C97, the refinery crude unit, asphalt blowing operations, wastewater treatment plant, storage tanks, asphalt loading operations, and all unloading operations.

However, solar radiation during the variance period could result in emissions (breathing losses) from facility storage tanks, and any such emissions cannot be vented to C97 as C97 will be without power. As such, World Oil requests a variance allowing it to temporarily shut down the refinery and incinerator and vent the vapor recovery header for the storage tanks and wastewater system components ("Tank Vent System") to an alternative control device with control efficiency equivalent to incinerator C97 while the work is being performed. Because the facility will be without power, all storage tanks will be "still" (i.e., no materials will be moved into or out of the tanks), and the wastewater treatment plant will be down.

In addition, World Oil will be unable to comply with permit conditions requiring continuous monitoring of natural gas flow, refinery gas flow, temperature, storage tank levels, and atmospheric pressure release devices. All equipment, including monitoring equipment, will be without power during the installation of the UPS backup power supply, such that World Oil will not be able to comply with permit conditions requiring such monitoring during this limited time. As such, World Oil also requests that this variance permit it to pause such continuous monitoring during the variance period.

The power outage is estimated to last four hours, but variance coverage is requested for 24 hours in the event World Oil encounters unanticipated circumstances.

Given the limited duration and straightforward nature of the variance request, and given the absence of excess emissions, World Oil proposes that this matter be heard on the consent calendar, and World Oil's counsel will reach out to District counsel to discuss this request.

6. List the equipment and/or activity(s) that are the subject of this petition (see Attachment A, Item 6, Example #1). **Attach copies of the Permit(s) to Construct and/or Permit(s) to Operate for the subject equipment. For RECLAIM or Title V facilities, attach *only* the relevant sections of the Facility Permit showing the equipment or process and conditions that are subject to this petition. You must bring the entire Facility Permit to the hearing.**

Equipment/Activity	Application/ Permit No.	RECLAIM Device No.	Date Application /Plan Denied (if relevant)*
Storage Tanks:			
Storage Tank 413, Fixed Roof, LVGO, 20,000 gals	556994	D38	
Storage Tank 414, Fixed Roof, LVGO, 20,000 gals	564027	D39	
Storage Tank 415, Fixed Roof, LVGO, 20,000 gals	556992	D40	
Storage Tank 418, Fixed Roof, LVGO, Naphtha, Gas Oil, Light Distillate Oil, 20,305 gals	603730	D286	
Storage Tank 419, Fixed Roof, Naphtha, Gas Oil, 20,106 gals	493999	D47	
Storage Tank 420, Fixed Roof, Naphtha, Gas Oil, 20,106 gals	633905	D48	
Storage Tank 421, Fixed Roof, Naphtha, Gas Oil, 20,106 gals	620870	D49	
Storage Tank 422, Fixed Roof, Naphtha, Gas Oil, Kerosene, 20,106 gals	620871	D50	
Storage Tank 2029, Fixed Roof, Steam Heated, Asphalt, 2000 bbl	578906	D58	
Storage Tank 10027, Fixed Roof, Steam Heated, Asphalt, 10000 bbl	589462	D62	
Storage Tank 2025, Fixed Roof, Steam Heated, Asphalt, 2000 bbl	613090	D64	
Storage Tank 10028, Fixed Roof, Asphalt, 10000 bbl	5S9463	D66	
Storage Tank 423, Fixed Roof, Naphtha, Gas Oil, Light Distillate Oil, 20,305 gals	597148	D284	
Storage Tank 3503, Fixed Roof, Slop Oil, Waste Water, 3700 bbls	539681	D252	
Storage Tank 3504, Fixed Roof, Slop Oil, Waste Water, 4029 bbls	588765	D270	
Storage Tank 4208, Fixed Roof, LVGO, 4200 bbls	556995	D71	
Storage Tank 4207, Fixed Roof, Steam Heated, Asphalt, 4200 bbl	635652	D73	
Storage Tank 4210, Fixed Roof, Steam Heated, Asphalt, 4200 bbl	635653	D75	
Storage Tank 8705, Fixed Roof, Crude, 8700 bbls	498827	D35	
Storage Tank 10001, Fixed Roof, Crude, 10,307 bbls	540826	D251	
Storage Tank 2709, Fixed Roof, Steam Heated, 2956 bbl	586970	D267	
Storage Tank 10002, Fixed Roof, Crude, 10,307 bbls	585687	D269	
Storage Tank 5540, Fixed Roof, Steam Heated, Asphalt, 232657 gals	634118	D292	
Storage Tank 2036, Fixed Roof, Asphalt, 2000 bbl	578905	D123	
Storage Tank 2026, Fixed Roof, Asphalt, 2000 bbl	578904	D152	
Storage Tank 1233, Fixed Roof, Steam Heated, Asphalt, 1200 bbl	645903	D129	
Storage Tank 1231, Fixed Roof, Steam Heated, Asphalt	575578	D125	
Wastewater Components:			
Oil Water Separator, Fixed Roof, 72,000 gpd	622795	D222	
Air Flotation Unit, DAF, Circular	622795	D237	

Storage Tank Line H2S Scrubbers:			
Scrubber, Packed Bed, V-510, 6000 lbs	622796	C239	
Scrubber, Packed Bed, V-511, 6000 lbs	622796	C240	
Incinerator C97:			
Incinerator, I-301, Natural Gas, Process Gas, 14 MMBTU/HR	612433	C97	
Equipment with Atmospheric PRDs			
Crude Tower C-101	607637	D6	
Vacuum Tower C-104	563995	D7	
Vacuum Tower C-105	563995	D8	
Asphalt Blowing Still V-1	CI4209	D80	
Asphalt Blowing Still V-2	CI4210	D81	
Asphalt Blowing Still V-3	CI4211	D82	
Asphalt Blowing Still V-4	636839	D83	
Asphalt Blowing Vapor Line	N/A	N/A	
SulfaTreat Vessel V-401	438515	C217	
SulfaTreat Vessel V-402	438515	C218	
SulfaTreat Vessel V-403	438515	C219	
Heaters / Boilers			
Heater, H-501, Road Oil, Natural Gas	474534	D19	
Heater, Huertey Petrochem, Atmospheric Distillation	641012	D20	
Heater, Joy, Vacuum Charge, Natural Gas	339698	D84	
Boiler (North), Natural Gas, Cleaver-Brooks	461247	D214	
Boiler, Natural Gas, English	459810	D231	

*Attach copy of denial letter

7. Briefly describe the activity or equipment, and why it is necessary to the operation of your business. A schematic or diagram may be attached, in addition to the descriptive text.

World Oil plans to shut down its facility and vapor incinerator (C97) for an expected four hour period sometime between November 14 and December 31, 2025. The actual date of the outage will be dependent on the availability of the portable vapor control device. The purpose of this shutdown is to complete the installation of the UPS backup power supply.

C97 currently serves as the primary vapor recovery/control system for the facility and receives vapors from fifteen storage tanks, the wastewater treatment system, asphalt blowing operations, asphalt truck loading operations, and refining operations.

World Oil petitions for variance coverage for the time the facility and C97 are offline as, during this time, it will not be able to vent to C97 emissions which may occur from the storage tanks and wastewater system components. World Oil would like the variance to permit it to vent this equipment to a portable air pollution control device with a control efficiency equivalent to C97's control efficiency.

In addition, World Oil will be unable to comply during the variance period with permit conditions requiring continuous monitoring of natural gas flow, refinery gas flow, temperature, storage tank levels, and atmospheric pressure release devices. All equipment, including monitoring equipment, will be without power during the installation of the UPS backup power supply, such that World Oil will not be able to comply with permit conditions requiring such monitoring during this limited time.

There will be no asphalt blowing, asphalt loading, unloading, or other refinery operations during the time C97 is

offline. No wastewater system emissions are anticipated, but the line venting the wastewater system also vents the storage tanks, and as such, the wastewater system also needs to be vented to the alternative control device that will be used to control the storage tanks during the variance period.

Tank Breathing Losses

When C97 is offline, the tanks connected to C97 may experience emissions caused by the heat of the day (breathing losses) that would, if no alternative control measures are taken, escape to the atmosphere. These tanks include: D35, D38, D39, D40, D47, D48, D49, D50, D71, D251, D252, D269, D270, D284, and D286, which are used to store naphtha, crude oil, vacuum gas oils, light distillate oil, waste water, and slop oil (the "Storage Tanks"). Accordingly, World Oil proposes to vent the Storage Tanks to an alternative control device during the variance period, such that there will be no excess emissions.

Vapors collected from the Storage Tanks and wastewater treatment system ("Tank Vent System") pass through H2S scrubbers C239 and C240 (the "Storage Tank Line H2S Scrubbers") and are continuously monitored for H2S concentration. A portable, temporary control device will be located downstream of the Storage Tank Line H2S Scrubbers; therefore, vapors collected by the Tank Vent System will be controlled for H2S by the existing, permitted systems throughout the variance period. The owner/operator of the portable vapor control device will monitor for H2S in accordance with their permit.

Wastewater System Emissions

The Tank Vent System also captures vapors from the wastewater system components D222 (an API separator) and D237 (a dissolved air flotation unit) (together, the "Wastewater Components"). As a result, any vapors collected from the Wastewater Components would be controlled by the proposed portable control device that will also serve the Storage Tanks; however, no such emissions are anticipated.

Monitoring

During the installation of the UPS backup power supply, the refinery will be completely without power and no backup power, such that all continuous emissions monitoring systems ("CEMS") will also be powered down and nonoperational. The following CEMS are located on C97:

- o SO2, O2, and flow in the I-301 Main Stack
- o SO2, O2, and flow in the I-301 Bypass Stack
- o H2S for the Tank Vent waste gas line
- o H2S for the Refinery Gas waste gas line
- o H2S for the Asphalt Loading waste gas line

In addition, permit conditions require the operator to continuously monitor temperature, natural gas flow, and refinery gas flow at C97, and for all heaters (D19, D20, D84) and boilers (D214, D231) to continuously monitor natural gas flow. This equipment will be shut down prior to the power outage, and monitoring cannot be resumed until power is restored. Permit conditions also require continuously monitoring Storage Tank levels, but without operational pumps to move materials in and out of the tanks, levels will remain unchanged. Further, all vessels with atmospheric pressure relief devices ("PRDs") (D6, D7, D8, D80, D81, D82, D83, C217, C218, C219) are required to monitor pressure to monitor for releases to the atmosphere. All operations will be ceased prior to the planned power outage and cannot be restarted until power is restored.

For all of the above, the facility's DCS will record parameters as the applicable units are shut down, providing confirmation that operations have ceased. Data will cease recording during the power outage, but will begin recording again within approximately four hours when power is restored and instrumentation and DCS resume operation.

World Oil proposes that this petition for a variance be heard on the consent calendar, and World Oil's counsel will reach out to District counsel to discuss this request.

8. Is there a regular maintenance and/or inspection schedule for this equipment? Yes No

If yes, how often: Daily _____ Date of last maintenance and/or inspection Daily (date of filing)

Describe the maintenance and/or inspection that was performed.

Daily visual inspections for any VOC leaks are performed by the operators and bimonthly Rule 1173 inspections for valves, fittings, pumps, compressor and pressure relief devices are performed on a regular basis by our third party inspectors. The operator also performs daily calibrations of the GEMS.

9. List all District rules, and/or permit conditions [indicating the specific section(s) and subsection(s)] from which you are seeking variance relief (if requesting variance from Rule 401 or permit condition, see Attachment A). Briefly explain how you are or will be in violation of each rule or condition (see Attachment A, Item 9, Example #2).

Rule	Explanation
Rule 203(b) Rule 2004(f)(1) Rule 3002(c)(1) "Connected to" portion of Section D of Facility Permit	<p>Rules 203(b), 2004(f)(1), and 3002(c)(1) require World Oil to operate all devices and equipment pursuant to the conditions specified in its facility permit. Specifically, Rule 203(b) requires that equipment not be operated contrary to the conditions specified in a permit to operate. Rule 2004(f)(1) requires a facility permit holder to comply with all rules and permit conditions applicable to a facility. Rules 3002(c)(1) requires the operation of a Title V facility and all equipment located at a Title V facility in compliance with all terms, requirements, and conditions specified in the Title V permit at all times.</p> <p>World Oil's permit requires that it vent the Storage Tanks and Wastewater Components to C97 via the Storage Tank Line H2S Scrubbers. (See the "Connected To" column on pages 1-17 of Section D). Since C97 will not be in operation while the new UPS is connected to the facility power systems, World Oil will not be able to comply with these permit requirements.</p>
Rule 2011(c)(2)(A)	<p>Rule 2011(c)(2)(A) requires that the Facility Permit holder of a major SOx source install, maintain, and operate a direct monitoring device for each major SOx source to continuously measure the concentration of SOx emissions. This monitoring equipment will be without power during the installation of the UPS backup power supply, such that World Oil will not be able to comply with Rule 2011's requirement to continuously monitor for SOx emissions.</p>
Rule 2012(c)(2)(A)	<p>Rule 2012(c)(2)(A) requires that the Facility Permit holder of a major NOx source install, maintain, and operate a direct monitoring device for each major NOx source to continuously measure the concentration of NOx emissions. This monitoring equipment will be without power during the installation of the UPS backup power supply, such that World Oil will not be able to comply with Rule 2012's requirement to continuously monitor for NOx emissions.</p>
Rule 1173(h)	<p>Rule 1173(h) requires the operator to continuously monitor atmospheric PRDs by installing electronic monitoring devices. Because the electric monitoring devices will be without power while the new UPS is connected to the facility power systems, World Oil will not be able to comply with Rule 1173's requirement to continuously monitor atmospheric PRDs.</p>
Condition C8.4	<p>Condition C8.4 requires the operator to install and maintain a device to continuously record the temperature of C97 to ensure that the temperature is not less than 1400 degrees Fahrenheit. This monitoring equipment will be without power during the installation of the UPS backup power supply, such that World Oil will not be able to comply with this permit condition.</p>
Condition D90.3	<p>Condition D90.3 requires the operator to continuously monitor fuel gas flow to the inlet of C97. This equipment will be without power during the installation of the UPS backup power supply, such that World Oil will not be able to comply with this permit condition.</p>

Rule	Explanation
Conditions S4.1 and S4.2	Conditions S4.1 and S4.2 require all components of the subject systems to comply with District Rule 1173. Rule 1173(h) requires the operator to continuously monitor atmospheric PRDs by installing electronic monitoring devices. Because the electric monitoring devices will be without power while the new UPS is connected to the facility power systems, World Oil will not be able to comply with Rule 1173's requirement to continuously monitor atmospheric PRDs, and therefore cannot comply with these permit conditions.
Condition F.D	<p>Facility Permit Section F.D requires the operator to install, maintain, and operate a continuous monitoring device for each major SOx source to continuously measure the concentration of SOx emissions or fuel sulfur content.</p> <p>World Oil cannot comply with these requirements to continuously monitor SOx because the refinery will be completely without power and no backup power, so all CEMS be powered down.</p>
Conditions C1.19, C1.48, C1.20, C1.21, C1.31, C1.32, C1.34, C1.35, C1.38, C1.39, C1.41, C1.42, C1.45, and C1.46	Conditions C1.19 (D48), C1.48 (D40), C1.20 (D47, D50, D284, D286), C1.21 (D251), C1.31 (D49, D252, D270), C1.32 (D35), C1.34 (D125), C1.35 (D129), C1.38 (D267), C1.39 (D269), C1.41 (D58, D64, D152), C1.42 (D123), C1.42 (D62, D66), C1.45 (D292), and C1.46 (D73, D75) require the operator to install and maintain an automatic tank level gauge and recorder to continuously record the vertical movement of the product level. World Oil cannot comply with this requirement to continuously monitor product levels because the refinery will be completely without power and no backup power, so all monitoring equipment will be powered down.
Condition C1.47	Conditions C1.47 (D20) requires the operator to install and maintain a continuous fuel flow meter for natural gas. World Oil cannot comply with the requirement to continuously meter fuel flow because the refinery will be completely without power and no backup power, so all monitoring equipment will be powered down.
Conditions F.I(B) and (C), C1.27	Conditions F.I(B) and F.I(C) (C97, D19, D20, D84, D214, D231), and C1.27 (D19) require the operator to install, maintain, and operate a totalizing fuel meter to determine fuel usage.. World Oil cannot comply with the requirement to continuously meter fuel flow because the refinery will be completely without power and no backup power, so all monitoring equipment will be powered down.

10. Are the equipment or activities subject to this request currently under variance coverage? Yes No

Case No.	Date of Action	Final Compliance Date	Explanation

11. Are any other equipment or activities at this location currently (or within the last six months) under variance coverage? Yes No

Case No.	Date of Action	Final Compliance Date	Explanation

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12. Were you issued any Notice(s) of Violation or Notice(s) to Comply concerning this equipment or activity within the past year? Yes No

If yes, you must attach a copy of each notice.

NOV P80369, issued on 06/24/2025 for the period between 07/01/2024 and 12/31/2024, lists failure to maintain equipment in compliance with conditions for incinerator C97. The Facility is now in compliance.

In addition, the following NOV's were issued with respect to periodic exceedances of H2S concentration limits in the lines venting to C97:

NOV	Date	Description
P80358	11/21/2024	<ul style="list-style-type: none"> H2S exceedance (>160 ppm 3hr avg) in Tank Vent [36 hours total] H2S exceedance (>160 ppm 3hr avg) in Refinery Gas [8 hours total]
P80369	06/24/2025	<ul style="list-style-type: none"> H2S exceedance (>160 ppm 3hr avg) in Tank Vent [8 hours total] H2S exceedance (>160 ppm 3hr avg) in Refinery Gas [3 hours total]

13. Have you received any complaints from the public regarding the operation of the subject equipment or activity within the last six months? Yes No

If yes, you should be prepared to present details at the hearing.

14. Explain why it is beyond your reasonable control to comply with the rule(s) and/or permit condition(s). Provide specific event(s) and date(s) of occurrence(s), if applicable.

As explained above, the UPS providing backup power for the facility is beyond the end of its useful life and must be replaced and cannot be fully installed without turning off power to the facility for a short period, so it is beyond Petitioner's reasonable control to comply with all permit requirements while the facility is without power. The refinery and incinerator cannot be operated while the UPS replacement is occurring because of the electrical work required to complete the installation. The UPS cannot be installed to serve as backup power to the facility unless the facility is powered off to complete installation.

World Oil petitions for variance coverage for the time the refinery and C97 are offline as, during this time, it will not be able to vent to C97 emissions which may occur from the tanks and wastewater system components. Absent a variance, there would be a period of noncompliance with SCAQMD rules and World Oil's current facility permit during the shutdown, as the permit requires that the devices connected to C97 be vented to it, and District rules require compliance with permit requirements.

World Oil has assessed options to avoid noncompliance while performing the needed work, and there are no options within World Oil's reasonable control.

The Storage Tanks need to "breathe" during the C97 shutdown period, so unless the tanks are completely removed from service, the potential breathing losses will need to be vented. To completely remove the tanks from service, the tanks would have to be drained, degassed and cleaned pursuant to SCAQMD Rule 1149 and other regulatory requirements. This process would take several weeks to accomplish, cost in excess of

\$250,000 (project costs only), and would generate far greater emissions than leaving the tanks in operation during the C97 shutdown period. In addition, extensive economic and operational hardships would be realized by World Oil, employees, contractors, and crude oil suppliers as a result of these tanks being taken out of service for an extended period of time. For these reasons, completely removing the Storage Tanks from service would be beyond World Oil's reasonable control.

World Oil will install an alternative vapor control system for the shutdown period. World Oil will ensure that the supplier of the alternative vapor control system has a various locations permit for the system. However, World Oil still requires a variance to vent the Storage Tanks and Wastewater Components to a control device other than the control device specified in its permit, incinerator C97.

In addition, during the temporary power outage, World Oil will be unable to comply with permit conditions requiring continuous monitoring of natural gas flow, refinery gas flow, temperature, storage tank levels, and atmospheric pressure release devices. All equipment, including monitoring equipment, will be without power during the installation of the UPS backup power supply, such that World Oil will not be able to comply with permit conditions requiring such monitoring during this limited time. The facility's distributed control system ("DCS") will record parameters as the applicable units are shut down, providing confirmation that operations have ceased. Data will cease recording during the power outage, but will begin recording again within an anticipated approximately four hours when power is restored and instrumentation and DCS resume operation.

15. When and how did you first become aware that you would not be in compliance with the rule(s) and/or permit condition(s)? Provide specific event(s) and date(s) of occurrence(s).

World Oil became aware that it would need to replace the facility's UPS following two breakdown events in spring 2025, as described above. The UPS is beyond the end of its useful life and there are no available spare parts to fully repair the UPS because the manufacturer no longer supports the existing UPS system. World Oil has purchased and installed a new UPS; however, the new UPS cannot be put into service until it is connected to the facility's main power supply, which will require a power disconnect and complete shutdown of the facility and incinerator to complete

16. List date(s) and action(s) you have taken since that time to achieve compliance. That the Petition Form HB-V, and any related instructions, include requirement that the Petitioner include a timeline in suitable, chronological format to address the events, dates, and actions called for by Questions 15 and 16, including the dates of communication with the South Coast AQMD to notify them of the occurrence(s) giving rise to the requested variance.

The following actions have been taken to achieve compliance:

1. Informed the District that a variance for the completion of UPS installation may be required in correspondence related to Breakdown Notification Report #834968.
2. Obtained and partially installed replacement UPS
3. Formulated plan for UPS work to be performed without any excess emissions.
4. Researched temporary control alternatives for use during work.
5. Prepared short variance petition.

17. What would be the harm to your business during **and/or after** the period of the variance if the variance were not granted?

Economic losses: see below

Number of employees laid off (if any): _____ potentially all facility employees _____

Provide detailed information regarding economic losses, if any, (anticipated business closure, breach of contracts, hardship on customers, layoffs, and/or similar impacts).

If the variance is not granted and World Oil is unable to complete installation of the UPS for backup power, the Facility risks future breakdowns and/or unsafe shutdowns of the Facility whenever there is a power supply issue (outage, momentary dip or loss in power, etc.) or change in power quality. World Oil is unable to repair the existing UPS due to the lack of available spare parts, resulting in economic losses of well in excess of \$15 million per month while the refinery is nonoperational.

If the variance is not granted, World Oil would have to eliminate the VOC breathing loss emissions from the Storage Tanks by removing them from active service.

As stated previously in response to Question 14, in order to remove the tanks from active service, the tanks would have to be drained, degassed and cleaned pursuant to SCAQMD Rule 1149 and other regulatory requirements. This process would take several weeks to accomplish, cost in excess of \$250,000 (project costs only), and would generate far greater emissions than leaving the tanks in operation (idle) during the temporary shutdown period (anticipated to last only 4 hours, although variance coverage is requested for 24 hours in the event of unanticipated circumstances).

Moreover, World Oil would have no feasible option to install the UPS while performing the monitoring required under its permit, as there would be no power source for the monitors.

18. Can you curtail or terminate operations in lieu of, or in addition to, obtaining a variance? Please explain.

When incinerator C97 is offline, World Oil will have already stopped all of its operations because the refinery will be shut down and without power to allow for the installation of the UPS. Specifically, World Oil will have already ceased all refining operations, including its asphalt blowing operations, wastewater treatment operations, asphalt loading operations, and truck unloading operations. There will be no emissions from these activities.

VOC breathing loss emissions may be generated from the Storage Tanks due to vapor expansion caused by the heat of the day (breathing losses). As identified in response to Question 14 above, the only way to completely eliminate the VOC breathing losses from these tanks would be to remove them from active service. Removing the tanks from active service would result in additional VOC emissions, excessive costs, and hardships to World Oil, its employees, contractors, and suppliers. The Wastewater Components, as well as wastewater tank D52, will be operated during the shutdown of C97.

As an alternative to removing the tanks from active service, World Oil is proposing to vent the breathing loss emissions to an alternative control device with a District various locations permit and a VOC destruction control efficiency of 99% or greater, equivalent to that of Incinerator I-301 (C97). As the alternative control device will have a VOC destruction efficiency equivalent to that of the permitted incinerator, use of the alternative control device should result in no excess emissions during the shutdown.

19. Estimate excess emissions, if any, on a daily basis, including, if applicable, excess opacity (the percentage of total opacity above 20% during the variance period). If the variance will result in no excess emissions, insert "N/A" here and skip to No. 20.

Pollutant	(A)	(B)	(C)*
	Total Estimated Excess Emissions (lbs/day)	Reduction Due to Mitigation (lbs/day)	Net Emissions After Mitigation (lbs/day)
N/A			

* Column A minus Column B = Column C

Excess Opacity: _____ %

20. Show calculations used to estimate quantities in No. 19, or explain why there will be no excess emissions.

N/A. There will be no excess emissions during the shutdown since the VOC emissions from the Storage Tanks and Wastewater Components will be controlled using alternative control devices with VOC destruction efficiency equivalent to that of the permitted incinerator.

21. Explain how you plan to reduce (mitigate) excess emissions during the variance period to the maximum extent feasible, or why reductions are not feasible.

Not applicable (there will be no excess emissions).

World Oil is proposing to control emissions from the Storage Tanks and Wastewater Components using an alternative control devices with control efficiency equivalent to that of the permitted control device. One control system is planned for the Storage Tanks and Wastewater Components.

In addition, the DCS will record parameters as the Storage Tanks, C97, heaters and boilers, and vessels requiring continuous monitoring are shut down, providing confirmation that operations have ceased. While data will not be recorded during the power outage, the DCS will begin recording again within a few hours when power is restored and instrumentation and the DCS have resumed operation.

As such, there will be no excess emissions. Further, since the remainder of the facility will be shut down during the variance period, there are no available concurrent reductions that can be used as mitigations.

22. How do you plan to monitor or quantify emission levels from the equipment or activity(s) during the variance period, and to make such records available to the District? **Any proposed monitoring does not relieve RECLAIM facilities from applicable missing data requirements.**

The owner/operator of the alternative portable control device will be required to monitor emissions in accordance with their permit.

23. How do you intend to achieve compliance with the rule(s) and/or permit condition(s)? Include a detailed description of any equipment to be installed, modifications or process changes to be made, permit conditions to be amended, etc., dates by which the actions will be completed, and an estimate of total costs.

Compliance will be achieved once the installation of the new UPS is complete, power to the facility has been restored, and incinerator C97 is back online and capable of receiving vent gases. Once C97 is back online, the facility will proceed with startup of the refinery.

Given the limited duration and straightforward nature of the variance request, and given the absence of excess emissions, World Oil proposes that this petition be heard on the consent calendar, and World Oil's counsel will reach out to District counsel to discuss this request.

World Oil proposes the following variance conditions:

- During the variance period, World Oil shall cease use of its asphalt blowing stills, crude unit operations, and asphalt loading operations. World Oil shall also cease all unloading operations.

- World Oil shall use a portable vapor control system or systems to control emissions from the Storage Tanks and Wastewater Components whenever incinerator I-301 is not being used to control vent gases from these devices. World Oil shall use a portable vapor control system or systems with valid Permits to Operate issued by the South Coast AQMD. The portable vapor control system or systems shall have a minimum control efficiency of 95%.
- Petitioner shall not operate the portable vapor control systems in a manner inconsistent with the Permits to Operate for such equipment. All conditions set forth in the Permits to Operate will be followed during the variance period.
- Petitioner shall inform South Coast AQMD compliance personnel by calling 1-800-CUT-SMOG to report a Variance Notification seventy-two (72) hours prior to the start of the variance period.
- Petitioner shall inform the South Coast AQMD within one (1) hour of receiving any complaint(s) from the public.
- Petitioner shall notify the Clerk of the Hearing Board (clerkofboard@aqmd.gov) in writing and by calling 1-800-CUT-SMOG to report a Variance Notification within two (2) hours of achieving final compliance after the work is complete, incinerator C97 is back online, and all affected devices are back in compliance with their permits.
- Petitioner shall pay all applicable fees to the Clerk of the Hearing Board or the variance shall be invalidated pursuant to Rule 303(k), except for excess emissions fees if applicable, which shall be paid within fifteen (15) days of notification in writing that the fees are due, unless otherwise ordered by the Hearing Board.

24. State the date you are requesting the variance to begin: World Oil requests coverage for an up to 24 hour period sometime between November 14, 2025, and December 31, 2025 (the exact date will depend on availability of the alternative portable vapor control device); and the date by which you expect to achieve final compliance: World Oil expects the work to be completed within four hours of its start but requests variance coverage for 24 hours in case it encounters any unanticipated circumstances.

If the regular variance is to extend beyond one year, you **must** include a **Schedule of Increments of Progress**, specifying dates or time increments for steps needed to achieve compliance. See District Rule 102 for definition of Increments of Progress (see Attachment A, Item 24, Example #3).

List Increments of Progress here: N/A

25. List the names of any District personnel with whom facility representatives have had contact concerning this variance petition or any related Notice of Violation or Notice to Comply.

___ Oscar Nieto Mora ___ Ext. ___ 7006 ___
 ___ Ext. ___

If the petition was completed by someone other than the petitioner, please provide their name and title below.

Name	Company	Title
------	---------	-------

The undersigned, under penalty of perjury, states that the above petition, including attachments and the items therein set forth, is true and correct.

Executed on 10/21/25, at South Gate, California


 Signature

Ray Couillard
 Print Name

Title: Refinery General Manager



South Coast Air Quality Management District
21865 COPLEY DRIVE, DIAMOND BAR, CA 91765-4178

P 80358

NOTICE OF VIOLATION

DATE OF VIOLATION		
Month:	Day:	Year:
01	01	2024
06	30	2024

Facility Name: Lunday-Thagard Company DBA World Oil Refining		Facility ID#: 800080	Sector: WL
Location Address: 9301 Garfield Avenue		City: South Gate	Zip: 90280
Mailing Address: 9302 Garfield Avenue		City: South Gate	Zip: 90280

YOU ARE HEREBY NOTIFIED THAT YOU HAVE BEEN CITED FOR ONE OR MORE VIOLATIONS OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) RULES, STATE LAW OR FEDERAL LAW. IF PROVEN, SUCH VIOLATION(S) MAY RESULT IN THE IMPOSITION OF CIVIL OR CRIMINAL PENALTIES.

EACH DAY A VIOLATION OCCURS MAY BE HANDLED AS A SEPARATE OFFENSE REGARDLESS OF WHETHER OR NOT ADDITIONAL NOTICES OF VIOLATION ARE ISSUED.

DESCRIPTION OF VIOLATIONS

#	Authority*	Code Section or Rule No.	SCAQMD Permit to Operate or CARB Registration No.	Condition No. (If Applicable)	Description of Violation
1	<input checked="" type="checkbox"/> SCAQMD <input type="checkbox"/> CH&SC <input type="checkbox"/> CCR <input checked="" type="checkbox"/> CFR	3002(c)(1) 40 CFR 60 Subpart J		B61.2 H23.16	Failure to operate/maintain all equipment located at a Title V facility in compliance with all terms, requirements and conditions specified (H2S concentration for Incinerator (97))
2	<input checked="" type="checkbox"/> SCAQMD <input type="checkbox"/> CH&SC <input type="checkbox"/> CCR <input type="checkbox"/> CFR	3002(c)(1)		B22.8 C6.10 D12.5	Failure to operate/maintain all equipment located at a Title V facility in compliance with all terms, requirements and conditions specified (4 counts)
3	<input type="checkbox"/> SCAQMD <input type="checkbox"/> CH&SC <input type="checkbox"/> CCR <input type="checkbox"/> CFR				
4	<input type="checkbox"/> SCAQMD <input type="checkbox"/> CH&SC <input type="checkbox"/> CCR <input type="checkbox"/> CFR				
5	<input type="checkbox"/> SCAQMD <input type="checkbox"/> CH&SC <input type="checkbox"/> CCR <input type="checkbox"/> CFR				

Served To: David Chetkowski	Phone: (562) 928-7000 ext. 2329	Served By: Oscar Nieto Mora	Date Notice Served: 11/21/2024
Title: Environmental Manager	Email: dchetkowski@worldoilcorp.com	Phone No: <input type="checkbox"/> 909-396- <input checked="" type="checkbox"/> 310-233-7006	Email: Omora @aqmd.gov

*Key to Authority Abbreviations: SCAQMD - South Coast Air Quality Management District CH&SC - California Health and Safety Code CCR - California Code of Regulations	Method of Service: <input checked="" type="checkbox"/> In Person <input type="checkbox"/> Certified Mail
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VIOLATOR'S COPY



South Coast Air Quality Management District
21865 COPLEY DRIVE, DIAMOND BAR, CA 91765-4178

P 80369

NOTICE OF VIOLATION

DATE OF VIOLATION		
Month:	Day:	Year:
07	01	2024
17	37	2024

Facility Name: Lunday-Thagard Company DBA World Oil Refining		Facility ID#: 800080	Sector: WL
Location Address: 9301 Garfield Avenue		City: South Gate	Zip: 90280
Mailing Address: 9302 Garfield Avenue		City: South Gate	Zip: 90280

YOU ARE HEREBY NOTIFIED THAT YOU HAVE BEEN CITED FOR ONE OR MORE VIOLATIONS OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) RULES, STATE LAW OR FEDERAL LAW. IF PROVEN, SUCH VIOLATION(S) MAY RESULT IN THE IMPOSITION OF CIVIL OR CRIMINAL PENALTIES.

EACH DAY A VIOLATION OCCURS MAY BE HANDLED AS A SEPARATE OFFENSE REGARDLESS OF WHETHER OR NOT ADDITIONAL NOTICES OF VIOLATION ARE ISSUED.

DESCRIPTION OF VIOLATIONS

#	Authority*	Code Section or Rule No.	SCAQMD Permit to Operate or CARB Registration No.	Condition No. (If Applicable)	Description of Violation
1	<input checked="" type="checkbox"/> SCAQMD <input type="checkbox"/> CH&SC <input type="checkbox"/> CCR <input checked="" type="checkbox"/> CFR	3002(c)(3)		B61.2 H23.16	Failure to operate/maintain all equipment located at a Title V facility in compliance with all terms, requirements and conditions specified. TH25 concentration for Incinerator C97
2	<input checked="" type="checkbox"/> SCAQMD <input type="checkbox"/> CH&SC <input type="checkbox"/> CCR <input type="checkbox"/> CFR	3002(c)(1)		D12.5 D12.6	Failure to operate/maintain all equipment located at a Title V facility in compliance with all terms, requirements and conditions specified (2 counts)
3	<input type="checkbox"/> SCAQMD <input type="checkbox"/> CH&SC <input type="checkbox"/> CCR <input type="checkbox"/> CFR				
4	<input type="checkbox"/> SCAQMD <input type="checkbox"/> CH&SC <input type="checkbox"/> CCR <input type="checkbox"/> CFR				
5	<input type="checkbox"/> SCAQMD <input type="checkbox"/> CH&SC <input type="checkbox"/> CCR <input type="checkbox"/> CFR				

Served To: David Chetkowski	Phone: (562) 928-7000 ext. 2329	Served By: Oscar Nieto Mora	Date Notice Served: 06/24/2025
Title: Environmental Manager	Email: dchetkowski@worldoilcorp.com	Phone No: <input type="checkbox"/> 909-396- <input checked="" type="checkbox"/> 310-233-7006	Email: Omor@aqmd.gov

*Key to Authority Abbreviations: SCAQMD - South Coast Air Quality Management District CH&SC - California Health and Safety Code CCR - California Code of Regulations	Method of Service: <input checked="" type="checkbox"/> In Person <input type="checkbox"/> Certified Mail
---	--

VIIOLATOR'S COPY



**FACILITY PERMIT TO OPERATE
LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: CRUDE DISTILLATION					
System 1: CRUDE ATMOSPHERIC DISTILLATION UNIT					S4.1, S15.1, S15.1, S15.2
FRACTIONATOR, C-101, CRUDE TOWER, HEIGHT: 110 FT : DIAMETER: 9 FT A/N: 607637	D6	C97			
KNOCK OUT POT, D-110, OVERHEAD OFF GAS, HEIGHT: 8 FT 9 IN: DIAMETER: 2 FT A/N: 607637	D261				
ACCUMULATOR, D-101, NAPHTHA, LENGTH: 16 FT : DIAMETER: 5 FT WITH VESSEL, WATER BOOT, HEIGHT: 4 FT : DIAMETER: 2 FT 6 IN	D287	C97			
COLUMN, STRIPPER, KEROSENE, HEIGHT: 16 FT 9 IN: DIAMETER: 2 FT 8 IN A/N: 607637	D4				
FRACTIONATOR, C-102, DIESEL TOWER, HEIGHT: 28 FT 5 IN: DIAMETER: 3 FT 9 IN A/N: 607637	D5				
FRACTIONATOR, C-103, ATMOSPHERIC GAS OIL TOWER, HEIGHT: 7 FT 9 IN: DIAMETER: 3 FT 2 IN A/N: 607637	D1	D131			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 607637	D165				H23.24
System 2: CRUDE VACUUM DISTILLATION UNIT					S4.1, S13.1, S15.1, S15.2

- * (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
- (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
- (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
- (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: CRUDE DISTILLATION					
FRACTIONATOR, 1ST STAGE, TOP VACUUM, C-104, HEIGHT: 29 FT : DIAMETER: 5 FT 2 IN A/N: 563995	D7	C97			
FRACTIONATOR, 2ND STAGE, BOTTOM VACUUM, C-105, HEIGHT: 28 FT 1 IN: DIAMETER: 7 FT 6 IN A/N: 563995	D8	C97			
EJECTOR, SE-104, SE-105, FIRST STAGE, VACUUM, STEAM OPERATED A/N: 563995	D17				H23.7
EJECTOR, SE-101, SE-102, SE-103, SE-106, SE-107, SE-108, CROLL-REYNOLDS, 2ND STAGE, VACUUM, STEAM OPERATED, VACUUM JET A/N: 563995	D18				H23.7
PROCESS TANK, HOT WELL, D-105, HEIGHT: 9 FT 6 IN: DIAMETER: 3 FT 5 IN A/N: 563995	D262				
DRUM, VESSEL, D-109, HEIGHT: 6 FT 11 IN: DIAMETER: 2 FT A/N: 563995	D263				
DRUM, VESSEL, D-119, HEIGHT: 4 FT 3 IN: DIAMETER: 10 IN A/N: 563995	D264				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 563995	D166				H23.8
System 3: CRUDE HEATING SYSTEM					

- * (1) (1A) (1B) Denotes RECLAIM emission factor
 - (3) Denotes RECLAIM concentration limit
 - (5) (5A) (5B) Denotes command and control emission limit
 - (7) Denotes NSR applicability limit
 - (9) See App B for Emission Limits
 - (2) (2A) (2B) Denotes RECLAIM emission rate
 - (4) Denotes BACT emission limit
 - (6) Denotes air toxic control rule limit
 - (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 - (10) See section J for NESHAP/MACT requirements
- ** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: CRUDE DISTILLATION					
HEATER, H-501, ROAD OIL, NATURAL GAS, WITH LOW NOX BURNER. 6 MMBTU/HR WITH A/N: 474534 BURNER, NATURAL GAS, ZEECO, MODEL GLSF-12, WITH LOW NOX BURNER, 1 TOTAL: 6 MMBTU/HR	D19		NOX: PROCESS UNIT**	CO: 400 PPMV (5) [RULE 1109.1(d)(6), 11-5-2021]; CO: 2000 PPMV (5A) [RULE 407, 4-2-1982]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A195.2, C1.27, D29.6
HEATER, HUERTEY PETROCHEM. ATMOSPHERIC DISTILLATION CRUDE CHARGE FEED. NATURAL GAS FIRED, WITH ULTRA-LOW NOX BURNER. 39 MMBTU/HR WITH A/N: 641012 BURNER, ULTRA-LOW NOX BURNERS, NATURAL GAS, CLEARSIGN COMBUSTION CORP., MODEL DUPLEX PLUG&PLAY MODEL CORE-8 PROCESS BURNER, 7.8 MMBTU/HR EACH, 5 TOTAL	D20		NOX: LARGE SOURCE**	CO: 400 PPMV (5) [RULE 1109.1(d)(6), 11-5-2021]; CO: 2000 PPMV (5A) [RULE 407, 4-2-1982]; NOX: 9 PPMV (3) [RULE 2012, 5-6-2005]; NOX: 9 PPMV NATURAL GAS (5A) [RULE 1109.1, 11-5-2021]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.7, A99.1, A99.2, A195.1, A195.2, C1.47, D29.3, D29.5, K67.16
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 641012	D167				H23.8

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: CRUDE DISTILLATION					
HEATER. JOY. VACUUM CHARGE. NATURAL GAS. WITH LOW NOX BURNER. FLUE GAS RECIRCULATION. 5.5 MMBTU/HR WITH A/N: 339698 BURNER. NATURAL GAS. COEN. MODEL SDAF-10, MICRO-NOX. WITH LOW NOX BURNER. 5.5 MMBTU/HR	D84	S194	NOX: PROCESS UNIT**	CO: 400 PPMV (5) [RULE 1109.1(d)(6), 11-5-2021]: CO: 2000 PPMV (5A) [RULE 407, 4-2-1982]: NOX: 0.045 LBS/MMBTU (1) [RULE 2012, 5-6-2005]: PM: (9) [RULE 404, 2-7-1986]: PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A195.2, D29.6
STACK A/N: 339698	S194	D84			
FUGITIVE EMISSIONS. MISCELLANEOUS A/N: 474534	D182				H23.8
Process 2: TREATING/STRIPPING					
System 1: H2S REMOVAL/SOUR GAS TREATING SYSTEM					S4.1, S18.1, S31.1
SCRUBBER. PACKED BED, V-401. SULFUR SCRUBBING MEDIA. 300,000 LBS. IN SERIES. HEIGHT: 50 FT : DIAMETER: 12 FT A/N: 438515	C217	C220 C221			E73.1, E73.2, E193.1, E193.4
SCRUBBER. PACKED BED, V-402, SULFUR SCRUBBING MEDIA. 300,000 LBS. IN SERIES. HEIGHT: 50 FT : DIAMETER: 12 FT A/N: 438515	C218	C220 C221			E73.1, E73.2, E193.1, E193.4

* (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements
** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 2: TREATING/STRIPPING					
SCRUBBER, PACKED BED, V-403. SULFUR SCRUBBING MEDIA, 300,000 LBS, IN SERIES. HEIGHT: 50 FT : DIAMETER: 12 FT A/N: 438515	C219	C220 C221			E73.1, E73.2, E193.1, E193.4
SCRUBBER, PACKED BED, V-410. POTASSIUM PERMANGANATE. POLISHER, 5,000 LBS, IN SERIES. HEIGHT: 10 FT : DIAMETER: 6 FT A/N: 438515	C220	C97 C217 C218 C219			E73.1, E193.2
SCRUBBER, PACKED BED, V-411. POTASSIUM PERMANGANATE. POLISHER, 5,000 LBS, IN SERIES. HEIGHT: 10 FT : DIAMETER: 6 FT A/N: 438515	C221	C97 C217 C218 C219			E73.1, E193.2
FUGITIVE EMISSIONS. MISCELLANEOUS A/N: 438515	D235				H23.17
System 2: TANK VENT LINE H2S REMOVAL SYSTEM					
SCRUBBER, PACKED BED, V-510. SULFUR SCRUBBING MEDIA, 6,000 LBS, IN SERIES. HEIGHT: 8 FT : DIAMETER: 4 FT A/N: 622796	C239	D35 D38 D39 D40 D47 D48 D49 D50 D71 C97 D222 D237 D251 D252 D269 D270 D284 D286			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: 622796	C240	D35 D38 D39 D40 D47 D48 D49 D50 D71 C97 D222 D237 D251 D252 D269 D270 D284 D286			E193.2, E193.4, E193.5

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 2: TREATING/STRIPPING					
BLOWER, BL-514 AND BL-515. ONE STAND-BY. COMMON TO C239 AND C240. 3 HP A/N: 622796	D242				
FUGITIVE EMISSIONS. MISCELLANEOUS A/N: 622796	D244				H23.17
Process 3: LOADING AND UNLOADING					
System 1: ROAD OIL LOADING/UNLOADING					
LOADING ARM, ASPHALT. FLEXIBLE HOSE. 4 TOTAL: DIAMETER: 4 IN A/N: 403057	D25	D291			C1.25, C6.5, C6.7, H23.14
FUGITIVE EMISSIONS. MISCELLANEOUS A/N: 403057	D168				H23.8
System 2: ASPHALT LOADING/UNLOADING					
LOADING ARM, ASPHALT. 2 TOTAL: DIAMETER: 4 IN A/N: 403055	D29	C97			C1.11, C6.5, C6.7, H23.14
FUGITIVE EMISSIONS. MISCELLANEOUS A/N: 403055	D225				H23.8
UNLOADING ARM, ASPHALT. 4 TOTAL: DIAMETER: 4 IN A/N: 310122	D132				
FUGITIVE EMISSIONS. MISCELLANEOUS A/N: 310122	D169				H23.8
System 3: EAST AREA NAPHTHA LOADING					
					S13.3

* (1) (1A) (1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5) (5A) (5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2) (2A) (2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 3: LOADING AND UNLOADING					
LOADING ARM, TANK TRUCK / TRAILER, NAPHTHA, 1 TOTAL; DIAMETER: 3 IN A/N: 614728	D136	C246 C247		VOC: 0.04 LBS/1000 GAL (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; VOC: 0.08 LBS/1000 GAL (5) [RULE 462, 5-14-1999]	C1.33, H23.9, H23.22
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 614728	D170				H23.8
System 4: CRUDE OIL UNLOADING					
UNLOADING ARM, CRUDE OIL, 4 TOTAL; DIAMETER: 4 IN A/N: 310124	D138				
UNLOADING ARM, CRUDE OIL, 2 TOTAL; DIAMETER: 4 IN A/N: 336738	D154				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 336738	D171				H23.8
System 5: BULK PETROLEUM LOADING					
LOADING ARM, TANK TRUCK / TRAILER, BULK PETROLEUM, 6 TOTAL; DIAMETER: 4 IN A/N: 527595	D142	C246 C247			B22.6
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 527595	D172				H23.8
System 6: CRUDE OIL/ASPHALT FLUX RACK NO. 6					
UNLOADING ARM, TANK TRUCK, CRUDE OIL, ASPHALT FLUX, 3 TOTAL; DIAMETER: 3 IN A/N: 346489	D253				S31.2

* (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
(3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
(5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
(7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 3: LOADING AND UNLOADING					
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 346489	D254				H23.13
Process 4: WASTEWATER TREATING SYSTEM					
System 1: WASTEWATER TREATING SYSTEM					
OIL WATER SEPARATOR, FIXED ROOF, ABOVE-GROUND, PAN AMERICA ENVIRONMENTAL, 72,000 GALS PER DAY, WIDTH: 12 FT 5 IN; HEIGHT: 4 FT 6 IN; LENGTH: 3 FT 5 IN WITH COMPARTMENT, MEDIA, COALESCING, 24 CU FT.	D222	C97 C239 C240		VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	H23.10, H23.11, H23.12, H23.22
AIR FLOATATION UNIT, DAF CIRCULAR: DIAMETER: 12 FT 9 IN TOP SECTION: DIAMETER: 10 FT 3 IN MAIN BODY, HEIGHT 10 FT 3 IN: CLOSED TOP, AND A SKIMMING ARM A/N: 622795	D237	C97 C239 C240		VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	H23.10, H23.11, H23.22
FILTER, SAND, D-003, HEIGHT: 6 FT 8 IN; DIAMETER: 3 FT A/N: 622795	D276				
FILTER, SAND, BACKWASH DRUM, D-015, HEIGHT: 8 FT 3 IN; DIAMETER: 4 FT A/N: 622795	D277				
ACCUMULATOR, FLOC, D-013, LENGTH: 8 FT ; DIAMETER: 4 FT A/N: 622795	D278				H23.10

* (1) (1A) (1B) Denotes RECLAIM emission factor
(3) Denotes RECLAIM concentration limit
(5) (5A) (5B) Denotes command and control emission limit
(7) Denotes NSR applicability limit
(9) See App B for Emission Limits
(2) (2A) (2B) Denotes RECLAIM emission rate
(4) Denotes BACT emission limit
(6) Denotes air toxic control rule limit
(8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
(10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 4: WASTEWATER TREATING SYSTEM					
ACCUMULATOR, DAF WATER, D-014, HEIGHT: 4 FT 11 IN; DIAMETER: 3 FT A/N: 622795	D279				
SETTLING TANK, OUTFALL WATER, D-005, HEIGHT: 9 FT 10 IN; DIAMETER: 12 FT 4 IN A/N: 622795	D280				
FILTER, CARBON, V-021, HEIGHT: 9 FT 7 IN; DIAMETER: 6 FT 1 IN A/N: 622795	D281				
FILTER, CARBON, V-022, HEIGHT: 9 FT 7 IN; DIAMETER: 6 FT 1 IN A/N: 622795	D282				
TANK, AERATION, D-004, HEIGHT: 3 FT 7 IN; DIAMETER: 8 FT A/N: 622795	D283				
INJECTOR, AIR A/N: 622795	D33			VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	
DRAIN SYSTEM COMPONENT A/N: 622795	D193			VOC: 500 PPMV (5) [RULE 1176, 9-13-1996]	H23.10. H23.11
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 622795	D173				H23.13
Process 5: STORAGE TANKS					
System 1: FIXED ROOF					
STORAGE TANK, FIXED ROOF, 423, NAPHTHA, GAS OIL, LIGHT DISTILLATE OIL, 20305 GALS; DIAMETER: 12 FT ; HEIGHT: 24 FT A/N: 597148	D284	C239 C240		VOC: 500 PPMV (8) [40CFR 60 Subpart Kb, 10-15-2024]	B22.11, C1.20, D90.5, E336.1, H23.20, H23.22, K67.12

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 5: STORAGE TANKS					
STORAGE TANK, FIXED ROOF, NO. 8705. GAS OIL, CRUDE OIL, WITH A MIXER. 8700 BBL: DIAMETER: 36 FT : HEIGHT: 48 FT A/N: 498827	D35	C239 C240			C1.32. H23.13. H23.19. H23.22. K67.6
STORAGE TANK, FIXED ROOF. STEAM HEATED. NO. 412. ASPHALT FLUX. 20000 GALS: DIAMETER: 12 FT : HEIGHT: 24 FT A/N: 564022	D37				B22.3. B22.8. H23.19. K67.2
STORAGE TANK, FIXED ROOF, NO. 413. 20000 GALS: DIAMETER: 12 FT : HEIGHT: 24 FT A/N: 556994	D38	C239 C240			B22.3. H23.19. K67.2
STORAGE TANK, FIXED ROOF, NO. 414. WITH A MIXER. 20000 GALS: DIAMETER: 12 FT : HEIGHT: 24 FT A/N:	D39	C239 C240			B22.3. H23.19. K67.2
STORAGE TANK, FIXED ROOF, NO. 415. PRV SET @ 0.375 PSIG. 20000 GALS: DIAMETER: 12 FT : HEIGHT: 24 FT A/N:	D40	C239 C240			B22.3. H23.19. H23.22. K67.2
STORAGE TANK, FIXED ROOF. STEAM HEATED, NO. 416. ASPHALT FLUX. PRV SET @ 0.375 PSIG. 20000 GALS: DIAMETER: 12 FT : HEIGHT: 24 FT A/N: 632589	D41				B22.3, B22.8. C1.44. H23.19. K67.2
STORAGE TANK, FIXED ROOF. STEAM HEATED. NO. 417. ASPHALT FLUX. PRV SET @ 0.375 PSIG. 20000 GALS: DIAMETER: 12 FT : HEIGHT: 24 FT A/N: 632590	D42				B22.3. B22.8. C1.44, H23.19. K67.2

- * (1) (1A) (1B) Denotes RECLAIM emission factor
 - (3) Denotes RECLAIM concentration limit
 - (5) (5A) (5B) Denotes command and control emission limit
 - (7) Denotes NSR applicability limit
 - (9) See App B for Emission Limits
 - (2) (2A) (2B) Denotes RECLAIM emission rate
 - (4) Denotes BACT emission limit
 - (6) Denotes air toxic control rule limit
 - (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 - (10) See section J for NESHAP/MACT requirements
- ** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 5: STORAGE TANKS					
STORAGE TANK, FIXED ROOF, 419. NAPHTHA. GAS OIL. 20160 GALS: DIAMETER: 12 FT : HEIGHT: 24 FT A/N: 493999	D47	C239 C240			C1.20, H23.13, H23.19, H23.22, K67.6
STORAGE TANK, FIXED ROOF, STEAM HEATED, NO. 420. NAPHTHA, DISTILLATE, ASPHALT FLUX, CUTBACK ASPHALT, GAS OIL, ASPHALT, WITH A MIXER AND INTERNAL STEAM COILS, PRV SET @ 0.375 PSIG. 20160 GALS: DIAMETER: 12 FT : HEIGHT: 24 FT A/N: 633905	D48	C239 C240		VOC: 500 PPMV (8) [40CFR 60 Subpart Kb, 10-15-2024]	A63.1, B22.14, C1.19, C6.19, H23.13, H23.27, K67.6
STORAGE TANK, FIXED ROOF, 421. NAPHTHA, GAS OIL, PRV SET @ 0.375 PSIG. 20160 GALS: DIAMETER: 12 FT : HEIGHT: 24 FT A/N: 620870	D49	C239 C240			C1.31, H23.13, H23.19, H23.22, K67.6
STORAGE TANK, FIXED ROOF, 422. NAPHTHA, GAS OIL, KEROSENE, PRV SET @ 0.375 PSIG, 20160 GALS: DIAMETER: 12 FT : HEIGHT: 24 FT A/N: 620871	D50	C239 C240			C1.20, H23.13, H23.19, H23.22, K67.6
STORAGE TANK, FIXED ROOF, STEAM HEATED, NO. 2029, ASPHALT, WITH A MIXER, 2000 BBL: DIAMETER: 19 FT : HEIGHT: 40 FT A/N: 578906	D58	C59			A63.1, B59.3, C1.41, C6.14, H23.1, K67.11
CONDENSER, PACKED, 55-GAL DRUM, WITH STEEL WOOL A/N: 578906	C59	D58			C6.10, D12.5, D522.1, E202.1, K67.10

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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**FACILITY PERMIT TO OPERATE
LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 5: STORAGE TANKS					
STORAGE TANK, FIXED ROOF. 2030. ASPHALT. 2000 BBL: DIAMETER: 19 FT : HEIGHT: 40 FT A/N: 380744	D60	C61			A63.1. C1.8. H23.1
CONDENSER. PACKED. 55-GAL DRUM. WITH STEEL WOOL A/N: 380744	C61	D60			D12.5. D322.1
STORAGE TANK. FIXED ROOF. 10027. ASPHALT. WITH A MIXER AND INTERNAL STEAM COILS. 10000 BBL: DIAMETER: 42 FT 6 IN: HEIGHT: 40 FT 10 IN A/N: 589462	D62	C63			A63.1. B22.1. B59.3. C1.43. C6.17. H23.1. K67.2
CONDENSER. WATER SEAL. PACKED. 55-GAL DRUM. WITH STEEL WOOL A/N: 589462	C63	D62			C6.10. D12.5. D322.1
STORAGE TANK, FIXED ROOF. STEAM HEATED. NO. 2025. ASPHALT. WITH MIXER. 2000 BBL: DIAMETER: 19 FT : HEIGHT: 40 FT A/N: 613090	D64	C65			A63.1. B22.1. B59.5. C1.41. C6.14. H23.25. K67.13
CONDENSER. PACKED. 55-GAL DRUM. WITH STEEL WOOL A/N: 613090	C65	D64			C6.10. D12.5. D322.1. E202.1. K67.10
STORAGE TANK. FIXED ROOF. 10028. ASPHALT. WITH A MIXER AND INTERNAL STEAM COILS. 10000 BBL: DIAMETER: 42 FT 6 IN: HEIGHT: 40 FT A/N: 589463	D66	C67			A63.1. B22.1. B59.3. C1.43. C6.17. H23.1. K67.2

- * (1) (1A) (1B) Denotes RECLAIM emission factor
 - (3) Denotes RECLAIM concentration limit
 - (5) (5A) (5B) Denotes command and control emission limit
 - (7) Denotes NSR applicability limit
 - (9) See App B for Emission Limits
 - (2) (2A) (2B) Denotes RECLAIM emission rate
 - (4) Denotes BACT emission limit
 - (6) Denotes air toxic control rule limit
 - (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS. etc.)
 - (10) See section J for NESHAP/MACT requirements
- ** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 5: STORAGE TANKS					
CONDENSER. WATER SEAL. PACKED. 55-GAL DRUM. WITH STEEL WOOL A/N: 589463	C67	D66			C6.10. D12.5. D322.1
STORAGE TANK. FIXED ROOF. STEAM HEATED. NO. 6606. DISTILLATE. ASPHALT. WITH INTERNAL STEAM COILS. WITH MIXER. 6600 BBL: DIAMETER: 32 FT : HEIGHT: 48 FT A/N: 617116	D70	C203			C6.8. H23.2. K67.2
CONDENSER. PACKED. 55-GAL DRUM, WITH STEEL WOOL A/N: 617116	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 A/N: 556995	D71	C239 C240			C6.9. H23.19. K67.2
STORAGE TANK. FIXED ROOF. STEAM HEATED. NO. 4207. ASPHALT. WITH A MIXER AND INTERNAL STEAM COILS. 4200 BBL: DIAMETER: 25 FT : HEIGHT: 48 FT A/N: 635652	D73	C206			A63.1. B59.4. C1.46. C6.10. C6.18. H23.1. K67.15
CONDENSER. PACKED, 55-GAL DRUM. WITH STEEL WOOL A/N: 635652	C206	D73			D12.7. D322.2
STORAGE TANK. FIXED ROOF. STEAM HEATED. NO. 4210. ASPHALT. WITH A MIXER AND INTERNAL STEAM COILS. 4200 BBL: DIAMETER: 25 FT : HEIGHT: 48 FT A/N: 635653	D75	C207			A63.1. B59.4. C1.46. C6.10. C6.18. H23.1. K67.15

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
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**FACILITY PERMIT TO OPERATE
LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 5: STORAGE TANKS					
CONDENSER, PACKED, 55-GAL DRUM, WITH STEEL WOOL A/N: 635653	C207	D75			D12.7, D322.2
STORAGE TANK, FIXED ROOF, STEAM HEATED, 4211, WITH A MIXER AND INTERNAL STEAM COILS, 4200 BBL; DIAMETER: 25 FT; HEIGHT: 48 FT A/N: 380756	D76	C208			C6.8, H23.2, K67.2
CONDENSER, PACKED, 55-GAL DRUM, WITH STEEL WOOL A/N: 380756	C208	D76			D12.5, D322.1
STORAGE TANK, FIXED ROOF, STEAM HEATED, NO. 2036, ASPHALT, 2000 BBL; DIAMETER: 19 FT; HEIGHT: 40 FT A/N: 578905	D123	C124			A63.1, B22.1, B59.4, C1.42, C6.15, H23.1, K67.11
CONDENSER, PACKED, 55-GAL DRUM, WITH STEEL WOOL A/N: 578905	C124	D123			C6.10, D12.5, D322.1, E202.1, K67.10
STORAGE TANK, FIXED ROOF, STEAM HEATED, NO. 1231, WITH A MIXER, ASPHALT, 1200 BBL; DIAMETER: 15 FT; HEIGHT: 40 FT A/N: 575578	D125	C126			A63.1, C1.34, C6.2, E71.1, H23.1
CONDENSER, WATER SEAL, PACKED, 55-GAL DRUM, WITH STEEL WOOL A/N: 575578	C126	D125			D12.2, D12.5, D322.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits

- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 5: STORAGE TANKS					
STORAGE TANK, FIXED ROOF, STEAM HEATED, NO. 1232. ASPHALT, CUT-BACK ASPHALT, WITH MIXER. 1200 BBL: DIAMETER: 15 FT : HEIGHT: 40 FT A/N: 556990	D127	C128			A63.1, B22.12, C1.4, E71.1, H23.1
CONDENSER, PACKED, 55-GAL DRUM, WITH STEEL WOOL A/N: 556990	C128	D127			C6.10, D12.2, D12.5, D322.1
STORAGE TANK, FIXED ROOF, STEAM HEATED, NO. 1233, WITH A MIXER, ASPHALT. 1200 BBL: DIAMETER: 15 FT : HEIGHT: 40 FT A/N: 645903	D129	C130			A63.1, B27.2, B59.3, C1.35, C6.8, E71.1, H23.1
CONDENSER, WATER SEAL, PACKED, 55-GAL DRUM, WITH STEEL WOOL A/N: 645903	C130	D129			D12.2, D12.5, D322.1
STORAGE TANK, FIXED ROOF, STEAM HEATED, NO. 2026. ASPHALT, WITH MIXER. 2000 BBL: DIAMETER: 19 FT : HEIGHT: 40 FT A/N: 578904	D152	C153			A63.1, B59.3, C1.41, C6.13, H23.1, K67.11
CONDENSER, PACKED, 55-GAL DRUM, WITH STEEL WOOL A/N: 578904	C153	D152			C6.10, D12.5, D322.1, E202.1, K67.10
STORAGE TANK, FIXED ROOF, NO. 1234, ASPHALT, WITH MIXER. 1200 BBL: DIAMETER: 15 FT : HEIGHT: 40 FT A/N: 612432	D163	C164			C1.12, C6.2, E71.1, H23.1
CONDENSER, PACKED, 55-GAL DRUM, WITH STEEL WOOL A/N: 612432	C164	D163			D12.5, D322.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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**FACILITY PERMIT TO OPERATE
LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 5: STORAGE TANKS					
STORAGE TANK, FIXED ROOF, NO. 10001, CRUDE OIL, WITH A MIXER. 10307 BBL: DIAMETER: 41 FT : HEIGHT: 43 FT 10 IN A/N: 540826	D251	C239 C240			B22.4, C1.21, H23.13, H23.20, H23.22, K67.6
STORAGE TANK, FIXED ROOF, NO. 3503, SLOP OIL, WASTE WATER. 3700 BBL: DIAMETER: 30 FT : HEIGHT: 29 FT 5 IN A/N: 539681	D252	C239 C240			B22.5, C1.31, H23.13, H23.20, H23.22, K67.6
STORAGE TANK, FIXED ROOF, LAB SLOP OIL. 500 GALS: DIAMETER: 3 FT 10 IN: LENGTH: 6 FT 3 IN A/N: 564003	D266				B22.7, C1.37, D90.4, H23.13, H23.23, K67.7
STORAGE TANK, FIXED ROOF, STEAM HEATED, NO. 2709, WITH INTERNAL STEAM COILS. 2956 BBL: DIAMETER: 21 FT : HEIGHT: 47 FT 11 IN A/N: 586970	D267	C268			A63.1, B59.2, C1.38, C6.11, H23.1, K67.2
CONDENSER, PACKED, 55-GAL DRUM, WITH STEEL WOOL A/N: 586970	C268	D267			C6.10, D12.5, D322.1
STORAGE TANK, FIXED ROOF, NO. 10002, CRUDE OIL, LIGHT DISTILLATE OIL, GAS OIL, NAPHTHA, WITH A MIXER. 10307 BBL: DIAMETER: 41 FT : HEIGHT: 43 FT 10 IN A/N: 585587	D269	C239 C240			B22.9, C1.39, D12.6, H23.13, H23.20, H23.22, K67.8
STORAGE TANK, FIXED ROOF, NO. 3504, SLOP OIL, WASTE WATER. 4029 BBL: DIAMETER: 30 FT : HEIGHT: 32 FT A/N: 588765	D270	C239 C240			B22.10, C1.31, H23.13, H23.20, H23.22, K67.6

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 5: STORAGE TANKS					
STORAGE TANK, FIXED ROOF, 418, NAPHTHA, GAS OIL, LIGHT DISTILLATE OIL. 20305 GALS: DIAMETER: 12 FT : HEIGHT: 24 FT A/N: 603730	D286	C239 C240		VOC: 500 PPMV (8) [40CFR 60 Subpart Kb, 10-15-2024]	B22.13, C1.20, D90.5, E336.1, H23.13, H23.20, H23.22, K67.12
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 620871	D174				H23.8
STORAGE TANK, HORIZONTAL, NO.4611. 716 GALS: DIAMETER: 4 FT : LENGTH: 8 FT A/N: 617117	D289				B59.6, B163.1, K67.14
STORAGE TANK, HORIZONTAL, NO.4612. 716 GALS: DIAMETER: 4 FT : LENGTH: 8 FT A/N: 617118	D290				B59.6, K67.14
STORAGE TANK, FIXED ROOF, STEAM HEATED, NO. 5540, ASPHALT, WITH INTERNAL STEAM COILS AND A MIXER, 232657 GALS: DIAMETER: 30 FT : HEIGHT: 44 FT A/N: 634118	D292	C293			A63.1, B59.4, C1.45, C6.10, C6.18, H23.1, K67.15
CONDENSER, PACKED, 55-GAL DRUM, WITH FIBERGLASS MESH FILTER A/N: 634118	C293	D292			D12.7, D322.2
Process 6: STEAM GENERATION					
System 1: BOILERS					

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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**FACILITY PERMIT TO OPERATE
 LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 6: STEAM GENERATION					
BOILER. (NORTH). NATURAL GAS. CLEAVER-BROOKS. MODEL CB400-700. WITH LOW NOX BURNER. 29.4 MMBTU/HR WITH A/N: 461247	D214		NOX: LARGE SOURCE**	CO: 50 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; CO: 400 PPMV (5) [RULE 1109.1(d)(6), 11-5-2021]; CO: 2000 PPMV (5A) [RULE 407, 4-2-1982]; NOX: 9 PPMV NATURAL GAS (4) [RULE 2005, 6-3-2011]; NOX: 9 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.4. A195.2. D29.2. D29.6. H23.18. K40.1. K67.4. K67.5
BURNER. NATURAL GAS. INDUSTRIAL COMBUSTION. MODEL ULNG-336P-9. WITH LOW NOX BURNER. 29.4 MMBTU/HR					

* (1) (1A) (1B) Denotes RECLAIM emission factor
 (3) Denotes RECLAIM concentration limit
 (5) (5A) (5B) Denotes command and control emission limit
 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits
 (2) (2A) (2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS. NESHAPS. etc.)
 (10) See section J for NESHAP/MACT requirements
 ** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 6: STEAM GENERATION					
BOILER, NATURAL GAS. ENGLISH BOILER & TUBE INC. MODEL 32-S-250. WITH LOW NOX BURNER. 39.9 MMBTU/HR WITH A/N: 459810 BURNER, NATURAL GAS. TODD COMBUSTION. MODEL RMBU-22-G-750-MARK VI-E2.30. LOW NOX BURNER. 1 TOTAL: 39.9 MMBTU/HR	D231		NOX: LARGE SOURCE**	CO: 50 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; CO: 400 PPMV (5) [RULE 1109.1(d)(6), 11-5-2021]; CO: 2000 PPMV (5A) [RULE 407, 4-2-1982]; NOX: 9 PPMV NATURAL GAS (4) [RULE 2005, 6-3-2011]; NOX: 9 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.4, A195.2, D29.2, D29.6, H23.18, K40.1, K67.4, K67.5
Process 7: ASPHALT PROCESSING					
System 1: ASPHALT BLOWING STILL NO. 1					
STILL, NO. 1 - ASPHALT BLOWING. HEIGHT: 35 FT : DIAMETER: 12 FT 8 IN A/N: C14209	D80	C98		PM: 1.2 LBS/TON PROCESSED (8) [40CFR 63SubpartAAAAAAA, 3-20-2023]	H23.6, H23.21
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: C14209	D178				H23.8
System 2: ASPHALT BLOWING STILL NO. 2					
STILL, NO. 2 - ASPHALT BLOWING. HEIGHT: 35 FT : DIAMETER: 12 FT 8 IN A/N: C14210	D81	C99		PM: 1.2 LBS/TON PROCESSED (8) [40CFR 63SubpartAAAAAAA, 3-20-2023]	H23.6, H23.21

- * (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
- (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
- (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
- (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 7: ASPHALT PROCESSING					
FUGITIVE EMISSIONS. MISCELLANEOUS A/N: C14210	D179				H23.8
System 3: ASPHALT BLOWING STILL NO. 3					
STILL, NO. 3 - ASPHALT BLOWING. HEIGHT: 35 FT : DIAMETER: 12 FT 8 IN A/N: C14211	D82	C100		PM: 1.2 LBS/TON PROCESSED (8) [40CFR 63SubpartA, 3-20-2023	H23.6. H23.21
FUGITIVE EMISSIONS. MISCELLANEOUS A/N: C14211	D180				H23.8
System 4: ASPHALT BLOWING STILL NO. 4					
STILL, NO. 4 - ASPHALT BLOWING. ASPHALT. HEIGHT: 35 FT : DIAMETER: 12 FT 8 IN A/N: 636839	D83	C101		PM: 1.2 LBS/TON PROCESSED (8) [40CFR 60 Subpart UU, 2-27-2014; 40CFR 63SubpartA, 3-20-2023	H23.6. H23.26
FUGITIVE EMISSIONS. MISCELLANEOUS A/N: 636839	D181				H23.8
System 7: ASPHALT RE-MELTING					
OVEN, STEAM HEATED, ASPHALT. 75 GALLONS. WIDTH: 2 FT 10 IN: LENGTH: 5 FT 4 IN; HEIGHT: 4 FT A/N: 564008	D273				C6.12, E71.10
PIT. WITH TWO INTERNAL STEAM COILS. 3,231 GALLONS, ASPHALT. WIDTH: 4 FT : HEIGHT: 12 FT : LENGTH: 8 FT A/N: 564008	D274				A63.1. C1.40, C6.12. K67.9
FUGITIVE EMISSIONS. MISCELLANEOUS A/N: 564008	D275				H23.13
Process 9: AIR POLLUTION CONTROL					

- * (1) (1A) (1B) Denotes RECLAIM emission factor
 - (3) Denotes RECLAIM concentration limit
 - (5) (5A) (5B) Denotes command and control emission limit
 - (7) Denotes NSR applicability limit
 - (9) See App B for Emission Limits
 - (2) (2A) (2B) Denotes RECLAIM emission rate
 - (4) Denotes BACT emission limit
 - (6) Denotes air toxic control rule limit
 - (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 - (10) See section J for NESHAP/MACT requirements
- ** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 9: AIR POLLUTION CONTROL					
System 1: APC SYSTEM SERVING ASPHALT STILLERS					
SCRUBBER, NO. 1, OIL A/N:	C98	D80 D131			
SCRUBBER, NO. 2, OIL A/N:	C99	D81 D131			
SCRUBBER, NO. 3, OIL A/N:	C100	D82 D131			
SCRUBBER, NO. 4, OIL A/N:	C101	D83 D131			
CONDENSER, WATER COOLED, HEIGHT: 18 FT 8 IN: DIAMETER: 7 FT 10 IN A/N:	D131	D1 C98 C99 C100 C101 C209			
SCRUBBER, WATER A/N:	C209	D131 C210			
KNOCK OUT POT, HYDROGEN SULFIDE A/N:	C210	C209 D272			
POT, VAPOR RECOVERY LOADING RACK SEAL, D-560, HEIGHT: 14 FT : DIAMETER: 2 FT 6 IN A/N:	D291	D25 C97			
DRUM, WASTE GAS HEADER KNOCK OUT, D309, HEIGHT: 3 FT 8 IN: DIAMETER: 9 IN A/N:	D272	C97 C210			

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 9: AIR POLLUTION CONTROL					
INCINERATOR. I-301. NATURAL GAS. PROCESS GAS. 14 MMBTU/HR WITH A/N:	C97	D6 D7 D8 D29 S199 C220 C221 C239 C240 D272 D287 D291	NOX: LARGE SOURCE** SOX: MAJOR SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 45 PPMV (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A416.1. B61.2. C1.17. C8.4. D28.2. D90.3. D323.1. D328.1. E71.9. E193.3. H23.16
HEAT EXCHANGER. SHELL AND TUBE TYPE. 7.5 MM BTU/HR MAX. CAP.. ASPHALT					
BLOWER. INDUCED DRAFT. VARIABLE SPEED. WITH A 75 HP MOTOR. 16000 CU.FT./MIN					
PUMP. POSITIVE DISPLACEMENT. 40 HP					
BLOWER. BL-514. 7.5 HP A/N:	D245				
STACK A/N:	S199	C97			
FUGITIVE EMISSIONS. MISCELLANEOUS A/N:	D183				H23.8
System 2: APC SYSTEM SERVING NAPHTHA LOADING					
SCRUBBER. PACKED BED. SULFUR SCRUBBING MEDIA. 1500 LB CAPACITY A/N: 527588	C246	C105 D136 D142			E73.4. E193.4. E193.6
SCRUBBER. PACKED BED. SULFUR SCRUBBING MEDIA. 1500 LBS CAPACITY A/N: 527588	C247	C105 D136 D142			E73.4. E193.4. E193.6

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 9: AIR POLLUTION CONTROL					
BLOWER, NAPHTHA TURBO A/N: 594257	D102				
POT. WATER SEAL. HEIGHT: 12 FT : DIAMETER: 2 FT 6 IN A/N: 594257	D250				
INCINERATOR. 1-501. NAO-VAPOR DISPOSAL. NATURAL GAS. PROCESS GAS. 1.4 MMBTU/HR WITH A/N: 594257 BURNER. NAO. MODEL NO. 1.25" NSFP-CP-HD-SSV	C105	C246 C247	NOX: PROCESS UNIT**; SOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 0.13 LBS/MMBTU (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]; SOX: 0.6 LBS/MMSCF NATURAL GAS (1) [RULE 2011, 5-6-2005]	B61.2. C1.36. C8.1. D28.4. D332.2. H23.16
FUGITIVE EMISSIONS. MISCELLANEOUS A/N: 594257	D184				H23.8
Process 10: RULE 219 EXEMPT EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULES					
RULE 219 EXEMPT EQUIPMENT. AIR CONDITIONING UNITS	E185				H23.3
RULE 219 EXEMPT EQUIPMENT. COATING EQUIPMENT. SMALL. UNHEATED. NON-CONVEYORIZED	E190			VOC: (9) [RULE 1107, 1-6-2006; RULE 1107, 1-6-2023; RULE 1136, 6-14-1996; RULE 1171, 2-1-2008; RULE 1171, 5-1-2009]	
RULE 219 EXEMPT EQUIPMENT. COATING EQUIPMENT. PORTABLE. ARCHITECTURAL COATING	E191			VOC: (9) [RULE 1113, 2-5-2016; RULE 1171, 2-1-2008; RULE 1171, 5-1-2009]	
RULE 219 EXEMPT EQUIPMENT. FIRE EXTINGUISHING EQUIPMENT USING HALONS	E192				H23.4
Process 11: MISCELLANEOUS PETROLEUM					

- * (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
- (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
- (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
- (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process II: MISCELLANEOUS PETROLEUM					
System 1: FUEL STORAGE AND DISPENSING					S13.2
STORAGE TANK, UNDERGROUND. EQUIPPED WITH PHASE I VAPOR RECOVERY SYSTEM PHIL-TITE (VR-101-D/K). METHANOL. GASOLINE. METHANOL COMPATIBLE. WITH SUBMERGED FILLING. 12000 GALS A/N: 493561	D212			ROG: (9) [RULE 461, Phil-Tite Phase I, VST w/o ISD Phase II, 3-7-2008; RULE 461, Universal Conditions, 3-7-2008]	K67.3
FUEL DISPENSING NOZZLE. VST PHASE II EVR W/O ISD (VR-203-E). GASOLINE A/N: 493561	D213			ROG: (9) [RULE 461, Phil-Tite Phase I, VST w/o ISD Phase II, 3-7-2008; RULE 461, Universal Conditions, 3-7-2008]	C1.13, C1.30, K67.3

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits

- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[Devices subject to this condition : D213]

C1.17 The operator shall limit the firing rate to no more than 14 MM Btu per hour.

For the purpose of this condition, firing rate shall be defined as the total firing rate generated from combusting all fuel in this equipment.

To comply with this condition, the operator shall determine the firing rate by multiplying the fuel usage in MMscfh for each fuel below by their respective HHV. The sum total of all firing rates shall not exceed the firing rate limit.

For natural gas, use HHV = 1050 BTU/scf; for vent gas, use HHV = 1700 BTU/scf.

For the purpose of this condition, vent gas shall be defined to include, but not limited to total crude unit gases that are measured at flow meters FE-131 (Atmospheric Crude Unit) and FE-130 (Vacuum Crude Unit) that are routed to the inlet of the H₂S Removal/ Sour Gas Treating System.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : C97]

C1.19 The operator shall limit the throughput to no more than 12500 barrel(s) in any one calendar month.



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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The operator shall calculate the throughput, in barrels, by the following equation: $0.14 \times D \times D \times L$, where D is the diameter of the tank in feet based on the tank strapping chart and L is the total vertical one-way product level travel in feet per month.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the vertical movement of the product level. For the purpose of this condition, continuous recording is defined as once every 15 minutes.

The operator shall calculate the total one-way product level movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D48]

- C1.20 The operator shall limit the throughput to no more than 24,800 barrel(s) in any one calendar month.



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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The operator shall calculate the throughput, in barrels, by the following equation: $0.14 \times D \times D \times L$, where D is the diameter of the tank in feet based on the tank strapping chart and L is the total vertical one-way product level travel in feet per month.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the vertical movement of the product level. For the purpose of this condition, continuous recording is defined as once every 15 minutes.

The operator shall calculate the total one-way product level movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D47, D50, D284, D286]

- C1.21 The operator shall limit the throughput to no more than 97,984 barrel(s) in any one calendar month.



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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The operator shall calculate the throughput, in barrels, by the following equation: $0.14 \times D \times D \times L$, where D is the diameter of the tank in feet based on the tank strapping chart and L is the total vertical one-way product level travel in feet per month..

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the vertical movement of the product level. For the purpose of this condition, continuous recording is defined as once every 15 minutes.

The operator shall calculate the total one-way product level movement, in feet, on a daily and monthly basis..

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy..

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service..

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D251]

- C1.25 The operator shall limit the loading rate to no more than 12,166,666 gallon(s) in any one calendar month.



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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

To comply with this condition, the operator shall use the following equation to determine net shipment weight for each loading event: net shipment weight (lbs) = full (gross) truck weight (lbs) - empty (tare) truck weight (lbs).

To comply with this condition, the operator shall use the following equation to determine loading volume for each loading: Loading volume = net shipment weight (lbs) ÷ 8.50 (lbs/gal). The loading rate which is the sum of all loading volumes for the month shall not exceed the limit.

To comply with this condition, the operator shall record and maintain, in a tabular format, the date of loading, weightmaster ticket number, commodity temperature, net shipment weight, loading volume and loading rate.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition..

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D25]

C1.27 The operator shall limit the fuel usage to no more than 4.464 MM cubic feet in any one calendar month.

To comply with this condition, the operator shall install and maintain a(n) non-resettable totalizing fuel flow meter to accurately indicate the fuel usage being supplied to the heater.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D19]



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The operator shall comply with the terms and conditions set forth below:

C1.30 The operator shall limit the gasoline dispensed to no more than 120000 gallon(s) per year.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1401, 5-3-2002]

[Devices subject to this condition : D213]

C1.31 The operator shall limit the throughput to no more than 31,000 barrel(s) in any one calendar month.



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The operator shall comply with the terms and conditions set forth below:

The operator shall calculate the throughput, in barrels, by the following equation: $0.14 \times D \times D \times L$, where D is the diameter of the tank in feet based on the tank strapping chart and L is the total vertical one-way product level travel in feet per month.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the vertical movement of the product level. For the purpose of this condition, continuous recording is defined as once every 15 minutes.

The operator shall calculate the total one-way product level movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D49, D252, D270]

C1.32 The operator shall limit the throughput to no more than 155,000 barrel(s) in any one calendar month.



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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The operator shall calculate the throughput, in barrels, by the following equation: $0.14 \times \bar{D} \times D \times L$, where \bar{D} is the diameter of the tank in feet based on the tank strapping chart and L is the total vertical one-way product level travel in feet per month..

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the vertical movement of the product level. For the purpose of this condition, continuous recording is defined as once every 15 minutes.

The operator shall calculate the total one-way product level movement, in feet, on a daily and monthly basis..

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy..

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service..

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D35]

C1.33 The operator shall limit the loading rate to no more than 80000 gallon(s) per day.



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The operator shall comply with the terms and conditions set forth below:

To comply with this condition, the operator shall install and maintain a(n) measuring device to accurately indicate the throughput from the equipment.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D136]

C1.34 The operator shall limit the throughput to no more than 41,667 barrel(s) in any one calendar month.



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The operator shall comply with the terms and conditions set forth below:

The operator shall calculate the throughput, in barrels, by the following equation: $0.14 \times D \times D \times L$, where D is the diameter of the tank in feet based on the tank strapping chart and L is the total vertical one-way product level travel in feet per month.

The operator shall use Radar Gauge or other methods approved by SCAQMD and recorder to continuously record the vertical movement of the product level. For the purpose of this condition, continuous recording is defined as at least once every 15 minutes.

The operator shall calculate the total one-way product level movement, in feet, on a daily and monthly basis.

The Radar Gauge installed shall be verified once per quarter by comparing against a manual tank level measurement. If the gauge differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, it shall be repaired and put back into service within 10 days. While the Radar Gauge is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the Radar Gauge, it shall be repaired (if necessary) and put back into service within 10 days of the time that the gauge failed or was removed from service for maintenance. While the Radar Gauge is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the Gauge went out of service.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D125]

- C1.35 The operator shall limit the throughput to no more than 25,000 barrel(s) in any one calendar month.



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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The operator shall calculate the throughput, in barrels, by the following equation: $0.14 \times D \times D \times L$, where D is the diameter of the tank in feet based on the tank strapping chart and L is the total vertical one-way product level travel in feet per month.

The operator shall use Radar Gauge or other methods approved by South Coast AQMD and recorder to continuously record the vertical movement of the product level. For the purpose of this condition, continuous recording is defined as at least once every 15 minutes.

The operator shall calculate the total one-way product level movement, in feet, on a daily and monthly basis.

The Radar Gauge installed shall be verified once per quarter by comparing against a manual tank level measurement. If the gauge differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, it shall be repaired and put back into service within 10 days. While the Radar Gauge is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the Radar Gauge, it shall be repaired (if necessary) and put back into service within 10 days of the time that the gauge failed or was removed from service for maintenance. While the Radar Gauge is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the Gauge went out of service.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D129]

C1.36 The operator shall limit the firing rate to no more than 1.4 MM Btu per hour.



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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

An identification tag or nameplate shall be displayed on the equipment to show manufacturer, model and/or serial number with the firing rate. The tag or plate shall be issued by the manufacturer, and shall be adhered to the equipment in a permanent and conspicuous position.

[RULE 2005, 6-3-2011; RULE 203, 1-5-1990; RULE 203, 12-3-2004]

[Devices subject to this condition : C105]

C1.37 The operator shall limit the throughput to no more than 500 gallon(s) in any one calendar month.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D266]

C1.38 The operator shall limit the throughput to no more than 75,000 barrel(s) in any one calendar month.



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The operator shall comply with the terms and conditions set forth below:

The operator shall calculate the throughput, in barrels, by the following equation: $0.14 \times D \times D \times L$, where D is the diameter of the tank in feet based on the tank strapping chart and L is the total vertical one-way roof travel in feet per month.

The operator shall use Radar Gauge or other methods approved by SCAQMD and recorder to continuously record the vertical movement of the product level. For the purpose of this condition, continuous recording is defined as at least once every 15 minutes.

The operator shall calculate the total one-way product level movement, in feet, on a daily and monthly basis.

The Radar Gauge installed shall be verified once per quarter by comparing against a manual tank level measurement. If the Gauge differs from the manual tank level measurement by more than 1.0 inch or 0.8% whichever is greater, it shall be repaired and put back into service within 10 days. While the Radar Gauge is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the Radar Gauge, it shall be repaired (if necessary) and put back into service within 10 days of the time that the Gauge failed or was removed from service for maintenance. While the Radar Gauge is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the Gauge went out of service.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D267]

C1.39 The operator shall limit the throughput to no more than 155,000 barrel(s) in any one calendar month.



**FACILITY PERMIT TO OPERATE
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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

For the purpose of this condition, the above limit is inclusive of a maximum throughput limit of no more than 2,000 barrel(s) in any one calendar month for Naphtha.

The operator shall calculate the tank throughput, in barrels, by the following equation: $0.14 \times D \times D \times L$, where D is the diameter of the tank in feet based on the tank strapping chart and L is the total vertical one-way product level travel in feet per month.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the vertical movement of the product level. For the purpose of this condition, continuous recording is defined as once every 15 minutes.

The operator shall calculate the total one-way product level movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D269]



**FACILITY PERMIT TO OPERATE
LUNDAY-THAGARD CO DBA WORLD OIL REFINING**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- C1.40 The operator shall limit the throughput to no more than 31,250 gallon(s) in any one calendar month.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D274]

- C1.41 The operator shall limit the throughput to no more than 50,000 barrel(s) in any one calendar month.

The operator shall calculate the throughput, in barrels, by the following equation: $0.14 \times D \times D \times L$, where D is the diameter of the tank in feet based on the tank strapping chart and L is the total vertical one-way product level travel in feet per month.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the vertical movement of the product level. For the purpose of this condition, continuous recording is defined as once every 15 minutes.

The operator shall calculate the total one-way product level movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the time that the ATLG went out of service.



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The operator shall comply with the terms and conditions set forth below:

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D58, D64, D152]

C1.42 The operator shall limit the throughput to no more than 33,333 barrel(s) in any one calendar month.

The operator shall calculate the throughput, in barrels, by the following equation: $0.14 \times D \times D \times L$, where D is the diameter of the tank in feet based on the tank strapping chart and L is the total vertical one-way product level travel in feet per month.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the vertical movement of the product level. For the purpose of this condition, continuous recording is defined as once every 15 minutes.

The operator shall calculate the total one-way product level movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the ATLG went out of service.



**FACILITY PERMIT TO OPERATE
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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D123]

- C1.43 The operator shall limit the throughput to no more than 92,000 barrel(s) in any one calendar month.

The operator shall calculate the throughput, in barrels, by the following equation: $0.14 \times D \times D \times L$, where D is the diameter of the tank in feet based on the tank strapping chart and L is the total vertical one-way product level travel in feet per month.

The operator shall install and maintain an automatic tank level gauge (ATLG) and recorder to continuously record the vertical movement of the product level. For the purpose of this condition, continuous recording is defined as once every 15 minutes.

The operator shall calculate the total one-way product level movement, in feet, on a daily and monthly basis.

The ATLG installed shall be verified once per quarter by comparing against a manual tank level measurement. If the ATLG differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, the ATLG shall be repaired and put back into service within 10 days. While the ATLG is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the ATLG, the ATLG shall be repaired (if necessary) and put back into service within 10 days of the time that the ATLG failed or was removed from service for maintenance. While the ATLG is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the time that the ATLG went out of service.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]



**FACILITY PERMIT TO OPERATE
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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[Devices subject to this condition : D62, D66]

C1.44 The operator shall limit the throughput to no more than 22,500 barrel(s) in any one calendar month.

For the purpose of this condition, throughput shall be defined as Asphalt Flux throughput.

This limit above shall be based on the total combined throughput for D41 and D42.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D41, D42]

C1.45 The operator shall limit the throughput to no more than 92,000 barrel(s) in any one calendar month.



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The operator shall comply with the terms and conditions set forth below:

The operator shall calculate the throughput, in barrels, by the following equation: $0.14 \times D \times D \times L$, where D is the diameter of the tank in feet based on the tank strapping chart and L is the total vertical one-way product level travel in feet per month.

The operator shall use Radar Gauge or other methods approved by SCAQMD and recorder to continuously record the vertical movement of the product level. For the purpose of this condition, continuous recording is defined as at least once every 15 minutes.

The operator shall calculate the total one-way product level movement, in feet, on a daily and monthly basis.

The Radar Gauge installed shall be verified once per quarter by comparing against a manual tank level measurement. If the gauge differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, it shall be repaired and put back into service within 10 days. While the Radar Gauge is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the Rader Gauge, it shall be repaired (if necessary) and put back into service within 10 days of the time that the gauge failed or was removed from service for maintenance. While the Radar Gauge is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the Gauge went out of service.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D292]

- C1.46 The operator shall limit the throughput to no more than 100,000 barrel(s) in any one calendar month.



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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The operator shall calculate the throughput, in barrels, by the following equation: $0.14 \times D \times D \times L$, where D is the diameter of the tank in feet based on the tank strapping chart and L is the total vertical one-way product level travel in feet per month.

The operator shall use Radar Gauge or other methods approved by SCAQMD and recorder to continuously record the vertical movement of the product level. For the purpose of this condition, continuous recording is defined as at least once every 15 minutes.

The operator shall calculate the total one-way product level movement, in feet, on a daily and monthly basis.

The Radar Gauge installed shall be verified once per quarter by comparing against a manual tank level measurement. If the gauge differs from the manual tank level measurement by more than 1.0 inch or 0.8%, whichever is greater, it shall be repaired and put back into service within 10 days. While the Radar Gauge is being repaired, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to the discovery of the discrepancy.

In the event of a failure or routine maintenance of the Radar Gauge, it shall be repaired (if necessary) and put back into service within 10 days of the time that the gauge failed or was removed from service for maintenance. While the Radar Gauge is being repaired or maintained, the throughput shall be determined by the hourly tank level data averaged from the previous 30 days prior to time that the Gauge went out of service.

[RULE 463, 11-4-2011; RULE 463, 6-7-2024]

[Devices subject to this condition : D73, D75]

C1.47 The operator shall limit the heat input to no more than 39 MM Btu per hour.



**FACILITY PERMIT TO OPERATE
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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

This limit shall be based on a rolling 24 hour averaging period.

For the purpose of this condition, firing rate shall be defined as the product of the natural gas flow rate to the heater, multiplied by the higher heating value (HHV) of natural gas.

To comply with this condition, the operator shall install and maintain a(n) continuous fuel flow meter for natural gas and use the RECLAIM default HHV value for natural gas.

Monitoring requirements shall not apply during regular calibration checks of the system, or routine maintenance and repair lasting 60 minutes or less. The operator shall also install and maintain a device to continuously record the parameter being measured except during calibration checks, or routine maintenance and repair lasting 60 minutes or less..

In the event of a monitoring and/or recording system malfunction or failure, which exceeds 24 hours, the operator shall notify the Executive Officer within 24 hours of the malfunction or failure.

Compliance with the requirement to continuously monitor and record data is waived for a period not to exceed 96 consecutive hours. Such waiver is extended beyond 96 consecutive hours only if a petition for an interim variance is filed in accordance with Regulation V and shall terminate at the time the Hearing Board acts upon such variance petition.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D20]

C6.2 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, does not exceed 450 Deg F.

To comply with this condition, the operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the storage tank.



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The operator shall comply with the terms and conditions set forth below:

[RULE 463, 11-4-2011; RULE 463, 6-7-2024]

[Devices subject to this condition : D48]

- C8.1 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 1400 Deg F.

To comply with this condition, the operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature in the firebox or in the ductwork immediately downstream from the firebox.

The measuring device or gauge shall be accurate to within plus or minus 50 degrees F. It shall be calibrated once every 12 months.

The operator shall also install and maintain a device to continuously record the parameter being measured.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C105]

- C8.4 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 1400 Deg F.



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The operator shall comply with the terms and conditions set forth below:

To comply with this condition, the operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature in the or in the ductwork immediately downstream from the firebox.

A source test is required to determine control efficiency of this equipment at this firebox temperature.

The operator shall also install and maintain a device to continuously record the parameter being measured.

The measuring device or gauge shall be accurate to within plus or minus 50 degrees F. It shall be calibrated once every 12 months.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C97]

D. Monitoring/Testing Requirements

D12.2 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 monitored once per month.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 11-9-2001]

[Devices subject to this condition : C126, C128, C130]

D12.5 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.



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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
CO emissions	District Method 100.1 or 10.1	District-approved averaging time	Outlet

The source test shall be conducted for CO once every three years in accordance with Rule 1146(d)(2) and (d)(4).

The test shall be conducted when this equipment is operating under as-found conditions to demonstrate compliance with the CO limits in Rule 407 and Rule 1146. The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

In addition to the source test, the operator shall perform diagnostic emission checks of CO emissions with a portable analyzer according to the Protocol for the Periodic Monitoring of Nitrogen Oxides, Carbon Monoxide, and Oxygen from Units Subject to South Coast AQMD Rules 1146 and 1146.1 - Emissions of Oxides of Nitrogen from Small Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters.

This equipment shall be subject to applicable diagnostic emission checks for CO emissions in Rule 1146.

[RULE 1109.1(d)(6), 11-5-2021; RULE 407, 4-2-1982]

[Devices subject to this condition : D19, D84, D214, D231]

D90.3 The operator shall continuously monitor the fuel gases to the inlet of this device according to the following specifications:



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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The operator shall use NSPS Subpart J approved instrument(s) meeting the requirements of 40CFR 60 Subpart J to monitor the equipment.

The operator shall also install and maintain a device to continuously record the parameter being monitored.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C97]

D90.4 The operator shall periodically monitor the vapor pressure of the material stored in this slop oil tank according to the following specifications:

The operator shall determine the true vapor pressure by the following method:
Sample and test the materials stored.

The operator shall monitor once every quarter.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D266]

D90.5 The operator shall periodically monitor the vapor pressure of the material stored in this tank according to the following specifications:

The operator shall determine the true vapor pressure by the following method:

Sample and test the materials stored.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]



FACILITY PERMIT TO OPERATE LUNDAY-THAGARD CO DBA WORLD OIL REFINING

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

For the purpose of this condition, throughput shall be defined as wastewater processed through the system.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the wastewater being processed through the system.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Systems subject to this condition : Process 4, System 1]

- S4.1 The following condition(s) shall apply to all affected devices listed under Section D of this system for fugitive emissions of volatile organic compounds (VOC):



FACILITY PERMIT TO OPERATE LUNDAY-THAGARD CO DBA WORLD OIL REFINING

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

All components are subject to District Rule 1173 and 40CFR60, Subpart GGG.

All new components in VOC service as defined in Rule 1173, except valves and flanges shall be inspected quarterly using EPA reference method 21. All new valves and flanges shall be inspected quarterly using EPA reference method 21.

All new components in VOC service, a leak greater than 500 ppm but less than 1,000 ppm measured as methane above background as measured using EPA Method 21, shall be repaired within 14 days of detection. Components shall be defined as any valve, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

All new valves in VOC service except those specifically exempted by Rule 1173, shall be of leakless type except as approved by the District in the following applications: heavy liquid service, control valve, instrument piping/tubing, application requiring torsional valve stem motion, applications where valves failure could pose safety hazard (e.g. drain valves with valve stems in horizontal position), and retrofits with space limitations, and valves not commercially available.

If 98.0 percent or greater of the new valves and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppm for two consecutive months, then the operator shall revert to a quarterly inspection program with the approval of the executive officer.

The operator shall keep records of the monthly inspection (and quarterly where applicable), subsequent repair, and reinspection, in a manner approved by the District.

[RULE 1173, 2-6-2009; 40CFR 60 Subpart GGG, 6-2-2008]

[Systems subject to this condition : Process 1, System 1 , 2; Process 2, System 1]

S4.2 The following condition(s) shall apply to all affected devices listed under Section D of this system for fugitive emissions of volatile organic compounds (VOC):



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SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

All components are subject to District Rule 1173.

All new components in VOC service as defined in Rule 1173, except valves and flanges shall be inspected quarterly using EPA reference method 21.

All new valves and flanges shall be inspected quarterly using EPA reference method 21.

All new components in VOC service, a leak greater than 500 ppm but less than 1,000 ppm measured as methane above background as measured using EPA Method 21, shall be repaired within 14 days of detection. Components shall be defined as any valve, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, and meter, which are not exempted by Rule 1173.

All new valves in VOC service except those specifically exempted by Rule 1173, shall be of leakless type except as approved by the District in the following applications: heavy liquid service, control valve, instrument piping/tubing, application requiring torsional valve stem motion, applications where valves failure could pose safety hazard (e.g. drain valves with valve stems in horizontal position), and retrofits with space limitations, and valves not commercially available.

If 98.0 percent or greater of the new valves and the new flange population inspected is found to leak gaseous or liquid volatile organic compounds at a rate less than 500 ppm for two consecutive months, then the operator shall revert to a quarterly inspection program with the approval of the executive officer.

The operator shall keep records of the monthly inspection (and quarterly where applicable), subsequent repair, and reinspection, in a manner approved by the District.

[RULE 1173, 2-6-2009]

[Systems subject to this condition : Process 4, System 1]



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SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

The Facility shall comply with all applicable monitoring and source testing requirements in Regulation XX. These requirements may include but are not limited to the following:

I. NOx Monitoring Conditions

A. The Operator of a NOx Major Source, as defined in Rule 2012, shall, as applicable:

Not Applicable

B. The Operator of a NOx Large Source, as defined in Rule 2012, shall, as applicable:

1. Install, maintain, and operate a totalizing fuel meter and any device specified by the Executive Officer as necessary to determine monthly fuel usage or other applicable variables specified in Rule 2012, Appendix A, Table 3-A. The sharing of totalizing fuel meter may be allowed by the Executive Officer if the fuel meter serves large sources which have the same emission factor, concentration limit, or emission rate. The sharing of totalizing fuel meters shall not be allowed for large sources which are required to comply with an annual heat input limit. [2012]
2. Comply at all times with the specified NOx concentration limit in PPM measured over any continuous 60 minutes for that source or establish an equipment-specific emission rate that is reliable, accurate, representative of that sources emissions, and in accordance with the requirements specified in Rule 2012, Appendix A, Chapter 5. [2012]

C. The Operator of a NOx Process Unit, as defined in Rule 2012, shall, as applicable:

1. Install, maintain, and operate a totalizing fuel meter or any device approved by the Executive Officer to measure quarterly fuel usage or other applicable variables specified in Rule 2012, Table 2012-1, and Rule 2012, Appendix A, Table 4-A. The sharing of totalizing fuel meters may be allowed by the Executive Officer if the fuel meter serves process units which have the same emission factor or emission rate. The sharing of totalizing meter shall not be allowed for process units which are required to comply with an annual heat input limit. [2012]



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SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

II. NO_x Source Testing and Tune-up conditions

1. The operator shall, as applicable, conduct all required NO_x source testing in compliance with an SCAQMD-approved source test protocol. [2012]
2. The operator shall, as applicable, conduct source tests for every large NO_x source no later than June 30, 1997 and every 3 years thereafter. The source test shall include the determination of NO_x concentration and a relative accuracy audit of the exhaust stack flow determination (e.g. in-stack flow monitor or fuel flow monitor based F-factor calculation). Such source test results shall be submitted per the schedule described by APEP. In lieu of submitting the first source test report, the facility permit holder may submit the results of a source test not more than 3 years old which meets the requirements when conducted. [2012]
3. All NO_x large sources and NO_x process units shall be tuned-up in accordance with the schedule specified in Rule 2012, Appendix A, Chapter 5, Table 5-B. [2012]

III. SO_x monitoring conditions

D. The Operator of a SO_x Major Source, as defined in Rule 2011, shall, as applicable:

1. Install, maintain, and operate an SCAQMD certified direct or time-shared monitoring device or an approved alternative monitoring device for each major SO_x source to continuously measure the concentration of SO_x emissions or fuel sulfur content and all other applicable variables specified in Rule 2011, Table 2011-1 and Rule 2011, Appendix A, Table 2-A to determine the SO_x emissions rate from each source. The time-sharing of CEMS among SO_x sources may be allowed by the Executive Officer in accordance with the requirements for time sharing specified in Appendix A. [2011]
2. Install, maintain, and operate totalizing fuel meter approved by the Executive Officer for each major source. [2011]



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SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

3. If the facility is operating existing CEMS and fuel meters, continue to follow recording and reporting procedures required by SCAQMD Rules and Regulations in effect prior to October 15, 1993 until the CEMS is certified pursuant to Rule 2011. [2011]
 4. Use valid data collected by an SCAQMD certified or provisionally certified CEMS in proper operation that meets all the requirements of Appendix A of Rule 2011, unless final certification of the CEMS is denied, to determine mass emissions for all purposes, including, but not limited to, determining: [2011]
 - a. compliance with the annual Allocation;
 - b. excess emissions;
 - c. the amount of penalties; and
 - d. fees.
 5. Follow missing data procedures as specified in Rule 2011 Appendix A whenever valid data is not available or collected to determine mass emissions for all purposes, including, but not limited to, determining: [2011]
 - a. compliance with the annual Allocation;
 - b. excess emissions;
 - c. the amount of penalties; and
 - d. fees.
- E. The Operator of a SO_x Process Unit, as defined in Rule 2011, shall, as applicable:
1. Install, maintain, and operate a totalizing fuel meter or any device approved by the Executive Officer to measure quarterly fuel usage or other applicable variables specified in Rule 2011, Table 2011-1, and Rule 2011, Appendix A, Table 3-A. The sharing of totalizing meters shall be allowed for process units except those using fuels with different sulfur contents. [2011]