

## **FACILITY PERMIT TO OPERATE**

**LUNDAY-THAGARD COMPANY  
9301 GARFIELD AVE  
SOUTH GATE, CA 90280**

### **NOTICE**

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.  
EXECUTIVE OFFICER

By \_\_\_\_\_  
Mohsen Nazemi, P.E.  
Deputy Executive Officer  
Engineering & Compliance

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION A: FACILITY INFORMATION

LEGAL OWNER &/OR OPERATOR: LUNDAY-THAGARD COMPANY

LEGAL OPERATOR (if different than owner):

EQUIPMENT LOCATION: 9301 GARFIELD AVE  
SOUTH GATE, CA 90280-3898

MAILING ADDRESS: 9302 GARFIELD AVE  
SOUTH GATE, CA 90280

RESPONSIBLE OFFICIAL: JOHN WASNER

TITLE: VICE PRESIDENT OF REFINING

TELEPHONE NUMBER: (562) 928-7000

CONTACT PERSON: MARCUS RUSCIO

TITLE: DIRECTOR OF ENVIRONMENTAL AFFAIRS

TELEPHONE NUMBER: (562) 928-7000

TITLE V PERMIT ISSUED:

TITLE V PERMIT EXPIRATION DATE:

TITLE V	RECLAIM
YES	NOx: YES SOx: YES CYCLE: 2 ZONE: COASTAL

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of NO<sub>x</sub> RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. Total NO<sub>x</sub> emission shall not exceed such annual allocations unless the operator obtains RTCs corresponding to the facility's increased emissions in compliance with Rules 2005 and 2007.

The level of Starting Allocation plus Non-Tradable Credits used to determine compliance with Rule 2005(c)(4) and applicability of Rule 2005(e) - Trading Zone Restrictions is listed on the last page of this Section.

The following table lists the annual allocations that were issued to this facility and the amounts of RTCs held by this facility on the day of printing this Section.

#### RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

Year		Zone	NO <sub>x</sub> RTC Initially Allocated	NO <sub>x</sub> RTC <sup>1</sup> Holding as of 05/13/09 (pounds)	Non-Tradable <sup>2</sup> Non-Usable RTCs (pounds)
Begin (month/year)	End				
7/2005	6 /2006	Coastal	46804	1384	0
7/2006	6 /2007	Coastal	46804	1948	0
1/2007	12/2007	Coastal	0	0	0
7/2007	6 /2008	Coastal	46804	813	0
1/2008	12/2008	Coastal	0	6330	0
7/2008	6 /2009	Coastal	46804	40064	1264
7/2009	6 /2010	Coastal	46804	38801	2527
7/2010	6 /2011	Coastal	46804	37537	3791
7/2011	6 /2012	Coastal	46804	36273	5055
7/2012	6 /2013	Coastal	46804	36273	5055
7/2013	6 /2014	Coastal	46804	36273	5055
7/2014	6 /2015	Coastal	46804	36273	5055
7/2015	6 /2016	Coastal	46804	36273	5055
7/2016	6 /2017	Coastal	46804	36273	5055
7/2017	6 /2018	Coastal	46804	36273	5055
7/2018	6 /2019	Coastal	46804	36273	5055
7/2019	6 /2020	Coastal	46804	36273	5055

Footnotes:

1. This number may change due to pending trades, emissions reported under Quarterly Certification of Emissions Report (QCER) and Annual Permit Emission Program (APEP) Report required pursuant to Rule 2004, or deductions made pursuant to Rule 2010(b). The most recent total RTC information can be obtained from the District's RTC Listing.
2. The use of such credits is subject to restrictions set forth in paragraph (f)(1) of Rule 2002.

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of NO<sub>x</sub> RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. Total NO<sub>x</sub> emission shall not exceed such annual allocations unless the operator obtains RTCs corresponding to the facility's increased emissions in compliance with Rules 2005 and 2007.

The level of Starting Allocation plus Non-Tradable Credits used to determine compliance with Rule 2005(c)(4) and applicability of Rule 2005(e) - Trading Zone Restrictions is listed on the last page of this Section.

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Begin (month/year)	End				
7/2020	6 /2021	Coastal	46804	36273	5055
7/2021	6 /2022	Coastal	46804	36273	5055
7/2022	6 /2023	Coastal	46804	36273	5055

Footnotes:

1. This number may change due to pending trades, emissions reported under Quarterly Certification of Emissions Report (QCER) and Annual Permit Emission Program (APEP) Report required pursuant to Rule 2004, or deductions made pursuant to Rule 2010(b). The most recent total RTC information can be obtained from the District's RTC Listing.
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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of SO<sub>x</sub> RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. Total SO<sub>x</sub> emission shall not exceed such annual allocations unless the operator obtains RTCs corresponding to the facility's increased emissions in compliance with Rules 2005 and 2007.

The level of Starting Allocation plus Non-Tradable Credits used to determine compliance with Rule 2005(c)(4) and applicability of Rule 2005(e) - TradingZone Restrictions is listed on the last page of this Section.

The following table lists the annual allocations that were issued to this facility and the amounts of RTCs held by this facility on the day of printing this Section.

#### RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

Year		Zone	SO <sub>x</sub> RTC Initially Allocated	SO <sub>x</sub> RTC <sup>1</sup> Holding as of 05/13/09 (pounds)	Non-Tradable <sup>2</sup> Credits (NTCs) (pounds)
Begin (month/year)	End				
7/2005	6 /2006	Coastal	0	0	
7/2006	6 /2007	Coastal	0	0	
7/2007	6 /2008	Coastal	0	0	
1/2008	12/2008	Coastal	0	19999	
7/2008	6 /2009	Coastal	0	18000	
7/2009	6 /2010	Coastal	0	0	
7/2010	6 /2011	Coastal	0	0	
7/2011	6 /2012	Coastal	0	0	
7/2012	6 /2013	Coastal	0	0	
7/2013	6 /2014	Coastal	0	0	
7/2014	6 /2015	Coastal	0	0	
7/2015	6 /2016	Coastal	0	0	
7/2016	6 /2017	Coastal	0	0	
7/2017	6 /2018	Coastal	0	0	
7/2018	6 /2019	Coastal	0	0	
7/2019	6 /2020	Coastal	0	0	
7/2020	6 /2021	Coastal	0	0	

Footnotes:

1. This number may change due to pending trades, emissions reported under Quarterly Certification of Emissions Report (QCER) and Annual Permit Emission Program (APEP) Report required pursuant to Rule 2004, or deductions made pursuant to Rule 2010 (b). The most recent total RTC information can be obtained from the District's RTC Listing.
2. The use of such credits is subject to restrictions set forth in paragraph (h)(2) of Rule 2002.

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of SO<sub>x</sub> RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. Total SO<sub>x</sub> emission shall not exceed such annual allocations unless the operator obtains RTCs corresponding to the facility's increased emissions in compliance with Rules 2005 and 2007.

The level of Starting Allocation plus Non-Tradable Credits used to determine compliance with Rule 2005(c)(4) and applicability of Rule 2005(e) - TradingZone Restrictions is listed on the last page of this Section.

The following table lists the annual allocations that were issued to this facility and the amounts of RTCs held by this facility on the day of printing this Section.

#### RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

Year		Zone	SO <sub>x</sub> RTC Initially Allocated	SO <sub>x</sub> RTC <sup>1</sup> Holding as of 05/13/09 (pounds)	Non-Tradable <sup>2</sup> Credits (NTCs) (pounds)
Begin (month/year)	End				
7/2021	6 /2022	Coastal	0	0	
7/2022	6 /2023	Coastal	0	0	

Footnotes:

1. This number may change due to pending trades, emissions reported under Quarterly Certification of Emissions Report (QCER) and Annual Permit Emission Program (APEP) Report required pursuant to Rule 2004, or deductions made pursuant to Rule 2010 (b). The most recent total RTC information can be obtained from the District's RTC Listing.
2. The use of such credits is subject to restrictions set forth in paragraph (h)(2) of Rule 2002.

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. If the facility submits a permit application to increase an annual allocation to a level greater than the facility's Starting Allocation plus Non-Tradable Credits as listed below, the application will be evaluated for compliance with Rule 2005(c)(4). Rule 2005(e)-Trading Zone Restrictions applies if an annual allocation is increased to a level greater than the facility's Starting Allocation plus Non-Tradable Credits:

Year		Zone	NO <sub>x</sub> RTC Starting Allocation (pounds)	Non-Tradable Credits(NTCs) (pounds)
Begin	End			
7/1994	6 /1995	Coastal	64768	0

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**SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION**

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Year		Zone	SOx RTC	Non-Tradable
Begin	End		Starting Allocation (pounds)	Credits(NTCs) (pounds)
7/1994	6 /1995	Coastal	0	0

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**SECTION C: FACILITY PLOT PLAN**

(TO BE DEVELOPED)

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### 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
<b>Process 1 : CRUDE DISTILLATION</b>					
<b>System 1 : CRUDE ATMOSPHERIC DISTILLATION UNIT</b>					S4.1, S13.1, S15.1, S15.2, S54.1
FRACTIONATOR, C-2, CRUDE, HEIGHT: 72 FT 6 IN; DIAMETER: 6 FT A/N:	D6				
ACCUMULATOR, V-2, NAPHTHA , LENGTH: 5 FT 6 IN; DIAMETER: 2 FT 6 IN A/N:	D3				
ACCUMULATOR, V-2A, NAPHTHA, HEIGHT: 10 FT; DIAMETER: 4 FT A/N:	D2				
FRACTIONATOR, T-3, KEROSENE, WIDTH: 3 FT; HEIGHT: 6 FT 10 IN; LENGTH: 7 FT 8 IN A/N:	D4				
FRACTIONATOR, T-2, DIESEL , WIDTH: 3 FT; HEIGHT: 6 FT 10 IN; LENGTH: 8 FT A/N:	D5				
ACCUMULATOR, V-3, GAS OIL, HEIGHT: 15 FT; DIAMETER: 3 FT A/N:	D1				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D165				H23.8

\* (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 COMPANY

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
<b>Process 1 : CRUDE DISTILLATION</b>					
<b>System 2 : CRUDE VACUUM DISTILLATION UNIT</b>					S4.1, S13.1, S15.1, S15.2, S54.1
FRACTIONATOR, 1ST STAGE VACUUM, C-1A, HEIGHT: 32 FT; DIAMETER: 6 FT A/N:	D7				
FRACTIONATOR, 2ND STAGE VACUUM, C-1B, HEIGHT: 28 FT; DIAMETER: 7 FT 6 IN A/N:	D8				
EJECTOR, J-4, FIRST STAGE, VACUUM, CROLL-REYNOLDS, STEAM OPERATED A/N:	D17				H23.7
EJECTOR, J-5, 2ND STAGE, VACUUM, CROLL-REYNOLDS, STEAM OPERATED, VACUUM JET A/N:	D18				H23.7
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D166				H23.8
<b>System 3 : CRUDE HEATING SYSTEM</b>					S54.1
HEATER, PETROCHEM, ATMOSPHERIC CHARGE, NATURAL GAS, PROCESS GAS, WITH LOW NOX BURNER, FLUE GAS RECIRCULATION, 39 MMBTU/HR WITH A/N:	D20	D32 D45 D46 D47 D52 D68 D74 S195	NOX: LARGE SOURCE**	CO: 2000 PPMV (5A) [RULE 407,4-2-1982] ; CO: 400 PPMV (5) [RULE 1146,5-13-1994;RULE 1146,11-17-2000] ; NOX: 60 PPMV (3) [RULE 2012,12-7- 1995	C1.1, D28.1

\* (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

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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### 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
<b>Process 1 : CRUDE DISTILLATION</b>					
BURNER, NATURAL GAS, PROCESS GAS, COEN, MODEL CLN-17S, WITH LOW NOX BURNER, 39 MMBTU/HR				<i>RULE 2012.3-16-2001</i> ; <b>PM:</b> 0.1 GRAINS/SCF (5) [ <i>RULE 409,8-7-1981</i> ] ; <b>PM:</b> (9) [ <i>RULE 404,2-7-1986</i> ] ; <b>SOX:</b> 500 PPMV (5) [ <i>RULE 407,4-2-1982</i> ]	
STACK A/N:	S195	D20			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 330076	D167				H23.8
HEATER, JOY, VACUUM CHARGE, NATURAL GAS, WITH LOW NOX BURNER, FLUE GAS RECIRCULATION, 5.5 MMBTU/HR WITH A/N: 339698	D84	S194	NOX: PROCESS UNIT**	<b>CO:</b> 2000 PPMV (5A) [ <i>RULE 407,4-2-1982</i> ] ; <b>CO:</b> 400 PPMV (5) [ <i>RULE 1146,5-13-1994</i> ; <i>RULE 1146,11-17-2000</i> ] ; <b>NOX:</b> 0.045 LBS/MMBTU (1) [ <i>RULE 2012,12-7-1995</i> ]  <i>RULE 2012.3-16-2001</i> ; <b>PM:</b> 0.1 GRAINS/SCF (5) [ <i>RULE 409,8-7-1981</i> ] ; <b>PM:</b> (9) [ <i>RULE 404,2-7-1986</i> ] ; <b>SOX:</b> 500 PPMV (5) [ <i>RULE 407,4-2-1982</i> ]	D332.1

\* (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

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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### 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
<b>Process 1 : CRUDE DISTILLATION</b>					
BURNER, NATURAL GAS, COEN, MODEL SDAF-10, MICRO-NOX, WITH LOW NOX BURNER, 5.5 MMBTU/HR					
STACK A/N: 339698	S194	D84			
<b>Process 3 : LOADING AND UNLOADING</b>					
<b>System 1 : ROAD OIL LOADING/UNLOADING</b>					
LOADING ARM, ROAD OIL, WITH 4" DIA. FLEXIBLE HOSE, 4 TOTAL; DIAMETER: 4 IN A/N:	D25	D19			11.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D168				H23.8
<b>System 2 : ASPHALT LOADING/UNLOADING</b>					
LOADING ARM, ASPHALT, 2 TOTAL; DIAMETER: 4 IN A/N:	D29	D19			B22.4, C1.11, 11.1
UNLOADING ARM, ASPHALT, 4 TOTAL; DIAMETER: 4 IN A/N: 310122	D132				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 310122	D169				H23.8

\* (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.)  
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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### 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
<b>Process 3 : LOADING AND UNLOADING</b>					
<b>System 3 : EAST AREA NAPHTHA LOADING</b>					
LOADING ARM, TANK TRUCK / TRAILER, NAPHTHA, 2 TOTAL; DIAMETER: 3 IN A/N: 310123	D136	C105			C1.5, H23.9, 11.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 310123	D170				H23.8
<b>System 4 : CRUDE OIL UNLOADING</b>					
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
<b>System 5 : BULK PETROLEUM LOADING</b>					
LOADING ARM, TANK TRUCK / TRAILER, BULK PETROLEUM, 6 TOTAL; DIAMETER: 4 IN A/N: 310125	D142	C105			11.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 310125	D172				H23.8

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 (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

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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### 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
<b>Process 4 : WASTEWATER TREATING SYSTEM</b>					
<b>System 1 : WASTEWATER TREATING SYSTEM</b>					
AIR FLOATATION UNIT, DAF WITH CIRCULAR TRICELORATOR, WELDED, OPEN TOP, AND A SKIMMING ARM A/N:	D31				S1.1, S4.1, S54.1  H23.10, 11.1
INJECTOR, AIR A/N:	D33				
SETTLING TANK, COVERED, WITH TEN COMPARTMENTS A/N: 155834	D32	D20			H23.10, 11.1
DRAIN SYSTEM COMPONENT A/N:	D193				H23.10
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D173				H23.8
<b>Process 5 : STORAGE TANKS</b>					
<b>System 1 : FIXED ROOF</b>					
STORAGE TANK, FIXED ROOF, NO. 8705, JET FUEL (JP4), 8700 BBL; DIAMETER: 36 FT; HEIGHT: 48 FT A/N: C18770	D35				H23.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 1, 20000 GALS; DIAMETER: 12 FT; HEIGHT: 24 FT A/N: Z02778	D37				B22.3, H23.2, K67.2

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 (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

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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### 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
<b>Process 5 : STORAGE TANKS</b>					
STORAGE TANK, FIXED ROOF, NO. 2, 20000 GALS; DIAMETER: 12 FT; HEIGHT: 24 FT A/N: Z02779	D38				B22.3, H23.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 3, 20000 GALS; DIAMETER: 12 FT; HEIGHT: 24 FT A/N: Z02780	D39				B22.3, H23.2, K67.2
STORAGE TANK, FIXED ROOF, TANK NO. 4, 20000 GALS; DIAMETER: 12 FT; HEIGHT: 24 FT A/N: Z02781	D40				B22.3, H23.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 5, 20000 GALS; DIAMETER: 12 FT; HEIGHT: 24 FT A/N: Z02782	D41				B22.3, H23.2, K67.2
STORAGE TANK, FIXED ROOF, NO. 6, 20000 GALS; DIAMETER: 12 FT; HEIGHT: 24 FT A/N: Z02783	D42				B22.3, H23.2
STORAGE TANK, FIXED ROOF, 418, NAPHTHA, 20160 GALS; DIAMETER: 12 FT; HEIGHT: 24 FT A/N:	D45	D20			C1.9, H23.5, 11.1, 11.2
STORAGE TANK, FIXED ROOF, 10001, WITH A MIXER, 10000 BBL A/N:	D46	D20			H23.2, 11.1, 11.2, K67.2

\* (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 COMPANY

### 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
<b>Process 5 : STORAGE TANKS</b>					
STORAGE TANK, FIXED ROOF, 419, NAPHTHA, 20160 GALS; DIAMETER: 12 FT; HEIGHT: 24 FT A/N:	D47	D20			C1.9, H23.5, 11.1, 11.2
STORAGE TANK, FIXED ROOF, 420, NAPHTHA, GAS OIL, 20160 GALS; DIAMETER: 12 FT; HEIGHT: 24 FT A/N:	D48				H23.2, 11.1, 11.2, K67.2
STORAGE TANK, FIXED ROOF, 421, NAPHTHA, GAS OIL, 20160 GALS; DIAMETER: 12 FT; HEIGHT: 24 FT A/N:	D49				H23.2, 11.1, 11.2, K67.2
STORAGE TANK, FIXED ROOF, 422, NAPHTHA, GAS OIL, KEROSENE, 20160 GALS; DIAMETER: 12 FT; HEIGHT: 24 FT A/N:	D50				H23.2, 11.1, 11.2, K67.2
STORAGE TANK, FIXED ROOF, 423, NAPHTHA, GAS OIL, 20160 GALS; DIAMETER: 12 FT; HEIGHT: 24 FT A/N:	D51				H23.2, 11.1, 11.2, K67.2
STORAGE TANK, FIXED ROOF, 3703, 3700 BBL; DIAMETER: 30 FT; HEIGHT: 28 FT A/N:	D52	D20			H23.2, 11.1, 11.2, K67.2
STORAGE TANK, FIXED ROOF, 2029, ASPHALT, WITH A MIXER, 2000 BBL; DIAMETER: 19 FT; HEIGHT: 40 FT A/N: 380743	D58	C59			A63.1, C1.8, H23.1

\* (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

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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### 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
<b>Process 5 : STORAGE TANKS</b>					
CONDENSER, PACKED, 55-GAL DRUM, WITH STEEL WOOL A/N: 380743	C59	D58			D12.5, D322.1
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, 10000 BBL; DIAMETER: 42 FT 6 IN; HEIGHT: 40 FT 10 IN A/N: 380745	D62	C63			C1.8, H23.1
CONDENSER, PACKED, 55-GAL DRUM, WITH STEEL WOOL A/N: 380745	C63	D62			D12.5, D322.1
STORAGE TANK, FIXED ROOF, STEAM HEATED, 2025, HEIGHT: 40 FT; DIAMETER: 19 FT A/N: 380746	D64	C65			B22.1, C1.2, H23.2
CONDENSER, PACKED, 55-GAL DRUM, WITH STEEL WOOL A/N: 380746	C65	D64			D12.5, D322.1, E202.1
STORAGE TANK, FIXED ROOF, 10028, ASPHALT, WITH A MIXER, 10000 BBL; DIAMETER: 42 FT 6 IN; HEIGHT: 40 FT A/N: 380748	D66	C67			C1.8, H23.1

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 (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.)  
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 (10) See Section J for NESHAP/MACT requirements

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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### 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
<b>Process 5 : STORAGE TANKS</b>					
CONDENSER, PACKED, 55-GAL DRUM, WITH STEEL WOOL A/N: 380748	C67	D66			D12.5, D322.1
STORAGE TANK, FIXED ROOF, 10002, WITH A MIXER, 10000 BBL A/N:	D68	D20			H23.2, I1.1, I1.2, K67.2
STORAGE TANK, FIXED ROOF, (TANK B), ASPHALT, 305 BBL; DIAMETER: 9 FT 10 IN; HEIGHT: 27 FT A/N: C07534	D69				C6.3, H23.2, K67.2
STORAGE TANK, FIXED ROOF, STEAM HEATED, NO. 6606, DISTILLATE, ASPHALT, WITH INTERNAL STEAM COILS, 6600 BBL; DIAMETER: 32 FT; HEIGHT: 48 FT WITH A/N: 380750	D70	C203			C6.8, H23.2, K67.2
CONDENSER, PACKED, 55-GAL DRUM, WITH STEEL WOOL	C203	D70			D12.5, D322.1
STORAGE TANK, FIXED ROOF, STEAM HEATED, NO. 4208, WITH INTERNAL STEAM COILS, 4200 BBL; DIAMETER: 25 FT; HEIGHT: 48 FT WITH A/N: 380751	D71	C204			C6.9, H23.2, K67.2
CONDENSER, PACKED, 55-GAL DRUM, WITH STEEL WOOL	C204	D71			D12.5, D322.1

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 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5)(5A)(5B) Denotes command and control emission limit  
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 (7) Denotes NSR applicability limit  
 (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### 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
<b>Process 5 : STORAGE TANKS</b>					
STORAGE TANK, FIXED ROOF, STEAM HEATED, NO. 4209, WITH INTERNAL STEAM COILS, 4200 BBL; DIAMETER: 25 FT; HEIGHT: 48 FT WITH A/N: 380752	D72	C205			C6.8, H23.2, K67.2
CONDENSER, PACKED, 55-GAL DRUM, WITH STEEL WOOL	C205	D72			D12.5, D322.1
STORAGE TANK, FIXED ROOF, STEAM HEATED, NO. 4207, WITH A MIXER AND INTERNAL STEAM COILS, 4200 BBL; DIAMETER: 25 FT; HEIGHT: 48 FT WITH A/N: 380753	D73	C206			C6.8, H23.2, K67.2
CONDENSER, PACKED, 55-GAL DRUM, WITH STEEL WOOL	C206	D73			D12.5, D322.1
STORAGE TANK, 3504, 158640 GALS; DIAMETER: 30 FT; HEIGHT: 30 FT A/N:	D74	D20			H23.2, I1.1, I1.2, K67.2
STORAGE TANK, FIXED ROOF, STEAM HEATED, NO. 4210, WITH A MIXER AND INTERNAL STEAM COILS, 4200 BBL; DIAMETER: 25 FT; HEIGHT: 48 FT WITH A/N: 380755	D75	C207			C6.8, H23.2, K67.2
CONDENSER, PACKED, 55-GAL DRUM, WITH STEEL WOOL	C207	D75			D12.5, D322.1

\* (1)(1A)(1B) Denotes RECLAIM emission factor  
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 (3) Denotes RECLAIM concentration limit  
 (4) Denotes BACT emission limit  
 (5)(5A)(5B) Denotes command and control emission limit  
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 (7) Denotes NSR applicability limit  
 (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### 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
<b>Process 5 : STORAGE TANKS</b>					
STORAGE TANK, FIXED ROOF, STEAM HEATED, 4211, WITH A MIXER AND INTERNAL STEAM COILS, 4200 BBL; DIAMETER: 25 FT; HEIGHT: 48 FT WITH A/N: 380756	D76	C208			C6.8, H23.2, K67.2
CONDENSER, PACKED, 55-GAL DRUM, WITH STEEL WOOL	C208	D76			D12.5, D322.1
STORAGE TANK, FIXED ROOF, (DAY TANK), 2000 BBL; DIAMETER: 19 FT; HEIGHT: 40 FT A/N: 303451	D123	D124			B22.1, C1.10, H23.1
CONDENSER, PACKED, 42-GAL DRUM, WITH STEEL WOOL A/N: 303451	D124	D123			D12.5, D322.1
STORAGE TANK, FIXED ROOF, STEAM HEATED, 2026, ASPHALT, 2000 BBL; DIAMETER: 19 FT; HEIGHT: 40 FT A/N: 380757	D152	C153			C1.12, E71.3, H23.1
SCRUBBER, STEEL WOOL-PACKED A/N: 380757	C153	D152			D12.5, D322.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 380757	D174				H23.8

\* (1)(1A)(1B) Denotes RECLAIM emission factor  
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 (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  
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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### 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
<b>Process 7 : ASPHALT PROCESSING</b>					
<b>System 1 : ASPHALT BLOWING STILL NO. 1</b>					
STILL, NO. 1 - ASPHALT BLOWING, HEIGHT: 35 FT; DIAMETER: 12 FT 8 IN A/N: C14209	D80	C98			H23.6, 11.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: C14209	D178				H23.8
<b>System 2 : ASPHALT BLOWING STILL NO. 2</b>					
STILL, NO. 2 - ASPHALT BLOWING, HEIGHT: 35 FT; DIAMETER: 12 FT 8 IN A/N: C14210	D81	C99			H23.6, 11.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: C14210	D179				H23.8
<b>System 3 : ASPHALT BLOWING STILL NO. 3</b>					
STILL, NO. 3 - ASPHALT BLOWING, HEIGHT: 35 FT; DIAMETER: 12 FT 8 IN A/N: C14211	D82	C100			H23.6, 11.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: C14211	D180				H23.8

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 (5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit  
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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### 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
<b>Process 7 : ASPHALT PROCESSING</b>					
<b>System 4 : ASPHALT BLOWING STILL NO. 4</b>					
STILL, NO. 4 - ASPHALT BLOWING, ASPHALT, HEIGHT: 35 FT; DIAMETER: 12 FT 8 IN A/N: C14208	D83	C101			H23.6, 11.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: C14208	D181				H23.8
<b>Process 9 : AIR POLLUTION CONTROL</b>					
<b>System 1 : APC SYSTEM SERVING ASPHALT STILLS</b>					S54.1
SCRUBBER, NO. 1, OIL A/N: C14209	C98	D80 D131			
SCRUBBER, NO. 2, OIL A/N: C14210	C99	D81 D131			
SCRUBBER, NO. 3, OIL A/N: C14211	C100	D82 D131			
SCRUBBER, NO. 4, OIL A/N: C14208	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			

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 (5)(5A)(5B) Denotes command and control emission limit  
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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### 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
<b>Process 9 : AIR POLLUTION CONTROL</b>					
INCINERATOR, NATURAL GAS, PROCESS GAS, 14 MMBTU/HR A/N:	C97	S199 C210	NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; NOX: 0.13 LBS/MMBTU (1) [RULE 2012,12-7-1995;RULE 2012,3-16-2001] ; PM: (9) [RULE 404,2-7-1986]  PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] ; SOX: 500 PPMV (5) [RULE 407,4-2-1982]	C8.1, 11.1
STACK A/N:	S199	C97			
<b>System 2 : APC SYSTEM SERVING NAPHTHA LOADING</b>					S54.1
BLOWER, NAPHTHA TURBO A/N: 137467	C102				
INCINERATOR, NAO-VAPOR DISPOSAL, NATURAL GAS, PROCESS GAS, 1.4 MMBTU/HR A/N: 137467	C105	D136 D142 S200	NOX: PROCESS UNIT** ; SOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; NOX: 0.13 LBS/MMBTU (1) [RULE 2012,12-7-1995;RULE 2012,3-16-2001] ; 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] ; SOX: 500 PPMV (5) [RULE 407,4-2-1982]	C8.1, D28.4, 11.1

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 (5)(5A)(5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit  
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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### 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
<b>Process 9 : AIR POLLUTION CONTROL</b>					
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 137467	D184				H23.8
STACK A/N: 137467	S200	C105			
<b>System 3 : Recirculating Road Oil Heater</b>					S54.1
HEATER, ROAD OIL, V-3, NATURAL GAS, PROCESS GAS, WITH LOW NOX BURNER, FLUE GAS RECIRCULATION, 6.3 MMBTU/HR WITH A/N:  BURNER, NATURAL GAS, COEN, MICRONOX, MODEL SDA-10, WITH LOW NOX BURNER, 6.3 MMBTU/HR	D19	D25 D29 S198	NOX: PROCESS UNIT**	CO: 2000 PPMV (5A) [RULE 407,4-2-1982] ; CO: 400 PPMV (5) [RULE 1146,5-13-1994;RULE 1146,11-17-2000] ; NOX: 0.045 LBS/MMBTU (1) [RULE 2012,12-7-1995  RULE 2012,3-16-2001] ; PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] ; PM: (9) [RULE 404,2-7-1986] ; SOX: 500 PPMV (5) [RULE 407,4-2-1982]	C8.2
STACK A/N:	S198	D19			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N:	D182				H23.8

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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### 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
<b>Process 10 : R-219 EXEMPT EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULES</b>					
RULE 219 EXEMPT EQUIPMENT, AIR CONDITIONING UNITS	E185				H23.3
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, SMALL, UNHEATED, NON-CONVEYORIZED	E190			<b>VOC:</b> (9) [RULE 1107,8-14-1998;RULE 1107,11-17-2000;RULE 1136,6-14-1996;RULE 1171,6-43-1997;RULE 1171,10-8-1999]	
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATING	E191			<b>VOC:</b> (9) [RULE 1113,5-44-1999;RULE 1171,6-43-1997;RULE 1171,10-8-1999]	K67.1
RULE 219 EXEMPT EQUIPMENT, FIRE EXTINGUISHING EQUIPMENT USING HALONS	E192				H23.4
<b>Process 11 : MISCELLANEOUS PETROLEUM</b>					
<b>System 1 : FUEL STORAGE AND DISPENSING</b>					
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			<b>ROG:</b> (9) [RULE 461, Phil-Tite Phase I, VST w/o ISD Phase II,3-7-2008;RULE 461, Universal Conditions,3-7-2008]	E448.1, 11.3, K67.3

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 (5)(5A)(5B) Denotes command and control emission limit  
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 (8)(8A)(8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)  
 (9) See App B for Emission Limits  
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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### 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
<b>Process 11 : MISCELLANEOUS PETROLEUM</b>					
FUEL DISPENSING NOZZLE, VST PHASE II EVR W/O ISD (VR-203-E), GASOLINE A/N: 493561	D213			<b>ROG:</b> (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, E448.1, I1.3, K67.3

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 (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  
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 (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 COMPANY**

**SECTION D: DEVICE ID INDEX**

**The following sub-section provides an index  
to the devices that make up the facility  
description sorted by device ID.**

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D1	1	1	1
D2	1	1	1
D3	1	1	1
D4	1	1	1
D5	1	1	1
D6	1	1	1
D7	2	1	2
D8	2	1	2
D17	2	1	2
D18	2	1	2
D19	16	9	3
D20	2	1	3
D25	4	3	1
D29	4	3	2
D31	6	4	1
D32	6	4	1
D33	6	4	1
D35	6	5	1
D37	6	5	1
D38	7	5	1
D39	7	5	1
D40	7	5	1
D41	7	5	1
D42	7	5	1
D45	7	5	1
D46	7	5	1
D47	8	5	1
D48	8	5	1
D49	8	5	1
D50	8	5	1
D51	8	5	1
D52	8	5	1
D58	8	5	1
C59	9	5	1
D60	9	5	1
C61	9	5	1

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

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Device Index For Section D			
Device ID	Section D Page No.	Process	System
D62	9	5	1
C63	9	5	1
D64	9	5	1
C65	9	5	1
D66	9	5	1
C67	10	5	1
D68	10	5	1
D69	10	5	1
D70	10	5	1
D71	10	5	1
D72	11	5	1
D73	11	5	1
D74	11	5	1
D75	11	5	1
D76	12	5	1
D80	13	7	1
D81	13	7	2
D82	13	7	3
D83	14	7	4
D84	3	1	3
C97	15	9	1
C98	14	9	1
C99	14	9	1
C100	14	9	1
C101	14	9	1
C102	15	9	2
C105	15	9	2
D123	12	5	1
D124	12	5	1
D131	14	9	1
D132	4	3	2
D136	5	3	3
D138	5	3	4
D142	5	3	5
D152	12	5	1
C153	12	5	1

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D154	5	3	4
D165	1	1	1
D166	2	1	2
D167	3	1	3
D168	4	3	1
D169	4	3	2
D170	5	3	3
D171	5	3	4
D172	5	3	5
D173	6	4	1
D174	12	5	1
D178	13	7	1
D179	13	7	2
D180	13	7	3
D181	14	7	4
D182	16	9	3
D184	16	9	2
E185	17	10	0
E190	17	10	0
E191	17	10	0
E192	17	10	0
D193	6	4	1
S194	4	1	3
S195	3	1	3
S198	16	9	3
S199	15	9	1
S200	16	9	2
C203	10	5	1
C204	10	5	1
C205	11	5	1
C206	11	5	1
C207	11	5	1
C208	12	5	1
C209	14	9	1
D212	17	11	1
D213	18	11	1

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

#### FACILITY CONDITIONS

F2.1 The operator shall limit emissions from this facility as follows:

CONTAMINANT	EMISSIONS LIMIT
Single Volatile Hazardous Air Pollutant (VHAP)	Less than 10 TONS IN ANY ONE YEAR
Combination of Volatile Hazardous Air Pollutants (VHAPs)	Less than 25 TONS IN ANY ONE YEAR

**[40CFR 63 Subpart A, 3-16-1994; 40CFR 63 Subpart CC, 8-18-1995]**

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or

(b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

**[RULE 401, 3-2-1984; RULE 401, 9-11-1998]**

F14.1 The operator shall not use natural gas containing sulfur compounds in excess of 16 ppmv calculated as hydrogen sulfide.

**[RULE 431.1, 6-12-1998]**

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

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

F16.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

1. The operator shall comply with all applicable recordkeeping, reporting, and other requirements of 40CFR63 Subpart A and Section 63.640(k) of Subpart CC
2. The operator shall submit all requests, reports, notifications, submittals, and other communications required by 40CFR63 Subpart A or Subpart CC to the AQMD or/and US EPA Region IX, where applicable (see addresses in Sections E and K of this permit)
3. The operator shall submit to AQMD applications for plan (alternative plans, compliance plans, etc.) and permits to construct and operate new equipment or equipment modifications, which are required by 40CFR63 Subpart A or Subpart CC, as a Title V permit revision for the approval by the Executive Officer

**[40CFR 63 Subpart A, 3-16-1994; 40CFR 63 Subpart CC, 8-18-1995]**

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- F25.1 The permit holder of this facility shall not install, alter, or operate a refinery process unit or other non-Rule 219 exempt equipment without a valid RECLAIM/Title V permit issued by the AQMD pursuant to Rule 201 - Permit to Construct, Rule 203 - Permit to Operate, Rule 2004 - Requirements, and Rule 3002 - Requirements, as applicable.

Notwithstanding the above, the provisions of Rules 201, 203, 2004, and 3002 shall not apply to installations or alterations that involve only the equipment listed in Table 1 below, nor shall they apply to the operation of equipment listed in Table 1, when directly associated with permitted process units or other permitted equipment.

Notwithstanding the above, all new equipment listed in Table 1, including associated fugitive components installed with such equipment, shall have Best Available Control Technology installed in conformance with the Best Available Control Technology Guidelines in effect at the time of the installation.

TABLE 1

- (a) Heat Exchanger (including air-cooler, reboiler, cooler, condenser, and shell and tube exchanger)
- (b) In-line Mixer
- (c) Pump
- (d) Knockout Pot - Compressor inlet (immediate inlet) and interstage
- (e) Knockout Pot - Fuel Gas System (downstream of fuel gas mix drums)

This condition applies only to the facility that processes petroleum as defined in the Standard Industrial Classification Manual as Industry No. 2911 - Petroleum Refining, as well as its directly associated sulfur recovery plant which may be located outside of the facility.

- F34.1 The operator shall not sell natural gas containing sulfur compounds in excess of 16 ppmv, calculated as hydrogen sulfide (H<sub>2</sub>S).

**[RULE 431.1, 6-12-1998]**

- F34.2 The operator shall not sell refinery gas containing sulfur compounds in excess of 40 ppmv, calculated as hydrogen sulfide, averaged over 4-hour period.

**[RULE 431.1, 6-12-1998]**

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

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

- F51.1 The operator shall comply with all requirements specified in the applicable contractor's various locations permits whenever the contractor operates the equipment.

**[RULE 204, 10-8-1993]**

- F52.1 This facility is subject to the applicable requirements of the following rules or regulation(s):

40CFR61, Subpart FF

The operator shall keep records in accordance with 61.356-Recordkeeping requirements

The operator shall comply with the applicable reporting requirements as specified in 61.357

**[40CFR 61 Subpart FF, 12-4-2003]**

### **SYSTEM CONDITIONS**

- S1.1 The operator shall limit the throughput to no more than 2.19 MM gallons in any one calendar month.

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]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

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, 5-13-1994; RULE 1173, 12-6-2002; 40CFR 60 Subpart GGG, 6-7-1985]**

[Systems subject to this condition : Process 1, System 1 , 2; Process 2, System 1; Process 4, System 1]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

S13.1 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1123

**[RULE 1123, 12-7-1990]**

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

S13.2 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	461

**[RULE 461, 9-8-1995; RULE 461, 6-15-2001]**

[Systems subject to this condition : Process 11, System 1]

S15.1 The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gas under normal operating conditions shall be directed to the H2S removal/sour gas treating system.

This process/system shall not be operated unless the H2S removal/sour gas treating system is in full use and has a valid permit to receive vent gases from this system.

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

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

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

S15.2 The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to the incinerator I-301(Device C97) except pressure relief valves (PRVs) on devices D6, D7 and D8 which vent to atmosphere.

This process/system shall not be operated unless the incinerator I-301 (Device C97) is in full use and has a valid permit to receive vent gases from this system.

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

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

S18.1 All affected devices listed under this process/system shall be used only to receive, recover and/or dispose of vent gases routed from the system(s) or process(es) listed below, in addition to specific devices identified in the "connected to" column:

Crude Distillation Units (Process: 1, System: 1 & 2)

**[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]**

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

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

S31.1 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 438515 (SulfaTreat & Potassium Permanganate System):

- All valves in VOC service shall be of leakless type, except those specifically exempted by Rule 1173 or approved by the District in the following applications: heavy liquid service, control valves, instrument piping/tubing, applications requiring torsional valve stem motion, applications where failures could pose safety hazards (e.g. drain valves with valve stems in horizontal position), retrofits with space limitations, and valves not commercially available at the time of Permit to Construct issuance.
- For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellow or equivalent as approved in writing by the District prior to installation. Components shall be defined as any valve, flange, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, meter, and any instrumentation which are not exempted by Rule 1173.
- All components in VOC service, except those specifically exempted by Rule 1173 and valves and flanges, shall be inspected quarterly using EPA reference method 21. All valves and flanges in VOC service except those specifically exempted by Rule 1173 shall be inspected monthly using EPA method 21.
- All components in VOC service, a leak greater than 500 ppm but less than 1,000 ppm measured as methane above background using EPA Method 21, shall be repaired within 14 days of detection. A leak greater than 1,000 ppm shall be repaired according to Rule 1173.
- If 98.0 percent or greater of the new valve and flange population inspected is found to leak gaseous or liquid VOC at a rate less than 500 ppm for two consecutive months, then the operator may 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 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]**

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

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- S54.1 The operator shall comply with all the requirements of Order for Abatement (Case No. 2033-10A) issued on May 28, 2008, or any subsequent modification in accordance with the Order and Decision of the Hearing Board. The operator shall submit progress reports at least semi-annually, or more frequently if specified in the Order and Decision. The progress reports shall contain dates for achieving activities, milestones or compliance required in the schedule of compliance and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not, or will not be met, and any preventative or corrective measures adopted.

[RULE 3004(a)(10)(C), 8-11-1995; **RULE 3004(a)(10)(C), 12-12-1997**]

[Systems subject to this condition : Process 1, System 1 , 2 , 3; Process 2, System 1; Process 4, System 1; Process 9, System 1 , 2 , 3]

### DEVICE CONDITIONS

#### A. Emission Limits

- A63.1 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
Visible emissions	Less than or equal to 0 Percent opacity

[40CFR 60 Subpart UU, 8-5-1983]

[Devices subject to this condition : D58, D60]

#### B. Material/Fuel Type Limits

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

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

- B22.1 The operator shall not use this equipment with materials having a(n) true vapor pressure of 0.1 psia or greater under actual operating conditions.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D64, D123]

- B22.3 The operator shall not use this equipment with materials having a(n) true vapor pressure of 1.5 psia or greater under actual operating conditions.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D37, D38, D39, D40, D41, D42]

- B22.4 The operator shall not use this equipment with materials having a(n) true vapor pressure of 0.5 psia or greater under actual operating conditions.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D29]

### **C. Throughput or Operating Parameter Limits**

- C1.1 The operator shall limit the firing rate to no more than 39 MM Btu per hour.

**[RULE 204, 10-8-1993]**

[Devices subject to this condition : D20]

- C1.2 The operator shall limit the throughput to no more than 84000 barrel(s) in any one year.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D64]

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.5 The operator shall limit the loading rate to no more than 20000 gallon(s) per day.

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; RULE 462, 5-14-1999]**

[Devices subject to this condition : D136]

C1.8 The operator shall limit the throughput to no more than 489830 barrel(s) in any one day.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D58, D60, D62, D66]

C1.9 The operator shall limit the throughput to no more than 400 barrel(s) in any one day.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D45, D47]

C1.10 The operator shall limit the throughput to no more than 400000 barrel(s) in any one year.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D123]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C1.11 The operator shall limit the loading rate to no more than 6,083,333 gallon(s) in any one calendar month.

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) w 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]**

[Devices subject to this condition : D29]

C1.12 The operator shall limit the throughput to no more than 500000 barrel(s) in any one year.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D152]

C1.13 The operator shall limit the gasoline dispensed to no more than 10000 gallon(s) in any one calendar month.

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

[Devices subject to this condition : D213]

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 1401, 5-3-2002]**

[Devices subject to this condition : D213]

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- C6.3 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, does not exceed 350 Deg F.

The operator shall use a temperature gauge to periodically monitor the temperature of asphalt in the tank.

**[RULE 204, 10-8-1993]**

[Devices subject to this condition : D69]

- C6.8 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, does not exceed 490 Deg F.

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

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

**[RULE 204, 10-8-1993; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : D70, D72, D73, D75, D76]

- C6.9 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, does not exceed 249 Deg F.

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

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

**[RULE 204, 10-8-1993; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : D71]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- 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 : C97, C105]

- C8.2 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 500 Deg F.

To comply with this condition, the operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature at the heater stack.

**[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 : D19]

### D. Monitoring/Testing Requirements

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- D12.5 The operator shall install and maintain a(n) pressure sensing device to accurately indicate the pressure in the vent line between the asphalt tank and the drum condenser.

The continuous pressure monitoring shall include high and low level alarms, which shall be set at 3.0 and 0.5 inches water column, respectively.

If the pressure falls below 0.5 or rises above 3.0 inches water column range, the operator shall conduct a visual inspection and take necessary remedial action immediately to bring the pressure back within operating range of 0.5 to 3.0 inches water column.

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 9-11-1998]**

[Devices subject to this condition : C59, C61, C63, C65, C67, D70, D71, D72, D73, D75, D76, D124, C153]

- D28.1 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted at least once every three years.

The test shall be conducted to determine the CO, PM, & SO<sub>x</sub> emissions at the outlet.

**[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 : D20]

- D28.4 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted every three years to determine the control efficiency of the thermal oxidizer.

The test shall be conducted every five years to determine the SO<sub>x</sub>, CO & PM emissions at the outlet.

**[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]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D322.1 The operator shall perform a weekly inspection of the drum condenser and filter, to assure that proper water level is maintained in the drum and the filter is in good operating condition..

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

[Devices subject to this condition : C59, C61, C63, C65, C67, D70, D71, D72, D73, D75, D76, D124, C153]

D332.1 The operator shall determine compliance with the CO emission limit(s) by conducting a test at least once every five years using a portable analyzer and AQMD-approved test method or, if not available, a non-AQMD approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with Rule 407 and Rule 1146 concentration limits. The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

**[RULE 1146, 11-17-2000; RULE 1146, 9-5-2008; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]**

[Devices subject to this condition : D84]

### E. Equipment Operation/Construction Requirements

E71.3 The operator shall not heat the materials in this equipment to exceed 450 deg. F. A temperature indicator shall be installed to verify compliance with this condition.

**[RULE 204, 10-8-1993]**

[Devices subject to this condition : D152]

E202.1 The operator shall clean and maintain this equipment according to the following specifications:

The demister shall be changed or cleaned yearly or sooner as needed

**[RULE 204, 10-8-1993]**

[Devices subject to this condition : C65]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

E448.1 The operator shall comply with the following requirements:

ALL PERMIT CONDITIONS APPLICABLE TO THE EQUIPMENT DESCRIBED IN THE PREVIOUS PERMIT TO OPERATE N19232 SHALL REMAIN IN EFFECT UNTIL THE NEW OR MODIFIED EQUIPMENT IS CONSTRUCTED AND OPERATED AS DESCRIBED IN THIS NEW PERMIT. THIS PERMIT TO CONSTRUCT/OPERATE SHALL BECOME INVALID IF THE MODIFICATION AS DESCRIBED IN THE EQUIPMENT DESCRIPTION HAS NOT BEEN COMPLETED WITHIN ONE YEAR FROM THE ISSUE DATE.

IF THE MODIFICATIONS HAS NOT BEEN COMPLETED WITHIN ON YEAR OF THE ISSUES DATE OF THE PERMIT, A WRITTEN REQUEST SHALL BE SUBMITTED TO THE AQMD (ATTENTION: RANDY MATSUYAMA) TO REINSTATE THE PREVIOUSLY INACTIVATED PERMIT TO OPERATE. A NEW APPLICATION SHALL BE FILED IF THERE ARE PLANS TO CONTINUE WITH THE MODIFICATION. FURTHERMORE, THIS CONDITION DOES NOT ALLOW ANY TIME EXTENSIONS TO ANY MODIFICATIONS REQUIRED BY THE CALIFORNIA AIR RESOURCES BOARD OR AQMD.

**[RULE 205, 1-5-1990]**

[Devices subject to this condition : D212, D213]

### H. Applicable Rules

H23.1 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	463
VOC	District Rule	1149
PM	40CFR60, SUBPART	UU

**[RULE 1149, 7-14-1995; RULE 463, 3-11-1994; 40CFR 60 Subpart UU, 8-5-1983]**

[Devices subject to this condition : D58, D60, D62, D66, D123, D152]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

H23.2 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	463
VOC	District Rule	1149

**[RULE 1149, 7-14-1995; RULE 463, 3-11-1994]**

[Devices subject to this condition : D35, D37, D38, D39, D40, D41, D42, D46, D48, D49, D50, D51, D52, D64, D68, D69, D70, D71, D72, D73, D74, D75, D76]

H23.3 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
Refrigerants	District Rule	1415

**[RULE 1415, 10-14-1994]**

[Devices subject to this condition : E185]

H23.4 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
Halon	District Rule	1418

**[RULE 1418, 9-10-1999]**

[Devices subject to this condition : E192]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

H23.5 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	463
VOC	District Rule	1149
VOC	40CFR60, SUBPART	Kb

**[RULE 1149, 7-14-1995; RULE 463, 3-11-1994; 40CFR 60 Subpart Kb, 9-7-1990]**

[Devices subject to this condition : D45, D47]

H23.6 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
Total hydrocarbon	District Rule	470

**[RULE 470, 5-7-1976]**

[Devices subject to this condition : D80, D81, D82, D83]

H23.7 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	465
Sulfur compounds	District Rule	465

**[RULE 465, 8-13-1999]**

[Devices subject to this condition : D17, D18]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

H23.8 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1173
VOC	40CFR60, SUBPART	GGG

**[RULE 1173, 5-13-1994; 40CFR 60 Subpart GGG, 6-7-1985]**

[Devices subject to this condition : D165, D166, D167, D168, D169, D170, D171, D172, D173, D174, D178, D179, D180, D181, D182, D184]

H23.9 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	462

**[RULE 462, 5-14-1999]**

[Devices subject to this condition : D136]

H23.10 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1176
VOC	40CFR60, SUBPART	QQQ

**[RULE 1176, 9-13-1996; 40CFR 60 Subpart QQQ, 5-5-1989]**

[Devices subject to this condition : D31, D32, D193]

## I. Administrative

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

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

- I1.1 The operator shall comply with all the requirements of the compliance schedule as specified in the Order for Abatement Case No. 2033-10A, issued on May 28, 2008, or any subsequent modification in accordance with the Findings and Decisions of the Hearing Board or as subsequently modified by the Hearing Board. The operator shall submit progress reports at least semi-annually, or more frequently if specified in the Findings and Decisions. The progress reports shall contain dates for achieving activities, milestones or compliance required in the schedule of compliance and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not, or will not be met, and any preventative or corrective measures adopted.

The variance (or Order for Abatement) referenced in this condition does not affect federal or citizen enforceability of the underlying SIP approved rules for which the applicant is receiving the variance (or Order for Abatement).

**[RULE 3004(a)(10)(C), 12-12-1997]**

[Devices subject to this condition : D25, D29, D31, D32, D45, D46, D47, D48, D49, D50, D51, D52, D68, D74, D80, D81, D82, D83, C97, C105, D136, D142]

- I1.2 The operator shall comply with all the requirements of the compliance schedule as specified in the Variance Case No. 2033-17, issued on 01/17/2007, or any subsequent modification in accordance with the Findings and Decisions of the Hearing Board or as subsequently modified by the Hearing Board. The operator shall submit progress reports at least semi-annually, or more frequently if specified in the Findings and Decisions. The progress reports shall contain dates for achieving activities, milestones or compliance required in the schedule of compliance and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not, or will not be met, and any preventative or corrective measures adopted.

The variance (or Order for Abatement) referenced in this condition does not affect federal or citizen enforceability of the underlying SIP approved rules for which the applicant is receiving the variance (or Order for Abatement).

**[RULE 3004(a)(10)(C), 12-12-1997]**

[Devices subject to this condition : D45, D46, D47, D48, D49, D50, D51, D52, D68, D74]

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

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

- I1.3 The operator shall comply with all the requirements of the compliance schedule as specified in the petition for the Stipulated Order for Abatement Case No. 5732-1, DOES # 135 in accordance with the Findings and Decisions of the Hearing Board or as subsequently modified by the Hearing Board. The operator shall submit progress reports at least semi-annually, or more frequently if specified in the Findings and Decisions. The progress reports shall contain dates for achieving activities, milestones or compliance required in the schedule of compliance and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not, or will not be met, and any preventative or corrective measures adopted.

The variance (or Order for Abatement) referenced in this condition does not affect federal or citizen enforceability of the underlying SIP approved rules for which the applicant is receiving the variance (or Order for Abatement).

**[RULE 3004(a)(10)(C), 12-12-1997]**

[Devices subject to this condition : D212, D213]

### **K. Record Keeping/Reporting**

- K67.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

For architectural applications where no thinners, reducers, or other VOC containing materials are added, maintain semi-annual records for all coating consisting of (a) coating type, (b) VOC content as supplied in grams per liter (g/l) of materials for low-solids coatings, (c) VOC content as supplied in g/l of coating, less water and exempt solvent, for other coatings.

For architectural applications where thinners, reducers, or other VOC containing materials are added, maintain daily records for each coating consisting of (a) coating type, (b) VOC content as applied in grams per liter (g/l) of materials used for low-solids coatings, (c) VOC content as applied in g/l of coating, less water and exempt solvent, for other coatings.

This condition shall become effective when the initial Title V permit is issued to the facility.

**[RULE 1113, 11-8-1996; RULE 1113, 7-13-2007; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : E191]

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### **SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS**

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

K67.2 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Throughput and vapor pressure of stored liquid

This condition shall become effective when the initial Title V permit is issued to the facility.

**[RULE 1178, 4-7-2006; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 463, 5-6-2005]**

[Devices subject to this condition : D35, D37, D38, D39, D40, D41, D46, D48, D49, D50, D51, D52, D68, D69, D70, D71, D72, D73, D74, D75, D76]

K67.3 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Monthly and annual fuel dispensed

Such records shall be maintained and kept on file for at least two years and shall be made available to the Executive officer or his authorized representative upon request

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 461, 4-21-2000; RULE 461, 6-15-2001]**

[Devices subject to this condition : D212, D213]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION E: ADMINISTRATIVE CONDITIONS

The operating conditions in this section shall apply to all permitted equipment at this facility unless superseded by condition(s) listed elsewhere in this permit.

1. The permit shall remain effective unless this permit is suspended, revoked, modified, reissued, denied, or it is expired for nonpayment of permit processing or annual operating fees. [201, 203, 209, 301]
  - a. The permit must be renewed annually by paying annual operating fees, and the permit shall expire if annual operating fees are not paid pursuant to requirements of Rule 301(d). [301(d)]
  - b. The Permit to Construct listed in Section H shall expire one year from the Permit to Construct issuance date, unless a Permit to Construct extension has been granted by the Executive Officer or unless the equipment has been constructed and the operator has notified the Executive Officer prior to the operation of the equipment, in which case the Permit to Construct serves as a temporary Permit to Operate. [202, 205]
  - c. The Title V permit shall expire as specified under Section K of the Title V permit. The permit expiration date of the Title V facility permit does not supercede the requirements of Rule 205. [205, 3004]
2. The operator shall maintain all equipment in such a manner that ensures proper operation of the equipment. [204]
3. This permit does not authorize the emissions of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the Rules and Regulations of the AQMD. This permit cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other governmental agencies. [204]
4. The operator shall not use equipment identified in this facility permit as being connected to air pollution control equipment unless they are so vented to the identified air pollution control equipment which is in full use and which has been included in this permit. [204]
5. The operator shall not use any equipment having air pollution control device(s) incorporated within the equipment unless the air pollution control device is in full operation.[204]
6. The operator shall maintain records to demonstrate compliance with rules or permit conditions that limit equipment operating parameters, or the type or quantity of material processed. These records shall be made available to AQMD personnel upon request and be maintained for at least: [204]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION E: ADMINISTRATIVE CONDITIONS

- a. Three years for a facility not subject to Title V; or
  - b. Five years for a facility subject to Title V.
7. The operator shall maintain and operate all equipment to ensure compliance with all emission limits as specified in this facility permit. Compliance with emission limits shall be determined according to the following specifications, unless otherwise specified by AQMD rules or permit conditions: [204]
- a. For internal combustion engines and gas turbines, measured concentrations shall be corrected to 15 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1110.2, 1134, 204]
  - b. For other combustion devices, measured concentrations shall be corrected to 3 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1146, 1146.1, 204]
  - c. For a large NO<sub>x</sub> source, compliance with a RECLAIM concentration limit shall be measured over a continuous 60 minutes for that source; [2012]
  - d. For non-combustion sources, compliance with emission limits shall be determined and averaged over a period of 60 minutes. [204]
  - e. For the purpose of determining compliance with Rule 407, carbon monoxide (CO) shall be measured on a dry basis and be averaged over 15 consecutive minutes, and sulfur compound which would exist as liquid or gas at standard conditions shall be calculated as sulfur dioxide (SO<sub>2</sub>) and be averaged over 15 consecutive minutes; [407]
  - f. For the purpose of determining compliance with Rule 409, combustion contaminant emission measurements shall be corrected to 12 percent carbon dioxide (CO<sub>2</sub>) at standard conditions and averaged over 15 consecutive minutes. [409]
  - g. For the purpose of determining compliance with Rule 475, combustion contaminant emission measurements shall be corrected to 3 percent of oxygen (O<sub>2</sub>) at standard conditions and averaged over 15 consecutive minutes or any other averaging time specified by the Executive Officer. [475]
8. All equipment operating under the RECLAIM program shall comply concurrently with all provisions of AQMD Rules and Regulation, except those listed in Table 1 of Rule 2001 for NO<sub>x</sub> RECLAIM sources and Table 2 of Rule 2001 for SO<sub>x</sub> RECLAIM sources. Those provisions listed in Tables 1 or 2 shall not apply to NO<sub>x</sub> or SO<sub>x</sub> emissions after the date the facility has demonstrated compliance with all monitoring and reporting requirements of Rules 2011 or 2012, as applicable. Provisions of the listed AQMD rules in Tables 1 or 2 which have initial implementation dates in 1994 shall not apply to a RECLAIM NO<sub>x</sub> or SO<sub>x</sub> source, respectively. [2001]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION E: ADMINISTRATIVE CONDITIONS

9. The operator shall, when a source test is required by AQMD, provide a source test protocol to AQMD no later than 60 days before the proposed test date. The test shall not commence until the protocol is approved by AQMD. The test protocol shall contain the following information: [204, 304]
  - a. Brief description of the equipment tested.
  - b. Brief process description, including maximum and normal operating temperatures, pressures, through-put, etc.
  - c. Operating conditions under which the test will be performed.
  - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts/stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
  - e. Brief description of sampling and analytical methods used to measure each pollutant, temperature, flow rates, and moisture.
  - f. Description of calibration and quality assurance procedures.
  - g. Determination that the testing laboratory qualifies as an "independent testing laboratory" under Rule 304 (no conflict of interest).
10. The operator shall submit a report no later than 60 days after conducting a source test, unless otherwise required by AQMD Rules or equipment-specific conditions. The report shall contain the following information: [204]
  - a. The results of the source test.
  - b. Brief description of the equipment tested.
  - c. Operating conditions under which the test will be performed.
  - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts/stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
  - e. Field and laboratory data forms, strip charts and analyses.
  - f. Calculations for volumetric flow rates, emission rates, control efficiency, and overall control efficiency.
11. The operator shall, when a source test is required, provide and maintain facilities for sampling and testing. These facilities shall comply with the requirements of AQMD Source Test Method 1.1 and 1.2. [217]

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### **SECTION E: ADMINISTRATIVE CONDITIONS**

12. Whenever required to submit a written report, notification or other submittal to the Executive Officer, AQMD, or the District, the operator shall mail or deliver the material to: Deputy Executive Officer, Engineering and Compliance, AQMD, 21865 E. Copley Drive, Diamond Bar, CA 91765-4182. [204]

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### **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. NO<sub>x</sub> Monitoring Conditions**

A. The Operator of a NO<sub>x</sub> Major Source, as defined in Rule 2012, shall, as applicable:

Not Applicable

B. The Operator of a NO<sub>x</sub> 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 NO<sub>x</sub> 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 NO<sub>x</sub> 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]

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### **SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS**

#### **II. NO<sub>x</sub> Source Testing and Tune-up Conditions**

1. The operator shall conduct all required NO<sub>x</sub> source testing in compliance with an AQMD-approved source test protocol. [2012]
2. The operator shall, as applicable, conduct source tests for every large NO<sub>x</sub> source no later than June 30, 1997 and every 3 years thereafter. The source test shall include the determination of NO<sub>x</sub> 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<sub>x</sub> large sources and NO<sub>x</sub> 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<sub>x</sub> Monitoring Conditions**

- D. The Operator of a SO<sub>x</sub> Major Source, as defined in Rule 2011, shall, as applicable:
  1. Install, maintain, and operate an AQMD certified direct or time-shared monitoring device or an approved alternative monitoring device for each major SO<sub>x</sub> source to continuously measure the concentration of SO<sub>x</sub> 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<sub>x</sub> emissions rate from each source. The time-sharing of CEMS among SO<sub>x</sub> 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]
  3. If the facility is operating existing CEMS and fuel meters, continue to follow recording and reporting procedures required by AQMD Rules and Regulations in effect prior to October 15, 1993 until the CEMS is certified pursuant to Rule 2011. [2011]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

4. Use valid data collected by an AQMD 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<sub>x</sub> 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]

#### IV. SO<sub>x</sub> Source Testing Conditions

1. The operator shall conduct all required SO<sub>x</sub> source testing in compliance with an AQMD-approved source test protocol. [2011]

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### **SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR RECLAIM SOURCES**

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

#### **I. Recordkeeping Requirements for all RECLAIM Sources**

1. The operator shall maintain all monitoring data required to be measured or reported pursuant to Rule 2011 and Rule 2012, whichever is applicable. All records shall be made available to AQMD staff upon request and be maintained for at least:
  - a. Three years after each APEP report is submitted to AQMD for a facility not subject to Title V, unless a different time period is required in Rule 2011 or Rule 2012 [2011 & 2012]; or
  - b. Five years after each APEP report is submitted to AQMD for a facility subject to Title V. [3004(a)(4)(E)]
  - c. Notwithstanding the above, all data gathered or computed for intervals of less than 15 minutes shall only be maintained a minimum of 48 hours. [2011 & 2012]
2. The operator shall store on site and make available to the Executive Officer upon request: records used to determine emissions, maintenance records, sources test reports, relative accuracy test audit reports, relative accuracy audit reports and fuel meter calibration records. [2011 & 2012]

#### **II. Reporting Requirements for all RECLAIM Sources**

1. The operator shall submit a quarterly certification of emissions including the facility's total NO<sub>x</sub> or SO<sub>x</sub> emissions, whichever is applicable, for the quarter within 30 days after the end of the first three quarters and 60 days after the end of the fourth quarter of a compliance year. [2011 & 2012]

#### **NO<sub>x</sub> Reporting Requirements**

- A. The Operator of a NO<sub>x</sub> Major Source, as defined in Rule 2012, shall, as applicable:

Not Applicable

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### **SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR RECLAIM SOURCES**

- B. The Operator of a NO<sub>x</sub> Large Source, as defined in Rule 2012, shall:
1. Install, maintain and operate a modem or any reporting device approved by the Executive Officer to report, to the AQMD, the total monthly NO<sub>x</sub> mass emissions from each large NO<sub>x</sub> source. The Operator shall comply with this requirement within 12 months of the date of entry to the RECLAIM Program. Such data shall be reported within 15 days after the end of each calendar month. [2012]
- C. The Operator of a NO<sub>x</sub> Process Unit, as defined in Rule 2012, shall:
1. Electronically report the calculated quarterly NO<sub>x</sub> emissions for each NO<sub>x</sub> process unit. The Operator shall comply with this requirement within 12 months of the date of entry to the RECLAIM Program. [2012]

#### **SO<sub>x</sub> Reporting Requirements**

- D. The Operator of a SO<sub>x</sub> Major Source, as defined in Rule 2011, shall, as applicable:
1. No later than 12 months after entry into the RECLAIM program or after the initial operation of a new major source, whichever is later, install, maintain, and operate a reporting device to electronically report everyday to the AQMD central station for each major SO<sub>x</sub> source, the total daily mass emissions of SO<sub>x</sub> and daily status codes. Such data shall be transmitted by 5:00 p.m. of the following day. If the facility experiences a power, computer, or other system failure that prevents the submittal of the daily report, the Facility Permit holder shall be granted 24 hours extension to submit the report. [2011]
  2. Calculate SO<sub>x</sub> emissions pursuant to missing data procedures set forth in Appendix A, Chapter 2 of Rule 2011 if the Facility Permit holder fails to meet the deadline for submitting the daily report. [2011]
  3. Submit an electronic report within 15 days following the end of each month totaling SO<sub>x</sub> emissions from all major SO<sub>x</sub> sources during the month. [2011]
  4. For those facilities with existing CEMS and fuel meters as of October 15, 1993, continue to follow recording and reporting procedures required by AQMD Rules and Regulations in effect until the CEMS is certified pursuant to Rule 2011 and/or Rule 2012, as applicable. [2011]

**FACILITY PERMIT TO OPERATE  
LUNDAY-THAGARD COMPANY**

**SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR  
RECLAIM SOURCES**

- E. The Operator of a SO<sub>x</sub> Process Unit, as defined in Rule 2011, shall:
1. Electronically report the calculated quarterly SO<sub>x</sub> emissions for each SO<sub>x</sub> process unit. [2011]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
<b>Process 1 : CRUDE DISTILLATION</b>					
<b>System 1 : CRUDE ATMOSPHERIC DISTILLATION UNIT</b>					S4.1, S13.1, S15.1, S15.2, S54.1
FRACTIONATOR, C-101, CRUDE TOWER, HEIGHT: 110 FT; DIAMETER: 9 FT A/N: 454772 Permit to Construct Issued: 12/19/06	D6	C97			
ACCUMULATOR, D-101, NAPHTHA, LENGTH: 11 FT; DIAMETER: 5 FT A/N: 454772 Permit to Construct Issued: 12/19/06	D3	C97			
ACCUMULATOR, D-102, WATER SEPARATOR, HEIGHT: 6 FT; DIAMETER: 1 FT 5 IN A/N: 454772 Permit to Construct Issued: 12/19/06	D2	C97			
FRACTIONATOR, KEROSENE, HEIGHT: 16 FT 9 IN; DIAMETER: 2 FT 8 IN A/N: 454772 Permit to Construct Issued: 12/19/06	D4				
FRACTIONATOR, C-102, DIESEL TOWER, HEIGHT: 28 FT 5 IN; DIAMETER: 3 FT 9 IN A/N: 454772 Permit to Construct Issued: 12/19/06	D5				
FRACTIONATOR, C-103, ATMOSPHERIC GAS OIL TOWER, HEIGHT: 7 FT 9 IN; DIAMETER: 3 FT 2 IN A/N: 454772 Permit to Construct Issued: 12/19/06	D1	D131			

\* (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 COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
<b>Process 1 : CRUDE DISTILLATION</b>					
SCRUBBER, D-104, OFF GAS, LENGTH: 12 FT; DIAMETER: 2 FT 6 IN A/N: 454772 Permit to Construct Issued: 12/19/06	D227				
KNOCK OUT POT, D-103, OFF GAS, LENGTH: 12 FT 6 IN; DIAMETER: 4 FT A/N: 454772 Permit to Construct Issued: 12/19/06	D228				
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 454772 Permit to Construct Issued: 12/19/06	D165				H23.8
<b>System 2 : CRUDE VACUUM DISTILLATION UNIT</b>					S4.1, S13.1, S15.1, S15.2, S54.1
FRACTIONATOR, 1ST STAGE, TOP VACUUM, C-104, HEIGHT: 29 FT; DIAMETER: 5 FT 2 IN A/N: 454098 Permit to Construct Issued: 12/19/06	D7	C97			
FRACTIONATOR, 2ND STAGE, BOTTOM VACUUM, C-105, HEIGHT: 28 FT 1 IN; DIAMETER: 7 FT 6 IN A/N: 454098 Permit to Construct Issued: 12/19/06	D8	C97			
EJECTOR, SE-104, SE-105, FIRST STAGE, VACUUM, STEAM OPERATED A/N: 454098 Permit to Construct Issued: 12/19/06	D17				H23.7

\* (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

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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
<b>Process 1 : CRUDE DISTILLATION</b>					
STACK A/N: 433601 Permit to Construct Issued: 12/19/06	S195				
<b>Process 2 : TREATING/STRIPPING</b>					
<b>System 1 : H2S REMOVAL/SOUR GAS TREATING SYSTEM</b>					S4.1, S18.1, S31.1, S54.1
SCRUBBER, PACKED BED, V-401, SULFATREAT-410CHP, 300,000 LBS, IN SERIES, HEIGHT: 50 FT; DIAMETER: 12 FT A/N: 438515 Permit to Construct Issued: 12/19/06	C217	C220 C221			E71.6, E73.1, E73.2, E193.1
SCRUBBER, PACKED BED, V-402, SULFATREAT-410CHP, 300,000 LBS, IN SERIES, HEIGHT: 50 FT; DIAMETER: 12 FT A/N: 438515 Permit to Construct Issued: 12/19/06	C218	C220 C221			E71.6, E73.1, E73.2, E193.1
SCRUBBER, PACKED BED, V-403, SULFATREAT-410CHP, 300,000 LBS, IN SERIES, HEIGHT: 50 FT; DIAMETER: 12 FT A/N: 438515 Permit to Construct Issued: 12/19/06	C219	C220 C221			E71.6, E73.1, E73.2, E193.1
SCRUBBER, PACKED BED, , V-410, POTASSIUM PERMANGANATE, POLISHER,, , 5,000 LBS, IN SERIES, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 438515 Permit to Construct Issued: 12/19/06	C220	C97 C217 C218 C219			E71.6, E73.1, E193.2

\* (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

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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
<b>Process 2 : TREATING/STRIPPING</b>					
SCRUBBER, PACKED BED, , V-411, POTASSIUM PERMANGANATE, POLISHER., , 5,000 LBS, IN SERIES, HEIGHT: 10 FT; DIAMETER: 6 FT A/N: 438515 Permit to Construct Issued: 12/19/06	C221	C97 C217 C218 C219			E71.6, E73.1, E193.2
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 438515 Permit to Construct Issued: 12/19/06	D235				H23.17
<b>Process 3 : LOADING AND UNLOADING</b>					
<b>System 1 : ROAD OIL LOADING/UNLOADING</b>					
LOADING ARM, ASPHALT, FLEXIBLE HOSE, 4 TOTAL; DIAMETER: 4 IN A/N: 403057 Permit to Construct Issued: 12/19/06	D25	C97			C1.25, C6.5, C6.7, H23.14, 11.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 403057 Permit to Construct Issued: 12/19/06	D168				H23.8
<b>System 2 : ASPHALT LOADING/UNLOADING</b>					
LOADING ARM, ASPHALT, 2 TOTAL; DIAMETER: 4 IN A/N: 403055 Permit to Construct Issued: 12/19/06	D29	C97			C1.11, C6.5, C6.7, H23.14, 11.1
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 403055 Permit to Construct Issued: 12/19/06	D225				H23.8

\* (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

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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
<b>Process 4 : WASTEWATER TREATING SYSTEM</b>					
<b>System 1 : WASTEWATER TREATING SYSTEM</b>					S1.1, S4.1, S54.1
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: 496187 Permit to Construct Issued: 04/23/09	D237	C97 D222		VOC: 500 PPMV (5) [RULE 1176,9-13-1996]	H23.10, H23.11, 11.1
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 A/N: 496187 Permit to Construct Issued: 04/23/09  COMPARTMENT, MEDIA, COALESCING, 24 CU FT.	D222	D52 C97 D237		VOC: 500 PPMV (5) [RULE 1176,9-13-1996]	H23.10, H23.11, H23.12, 11.1
INJECTOR, AIR A/N: 496187 Permit to Construct Issued: 04/23/09	D33			VOC: 500 PPMV (5) [RULE 1176,9-13-1996]	
PUMP, RECOVERED OIL, A/N: 496187 Permit to Construct Issued: 04/23/09	D224			VOC: 500 PPMV (5) [RULE 1176,9-13-1996]	
DRAIN SYSTEM COMPONENT A/N: 496187 Permit to Construct Issued: 04/23/09	D193			VOC: 500 PPMV (5) [RULE 1176,9-13-1996]	H23.10, H23.11

\* (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

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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
<b>Process 4 : WASTEWATER TREATING SYSTEM</b>					
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 496187 Permit to Construct Issued: 04/23/09	D173				H23.8
<b>Process 5 : STORAGE TANKS</b>					
<b>System 1 : FIXED ROOF</b>					
STORAGE TANK, FIXED ROOF, 418, NAPHTHA, GAS OIL, 20160 GALS; DIAMETER: 12 FT; HEIGHT: 24 FT A/N: 426410 Permit to Construct Issued: 12/19/06	D45	C97			C1.20, H23.2, H23.13, 11.1, 11.2, K67.6
STORAGE TANK, FIXED ROOF, 10001, CRUDE OIL, WITH A MIXER, 10000 BBL; DIAMETER: 42 FT; HEIGHT: 40 FT A/N: 426411 Permit to Construct Issued: 12/19/06	D46	C97			C1.21, H23.2, H23.13, 11.1, 11.2, K67.6
STORAGE TANK, FIXED ROOF, 419, NAPHTHA, GAS OIL, 20160 GALS; DIAMETER: 12 FT; HEIGHT: 24 FT A/N: 426412 Permit to Construct Issued: 12/19/06	D47	C97			C1.20, H23.2, H23.13, 11.1, 11.2, K67.6
STORAGE TANK, FIXED ROOF, 420, NAPHTHA, GAS OIL, 20160 GALS; DIAMETER: 12 FT; HEIGHT: 24 FT A/N: 426413 Permit to Construct Issued: 12/19/06	D48	C97			C1.19, H23.2, H23.13, 11.1, 11.2, K67.6

\* (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

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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
<b>Process 5 : STORAGE TANKS</b>					
STORAGE TANK, FIXED ROOF, 421, NAPHTHA, GAS OIL, 20160 GALS; DIAMETER: 12 FT; HEIGHT: 24 FT A/N: 426415 Permit to Construct Issued: 12/19/06	D49	C97			C1.20, H23.2, H23.13, 11.1, 11.2, K67.6
STORAGE TANK, FIXED ROOF, 422, NAPHTHA, GAS OIL, KEROSENE, 20160 GALS; DIAMETER: 12 FT; HEIGHT: 24 FT A/N: 426416 Permit to Construct Issued: 12/19/06	D50	C97			C1.24, H23.2, H23.13, 11.1, 11.2, K67.6
STORAGE TANK, FIXED ROOF, 423, NAPHTHA, GAS OIL, 20160 GALS; DIAMETER: 12 FT; HEIGHT: 24 FT A/N: 426418 Permit to Construct Issued: 12/19/06	D51	C97			C1.20, H23.2, H23.13, 11.1, 11.2, K67.6
STORAGE TANK, FIXED ROOF, 3503, SLOP OIL, 3700 BBL; DIAMETER: 30 FT; HEIGHT: 28 FT A/N: 426419 Permit to Construct Issued: 12/19/06	D52	C97 D222			C1.19, H23.2, H23.13, 11.1, 11.2, K67.6
STORAGE TANK, FIXED ROOF, 10002, CRUDE OIL, 10000 BBL; DIAMETER: 42 FT; HEIGHT: 40 FT 10 IN A/N: 426421 Permit to Construct Issued: 12/19/06	D68	C97			C1.23, H23.2, H23.13, 11.1, 11.2, K67.6
STORAGE TANK, 3504, SLOP OIL, 158640 GALS; DIAMETER: 30 FT; HEIGHT: 30 FT A/N: 426422 Permit to Construct Issued: 12/19/06	D74	C97			C1.22, H23.2, H23.13, 11.1, 11.2, K67.6

\* (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

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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
<b>Process 5 : STORAGE TANKS</b>					
STORAGE TANK, FIXED ROOF, NO. 1231, ASPHALT, 1200 BBL; DIAMETER: 15 FT; HEIGHT: 40 FT A/N: 311478 Permit to Construct Issued: 03/01/96	D125	C126			A63.1, C1.4, C6.2, E71.1, H23.1
SCRUBBER, STEEL WOOL-PACKED A/N: 311478 Permit to Construct Issued: 03/01/96	C126	D125			D12.5, D322.1
STORAGE TANK, FIXED ROOF, NO. 1232, ASPHALT, 1200 BBL; DIAMETER: 15 FT; HEIGHT: 40 FT A/N: 311480 Permit to Construct Issued: 03/01/96	D127	C128			A63.1, C1.4, C6.2, E71.1, H23.1
SCRUBBER, STEEL WOOL-PACKED A/N: 311480 Permit to Construct Issued: 03/01/96	C128	D127			D12.5, D322.1
STORAGE TANK, FIXED ROOF, NO. 1233, ASPHALT, 1200 BBL; DIAMETER: 15 FT; HEIGHT: 40 FT A/N: 311106 Permit to Construct Issued: 03/22/96	D129	C130			A63.1, C1.4, C6.2, E71.1, H23.1
SCRUBBER, STEEL WOOL-PACKED A/N: 311106 Permit to Construct Issued: 03/22/96	C130	D129			D12.5, D322.1
STORAGE TANK, FIXED ROOF, NO. 2036, ASPHALT, 2000 BBL; DIAMETER: 19 FT; HEIGHT: 40 FT A/N: 346304 Permit to Construct Issued: 01/13/99	D159	C160			A63.1, B22.2, C1.12, E71.1, H23.1

\* (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

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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
<b>Process 5 : STORAGE TANKS</b>					
CONDENSER, PACKED, 55-GAL DRUM, WITH STEEL WOOL A/N: 346304 Permit to Construct Issued: 01/13/99	C160	D159			D12.5, D322.1
STORAGE TANK, FIXED ROOF, NO. 1235, ASPHALT, 1200 BBL; DIAMETER: 15 FT; HEIGHT: 40 FT A/N: 346308 Permit to Construct Issued: 01/13/99	D163	C164			A63.1, B22.2, C1.12, E71.1, H23.1
CONDENSER, PACKED, 55-GAL DRUM, WITH STEEL WOOL A/N: 346308 Permit to Construct Issued: 01/13/99	C164	D163			D12.5, D322.1
<b>Process 6 : STEAM GENERATION</b>					
<b>System 1 : BOILERS</b>					
BOILER, (NORTH), NATURAL GAS, CLEAVER-BROOKS, MODEL CB400-700, WITH LOW NOX BURNER, 29.4 MMBTU/HR WITH A/N: 461247 Permit to Construct Issued: 06/08/07	D214	S215	NOX: LARGE SOURCE**	CO: 2000 PPMV (5A) [RULE 407,4-2-1982] ; CO: 50 PPMV NATURAL GAS (4); CO: 400 PPMV (5); NOX: 9 PPMV NATURAL GAS (3) [RULE 2012,12-7-1995  RULE 2012,5-11-2001] ; NOX: 9 PPMV NATURAL GAS (4); PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981]	A63.4, D29.2, H23.18, K40.1, K67.4, K67.5

\* (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.)  
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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
<b>Process 6 : STEAM GENERATION</b>					
BURNER, NATURAL GAS, INDUSTRIAL COMBUSTION, MODEL ULNG-336P-9, WITH LOW NOX BURNER, 29.4 MMBTU/HR					
STACK A/N: 461247 Permit to Construct Issued: 06/08/07	S215	D214			
BOILER, NATURAL GAS, ENGLISH BOILER & TUBE INC, MODEL 32-S-250, WITH LOW NOX BURNER, 39.9 MMBTU/HR WITH A/N: 459810 Permit to Construct Issued: 06/08/07  BURNER, NATURAL GAS, TODD COMBUSTION, MODEL RMBU-22-G-750-MARK VI-E2.30, LOW NOX BURNER, 1 TOTAL; 39.9 MMBTU/HR	D231	S233	NOX: LARGE SOURCE**	CO: 2000 PPMV (5A) [RULE 407,4-2-1982] ; CO: 50 PPMV NATURAL GAS (4); CO: 400 PPMV (5) [RULE 1146,11-17-2000]  NOX: 9 PPMV NATURAL GAS (4) [RULE 2005,5-6-2005] ; PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981]	A63.4, D29.1, D29.2, H23.18, K40.1, K67.4, K67.5
STACK A/N: 459810 Permit to Construct Issued: 06/08/07	S233	D231			

\* (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

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## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
<b>Process 9 : AIR POLLUTION CONTROL</b>					
<b>System 1 : APC SYSTEM SERVING ASPHALT STILLs</b>					S54.1
CONDENSER, WATER COOLED, HEIGHT: 18 FT 8 IN; DIAMETER: 7 FT 10 IN A/N: 403054 Permit to Construct Issued: 12/19/06	D131	C98 C99 C100 C101 C209			
SCRUBBER, WATER A/N: 403054 Permit to Construct Issued: 12/19/06	C209	D131 C210			
KNOCK OUT POT, HYDROGEN SULFIDE A/N: 403054 Permit to Construct Issued: 12/19/06	C210	C97 C209			
INCINERATOR, I-301, NATURAL GAS, PROCESS GAS, 14 MMBTU/HR WITH A/N: 403054 Permit to Construct Issued: 12/19/06	C97	D2 D3 D6 D7 D8 D25 D29 D45 D46 D47 D48 D49 D50 D51 D52 D68 D74 S199 C210 C220 C221 D222 D237	NOX: LARGE SOURCE** ; SOX: MAJOR SOURCE**	<b>CO: 2000 PPMV (5) [RULE 407,4-2-1982] ; NOX: 0.13 LBS/MMBTU (1) [RULE 2012,12-7-1995;RULE 2012,3-16- 2001] ; PM: (9) [RULE 404,2- 7-1986]</b>  <b>PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] ; SOX: 303.88 LBS/MMSCF PROCESS GAS (1) [RULE 2011,5-6-2005] ; SOX: 500 PPMV (5) [RULE 407,4-2-1982]</b>	C1.17, C8.4, C12.1, C12.2, C12.3, D11.1, D28.2, D29.3, D323.1, E193.3, H23.15, H23.16, I1.1

\* (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 COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
<b>Process 9 : AIR POLLUTION CONTROL</b>					
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					
STACK A/N: 403054 Permit to Construct Issued: 12/19/06	S199	C97			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 403054 Permit to Construct Issued: 12/19/06	D183				H23.8
<b>System 3 : Recirculating Road Oil Heater</b>					S54.1
HEATER, H-501, ROAD OIL, NATURAL GAS, WITH LOW NOX BURNER, 6 MMBTU/HR WITH A/N: 474534 Permit to Construct Issued: 02/03/09	D19	S198	NOX: PROCESS UNIT**	CO: 2000 PPMV (5A) [RULE 407,4-2-1982] ; CO: 400 PPMV (5) [RULE 1146,5-13-1994;RULE 1146,11-17-2000] ; NOX: 30 PPMV (1) [RULE 2012,5-6-2005]  PM: 0.1 GRAINS/SCF (5) [RULE 409,8-7-1981] ; PM: (9) [RULE 404,2-7-1986] ; SOX: 500 PPMV (5) [RULE 407,4-2-1982]	C1.27, D28.5, D323.1

\* (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

\*\* 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 COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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
<b>Process 9 : AIR POLLUTION CONTROL</b>					
BURNER, NATURAL GAS, ZEECO, MODEL GLSF-12, WITH LOW NOX BURNER, 1 TOTAL; 6 MMBTU/HR					
STACK A/N: 474534 Permit to Construct Issued: 02/03/09	S198	D19			
FUGITIVE EMISSIONS, MISCELLANEOUS A/N: 435954 Permit to Construct Issued: 12/19/06	D182				H23.8

\* (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 COMPANY**

**SECTION H: DEVICE ID INDEX**

**The following sub-section provides an index  
to the devices that make up the facility  
description sorted by device ID.**

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: DEVICE ID INDEX

Device Index For Section H			
Device ID	Section H Page No.	Process	System
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D2	1	1	1
D3	1	1	1
D4	1	1	1
D5	1	1	1
D6	1	1	1
D7	2	1	2
D8	2	1	2
D17	2	1	2
D18	3	1	2
D19	13	9	3
D20	3	1	3
D25	5	3	1
D29	5	3	2
D33	6	4	1
D45	7	5	1
D46	7	5	1
D47	7	5	1
D48	7	5	1
D49	8	5	1
D50	8	5	1
D51	8	5	1
D52	8	5	1
D68	8	5	1
D74	8	5	1
C97	12	9	1
D125	9	5	1
C126	9	5	1
D127	9	5	1
C128	9	5	1
D129	9	5	1
C130	9	5	1
D131	12	9	1
D159	9	5	1
C160	10	5	1
D163	10	5	1

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: DEVICE ID INDEX

Device Index For Section H			
Device ID	Section H Page No.	Process	System
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D165	2	1	1
D166	3	1	2
D168	5	3	1
D173	7	4	1
D182	14	9	3
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D193	6	4	1
S195	4	1	3
S198	14	9	3
S199	13	9	1
C209	12	9	1
C210	12	9	1
D214	10	6	1
S215	11	6	1
C217	4	2	1
C218	4	2	1
C219	4	2	1
C220	4	2	1
C221	5	2	1
D222	6	4	1
D224	6	4	1
D225	5	3	2
D227	2	1	1
D228	2	1	1
D231	11	6	1
S233	11	6	1
D235	5	2	1
D237	6	4	1

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

#### FACILITY CONDITIONS

F2.1 The operator shall limit emissions from this facility as follows:

CONTAMINANT	EMISSIONS LIMIT
Single Volatile Hazardous Air Pollutant (VHAP)	Less than 10 TONS IN ANY ONE YEAR
Combination of Volatile Hazardous Air Pollutants (VHAPs)	Less than 25 TONS IN ANY ONE YEAR

**[40CFR 63 Subpart A, 3-16-1994; 40CFR 63 Subpart CC, 8-18-1995]**

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or

(b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

**[RULE 401, 3-2-1984; RULE 401, 9-11-1998]**

F14.1 The operator shall not use natural gas containing sulfur compounds in excess of 16 ppmv calculated as hydrogen sulfide.

**[RULE 431.1, 6-12-1998]**

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

F16.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

1. The operator shall comply with all applicable recordkeeping, reporting, and other requirements of 40CFR63 Subpart A and Section 63.640(k) of Subpart CC
2. The operator shall submit all requests, reports, notifications, submittals, and other communications required by 40CFR63 Subpart A or Subpart CC to the AQMD or/and US EPA Region IX, where applicable (see addresses in Sections E and K of this permit)
3. The operator shall submit to AQMD applications for plan (alternative plans, compliance plans, etc.) and permits to construct and operate new equipment or equipment modifications, which are required by 40CFR63 Subpart A or Subpart CC, as a Title V permit revision for the approval by the Executive Officer

**[40CFR 63 Subpart A, 3-16-1994; 40CFR 63 Subpart CC, 8-18-1995]**

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- F25.1 The permit holder of this facility shall not install, alter, or operate a refinery process unit or other non-Rule 219 exempt equipment without a valid RECLAIM/Title V permit issued by the AQMD pursuant to Rule 201 - Permit to Construct, Rule 203 - Permit to Operate, Rule 2004 - Requirements, and Rule 3002 - Requirements, as applicable.

Notwithstanding the above, the provisions of Rules 201, 203, 2004, and 3002 shall not apply to installations or alterations that involve only the equipment listed in Table 1 below, nor shall they apply to the operation of equipment listed in Table 1, when directly associated with permitted process units or other permitted equipment.

Notwithstanding the above, all new equipment listed in Table 1, including associated fugitive components installed with such equipment, shall have Best Available Control Technology installed in conformance with the Best Available Control Technology Guidelines in effect at the time of the installation.

TABLE 1

- (a) Heat Exchanger (including air-cooler, reboiler, cooler, condenser, and shell and tube exchanger)
- (b) In-line Mixer
- (c) Pump
- (d) Knockout Pot - Compressor inlet (immediate inlet) and interstage
- (e) Knockout Pot - Fuel Gas System (downstream of fuel gas mix drums)

This condition applies only to the facility that processes petroleum as defined in the Standard Industrial Classification Manual as Industry No. 2911 - Petroleum Refining, as well as its directly associated sulfur recovery plant which may be located outside of the facility.

- F34.1 The operator shall not sell natural gas containing sulfur compounds in excess of 16 ppmv, calculated as hydrogen sulfide (H<sub>2</sub>S).

**[RULE 431.1, 6-12-1998]**

- F34.2 The operator shall not sell refinery gas containing sulfur compounds in excess of 40 ppmv, calculated as hydrogen sulfide, averaged over 4-hour period.

**[RULE 431.1, 6-12-1998]**

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

- F51.1 The operator shall comply with all requirements specified in the applicable contractor's various locations permits whenever the contractor operates the equipment.

**[RULE 204, 10-8-1993]**

- F52.1 This facility is subject to the applicable requirements of the following rules or regulation(s):

40CFR61, Subpart FF

The operator shall keep records in accordance with 61.356-Recordkeeping requirements

The operator shall comply with the applicable reporting requirements as specified in 61.357

**[40CFR 61 Subpart FF, 12-4-2003]**

### **SYSTEM CONDITIONS**

- S1.1 The operator shall limit the throughput to no more than 2.19 MM gallons in any one calendar month.

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]

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

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

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, 5-13-1994; RULE 1173, 12-6-2002; 40CFR 60 Subpart GGG, 6-7-1985]**

[Systems subject to this condition : Process 1, System 1 , 2; Process 2, System 1; Process 4, System 1]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

S13.1 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1123

**[RULE 1123, 12-7-1990]**

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

S13.2 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	461

**[RULE 461, 9-8-1995; RULE 461, 6-15-2001]**

[Systems subject to this condition : Process 11, System 1]

S15.1 The vent gases from all affected devices of this process/system shall be vented as follows:

All sour gas under normal operating conditions shall be directed to the H2S removal/sour gas treating system.

This process/system shall not be operated unless the H2S removal/sour gas treating system is in full use and has a valid permit to receive vent gases from this system.

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

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

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

S15.2 The vent gases from all affected devices of this process/system shall be vented as follows:

All emergency vent gases shall be directed to the incinerator I-301(Device C97) except pressure relief valves (PRVs) on devices D6, D7 and D8 which vent to atmosphere.

This process/system shall not be operated unless the incinerator I-301 (Device C97) is in full use and has a valid permit to receive vent gases from this system.

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

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

S18.1 All affected devices listed under this process/system shall be used only to receive, recover and/or dispose of vent gases routed from the system(s) or process(es) listed below, in addition to specific devices identified in the "connected to" column:

Crude Distillation Units (Process: 1, System: 1 & 2)

**[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]**

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

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

S31.1 The following BACT requirements shall apply to VOC service fugitive components associated with the devices that are covered by application number(s) 438515 (SulfaTreat & Potassium Permanganate System):

- All valves in VOC service shall be of leakless type, except those specifically exempted by Rule 1173 or approved by the District in the following applications: heavy liquid service, control valves, instrument piping/tubing, applications requiring torsional valve stem motion, applications where failures could pose safety hazards (e.g. drain valves with valve stems in horizontal position), retrofits with space limitations, and valves not commercially available at the time of Permit to Construct issuance.
- For the purpose of this condition, leakless valve shall be defined as any valve equipped with sealed bellow or equivalent as approved in writing by the District prior to installation. Components shall be defined as any valve, flange, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sight-glass, meter, and any instrumentation which are not exempted by Rule 1173.
- All components in VOC service, except those specifically exempted by Rule 1173 and valves and flanges, shall be inspected quarterly using EPA reference method 21. All valves and flanges in VOC service except those specifically exempted by Rule 1173 shall be inspected monthly using EPA method 21.
- All components in VOC service, a leak greater than 500 ppm but less than 1,000 ppm measured as methane above background using EPA Method 21, shall be repaired within 14 days of detection. A leak greater than 1,000 ppm shall be repaired according to Rule 1173.
- If 98.0 percent or greater of the new valve and flange population inspected is found to leak gaseous or liquid VOC at a rate less than 500 ppm for two consecutive months, then the operator may 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 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]**

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

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- S54.1 The operator shall comply with all the requirements of Order for Abatement (Case No. 2033-10A) issued on May 28, 2008, or any subsequent modification in accordance with the Order and Decision of the Hearing Board. The operator shall submit progress reports at least semi-annually, or more frequently if specified in the Order and Decision. The progress reports shall contain dates for achieving activities, milestones or compliance required in the schedule of compliance and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not, or will not be met, and any preventative or corrective measures adopted.

[RULE 3004(a)(10)(C), 8-11-1995; **RULE 3004(a)(10)(C), 12-12-1997**]

[Systems subject to this condition : Process 1, System 1 , 2 , 3; Process 2, System 1; Process 4, System 1; Process 9, System 1 , 2 , 3]

### DEVICE CONDITIONS

#### A. Emission Limits

- A63.1 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
Visible emissions	Less than or equal to 0 Percent opacity

[40CFR 60 Subpart UU, 8-5-1983]

[Devices subject to this condition : D125, D127, D129, D159, D163]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

A63.4 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	-	EMISSIONS LIMIT	-
CO	Less than or equal to	1030.85	LBS IN ANY CALENDAR MONTH
VOC	Less than or equal to	211.12	LBS IN ANY CALENDAR MONTH
SOX	Less than or equal to	29.12	LBS IN ANY CALENDAR MONTH
PM10	Less than or equal to	211.12	LBS IN ANY CALENDAR MONTH

For the purposes of this condition, the limit(s) shall be based on the total combined emissions from equipment D231, boiler, and D214, boiler.

The operator shall calculate the emission limit(s) for boiler D214 using calendar monthly fuel usage data in million standard cubic feet per month (mmscf/month) and the following emissions factors: CO, 38.54 lb/mmscf; VOC, 6.3 lb/mmscf; SOx, 0.74 lb/mmscf; and PM10, 6.3 lb/mmscf

The operator shall calculate the emission limit(s) for boiler D231 using calendar monthly fuel usage data in million standard cubic feet per month (mmscf/month) and the following emissions factors: CO, 38.85 lb/mmscf; VOC, 5.5 lb/mmscf; SOx, 0.6 lb/mmscf; and PM10, 7.6 lb/mmscf

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D214, D231]

### **B. Material/Fuel Type Limits**

B22.2 The operator shall not use this equipment with materials having a(n) Reid vapor pressure of 0.5 psia or greater under actual operating conditions.

**[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 204, 10-8-1993]**

[Devices subject to this condition : D159, D163]

### **C. Throughput or Operating Parameter Limits**

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

C1.4 The operator shall limit the throughput to no more than 150000 barrel(s) in any one year.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D125, D127, D129]

C1.11 The operator shall limit the loading rate to no more than 6,083,333 gallon(s) in any one calendar month.

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) w 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]**

[Devices subject to this condition : D29]

C1.12 The operator shall limit the throughput to no more than 500000 barrel(s) in any one year.

**[RULE 1303(b)(2)-Offset, 5-10-1996]**

[Devices subject to this condition : D159, D163]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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 combined power 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]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

C1.19 The operator shall limit the throughput to no more than 6,083 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..

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

[Devices subject to this condition : D48, D52]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

C1.20 The operator shall limit the throughput to no more than 12,166 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..

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

[Devices subject to this condition : D45, D47, D49, D51]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

C1.21 The operator shall limit the throughput to no more than 97,984 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..

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

[Devices subject to this condition : D46]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

C1.22 The operator shall limit the throughput to no more than 43,126 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..

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

[Devices subject to this condition : D74]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

C1.23 The operator shall limit the throughput to no more than 102,315 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..

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

[Devices subject to this condition : D68]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

C1.24 The operator shall limit the throughput to no more than 22,812 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..

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

[Devices subject to this condition : D50]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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

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) w 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]**

[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]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

C1.28 The operator shall limit the fuel usage to no more than 27.634 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 : 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.

[**RULE 204, 10-8-1993**; **RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : D125, D127, D129]

C6.5 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, does not exceed 500 Deg F.

To comply with this condition, the operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature of the commodity being loaded.

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**; **RULE 462, 5-14-1999**]

[Devices subject to this condition : D25, D29]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- C6.7 The operator shall use this equipment in such a manner that the pressure being monitored, as indicated below, does not exceed 1.49 Psia.

For the purpose of this condition, pressure is the vapor pressure of the commodity being loaded under actual loading conditions.

The operator shall use the Residual Storage Tank Vapor Pressure (RSVP) method or other approved method to comply with this condition.

The purpose of this condition is to ensure that this equipment loads commodities with vapor pressures well below the vapor pressures that are subject to Rule 462.

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

**[RULE 462, 5-14-1999]**

[Devices subject to this condition : D25, D29]

- 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.

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]

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

- C12.1 The operator shall use this equipment in such a manner that the H2S concentration being monitored as indicated below is less than 160 ppmv.

Submit an application for the NSPS CEMS.

The NSPS CEMS shall be installed within 150 days of the issuance of the permit to construct for this equipment.

The operator shall install and maintain a NSPS CEMS to monitor and record the:

1. H2S concentrations

in the fuel gas before being burned in this equipment. In addition, the operator shall keep records, in a manner approved by the District, for this parameter.

A certification test for the NSPS CEMS shall be performed within 30 days of installation of the NSPS CEMS.

Certification test data shall be submitted to the District within 60 days following the test completion. The facility permit holder shall notify the District of the date and time of the certification test at least 10 days prior to the test.

H2S concentration in ppmv.

As defined in 40CFR60, Subpart J '60.101(d), fuel gas is any gas which is generated at a petroleum refinery and which is combusted .

The purpose of this condition is to ensure compliance with the fuel gas limit under 40CFR60, Subpart J '60.104(a)(1).

**[40CFR 60 Subpart J, 6-24-2008]**

[Devices subject to this condition : C97]

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

- C12.2 The operator shall use this equipment in such a manner that the sulfur compounds being monitored as indicated below is less than 40 ppmv calculated as H<sub>2</sub>S, 4-hr averaging period.

Submit an application for the Rule 431.1 Continuous fuel gas monitoring system (CFGMS).

The CFGMS shall be installed within 150 days of the issuance of the permit to construct for this equipment. The operator shall install and maintain CFGMS to determine and record the:

1. sulfur content, calculated as H<sub>2</sub>S

of the fuel gas prior to burning in this equipment. In addition, the operator shall keep records, in a manner approved by the District, for this parameter.

A certification test for the CFGMS shall be performed within 30 days of installation of the CFGMS.

Certification test data shall be submitted to the District within 60 days following the test completion. The facility permit holder shall notify the District of the date and time of the certification test at least 10 days prior to the test.

Total sulfur compounds calculated as H<sub>2</sub>S in ppmv

**[RULE 431.1, 6-12-1998]**

[Devices subject to this condition : C97]

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

- C12.3 The operator shall use this equipment in such a manner that the heating value of the asphalt blowing stills vent gases being monitored as indicated below is less than 300 BTU/SCF.

The operator shall install and maintain a monthly heating value sampling program to take, determine and record the:

1. heating value of the asphalt blowing stills vent gases

prior to burning in this equipment. In addition, the operator shall keep records, in a manner approved by the District, for this parameter.

The operator shall take monthly vent gas samples when the asphalt blowing stills are in full use and are venting to this equipment.

The operator shall analyze the samples pursuant to test methods specified in Rule 431.1.

The purpose of this condition is to ensure that the asphalt blowing stills vent gases are waste gases as defined in Rule 431.1 and is eligible for the exemption under this rule.

**[RULE 431.1, 6-12-1998]**

[Devices subject to this condition : C97]

### **D. Monitoring/Testing Requirements**

- D11.1 The operator shall install all required RECLAIM SOX monitoring, reporting, and recordkeeping (MRR) systems no later than July 23, 2009. Prior to this date or until all the required RECLAIM MRR systems are installed, whichever is earlier, the operator shall use the interim MRR method as specified in Rule 2011.

**[RULE 2011, 5-6-2005]**

[Devices subject to this condition : C97]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- D12.5 The operator shall install and maintain a(n) pressure sensing device to accurately indicate the pressure in the vent line between the asphalt tank and the drum condenser.

The continuous pressure monitoring shall include high and low level alarms, which shall be set at 3.0 and 0.5 inches water column, respectively.

If the pressure falls below 0.5 or rises above 3.0 inches water column range, the operator shall conduct a visual inspection and take necessary remedial action immediately to bring the pressure back within operating range of 0.5 to 3.0 inches water column.

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 401, 3-2-1984; RULE 401, 9-11-1998]**

[Devices subject to this condition : C126, C128, C130, C160, C164]

- D28.2 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted annually to determine the control efficiency of the incinerator.

The test shall be conducted every five years to determine the SO<sub>x</sub>, CO & PM emissions at the outlet.

**[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]

- D28.5 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted annually.

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

**[RULE 1146, 11-17-2000; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982]**

[Devices subject to this condition : D19, D20]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D29.1 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOX emissions	District method 100.1	District-approved averaging time	Stack
CO emissions	District method 100.1	District-approved averaging time	Stack
VOC emissions	Approved District method	District-approved averaging time	Stack
PM emissions	District method 5.2	District-approved averaging time	Stack

The test(s) shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up.

The test shall be conducted to determine oxygen levels in the exhaust. In addition, the test shall measure the fuel flow rate (scfh) and the flue gas flow rate..

The test shall be conducted to determine the emissions in lb/hr and in lb/mmsecf and concentrations in ppmv.

The test shall be conducted in accordance with a District approved source test protocol. The protocol shall be submitted to the District engineer no later than 45 days before the proposed test date and shall be approved by the District before the test commences.

The test shall be conducted with the equipment operating at least 80 percent of the permitted maximum capacity or within a capacity range approved by the District.

The test protocol shall include the proposed operating conditions of the boiler including boiler firing rate in MMBTU/hr, the identity of the testing lab, a statement from the testing lab certifying that it meets the criteria of Rule 304 and a description of all sampling and analytical procedures

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

[Devices subject to this condition : D231]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D29.2 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOX emissions	District method 100.1	District-approved averaging time	Stack
CO emissions	District method 100.1	District-approved averaging time	Stack

The test(s) shall be conducted at least once every three years.

The test shall be conducted to determine emission rates in lb/hr and concentrations in ppmv. The District shall be notified of the date and time of the test at least 7 days prior to the test.

The test shall be conducted with the equipment operating at least 80 percent of the permitted maximum capacity or within a capacity range approved by the District.

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

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

[Devices subject to this condition : D214, D231]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D29.3 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
CO emissions	Approved District method	District-approved averaging time	Stack
NOX emissions	Approved District method	District-approved averaging time	Stack
SOX emissions	Approved District method	District-approved averaging time	Stack
PM emissions	Approved District method	District-approved averaging time	Stack
ROG emissions	Approved District method	District-approved averaging time	Stack

The test shall be conducted 60 days after achieving maximum production rate, but no later than 180 days after the construction/ modification is completed.

The test shall be conducted when this equipment is operating at 80 percent or greater of its maximum design heat rating..

The test shall be conducted when the sources venting to this equipment are in operation and are venting to this equipment..

The test shall be conducted to determine the control efficiency of the incinerator. Firebox temperature shall be recorded during testing. If control efficiency is less than 99%, testing shall be performed to determine firebox temperature at 99% control efficiency.

The NOx tests will be conducted during the incinerator control efficiency test.

During the source test(s), the facility permit holder shall also measure the oxygen levels in the exhaust, fuel flow rate (SCFH), vent gas flow rate (SCFH), the flue gas rate and flue gas temperature..

In addition to the source test requirements of Section E of this facility permit, the facility permit holder shall submit the protocol to the AQMD engineer no later than 45 days prior to the proposed test date, and notify the District of the date and time of the test at least 10 days prior to the test.

The operator shall also provide to the District a source test report containing, at a minimum, the following information:

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

Required Data	Reported As
Emissions Data	Concentration (ppmv) corrected to 15% O <sub>2</sub> , dry basis except for SO <sub>x</sub> concentration corrected to 0% O <sub>2</sub> , dry basis, mass rate (lbs/hr) and lbs/MMCF
Exhaust Flow rate	Dry standard cubic feet per minute (DSCFM) and dry actual cubic feet per minute (DACFM)
Temperatures	Degrees F
Vent gas and fuel flow rates	Standard cubic feet per hour (SCFH)
Other concentrations	Percent O <sub>2</sub> , Percent CO <sub>2</sub>
Firing rate	Total incinerator firing rate, million British thermal units per hour (MMBTU/hr), Vent gas firing rate in MMBTU/hr, fuel gas firing rate in MMBTU/hr and natural gas fuel firing rate in MMBTU/hr
List of equipment in operation and venting to incinerator during the test	List equipment and device number

Notwithstanding the requirements of Section E conditions, the source test results shall be submitted to the District no later than 60 days after the source test was conducted.

The test shall be conducted to demonstrate compliance with Rules 1303(a)(1)-BACT, 1303(b)(2)- Offset, 2005, 404, 407, 409 and 431.1.

**[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 2005, 4-20-2001; RULE 2005, 5-6-2005; RULE 404, 2-7-1986; RULE 407, 4-2-1982; RULE 409, 8-7-1981; RULE 431.1, 6-12-1998]**

[Devices subject to this condition : C97]

D322.1 The operator shall perform a weekly inspection of the drum condenser and filter, to assure that proper water level is maintained in the drum and the filter is in good operating condition..

**[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, C160, C164]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

D323.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on an annual basis, at least, unless the equipment did not operate during the entire annual period. The routine annual inspection shall be conducted while the equipment is in operation and during daylight hours.

If any visible emissions (not including condensed water vapor) are detected that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

- 1). Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit; or
- 2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions;
- 3). Date and time visible emission was abated; and
- 4). All visible emission observation records by operator or a certified smoke reader.

[**RULE 1146, 11-17-2000**; RULE 1146, 9-5-2008; **RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**; **RULE 407, 4-2-1982**]

[Devices subject to this condition : D19, D20, C97]

### **E. Equipment Operation/Construction Requirements**

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

E71.1 The operator shall only use this equipment to store asphalt with a flash point not less than 475 deg. F.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 204, 10-8-1993]**

[Devices subject to this condition : D125, D127, D129, D159, D163]

E71.6 The operator shall not begin operation of this equipment until H2S scrubber (D21) and caustic holding tank (D22) have been shutdown and the permits surrendered.

**[RULE 204, 10-8-1993]**

[Devices subject to this condition : C217, C218, C219, C220, C221]

E73.1 Notwithstanding the requirements of Section E conditions, the operator shall not use this equipment unless:

Incinerator I-301 (C97) is in full use and has a valid permit to receive all vent gases from this equipment

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

[Devices subject to this condition : C217, C218, C219, C220, C221]

E73.2 Notwithstanding the requirements of Section E conditions, the operator shall not use this equipment unless:

Polisher (C220 or C221) is in full use and receives all vent gases from this equipment

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

[Devices subject to this condition : C217, C218, C219]

E193.1 The operator shall operate and maintain this equipment as follows:

Three vessels total, two operated in series, one in standby

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

[Devices subject to this condition : C217, C218, C219]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

E193.2 The operator shall operate and maintain this equipment as follows:

Two vessels total: one in operation, the other on stand-by.

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

[Devices subject to this condition : C220, C221]

E193.3 The operator shall operate and maintain this equipment as follows:

The heat exchanger attached to this equipment shall be used in Asphalt Blowing Stills service only.

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

[Devices subject to this condition : C97]

### H. Applicable Rules

H23.1 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	463
VOC	District Rule	1149
PM	40CFR60, SUBPART	UU

[**RULE 1149, 7-14-1995**; **RULE 463, 3-11-1994**; **40CFR 60 Subpart UU, 8-5-1983**]

[Devices subject to this condition : D125, D127, D129, D159, D163]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

H23.2 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	463
VOC	District Rule	1149

**[RULE 1149, 7-14-1995; RULE 463, 3-11-1994]**

[Devices subject to this condition : D45, D46, D47, D48, D49, D50, D51, D52, D68, D74]

H23.7 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	465
Sulfur compounds	District Rule	465

**[RULE 465, 8-13-1999]**

[Devices subject to this condition : D17, D18]

H23.8 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1173
VOC	40CFR60, SUBPART	GGG

**[RULE 1173, 5-13-1994; 40CFR 60 Subpart GGG, 6-7-1985]**

[Devices subject to this condition : D165, D166, D168, D173, D182, D183, D225]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

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

H23.10 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1176
VOC	40CFR60, SUBPART	QQQ

**[RULE 1176, 9-13-1996; 40CFR 60 Subpart QQQ, 5-5-1989]**

[Devices subject to this condition : D193, D222, D237]

H23.11 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
Benzene	40CFR61, SUBPART	FF

**[40CFR 61 Subpart FF, 12-4-2003]**

[Devices subject to this condition : D193, D222, D237]

H23.12 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	464

**[RULE 464, 12-7-1990]**

[Devices subject to this condition : D222]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

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

H23.13 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1173

**[RULE 1173, 5-13-1994; RULE 1173, 12-6-2002]**

[Devices subject to this condition : D45, D46, D47, D48, D49, D50, D51, D52, D68, D74]

H23.14 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1108
VOC	District Rule	1108.1

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

**[RULE 1108, 2-1-1985; RULE 1108.1, 11-4-1983]**

[Devices subject to this condition : D25, D29]

H23.15 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
Sulfur compounds	District Rule	431.1

**[RULE 431.1, 6-12-1998]**

[Devices subject to this condition : C97]

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

H23.16 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
H2S	40CFR60, SUBPART	J

Pursuant to 40CFR60.8(c), emissions in excess of the level of the applicable emission limit (40CFR60.104(a)(1)) during periods of startup, shutdown and malfunction shall not be considered a violation of the applicable emission limit (40CFR60.104(a)(1)) unless otherwise specified in the applicable standard.

**[40CFR 60 Subpart J, 6-24-2008]**

[Devices subject to this condition : C97]

H23.17 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1173
VOC	40CFR60, SUBPART	GGGa

**[RULE 1173, 5-13-1994; RULE 1173, 6-1-2007; 40CFR 60 Subpart GGGa, 6-2-2008]**

[Devices subject to this condition : D235]

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

H23.18 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
SOX	40CFR60, SUBPART	Dc
PM	40CFR60, SUBPART	Dc

**[40CFR 60 Subpart Dc, 2-27-2006]**

[Devices subject to this condition : D214, D231]

### **I. Administrative**

II.1 The operator shall comply with all the requirements of the compliance schedule as specified in the Order for Abatement Case No. 2033-10A, issued on May 28, 2008, or any subsequent modification in accordance with the Findings and Decisions of the Hearing Board or as subsequently modified by the Hearing Board. The operator shall submit progress reports at least semi-annually, or more frequently if specified in the Findings and Decisions. The progress reports shall contain dates for achieving activities, milestones or compliance required in the schedule of compliance and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not, or will not be met, and any preventative or corrective measures adopted.

The variance (or Order for Abatement) referenced in this condition does not affect federal or citizen enforceability of the underlying SIP approved rules for which the applicant is receiving the variance (or Order for Abatement).

**[RULE 3004(a)(10)(C), 12-12-1997]**

[Devices subject to this condition : D25, D29, D45, D46, D47, D48, D49, D50, D51, D52, D68, D74, C97, D222, D237]

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### **SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

- I1.2 The operator shall comply with all the requirements of the compliance schedule as specified in the Variance Case No. 2033-17, issued on 01/17/2007, or any subsequent modification in accordance with the Findings and Decisions of the Hearing Board or as subsequently modified by the Hearing Board. The operator shall submit progress reports at least semi-annually, or more frequently if specified in the Findings and Decisions. The progress reports shall contain dates for achieving activities, milestones or compliance required in the schedule of compliance and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not, or will not be met, and any preventative or corrective measures adopted.

The variance (or Order for Abatement) referenced in this condition does not affect federal or citizen enforceability of the underlying SIP approved rules for which the applicant is receiving the variance (or Order for Abatement).

**[RULE 3004(a)(10)(C), 12-12-1997]**

[Devices subject to this condition : D45, D46, D47, D48, D49, D50, D51, D52, D68, D74]

### **K. Record Keeping/Reporting**

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

K40.1 The operator shall provide to the District a source test report in accordance with the following specifications:

Source test results shall be submitted to the District no later than 60 days after the source test was conducted.

Emission data shall be expressed in terms of concentration (ppmv), corrected to 3 percent oxygen, dry basis.

All exhaust flow rate shall be expressed in terms of dry standard cubic feet per minute (DSCFM) and dry actual cubic feet per minute (DACFM).

All moisture concentration shall be expressed in terms of percent corrected to 3 percent oxygen.

Emission data shall be expressed in terms of mass rate (lbs/hr). In addition, solid PM emissions, if required to be tested, shall also be reported in terms of grains per DSCF.

Emission data shall be expressed in terms of lbs/MM cubic feet.

Source test results shall also include fuel usage flow rate, equipment firing rate and exhaust gas rate under which the test was conducted.

[RULE 1303, 4-20-2001; **RULE 2005, 5-6-2005**]

[Devices subject to this condition : D214, D231]

K67.4 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Fuel usage

The operator shall install, maintain and operate a recording device to record these parameters on a calendar monthly basis

Such records shall be maintained and kept on file for at least three years and shall be made available to the Executive officer or his authorized representative upon request.

[RULE 1303, 4-20-2001; **RULE 2005, 5-6-2005**]

[Devices subject to this condition : D214, D231]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

K67.5 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Total mass emissions

Such records shall be maintained and kept on file for at least three years and shall be made available to the Executive officer or his authorized representative upon request.

[RULE 1303, 4-20-2001; **RULE 2005, 5-6-2005**]

[Devices subject to this condition : D214, D231]

K67.6 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Tank throughput in barrels per month.

Commodity/product stored

Vapor pressure, in psia, of each batch of commodity/product stored.

Other records that may be required to comply with the applicable requirements of District Rules 463 & 1173.

Records shall be kept and maintained for at least five years, and shall be made available to the Executive Officer or his authorized representative upon request.

[**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 : D45, D46, D47, D48, D49, D50, D51, D52, D68, D74]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION I: PLANS AND SCHEDULES

This section lists all plans approved by AQMD for the purposes of meeting the requirements of applicable AQMD rules specified below. The operator shall comply with all conditions specified in the approval of these plans, with the following exceptions:

- a. The operator does not have to comply with NO<sub>x</sub> or SO<sub>x</sub> emission limits from rules identified in Table 1 or Table 2 of Rule 2001(j) which become effective after December 31, 1993.
- b. The operator does not have to comply with NO<sub>x</sub> or SO<sub>x</sub> emission limits from rules identified in Table 1 or Table 2 of Rule 2001(j) after the facility has received final certification of all monitoring and reporting requirements specified in Section F and Section G.

Documents pertaining to the plan applications listed below are available for public review at AQMD Headquarters. Any changes to plan applications will require permit modification in accordance with Title V permit revision procedures.

#### List of approved plans:

Application	Rule
213596	1404
483832	462

NOTE: This section does not list compliance schedules pursuant to the requirements of Regulation XXX - Title V Permits; Rule 3004(a)(10)(C). For equipment subject to a variance, order for abatement, or alternative operating condition granted pursuant to Rule 518.2, equipment specific conditions are added to the equipment in Section D or H of the permit.

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LUNDAY-THAGARD COMPANY**

SECTION J: AIR TOXICS

NOT APPLICABLE

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### **SECTION K: TITLE V Administration**

#### **GENERAL PROVISIONS**

1. This permit may be revised, revoked, reopened and reissued, or terminated for cause, or for failure to comply with regulatory requirements, permit terms, or conditions. [3004(a)(7)(C)]
2. This permit does not convey any property rights of any sort or any exclusive privilege. [3004(a)(7)(E)]

#### **Permit Renewal and Expiration**

3. (A) Except for solid waste incineration facilities subject to standards under Section 129(e) of the Clean Air Act, this permit shall expire five years from the date that this Title V permit is issued. The operator's right to operate under this permit terminates at midnight on this date, unless the facility is protected by an application shield in accordance with Rule 3002(b), due to the filing of a timely and complete application for a Title V permit renewal, consistent with Rule 3003. [3004(a)(2), 3004(f)]  
  
(B) A Title V permit for a solid waste incineration facility combusting municipal waste subject to standards under Section 129(e) of the Clean Air Act shall expire 12 years from the date of issuance unless such permit has been renewed pursuant to this regulation. These permits shall be reviewed by the Executive Officer at least every five years from the date of issuance. [3004(f)(2)]
4. To renew this permit, the operator shall submit to the Executive Officer an application for renewal at least 180 days, but not more than 545 days, prior to the expiration date of this permit. [3003(a)(6)]

#### **Duty to Provide Information**

5. The applicant for, or holder of, a Title V permit shall furnish, pursuant to Rule 3002(d) and (e), timely information and records to the Executive Officer or designee within a reasonable time as specified in writing by the Executive Officer or designee. [3004(a)(7)(F)]

#### **Payment of Fees**

6. The operator shall pay all required fees specified in Regulation III - Fees. [3004(a)(7)(G)]

#### **Reopening for Cause**

7. The Executive Officer will reopen and revise this permit if any of the following circumstances occur:
  - (A) Additional regulatory requirements become applicable with a remaining permit term of three or more years. Reopening is not required if the effective date of the requirement is later than the expiration date of this permit, unless the permit or any of its terms and conditions has been extended pursuant to paragraph (f)(4) of Rule 3004.

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION K: TITLE V Administration

- (B) The Executive Officer or EPA Administrator determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
- (C) The Executive Officer or EPA Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [3005(g)(1)]

### COMPLIANCE PROVISIONS

- 8. The operator shall comply with all regulatory requirements, and all permit terms and conditions, except:
  - (A) As provided for by the emergency provisions of condition no. 17 or condition no. 18, or
  - (B) As provided by an alternative operating condition granted pursuant to a federally approved (SIP-approved) Rule 518.2.

Any non-compliance with any federally enforceable permit condition constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or denial of a permit renewal application. Non-compliance may also be grounds for civil or criminal penalties under the California State Health and Safety Code. [3004(a)(7)(A)]

- 9. The operator shall allow the Executive Officer or authorized representative, upon presentation of appropriate credentials to:
  - (A) Enter the operator's premises where emission-related activities are conducted, or records are kept under the conditions of this permit;
  - (B) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
  - (C) Inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
  - (D) Sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the facility permit or regulatory requirements. [3004(a)(10)(B)]
- 10. All terms and conditions in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the EPA Administrator and citizens under the federal Clean Air Act, unless the term or condition is designated as not federally enforceable. Each day during any portion of which a violation occurs is a separate offense. [3004(g)]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION K: TITLE V Administration

11. A challenge to any permit condition or requirement raised by EPA, the operator, or any other person, shall not invalidate or otherwise affect the remaining portions of this permit. [3007(b)]
12. The filing of any application for a permit revision, revocation, or termination, or a notification of planned changes or anticipated non-compliance does not stay any permit condition. [3004(a)(7)(D)]
13. It shall not be a defense for a person in an enforcement action, including those listed in Rule 3002(c)(2), that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit, except as provided for in "Emergency Provisions" of this section. [3004(a)(7)(H)]
14. The operator shall not build, erect, install, or use any equipment, the use of which, without resulting in a reduction in the total release of air contaminants to atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the California Health and Safety Code or of AQMD rules. This rule shall not apply to cases in which the only violation involved is of Section 41700 of the California Health and Safety Code, or Rule 402 of AQMD Rules. [408]
15. Nothing in this permit or in any permit shield can alter or affect:
  - (A) Under Section 303 of the federal Clean Air Act, the provisions for emergency orders;
  - (B) The liability of the operator for any violation of applicable requirements prior to or at the time of permit issuance;
  - (C) The applicable requirements of the Acid Rain Program, Regulation XXXI;
  - (D) The ability of EPA to obtain information from the operator pursuant to Section 114 of the federal Clean Air Act;
  - (E) The applicability of state or local requirements that are not "applicable requirements", as defined in Rule 3000, at the time of permit issuance but which do apply to the facility, such as toxics requirements unique to the State; and
  - (F) The applicability of regulatory requirements with compliance dates after the permit issuance date. [3004(c)(3)]
16. For any portable equipment that requires an AQMD or state permit or registration, excluding a) portable engines, b) military tactical support equipment and c) AQMD-permitted portable equipment that are not a major source, are not located at the facility for more than 12 consecutive months after

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

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commencing operation, and whose operation does not conflict with the terms or conditions of this Title V permit: 1) the facility operator shall keep a copy of the AQMD or state permit or registration; 2) the equipment operator shall comply with the conditions on the permit or registration and all other regulatory requirements; and 3) the facility operator shall treat the permit or registration as a part of its Title V permit, subject to recordkeeping, reporting and certification requirements. [3004(a)(1)]

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION K: TITLE V Administration

#### EMERGENCY PROVISIONS

17. An emergency<sup>1</sup> constitutes an affirmative defense to an action brought for non-compliance with a technology-based emission limit only if:
- (A) Properly signed, contemporaneous operating records or other credible evidence demonstrate that:
    - (1) An emergency occurred and the operator can identify the cause(s) of the emergency;
    - (2) The facility was operated properly (i.e. operated and maintained in accordance with the manufacturer's specifications, and in compliance with all regulatory requirements or a compliance plan), before the emergency occurred;
    - (3) The operator took all reasonable steps to minimize levels of emissions that exceeded emissions standard, or other requirements in the permit; and,
    - (4) The operator submitted a written notice of the emergency to the AQMD within two working days of the time when the emissions limitations were exceeded due to the emergency. The notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and
  - (B) The operator complies with the breakdown provisions of Rule 430 - Breakdown Provisions, or subdivision (i) of Rule 2004 - Requirements, whichever is applicable. [3002(g), 430, 2004(i)]
18. The operator is excused from complying with any regulatory requirement that is suspended by the Executive Officer during a state of emergency or state of war emergency, in accordance with Rule 118 - Emergencies. [118]

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<sup>1</sup> "Emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the operator, including acts of God, which: (A) requires immediate corrective action to restore normal operation; and (B) causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency; and (C) is not caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

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#### **RECORDKEEPING PROVISIONS**

19. In addition to any other recordkeeping requirements specified elsewhere in this permit, the operator shall keep records of required monitoring information, where applicable, that include:
- (A) The date, place as defined in the Title V permit, and time of sampling or measurements;
  - (B) The date(s) analyses were performed;
  - (C) The company or entity that performed the analyses;
  - (D) The analytical techniques or methods used;
  - (E) The results of such analyses; and
  - (F) The operating conditions as existing at the time of sampling or measurement. [3004(a)(4)(B)]
20. The operator shall maintain records pursuant to Rule 109 and any applicable material safety data sheet (MSDS) for any equipment claimed to be exempt from a written permit by Rule 219 based on the information in those records. [219(t)]
21. The operator shall keep all records of monitoring data required by this permit or by regulatory requirements for a period of at least five years from the date of the monitoring sample, measurement, report, or application. [3004(a)(4)(E)]

#### **REPORTING PROVISIONS**

22. The operator shall comply with the following requirements for prompt reporting of deviations:
- (A) Breakdowns shall be reported as required by Rule 430 - Breakdown Provisions or subdivision (i) of Rule 2004 - Requirements, whichever is applicable.
  - (B) Other deviations from permit or applicable rule emission limitations, equipment operating conditions, or work practice standards, determined by observation or by any monitoring or testing required by the permit or applicable rules that result in emissions greater than those allowed by the permit or applicable rules shall be reported within 72 hours (unless a shorter reporting period is specified in an applicable State or Federal Regulation) of discovery of the deviation by contacting AQMD enforcement personnel assigned to this facility or otherwise calling (800) CUT-SMOG.

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### SECTION K: TITLE V Administration

- (C) A written report of such deviations reported pursuant to (B), and any corrective actions or preventative measures taken, shall be submitted to AQMD, in an AQMD approved format, within 14 days of discovery of the deviation.
  - (D) All other deviations shall be reported with the monitoring report required by condition no. 23. [3004(a)(5)]
23. Unless more frequent reporting of monitoring results are specified in other permit conditions or in regulatory requirements, the operator shall submit reports of any required monitoring to the AQMD at least twice per year. The report shall include a) a statement whether all monitoring required by the permit was conducted; and b) identification of all instances of deviations from permit or regulatory requirements. A report for the first six calendar months of the year is due by August 31 and a report for the last six calendar months of the year is due by February 28. [3004(a)(4)(F)]
24. The operator shall submit to the Executive Officer and to the Environmental Protection Agency (EPA), an annual compliance certification. For RECLAIM facilities, the certification is due when the Annual Permit Emissions Program (APEP) report is due and shall cover the same reporting period. For other facilities, the certification is due on March 1 for the previous calendar year. The certification need not include the period preceding the date the initial Title V permit was issued. Each compliance certification shall include:
- (A) Identification of each permit term or condition that is the basis of the certification;
  - (B) The compliance status during the reporting period;
  - (C) Whether compliance was continuous or intermittent;
  - (D) The method(s) used to determine compliance over the reporting period and currently, and
  - (E) Any other facts specifically required by the Executive Officer to determine compliance.
- The EPA copy of the certification shall be sent to: Director of the Air Division Attn: Air-3 USEPA, Region IX 75 Hawthorne St. San Francisco, CA 94105 [3004(a)(10)(E)]
25. All records, reports, and documents required to be submitted by a Title V operator to AQMD or EPA shall contain a certification of accuracy consistent with Rule 3003(c)(7) by a responsible official (as defined in Rule 3000). [3004(a)(12)]

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#### **PERIODIC MONITORING**

26. All periodic monitoring required by this permit pursuant to Rule 3004(a)(4)(c) is based on the requirements and justifications in the AQMD document "Periodic Monitoring Guidelines for Title V Facilities" or in case-by-case determinations documented in the Title V application file. [3004(a)(4)]

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*FACILITY RULES*

*This facility is subject to the following rules and regulations:*

With the exception of Rule 402, 473, 477, 1118 and Rules 1401 through 1420, the following rules that are designated as non-federally enforceable are pending EPA approval as part of the state implementation plan. Upon the effective date of that approval, the approved rule(s) will become federally enforceable, and any earlier versions of those rules will no longer be federally enforceable.

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 1107	11-17-2000	Federally enforceable
RULE 1108	2-1-1985	Federally enforceable
RULE 1108.1	11-4-1983	Federally enforceable
RULE 1113	11-8-1996	Federally enforceable
RULE 1113	7-13-2007	Non federally enforceable
RULE 1123	12-7-1990	Federally enforceable
RULE 1136	6-14-1996	Federally enforceable
RULE 1146	11-17-2000	Federally enforceable
RULE 1146	5-13-1994	Federally enforceable
RULE 1146	9-5-2008	Non federally enforceable
RULE 1149	7-14-1995	Federally enforceable
RULE 1173	12-6-2002	Non federally enforceable
RULE 1173	5-13-1994	Federally enforceable
RULE 1173	6-1-2007	Non federally enforceable
RULE 1176	9-13-1996	Federally enforceable
RULE 1178	4-7-2006	Federally enforceable
RULE 118	12-7-1995	Non federally enforceable
RULE 1303(a)(1)-BACT	12-6-2002	Non federally enforceable
RULE 1303(a)(1)-BACT	5-10-1996	Federally enforceable
RULE 1303(a)-BACT	5-10-1996	Federally enforceable
RULE 1303(b)(2)-Offset	12-6-2002	Non federally enforceable
RULE 1303(b)(2)-Offset	5-10-1996	Federally enforceable
RULE 1401	5-3-2002	Non federally enforceable
RULE 1402	3-4-2005	Non federally enforceable
RULE 1415	10-14-1994	Non federally enforceable
RULE 1418	9-10-1999	Non federally enforceable
RULE 2005	4-20-2001	Federally enforceable
RULE 2005	5-6-2005	Federally enforceable
RULE 2011	5-6-2005	Federally enforceable

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RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 2012	5-11-2001	Federally enforceable
RULE 2012	5-6-2005	Federally enforceable
RULE 204	10-8-1993	Federally enforceable
RULE 205	1-5-1990	Federally enforceable
RULE 217	1-5-1990	Federally enforceable
RULE 219	9-4-1981	Federally enforceable
RULE 3002	11-14-1997	Federally enforceable
RULE 3003	11-14-1997	Federally enforceable
RULE 3004(a)(10)(C)	12-12-1997	Federally enforceable
RULE 3004(a)(10)(C)	8-11-1995	Non federally enforceable
RULE 3004(a)(4)-Periodic Monitoring	12-12-1997	Federally enforceable
RULE 3005	11-14-1997	Federally enforceable
RULE 3007	10-8-1993	Federally enforceable
RULE 301	5-2-2008	Non federally enforceable
RULE 304	1-14-1982	Non federally enforceable
RULE 401	11-9-2001	Non federally enforceable
RULE 401	3-2-1984	Federally enforceable
RULE 402	5-7-1976	Non federally enforceable
RULE 404	2-7-1986	Federally enforceable
RULE 407	4-2-1982	Federally enforceable
RULE 408	5-7-1976	Federally enforceable
RULE 409	8-7-1981	Federally enforceable
RULE 430	7-12-1996	Non federally enforceable
RULE 431.1	6-12-1998	Federally enforceable
RULE 461	4-21-2000	Federally enforceable
RULE 461	6-15-2001	Non federally enforceable
RULE 461, Phil-Tite Phase I, VST w/o ISD Phase II	3-7-2008	Non federally enforceable
RULE 461, Universal Conditions	3-7-2008	Non federally enforceable
RULE 462	5-14-1999	Federally enforceable
RULE 463	3-11-1994	Federally enforceable
RULE 463	5-6-2005	Federally enforceable
RULE 464	12-7-1990	Federally enforceable
RULE 465	8-13-1999	Federally enforceable
RULE 470	5-7-1976	Federally enforceable
40CFR 60 Subpart Dc	2-27-2006	Federally enforceable
40CFR 60 Subpart GGG	6-7-1985	Federally enforceable
40CFR 60 Subpart GGGa	6-2-2008	Federally enforceable

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### SECTION K: TITLE V Administration

<b>RULE SOURCE</b>	<b>Adopted/Amended Date</b>	<b>FEDERAL Enforceability</b>
40CFR 60 Subpart J	6-24-2008	Federally enforceable
40CFR 60 Subpart Kb	9-7-1990	Federally enforceable
40CFR 60 Subpart QQQ	5-5-1989	Federally enforceable
40CFR 60 Subpart UU	8-5-1983	Federally enforceable
40CFR 61 Subpart FF	12-4-2003	Federally enforceable
40CFR 63 Subpart A	3-16-1994	Federally enforceable
40CFR 63 Subpart CC	5-25-2001	Federally enforceable
40CFR 63 Subpart CC	8-18-1995	Federally enforceable
40CFR 63 Subpart CC, #5B	5-25-2001	Federally enforceable
RULE 701	6-13-1997	Federally enforceable

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### **APPENDIX A: NOX AND SOX EMITTING EQUIPMENT EXEMPT FROM WRITTEN PERMIT PURSUANT TO RULE 219**

1. HEATERS, OFFICE WATER, NATURAL GAS
2. HEATER, LAB WATER, NATURAL GAS
3. BUNSEN BURNERS, NATURAL GAS
4. VACUUM PUMPS
5. WELDING MACHINE, DIESEL, PROPANE

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### APPENDIX B: RULE EMISSION LIMITS [RULE 1107 11-17-2000]

Except as otherwise provided in Rule 1107

(1) VOC Content of Coatings

The operator shall not apply to metal parts and products subject to the provisions of this rule any coatings, including any VOC-containing materials added to the original coating supplied by the manufacturer, which contain VOC in excess of the limits specified below:

<b>LIMITS</b>				
<b>Grams of VOC Per Liter of Coating, Less Water and Less Exempt Compounds</b>				
<b><u>Coating</u></b>	<b><u>Air Dried</u></b>	<b><u>(lb/gal)</u></b>	<b><u>Baked</u></b>	<b><u>(lb/gal)</u></b>
General	340	(2.8)	275	(2.3)
<u>Effective 3/1/1999</u>				
One-Component	275	(2.3)	275	(2.3)
Multi-Component	340	(2.8)	275	(2.3)
Military Specification	340	(2.8)	275	(2.3)
Etching Filler	420	(3.5)	420	(3.5)
Solar-Absorbent	420	(3.5)	360	(3.0)
Heat-Resistant	420	(3.5)	360	(3.0)
Extreme High-Gloss	420	(3.5)	360	(3.0)
Metallic	420	(3.5)	420	(3.5)
Extreme Performance	420	(3.5)	360	(3.0)
Prefabricated Architectural Component	420	(3.5)	275	(2.3)
Touch Up	420	(3.5)	360	(3.0)
Repair	420	(3.5)	360	(3.0)
Silicone Release	420	(3.5)	420	(3.5)
High Performance Architectural	420	(3.5)	420	(3.5)
Camouflage	420	(3.5)	420	(3.5)
Vacuum-Metalizing	420	(3.5)	420	(3.5)
Mold-Seal	420	(3.5)	420	(3.5)
High-Temperature	420	(3.5)	420	(3.5)
Electric-Insulating Varnish	420	(3.5)	420	(3.5)
Pan Backing	420	(3.5)	420	(3.5)
Pretreatment Coatings	420	(3.5)	420	(3.5)

**FACILITY PERMIT TO OPERATE**  
**LUNDAY-THAGARD COMPANY**

**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 1107 11-17-2000]**

- (2) The operator shall not use VOC-containing materials which have a VOC content of more than 200 grams per liter of material for stripping any coating governed by this rule.

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### APPENDIX B: RULE EMISSION LIMITS [RULE 1107 8-14-1998]

Except as otherwise provided in Rule 1107

(1) VOC Content of Coatings

The operator shall not apply to metal parts and products subject to the provisions of this rule any coatings, including any VOC-containing materials added to the original coating supplied by the manufacturer, which contain VOC in excess of the limits specified below:

<b>LIMITS</b>				
<b>Grams of VOC Per Liter of Coating, Less Water and Less Exempt Compounds</b>				
<b><u>Coating</u></b>	<b><u>Air Dried</u></b>	<b><u>(lb/gal)</u></b>	<b><u>Baked</u></b>	<b><u>(lb/gal)</u></b>
General	340	(2.8)	275	(2.3)
<u>Effective 3/1/1999</u>				
One-Component	275	(2.3)	275	(2.3)
Multi-Component	340	(2.8)	275	(2.3)
Military Specification	340	(2.8)	275	(2.3)
Etching Filler	420	(3.5)	420	(3.5)
Solar-Absorbent	420	(3.5)	360	(3.0)
Heat-Resistant	420	(3.5)	360	(3.0)
Extreme High-Gloss	420	(3.5)	360	(3.0)
Metallic	420	(3.5)	420	(3.5)
Extreme Performance	420	(3.5)	360	(3.0)
Prefabricated Architectural Component	420	(3.5)	275	(2.3)
Touch Up	420	(3.5)	360	(3.0)
Repair	420	(3.5)	360	(3.0)
Silicone Release	420	(3.5)	420	(3.5)
High Performance Architectural	420	(3.5)	420	(3.5)
Camouflage	420	(3.5)	420	(3.5)
Vacuum-Metalizing	420	(3.5)	420	(3.5)
Mold-Seal	420	(3.5)	420	(3.5)
High-Temperature	420	(3.5)	420	(3.5)
Electric-Insulating Varnish	420	(3.5)	420	(3.5)
Pan Backing	420	(3.5)	420	(3.5)
Pretreatment Coatings	420	(3.5)	420	(3.5)

**FACILITY PERMIT TO OPERATE  
LUNDAY-THAGARD COMPANY**

**APPENDIX B: RULE EMISSION LIMITS  
[RULE 1107 8-14-1998]**

- (2) The operator shall not use VOC-containing materials which have a VOC content of more than 200 grams per liter of material for stripping any coating governed by this rule.

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### **APPENDIX B: RULE EMISSION LIMITS [RULE 1113 5-14-1999]**

- (1) Except as provided in paragraphs (c)(2), (c)(3), (c)(4), and specified coatings averaged under (c)(6) of Rule 1113, the operator shall not supply, sell, offer for sale, manufacture, blend, or repackage any architectural coating for use in the District which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, and no person shall apply or solicit the application of any architectural coating within the District that exceeds 250 grams of VOC per liter of coating as calculated in this paragraph.
- (2) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6) of Rule 1113, the operator shall not supply, sell, offer for sale, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified, and no person shall apply or solicit the application of any architectural coating within the District that exceeds the VOC limit as specified in this paragraph. No person shall apply or solicit the application within the District of any industrial maintenance coatings for residential use; or of any rust-preventative coating for industrial use.

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### APPENDIX B: RULE EMISSION LIMITS [RULE 1113 5-14-1999]

#### TABLE OF STANDARDS VOC LIMITS

**Grams of VOC Per Liter of Coating,  
 Less Water And Less Exempt Compounds**

COATING	Limit*	Effective 1/1/1998	Effective 1/1/1999	Effective 5/14/99	Effective 7/1/2001	Effective 7/1/2002	Effective 1/1/2005	Effective 7/1/2006	Effective 7/1/2008
Bond Breakers	350								
Chemical Storage Tank Coatings	420							100	
Clear Wood Finishes									
Varnish	350								
Sanding Sealers	350								
Lacquer	680	550					275		
Concrete-Curing Compounds	350								
Dry-Fog Coatings	400								
Essential Public Service Coating	420					340		100	
Fire-proofing Exterior Coatings	450		350						
Fire-Retardant Coatings									
Clear	650								
Pigmented	350								
Flats	250				100				50
Floor Coatings	420					100		50	
Graphic Arts (Sign) Coatings	500								
High Temperature Industrial Maintenance Coatings						550		420	
Industrial Maintenance Coatings	420					250		100	
Japans/Faux Finishing Coatings	700		350						
Magnesite Cement Coatings	600		450						
Mastic Coatings	300								
Metallic Pigmented Coatings	500								
Multi-Color Coatings	420	250							
Non-Flat Coatings	250					150		50	
Pigmented Lacquer	680	550					275		
Pre-Treatment Wash Primers	780								
Primers, Sealers, and Undercoaters	350					200		100	
Quick-Dry Enamels	400					250		50	
Quick-Dry Primers, Sealers, and Undercoaters	350**					200		100	
Recycled Coatings				250		250		100	

**FACILITY PERMIT TO OPERATE  
 LUNDAY-THAGARD COMPANY**

**APPENDIX B: RULE EMISSION LIMITS  
 [RULE 1113 5-14-1999]**

Roof Coatings	300			250					
Bituminous Roof Coatings	300					250			
Rust Preventative Coatings	420			400				100	
Shellac									
Clear	730								
Pigmented	550								
Specialty Primers	350							100	
Stains	350					250			
Swimming Pool Coatings									
Repair	650								
Other	340								
Traffic Coatings	250	150							
Waterproofing Sealers									
Wood	400					250			
Concrete/Masonry	400								
Wood Preservatives									
Below-Ground	350								
Other	350								

\* The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards

\*\* The specified limit applies unless the manufacturer submits a report pursuant to Rule 1113(g)(2).

**Grams of VOC Per Liter of Material**

COATING	Limit
Low-Solids Coating	120

**FACILITY PERMIT TO OPERATE**  
**LUNDAY-THAGARD COMPANY**

**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 1136 6-14-1996]**

Except as otherwise provided in Rule 1136

- (a) The operator shall not apply any coating to a wood product which has a VOC content, including any VOC-containing material added to the original coating supplied by the manufacturer, which exceeds the applicable limit specified below:

(1)

<u>COATING</u>	<b>VOC LIMITS</b>		
	Grams Per Liter (lb/gal) of Coating, [lbs VOC/lb of solids], <u>Less Water and Less Exempt Compounds</u>		
	<u>Current Limit</u>		<u>On and After</u> <u>7/1/2005</u>
	<u>I</u>	<u>or</u>	<u>II</u>
Clear Sealers	550 (4.6) [1.39]	680 (5.7) [3.36]	275 (2.3) [0.36]
Clear Topcoat	550 (4.6) [1.37]	275 (2.3) [0.35]	275 (2.3) [0.35]
Pigmented Primers, Sealers & Undercoats	550 (4.6) [1.06]	600 (5.0) [1.08]	275 (2.3) [0.21]
Pigmented Topcoats	550 (4.6) [1.10]	275 (2.3) [0.25]	275 (2.3) [0.25]

The operator shall use coatings on a wood product that comply with either all VOC limits in column I or all VOC limits in column II. The operator that applies a primer, sealer or undercoat, but not a topcoat, to a wood product, shall be subject to column I for that wood product.

- (2) Notwithstanding the requirements of clause (a)(1), an operator that applies a topcoat and a primer, sealer or undercoat to a shutter may, until July 1, 2005, choose to comply with the VOC limits specified below for that shutter:

<b>VOC LIMITS</b>	
Grams Per Liter, (lb/gal) of Coating, [lbs VOC/lb of solids], <u>Less Water and Less Exempt Compounds</u>	
<u>COATING</u>	
Clear Sealers	275 (2.3) [0.36]
Clear Topcoat	680 (5.7) [2.99]
Pigmented Primers, Sealers & Undercoats	275 (2.3) [0.33]
Pigmented Topcoats	600 (5.0) [1.38]

**FACILITY PERMIT TO OPERATE  
 LUNDAY-THAGARD COMPANY**

**APPENDIX B: RULE EMISSION LIMITS  
 [RULE 1136 6-14-1996]**

(3)

**VOC LIMITS**

Grams Per Liter, (lb/gal) of Coating, [lbs VOC/lb of solids],  
Less Water and Less Exempt Compounds

<u>COATING</u>	<u>Current Limit</u>	<u>On and After</u>
		<u>7/1/2005</u>
Barrier Coat - Plastic Components	760 (6.3) [3.9]	275 (2.3) [0.28]
Composite Wood Edge Filler	550 (4.6) [1.15]	275 (2.3) [0.31]
Extreme Performance Coatings	420 (3.5) [0.51]	275 (2.3) [0.33]
Fillers	500 (4.2) [0.66]	275 (2.3) [0.18]
High-Solid Stains	550 (4.6) [1.23]	350 (2.9) [0.42]
Inks	500 (4.2) [0.96]	500 (4.2) [0.96]
Mold-Seal Coatings	750 (6.3) [4.2]	750 (6.3) [4.2]
Multi-Colored Coatings	685 (5.7) [2.6]	275 (2.3) [0.33]

**VOC LIMITS**

Grams Per Liter (lb/gal) of Material

<u>COATING</u>	<u>Current Limit</u>	<u>On and After</u>
		<u>7/1/2005</u>
Low-Solids Barrier Coat - Plastic Components	760 (6.3)	120 (1.0)
Low-Solid Stains, Toners, and Washcoats	480 (4.0)	120 (1.0)

Any coating subject to this rule that meets any of the three VOC limit formats (grams per liter, lb/gal, or lbs VOC/lb of solids) is in compliance with this subparagraph.

- (4) The VOC limit for japan coatings is 700 grams per liter of coatings, less water and exempt compounds, as applied.
- (b) A person shall not use a stripper on wood products unless:
- (1) it contains less than 350 grams of VOC per liter of material; or
  - (2) the VOC composite vapor pressure is 2 mm Hg (0.04 psia) or less at 20°C (68°F).

**FACILITY PERMIT TO OPERATE  
 LUNDAY-THAGARD COMPANY**

**APPENDIX B: RULE EMISSION LIMITS  
 [RULE 1171 10-8-1999]**

Except as otherwise provided in Rule 1171, the operator shall not use a solvent to perform solvent cleaning unless the solvent complies with the applicable requirements set forth below:

SOLVENT CLEANING ACTIVITY	Current limits		Effective 12/1/2001	Effective 7/1/2005
	VOC g/l (lb/gal)	VOC Composite Partial Pressure mm Hg @ 20°C (68°F)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application				
(i) General	70 (0.58)		50 (0.42)	25 (0.21)
(ii) Electrical Apparatus Components & Electronic Components	900 (7.5)	33	500 (4.2)	100 (0.83)
(iii) Medical Devices & Pharmaceuticals	900 (7.5)	33	800 (6.7)	800 (6.7)
(B) Repair and Maintenance Cleaning				
(i) General	50 (0.42)		50 (0.42)	25 (0.21)
(ii) Electrical Apparatus Components & Electronic Components	900 (7.5)	20	900 (7.5)	100 (0.83)

**FACILITY PERMIT TO OPERATE  
 LUNDAY-THAGARD COMPANY**

**APPENDIX B: RULE EMISSION LIMITS  
 [RULE 1171 10-8-1999]**

SOLVENT CLEANING ACTIVITY	Current limits		Effective 12/1/2001	Effective 7/1/2005
	VOC g/l (lb/gal)	VOC Composite Partial Pressure mm Hg @ 20°C (68°F)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(iii) Medical Devices & Pharmaceuticals	900 (7.5)	33		
(I) Tools, Equipment, & Machinery			800 (6.7)	800 (6.7)
(II) General Work Surfaces			600 (5.0)	600 (5.0)
(C) Cleaning of Coatings, or Adhesives Application Equipment	950 (7.9)	35	550 (4.6)	25 (0.21)
(D) Cleaning of Ink Application Equipment				
(i) General	100 (0.83)	3	50 (0.42)	25 (0.21)
(ii) Flexographic Printing	100 (0.83)	3	50 (0.42)	25 (0.21)
(iii) Gravure Printing				
(I) Publication	900 (7.5)	25	750 (6.3)	100 (0.83)
(II) Packaging	100 (0.83)	3	50 (0.42)	25 (0.21)
(iv) Lithographic or Letter Press Printing				
(I) Roller Wash – Step 1	900	10	600 (5.0)	100 (0.83)

**FACILITY PERMIT TO OPERATE  
 LUNDAY-THAGARD COMPANY**

**APPENDIX B: RULE EMISSION LIMITS  
 [RULE 1171 10-8-1999]**

SOLVENT CLEANING ACTIVITY	Current limits		Effective 12/1/2001	Effective 7/1/2005
	VOC g/l (lb/gal)	VOC Composite Partial Pressure mm Hg @ 20°C (68°F)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(II) Roller Wash- Step 2, Blanket Wash, & On- Press Components	900	10	800 (6.7)	100 (0.83)
(III) Removable Press Components			50 (0.42)	25 (0.21)
(v) Screen Printing	1070 (8.9)	5	750 (6.3)	100 (0.83)
(vi) Ultraviolet Ink Application Equipment (except screen printing)	800 (6.7)	33	800 (6.7)	100 (0.83)
(vii) Specialty Flexographic Printing	810 (6.8)	21	600 (5.0)	100 (0.83)
(E) Cleaning of Polyester Resin Application Equipment	50 (0.42)		50 (0.42)	25 (0.21)

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### APPENDIX B: RULE EMISSION LIMITS [RULE 1171 6-13-1997]

Except as otherwise provided in Rule 1171, the operator shall not use a solvent to perform solvent cleaning unless the solvent complies with the applicable requirements set forth below:

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS		Effective 1/1/1999	
	VOC g/l (lb/gal)	VOC Composite Partial Pressure mm Hg @ 20°C (68°F)	VOC g/l (lb/gal)	VOC Composite Partial Pressure mm Hg @ 20°C (68°F)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application				
(i) General	70 (0.58)			
(ii) Electronic Components or Medical Devices	900 (7.5)	33		
(B) Repair and Maintenance Cleaning				
(i) General	900 (7.5)	20	50 (0.42)	
(ii) Electrical Apparatus Components	900 (7.5)	20		
(iii) Medical Devices	900 (7.5)	33		
(C) Cleaning of Coatings, or Adhesives Application Equipment	950 (7.9)	35		
(D) Cleaning of Ink Application Equipment				
(i) General	100 (0.83)	3		
(ii) Flexographic or Gravure Printing	100 (0.83)	3		
(iii) Lithographic or Letter Press Printing	900 (7.5)	25		10
(iv) Screen Printing	1070 (8.9)	5		
(v) Ultraviolet Inks (except screen printing)	800 (6.7)	33		
(vi) Specialty Flexographic Printing	810 (6.8)	21		

**FACILITY PERMIT TO OPERATE  
 LUNDAY-THAGARD COMPANY**

**APPENDIX B: RULE EMISSION LIMITS  
 [RULE 1171 6-13-1997]**

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS		Effective 1/1/1999	
	VOC g/l (lb/gal)	VOC Composite Partial Pressure mm Hg @ 20°C (68°F)	VOC g/l (lb/gal)	VOC Composite Partial Pressure mm Hg @ 20°C (68°F)
(E) Cleaning of Polyester Resin Application Equipment	50 (0.42)			
or		1		

## FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY

### APPENDIX B: RULE EMISSION LIMITS [RULE 404 2-7-1986]

The operator shall not discharge into the atmosphere from this equipment, particulate matter in excess of the concentration at standard conditions, shown in Table 404(a).

Where the volume discharged is between figures listed in the Table, the exact concentration permitted to be discharged shall be determined by linear interpolation.

For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

**TABLE 404(a)**

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
		Milligrams per Cubic Meter	Grains per Cubic Foot			Milligrams per Cubic Meter	Grains per Cubic Foot
Cubic meters Per Minute	Cubic feet Per Minute			Cubic meters Per Minute	Cubic feet Per Minute		
25 or less	883 or less	450	0.196	900	31780	118	0.0515
30	1059	420	.183	1000	35310	113	.0493
35	1236	397	.173	1100	38850	109	.0476
40	1413	377	.165	1200	42380	106	.0463
45	1589	361	.158	1300	45910	102	.0445
50	1766	347	.152	1400	49440	100	.0437
60	2119	324	.141	1500	52970	97	.0424
70	2472	306	.134	1750	61800	92	.0402

**FACILITY PERMIT TO OPERATE**  
**LUNDAY-THAGARD COMPANY**

**APPENDIX B: RULE EMISSION LIMITS**  
**[RULE 404 2-7-1986]**

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot	Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot
80	2825	291	.127	2000	70630	87	.0380
90	3178	279	.122	2250	79460	83	.0362
100	3531	267	.117	2500	88290	80	.0349
125	4414	246	.107	3000	105900	75	.0327
150	5297	230	.100	4000	141300	67	.0293
175	6180	217	.0947	5000	176600	62	.0271
200	7063	206	.0900	6000	211900	58	.0253
250	8829	190	.0830	8000	282500	52	.0227
300	10590	177	.0773	10000	353100	48	.0210
350	12360	167	.0730	15000	529700	41	.0179
400	14130	159	.0694	20000	706300	37	.0162
450	15890	152	.0664	25000	882900	34	.0148
500	17660	146	.0637	30000	1059000	32	.0140
600	21190	137	.0598	40000	1413000	28	.0122
700	24720	129	.0563	50000	1766000	26	.0114
800	28250	123	.0537	70000 or more	2472000 or more	23	.0100

## **FACILITY PERMIT TO OPERATE LUNDAY-THAGARD COMPANY**

### **APPENDIX B: RULE EMISSION LIMITS [RULE 461, Phil-Tite Phase I, VST w/o ISD Phase II 3-7-2008]**

#### **GASOLINE TRANSFER AND DISPENSING CONDITIONS**

1. Operation of this equipment shall be in compliance with all data and specifications submitted with the application under which this permit was issued, unless otherwise noted below.
2. This equipment shall be properly maintained and kept in good operating condition at all times.
3. Except for diesel transfers, Phase I vapor recovery systems shall be in full operation whenever fuel is being transferred into storage tanks.
4. Except for diesel transfers, Phase II vapor recovery systems shall be in full operation whenever fuel is being transferred into motor vehicles, as defined in Rule 461.
5. All Phase I and Phase II vapor recovery equipment at this facility shall be installed, operated and maintained to meet all California Air Resources Board certification requirements.
6. The District at its discretion may wish to witness the installation and/or performance testing of the VST Phase II EVR System Not Including ISD system. At least seventy-two (72) hours prior to the installation and performance testing of the VST Phase II EVR System Not Including ISD system, the applicant shall notify the AQMD at telephone number (866) 770-9140.
7. New equipment installations and subsequent service and repairs for any certified component for which this permit was issued, shall only be performed by a current and certified person who has successfully completed the manufacturer's training course and appropriate International Code Council (ICC) certification. Completion of any AQMD training course does not constitute as a substitute for this requirement. Proof of successful completion of any manufacturer training course shall be with the manufacturer.
8. At least seventy-two (72) hours prior to back-filling any underground storage tank or piping, the SCAQMD shall be notified by e-mail at [r461backfill@aqmd.gov](mailto:r461backfill@aqmd.gov) or by facsimile at telephone number (909) 396-3606. Such notification shall include the name of the owner or operator; the name of the contractors; the location of the facility; and the scheduled start and completion dates of the back-filling procedure. The back-filling procedure shall not commence until inspected by a District representative.
9. Depending on the system configuration, a leak rate test of the drop tube/drain valve assembly shall be conducted to quantify the pressure integrity of both the drop tube and drain valve seal or a leak rate test of the drop tube overflow prevention device and drain valve shall be conducted to quantify the pressure integrity of the drop tube overflow prevention device and the

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pressure integrity of the spill container drain valve. Either test shall be conducted as a performance test and as a reverification test. The test shall be conducted in accordance with test procedure method TP-201.1C (October 8, 2003) or TP-201.1D (October 8, 2003), respectively. Results shall be submitted to the AQMD, Office of Engineering and Compliance, within seventy-two (72) hours of test.

10. A leak rate and cracking pressure test of pressure/vacuum relief vent valves shall be conducted within ten days (10) after the start of operation of the Phil-Tite Phase I EVR equipment and at least once every three (3) years thereafter to determine the pressure and vacuum at which the pressure/vacuum vent valve actuates, and to determine the volumetric leak rate at a given pressure. The test shall be conducted in accordance with the test procedure method TP-201.1E (October 8, 2003). Results shall be submitted to the AQMD, Office of Engineering and Compliance, within seventy-two (72) hours of test. This test result shall be kept on site for three (3) years and made available to district representatives upon request.
11. A static torque test of rotatable Phase I adaptors shall be conducted to quantify the amount of static torque required to start the rotation of the rotatable Phase I adaptors. The test shall be conducted in accordance with the test procedure method outlined in TP-201.1B (October 8, 2003) as a performance test and as a reverification test. Results shall be submitted to the AQMD, Office of Engineering and Compliance, within seventy-two (72) hours of test.
12. The Phase II vapor recovery system shall be installed, operated, and maintained such that the maximum allowable pressure through the system including nozzle, vapor hose, swivels, and underground piping does not exceed the dynamic back pressures described by the California Air Resources Board Executive Order by which the system was certified:

Nitrogen flowrates (CFH)	Dynamic back pressure (inches of water)
60	0.35
80	0.62

Dynamic back pressure tests shall be conducted to determine the Phase II system vapor recovery back pressures. The tests shall be conducted in accordance with CARB test procedure TP-201.4, methodology 1 (July 3, 2002); as a performance test and as a reverification test. Results shall be submitted to the AQMD, Office of Engineering and Compliance, within seventy-two (72) hours of tests.

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13. A static pressure leak decay test shall be conducted to demonstrate that the storage tanks, the remote and/or nozzle vapor recovery check valves, associated vapor return piping and fittings are free from vapor leaks. The test shall be conducted in accordance with CARB test procedure method TP-201.3 (March 17, 1999) as a performance test and as a reverification test. Results shall be submitted to the AQMD, Office of Engineering and Compliance, within seventy-two (72) hours of test.
14. The static pressure leak decay test TP-201.3, shall be conducted in accordance with Exhibit 4 of CARB Executive Order VR-203-E. Verification of completing each step as outlined shall be documented by submitting a copy of Exhibit 4 to the AQMD, Office of Engineering and Compliance within seventy-two (72) hours of test.
15. A liquid removal test shall be conducted to quantify the removal rate of liquid from the vapor passage of a Phase II balance system hose equipped with a liquid removal device. The test shall be conducted in accordance with Exhibit 5 of CARB Executive Order VR-203-E, as a performance test and reverification test. Results shall be submitted to the AQMD, Office of Engineering and Compliance within seventy-two (72) hours of test.
16. If a VST ECS membrane processor is installed, a hydrocarbon sensor verification test shall be conducted to determine the accuracy of the VST hydrocarbon non-dispersive infrared sensor using known hydrocarbon concentrations (propane) calibration gases at gasoline dispensing facilities. The test shall be conducted in accordance with Exhibit 6 of CARB Executive Order VR-203-E, as a performance test and reverification test. Results shall be submitted to the AQMD, Office of Engineering and Compliance within seventy-two (72) hours of test.
17. A vapor pressure sensor verification test shall be conducted to determine the pressure management control vapor pressure sensor is operating in accordance with the pressure sensor requirements. The test shall be conducted in accordance with Exhibit 8 of CARB Executive Order VR-203-E, as a performance test and reverification test. Results shall be submitted to the AQMD, Office of Engineering and Compliance within seventy-two (72) hours of test.
18. If a VST ECS membrane processor is installed, a determination of VST processor activation pressure test shall be conducted to determine compliance with the VST processor activation pressure requirement. The test shall be conducted in accordance with Exhibit 9 of CARB Executive Order VR-203-E, as a performance test and reverification test. Results shall be submitted to the AQMD, Office of Engineering and Compliance within seventy-two (72) hours of test.

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19. A nozzle bag test shall be conducted on the VST Phase II EVR nozzles to verify the integrity of the vapor valve. The test shall be conducted on any newly installed or replaced VST Phase II EVR nozzles and in accordance with Exhibit 10 of CARB Executive Order VR-203-E. Results shall be submitted to the AQMD, Office of Engineering and Compliance within seventy-two (72) hours of test.
20. If a Veeder-Root vapor polisher is installed, a Veeder-Root vapor polisher operability test shall be conducted in accordance with all of Exhibit 11 of CARB Executive Order VR-203-E. The test shall be conducted as a performance test and as a reverification test. Results shall be submitted to the AQMD, Office of Engineering and Compliance within seventy-two (72) hours of test.
21. If a Veeder-Root vapor polisher is installed, a Veeder-Root vapor polisher hydrocarbon emissions verification test shall be conducted in accordance with Exhibit 12 of CARB Executive Order VR-203-E to verify the proper performance of the Veeder-Root vapor polisher. The test shall be conducted as a performance test and as a reverification test. Results shall be submitted to the AQMD, Office of Engineering and Compliance within seventy-two (72) hours of test.
22. If the security seal tag on the vapor polisher is broken or missing, the owner/operator shall perform both a Veeder-Root vapor polisher operability test (Exhibit 11), and a Veeder-Root vapor polisher hydrocarbon emissions verification test (Exhibit 12) within seven (7) days of discovery, or when it should be reasonably known that such seal is missing or broken. Within seven (7) days of a report of a missing or broken security seal tag, a new security seal tag shall be applied to the vapor polisher only by a manufacturer representative and only immediately after passing the above required tests. A new security seal tag shall not be placed and the vapor polisher shall be replaced with a new one if the vapor polisher failed any such tests.
23. The dynamic back pressure tests TP-201.4, shall be conducted in accordance with Exhibit 13 of CARB Executive Order VR-203-E. Verification of completing each step as outlined shall be documented by submitting a copy of Exhibit 13 to the AQMD, Office of Engineering and Compliance within seventy-two (72) hours of test.
24. Unless AQMD Rule 461 requires a more frequent testing or inspection schedule, the owner/operator shall be responsible to perform the scheduled daily and annual inspections as outlined in the ARB approved installation, operation, and maintenance manual for the VST Phase II EVR system, as well as all the required vapor recovery system tests as per the current and appropriate ARB executive order.

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25. If the owner/operator plans to permanently cease all gasoline dispensing operations before April 1, 2009, a compliance plan shall be filed declaring to irrevocably surrender their permit to operate.
26. If the vapor processor unit is not accessible for inspection and performing tests purposes from ground level, the owner/operator shall provide safe access, which is on-site and immediately available upon request, to the vapor processor unit. The access shall be constructed in accordance with the General Industry Safety Orders of the State of California or in compliance with standards specified by the Division of Occupational Safety and Health of the California Department of Industrial Relations (i.e. CAL/OSHA).
27. The AQMD shall be notified by e-mail at [r461testing@aqmd.gov](mailto:r461testing@aqmd.gov) or by facsimile at telephone number (909) 396-3606 at least seventy-two (72) hours prior to any of the above mentioned testing requirements. Such notification shall include the name of the owner or operator; the name of the contractor; the location of the facility; and the scheduled start and completion dates of the tests to be performed.
28. The testing for the above mentioned tests shall be conducted in accordance with the most recent Rule 461 amendment or CARB Executive Order requirements, whichever is more stringent.
29. Should the facility dispense more than 600,000 gallons of gasoline per calendar year and if the facility undergoes a major modification as defined by CARB's Advisory Letter Number 336, "Enhanced Vapor Recovery Implementation Update" dated April 15, 2005; the operator shall immediately cease all gasoline dispensing operations and file an application for a new permit to construct/operate to install a CARB certified ISD system. Gasoline dispensing operations shall not resume until the ISD system has been granted a permit to construct/operate and has been fully installed, tested, and operative.
30. Should the facility dispense more than 600,000 gallons of gasoline in any calendar year and if the facility does not undergo a major modification as defined by CARB's Advisory Letter Number 336, "Enhanced Vapor Recovery Implementation Update" dated April 15, 2005; the operator shall file an application for a new permit to construct/operate to install a CARB certified ISD system. The ISD system shall be fully installed, tested, and operative based on the following table:

<u>Gasoline throughput per calendar year</u>	<u>Date</u>
Greater than 1.8 million gallons	September 1, 2009
Between 600,000 and 1.8 million gallons	September 1, 2010

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31. All records and test results that are required to be maintained by Rule 461 shall be kept on site for four years and made available to District representatives upon request.

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#### **GASOLINE TRANSFER AND DISPENSING, UNIVERSAL CONDITIONS**

1. Operation of this equipment shall be in compliance with all data and specifications submitted with the application under which this permit was issued, unless otherwise noted below.
2. This equipment shall be properly maintained and kept in good operating condition at all times.
3. All permit conditions applicable to the equipment described in the previous Permit to Operate shall remain in effect until the new or modified equipment is constructed and operated as described in this new permit. This Permit to Construct/Operate shall become invalid if the modification as described in the equipment description has not been completed within one year from the issue date. If the modification has not been completed within one year from the issue date of the permit, a written request shall be submitted to the AQMD (Attention: Randy Matsuyama) to reinstate the previously inactivated permit to operate. A new application shall be filed if there are plans to continue with the modification. Furthermore, this condition does not allow any time extensions to any modifications required by the California Air Resources Board or AQMD.
4. Except for diesel transfers, Phase I vapor recovery systems shall be in full operation whenever fuel is being transferred into storage tanks.
5. Except for diesel transfers, Phase II vapor recovery systems shall be in full operation whenever fuel is being transferred into motor vehicles, as defined in Rule 461.
6. All Phase I and Phase II vapor recovery equipment at this facility shall be installed, operated and maintained to meet all California Air Resources Board certification requirements.
7. New equipment installations and subsequent service and repairs for any certified component for which this permit was issued, shall only be performed by a current and certified person who has successfully completed the manufacturer's training course and appropriate International Code Council (ICC) certification or CARB equivalent training. Completion of any AQMD training course does not constitute as a substitute for this requirement. Proof of successful completion of any manufacturer training course shall be with the manufacturer.
8. Except for HIRT VCS 400-7 equipment, a static pressure leak decay test shall be conducted to demonstrate that the storage tanks, the remote and/or nozzle vapor recovery check valves, associated vapor return piping and fittings are free from vapor leaks. The test shall be conducted in accordance with CARB Test Procedure Method TP-201.3 (March 17, 1999) as a performance test and as a reverification test. Results shall be submitted to the AQMD, Office of Engineering and Compliance, within seventy-two (72) hours of test.

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9. The AQMD shall be notified by e-mail at [r461testing@aqmd.gov](mailto:r461testing@aqmd.gov) or by facsimile at telephone number (909) 396-3606 at least seventy-two (72) hours prior to testing. Such notification shall include the name of the owner or operator; the name of the contractor; the location of the facility; and the scheduled start and completion dates of the static pressure leak decay test.
10. The testing for the above mentioned tests shall be conducted in accordance with the most recent Rule 461 amendment or CARB Executive Order requirements, whichever is more stringent.
11. All records and test results that are required to be maintained by Rule 461 shall be kept on site and made available to district representatives upon request.