



# South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178  
(909) 396-2000 • www.aqmd.gov

December 12, 2014

Mr. Jay DeMel  
Vice President of Operations  
DeMenno/Kerdoon  
2000 N. Alameda Street  
Compton, CA 90222

SUBJECT: Title V Facility Permit Revision  
REFERENCE: SCAQMD Facility ID: 800037  
Title V/RECLAIM Minor Permit Revision (A/N 568965)

Dear Mr. DeMel:

Attached is a Permit Revision to your Title V Facility Permit. This revision includes the following sections:

- Title Page and Table of Contents – Revision # 42, December 12, 2014
- Section H – Revision #19, December 12, 2014

Included in this minor permit revision is:

	A/N	Equipment	Device ID	Permit Action	Section	Process	System
1	568962	Used Oil Dehydration	D256	• Replace the East Naphtha Pump, P-702A	H	1	1

The proposed minor permit revision was submitted to EPA Region IX for review on October 24, 2014. No comment was received.

Please review the attached sections carefully. Insert the enclosed sections into your Facility Permit and discard the earlier versions. The operation of your facility is bound by the conditions and/or requirements stated in the facility Permit to Operate. If you determine that there are administrative errors in your Facility Permit, please notify Mr. Jonathan Uhl at (909) 396-2725, or [juhl@aqmd.gov](mailto:juhl@aqmd.gov), within 30 days of the receipt of your permit.

Sincerely,

Andrew Lee, P.E.  
Sr. Air Quality Engineering Manager  
Energy/Public Services/Waste Mgmt/Terminals  
Engineering & Compliance

AL:CDT:KKM:jtu

Enclosure: Revised Title V Facility Permit, Section H

cc w/enclosure: Geraldo Rios, EPA Region IX (via email to [R9AirPermits\\_SC@epa.gov](mailto:R9AirPermits_SC@epa.gov))

Compliance  
Title V Central File



## FACILITY PERMIT TO OPERATE

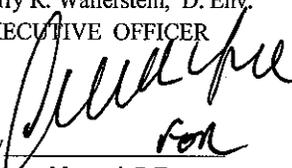
**DEMENNO/KERDOON  
2000 N ALAMEDA ST  
COMPTON, CA 90222**

### 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   
Mousen Nazemi, P.E.  
Deputy Executive Officer  
Engineering & Compliance



**FACILITY PERMIT TO OPERATE  
DEMENNO/KERDOON**

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## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### 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: DISTILLATION</b>					
<b>System 1: USED OIL DEHYDRATION</b>					S15.1
PUMP, P-002A, 1000-SERIES NORTH TRANSFER, 15 HP A/N: 568962 Permit to Construct Issued: 12/05/14	D426				
PUMP, P-002B, 1000-SERIES SOUTH TRANSFER, 15 HP A/N: 568962 Permit to Construct Issued: 12/05/14	D427				
PUMP, P-215, TANK 2003 CIRCULATION, 25 HP A/N: 568962 Permit to Construct Issued: 12/05/14	D428				
PUMP, P-XX2, SWTF TRANSFER, 15 HP A/N: 568962 Permit to Construct Issued: 12/05/14	D429				
PUMP, P-XX3, SWTF TRANSFER, 15 HP A/N: 568962 Permit to Construct Issued: 12/05/14	D430				
PUMP, AP-412, DRAIN, AIR-POWERED A/N: 568962 Permit to Construct Issued: 12/05/14	D431				
PUMP, P-203A/B/C, EAST/MIDDLE/WEST DEHYDRATION CHARGE, 50 HP EACH, 3 TOTAL A/N: 568962 Permit to Construct Issued: 12/05/14	D326				

- \* (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.



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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 1: DISTILLATION</b>					
HEAT EXCHANGER, SHELL AND TUBE TYPE, E-406A/B IN SERIES, NORTH PREHEATER, 2 TOTAL; DIAMETER: 3 FT 4 IN; LENGTH: 14 FT 6 IN A/N: 568962 Permit to Construct Issued: 12/05/14	D132				
HEAT EXCHANGER, SHELL AND TUBE TYPE, E-405A/B, IN SERIES, SOUTH PREHEATER, 2 TOTAL; DIAMETER: 3 FT 4 IN; LENGTH: 14 FT 6 IN A/N: 568962 Permit to Construct Issued: 12/05/14	D133				
TOWER, FLASH, DEHYDRATION VESSEL, C-201, HEIGHT: 22 FT ; DIAMETER: 5 FT A/N: 568962 Permit to Construct Issued: 12/05/14	D125	D266 D267			
PUMP, P-201A/B IN SERIES, EAST/WEST C-201 BOTTOMS, 50 HP EACH, 2 TOTAL A/N: 568962 Permit to Construct Issued: 12/05/14	D237				
HEAT EXCHANGER, SHELL AND TUBE TYPE, E-203, LENGTH: 15 FT 11 IN; DIAMETER: 2 FT 8 IN A/N: 568962 Permit to Construct Issued: 12/05/14	D247				
TOWER, FLASH, DEHYDRATION VESSEL, C-202, HEIGHT: 22 FT ; DIAMETER: 5 FT A/N: 568962 Permit to Construct Issued: 12/05/14	D126	D266 D267			

- \* (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 DEMENNO/KERDOON

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process 1: DISTILLATION</b>					
PUMP, P-202A/B IN SERIES, NORTH/SOUTH C-202 BOTTOMS, 50 HP EACH, 2 TOTAL A/N: 568962 Permit to Construct Issued: 12/05/14	D263				
HEAT EXCHANGER, SHELL AND TUBE TYPE, E-203A,, LENGTH: 15 FT 11 IN; DIAMETER: 2 FT 8 IN A/N: 568962 Permit to Construct Issued: 12/05/14	D265				
HEAT EXCHANGER, SHELL AND TUBE TYPE, E-202,C-202 OVERHEAD COOLER, LENGTH: 14 FT 6 IN; DIAMETER: 3 FT A/N: 568962 Permit to Construct Issued: 12/05/14	D266	D125 D126 D128			
HEAT EXCHANGER, SHELL AND TUBE TYPE, E-201,C-201 OVERHEAD COOLER, LENGTH: 14 FT 6 IN; DIAMETER: 3 FT A/N: 568962 Permit to Construct Issued: 12/05/14	D267	D125 D126 D128			
TOWER, FLASH, VACUUM DEHYDRATION VESSEL, C-203, HEIGHT: 22 FT ; DIAMETER: 5 FT A/N: 568962 Permit to Construct Issued: 12/05/14	D127	D258			
PUMP, P-203A/B, NORTH/SOUTH C-203 BOTTOMS, 15 HP EACH, 2 TOTAL A/N: 568962 Permit to Construct Issued: 12/05/14	D305				

- \* (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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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
<b>Process I: DISTILLATION</b>					
HEAT EXCHANGER, SHELL AND TUBE TYPE, E-206, FUELOIL COOLER, LENGTH: 14 FT 6 IN; DIAMETER: 2 FT 2 IN A/N: 568962 Permit to Construct Issued: 12/05/14	D525				
TOWER, FLASH, VACUUM DEHYDRATION VESSEL, C-206, HEIGHT: 10 FT 6 IN; DIAMETER: 5 FT A/N: 568962 Permit to Construct Issued: 12/05/14	D178	D258			
PUMP, P-206A, EAST C-206 BOTTOMS, 10 HP A/N: 568962 Permit to Construct Issued: 12/05/14	D351				
PUMP, P-206B, WEST C-206 BOTTOMS, 20 HP A/N: 568962 Permit to Construct Issued: 12/05/14	D423				
CONDENSER, BAROMETRIC, LENGTH: 10 FT 11 IN; DIAMETER: 10 IN A/N: 568962 Permit to Construct Issued: 12/05/14	D258	D127 D178 D260 D344			
HEAT EXCHANGER, SHELL AND TUBE TYPE, E-205, BAROMETRIC COOLER, LENGTH: 12 FT 4 IN; DIAMETER: 2 FT 6 IN A/N: 568962 Permit to Construct Issued: 12/05/14	D260	D128 D258			

- \* (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  
 DEMENNO/KERDOON**

**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: DISTILLATION</b>					
ACCUMULATOR, PHASE SEPARATOR, D-204, LENGTH: 20 FT ; DIAMETER: 5 FT A/N: 568962 Permit to Construct Issued: 12/05/14	D128	D9 D31 D121 D176 D177 D260 D266 D267 D361 D373 D380 D383 D385 D394 D395 D417 D559 D560			
PUMP, EAST/WEST BAROMETRIC, P-701A/B, 15 HP EACH, 2 TOTAL A/N: 568962 Permit to Construct Issued: 12/05/14	D255				
PUMP, EAST NAPHTHA, P-702A, 10 HP, SEALLESS A/N: 568962 Permit to Construct Issued: 12/05/14	D256				
PUMP, WEST NAPHTHA, P-702B, 7.5 HP A/N: 568962 Permit to Construct Issued: 12/05/14	D259				
PUMP, EAST/WEST WATER, P-703A/B, 7.5 HP EACH, 2 TOTAL A/N: 568962 Permit to Construct Issued: 12/05/14	D257				
PUMP, AP-205A/B, EAST/WEST SLOP INJECTION, AIR-POWERED A/N: 568962 Permit to Construct Issued: 12/05/14	D508				
PUMP, AP-213, DEHYDRATION CHARGE PUMP DRAIN PUMPS POT, AIR-POWERED A/N: 568962 Permit to Construct Issued: 12/05/14	D509				

- \* (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
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## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### 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: OIL/WATER SEPARATION</b>					
<b>System 2: SLUDGE DEWATERING</b>					S1.2
UNLOADING STATION, TRUCK WASHOUT, LOCATED INSIDE THE TRUCK WASHOUT ENCLOSURE, WITH A 10 HP CONVEYOR, WIDTH: 8 FT ; HEIGHT: 7 FT ; LENGTH: 28 FT A/N: 528472 Permit to Construct Issued: 04/11/12	D52	D322			H23.2
TANK, HOLDING, V-701, WASTE WATER, 500 BBL A/N: 528472 Permit to Construct Issued: 04/11/12	D60	D322			
CENTRIFUGE, DECANTER-TYPE, B&P PROCESS EQUIPMENT, MODEL WID602, 100 HP ELECTRIC MOTOR A/N: 528472 Permit to Construct Issued: 04/11/12	D64	D322			H23.2, K171.1
HOPPER, PORTABLE, UP TO 4 CUBIC YARD CAPACITY EACH, COVERED, 10 TOTAL A/N: 528472 Permit to Construct Issued: 04/11/12	D418				H23.2
BIN, ROLLOFF, UP TO 40 CUBIC YARD CAPACITY EACH, COVERED, 10 TOTAL A/N: 528472 Permit to Construct Issued: 04/11/12	D524				
<b>System 3: STORAGE SILO</b>					

- |  |   |
|--|---|
| * (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 DEMENNO/KERDOON

### 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: OIL/WATER SEPARATION</b>					
STORAGE SILO, 2800 CU FT CAPACITY, FLY ASH, CEMENT KILN DUST, WITH A SEALED 10" DISCHARGE AUGER AND A 10 HP ELECTRIC MOTOR, HEIGHT: 30 FT ; DIAMETER: 10 FT 10 IN WITH A/N: 530589 Permit to Construct Issued: 04/11/12	D557			PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]	Cl.13, D323.1, E184.1, H23.12, K67.18, K171.1
FILTER, VENT, 225 SQ FT TOTAL FILTER AREA, WITH 18 FILTER BAGS, EACH, LENGTH: 6 FT ; DIAMETER: 8 IN	C558				
<b>Process 9: AIR POLLUTION CONTROL</b>					
<b>System 3: VAPOR RECOVERY SYSTEM - PROCESS WASTE GAS</b>					S15.2, S18.2
KNOCK OUT POT, KO-708, HEIGHT: 7 FT ; DIAMETER: 4 FT A/N: 551690 Permit to Construct Issued: 08/20/13	D559	D128			K171.1
KNOCK OUT POT, KO-709, HEIGHT: 7 FT ; DIAMETER: 4 FT A/N: 551690 Permit to Construct Issued: 08/20/13	D560	D128			K171.1
PUMP, KO POT 708/709 DRAIN, P-XXX, 5 HP A/N: 551690 Permit to Construct Issued: 08/20/13	D561				K171.1
KNOCK OUT POT, KO-703, HEIGHT: 7 FT 4 IN; DIAMETER: 1 FT 10 IN A/N: 551690 Permit to Construct Issued: 08/20/13	D295				

- \* (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  
DEMENNO/KERDOON**

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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>					
KNOCK OUT POT, KO-700, HEIGHT: 7 FT 4 IN; DIAMETER: 2 FT A/N: 551690 Permit to Construct Issued: 08/20/13	D294				
PUMP, KO POT 700/703 DRAIN, P-708, 5 HP A/N: 551690 Permit to Construct Issued: 08/20/13	D250				
KNOCK OUT POT, KO-702, HEIGHT: 13 FT ; DIAMETER: 4 FT 2 IN A/N: 551690 Permit to Construct Issued: 08/20/13	D141	C281			
PUMP, KO-702 DRAIN, P-711, 5 HP A/N: 551690 Permit to Construct Issued: 08/20/13	D254				
KNOCK OUT POT, KO-704, HEIGHT: 5 FT 6 IN; DIAMETER: 2 FT 2 IN A/N: 551690 Permit to Construct Issued: 08/20/13	D241	C142			
KNOCK OUT POT, KO-705, HEIGHT: 6 FT 6 IN; DIAMETER: 3 FT A/N: 551690 Permit to Construct Issued: 08/20/13	D226	C142			
<b>System 7: AFTERBURNER</b>					

- \* (1) (1A) (1B) Denotes RECLAIM emission factor
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**FACILITY PERMIT TO OPERATE  
DEMENNO/KERDOON**

**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 DEMENNO/KERDOON

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

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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>					
AFTERBURNER, 23.2 MMBTU/HR (PROCESS GAS AND NAT. GAS), 8.2 MMBTU/HR (NAT. GAS), A/N: 527510 Permit to Construct Issued: 04/11/12	C142	C139 D140 D195 D196 D197 D198 D226 D241 D284 D287 D288 D289 C300 D324 D555	NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409, 8-7-1981]; SO2: 500 PPMV AT 15 MINS. (5) [RULE 407, 4-2-1982]	C1.14, C4.1, C8.5, D12.5, D12.7, D28.1, D29.4, D323.1, E71.2, E71.3, E448.1, E448.3, E448.4, E448.6, H116.4, H116.5, H116.6, I298.1, K171.1
SCRUBBER, PACKED BED, CAUSTIC, ENVITECH, MODEL RT5-12, SINGLE STAGE, WITH MIST ELIMINATOR, MUNTERS, T-125, AND A QUENCH TOWER. WITH A COMMON STACK WITH DEVICE C301, WIDTH: 8 FT 6 IN; HEIGHT: 13 FT ; LENGTH: 16 FT 6 IN A/N: 544927 Permit to Construct Issued: 05/01/13	C300	C142			C8.6, C8.10, D82.1, E448.1, E448.2, K171.1

- \* (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.)
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## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### SECTION H: DEVICE ID INDEX

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D295	7	9	3
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D305	3	1	1
D326	1	1	1
D351	4	1	1



**FACILITY PERMIT TO OPERATE  
DEMENNO/KERDOON**

**SECTION H: DEVICE ID INDEX**

<b>Device Index For Section H</b>			
<b>Device ID</b>	<b>Section H Page No.</b>	<b>Process</b>	<b>System</b>
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D427	1	1	1
D428	1	1	1
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D430	1	1	1
D431	1	1	1
D508	5	1	1
D509	5	1	1
D524	6	5	2
D525	4	1	1
D557	7	5	3
C558	7	5	3
D559	7	9	3
D560	7	9	3
D561	7	9	3



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

### 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
VOC	Less than 2550 LBS IN ANY ONE MONTH

The facility afterburners stacks and facility fugitive components shall comply with the above Volatile Organic Compounds (VOC) emission limit.

To ensure compliance with the monthly Volatile Organic Compounds (VOC) emission limit of this condition, the operator shall comply with the following recordkeeping requirements:

(1) Within 14 calendar days after the end of each month, the operator shall total and record VOC emissions for the month from afterburners and fugitive components.

(2) The operator shall retain the VOC emissions records for at least 5 years.

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

F2.2 The operator shall limit emissions from this facility as follows:

CONTAMINANT	EMISSIONS LIMIT
SOX	Less than 4 TONS IN ANY ONE YEAR



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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

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

The facility afterburners systems shall comply with the above Sulfur Oxides (SOX) emission limit.

To ensure compliance with the Sulfur Oxides (SOX) emission limit of this condition, the operator shall comply with the following monitoring and recordkeeping requirements:

1. Monitor SOX concentrations at the exhaust stack of the afterburner C281/scrubber C301 or the afterburner C142/scrubber C300 using AQMD certified Continuous Emissions Monitoring System (CEMS), OR
2. If afterburner C281/scrubber C301 is out of operation and scrubber C300 is under construction, monitor the sulfur content of the vapor recovery stream and calculate the SOX emissions from the afterburner C142 on a daily basis.
3. Within 14 calendar days after the end of each month, the operator shall total and record SOX emissions for the month and for the calendar year from the two afterburners C281 and C142.
4. The operator shall retain sulfur content and the SOX emissions records for at least 5 years.

#### [RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

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, 11-9-2001]



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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

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

F14.1 The operator shall not use liquid fuel containing sulfur compounds in excess of 500 ppm by weight.

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

F14.2 The operator shall not purchase any diesel fuel, for stationary source application as defined in Rule 431.2, containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

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

Records of the monthly (and quarterly where applicable) inspection, and subsequent repair and reinspection, of VOC fugitive components subject to District Rule 1173

[RULE 1173, 2-6-2009]

F48.2 The operator shall not operate at this facility any combustion devices burning gaseous fuels (except natural gas) unless total sulfur compounds emissions from the facility are less than 5 pounds per day (calculated as H<sub>2</sub>S).

This condition shall no longer apply once this facility has demonstrated to the satisfaction of the District that the operation of all combustion devices at this facility will comply with all applicable requirements of Rule 431.1.

[RULE 431.1, 6-12-1998]

F48.3 The operator shall not operate at this facility any device used to produce gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, or other products through distillation of petroleum or through redistillation, cracking or reforming of unfinished petroleum derivatives.



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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

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

For the purpose of this condition, petroleum shall be defined as the crude oil removed from the earth and the oils derived from tar sands, shale, and coal.

The operator shall submit to the Executive Officer, as a part of an annual compliance certification, a statement that certifies compliance with this condition.

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

F48.4 The operator shall not operate at this facility any device used to treat, store, or dispose of benzene-containing hazardous waste from any chemical manufacturing plant, coke by-product recovery plant, or petroleum refinery.

The operator shall submit to the Executive Officer, as a part of an annual compliance certification, a statement that certifies compliance with this condition.

A copy of each manifest, or the manifest data stored in a manifest database, for benzene-containing hazardous waste received at this facility 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 204, 10-8-1993]

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

40 CFR 60 Subpart A

40 CFR 61 Subpart A

40 CFR 63 Subpart A

[40CFR 60 Subpart A, 5-16-2007; 40CFR 61 Subpart A, 5-16-2007; 40CFR 63 Subpart A, 5-16-2007]

### SYSTEM CONDITIONS



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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

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

- S1.1 The operator shall limit the loading rate to no more than 6,132,000 gallon(s) in any one calendar month.

This limit shall be based on the total combined throughput of Asphalt Flux Loading Rack No. 4 (Process 7, System 7) and Asphalt Flux Loading Rack No. 7 (Process 7, System 8).

The operator shall monitor the throughput of materials loaded, in gallons, by using certified truck scale records to determine the pounds of material loaded, and a measurement of the specific gravity or API gravity of the material loaded.

**[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]**

[Systems subject to this condition : Process 7, System 7, 8]

- S1.2 The operator shall limit the material processed to no more than 4,320,000 gallon(s) in any one calendar month.

For the purpose of this condition, material processed shall be defined as the total amount of sludge or any other hydrocarbon containing material processed in this system before dewatering.

To comply with this condition, the operator shall install and maintain a non-resettable totalizing flow meter to accurately indicate the total volume of volume of sludge processed in this system before dewatering.

The operator shall determine and record the volume of sludge processed once every calendar month.

The operator shall calibrate the flow meter per the manufacturer's specifications.

**[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]**

[Systems subject to this condition : Process 5, System 2]



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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

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

S1.3 The operator shall limit the unloading rate to no more than 1,520,833 gallon(s) in any one calendar month.

The operator shall monitor the throughput of materials unloaded, in gallons, by using certified truck scale records to determine the pounds of material unloaded, and a measurement of the specific gravity or API gravity of the material unloaded.

**[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]**

[Systems subject to this condition : Process 7, System 3]

S1.4 The operator shall limit the unloading rate to no more than 6,387,500 gallon(s) in any one calendar month.

The operator shall monitor the throughput of materials unloaded, in gallons, by using certified truck scale records to determine the pounds of material unloaded, and a measurement of the specific gravity or API gravity of the material unloaded.

**[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]**

[Systems subject to this condition : Process 7, System 1]

S1.5 The operator shall limit the unloading rate to no more than 3,832,500 gallon(s) in any one calendar month.

The operator shall monitor the throughput of materials unloaded, in gallons, by using certified truck scale records to determine the pounds of material unloaded, and a measurement of the specific gravity or API gravity of the material unloaded.

**[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]**

[Systems subject to this condition : Process 7, System 2]

S1.6 The operator shall limit the loading rate to no more than 243,334 gallon(s) in any one calendar month.



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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

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

For the purpose of this condition, the loading rate shall be defined as the loading rate of Naphtha.

The operator shall monitor the throughput of materials loaded, in gallons, by using certified truck scale records to determine the pounds of material loaded, and a measurement of the specific gravity or API gravity of the material loaded.

**[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]**

[Systems subject to this condition : Process 7, System 5]

- S1.7 The operator shall limit the loading rate to no more than 3,193,750 gallon(s) in any one calendar month.

The operator shall monitor the throughput of materials loaded, in gallons, by using certified truck scale records to determine the pounds of material loaded, and a measurement of the specific gravity or API gravity of the material loaded.

**[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]**

[Systems subject to this condition : Process 7, System 4]

- S1.8 The operator shall limit the loading rate to no more than 6,083,333 gallon(s) in any one calendar month.

The operator shall monitor the throughput of materials loaded, in gallons, by using certified truck scale records to determine the pounds of material loaded, and a measurement of the specific gravity or API gravity of the material loaded.

**[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]**

[Systems subject to this condition : Process 7, System 6]

- S1.9 The operator shall limit the loading rate to no more than 100,000 gallon(s) in any one calendar month.



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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

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

For the purpose of this condition, the loading rate shall be defined as the loading rate of RCRA Fuel.

The operator shall monitor the throughput of materials loaded, in gallons, by using certified truck scale records to determine the pounds of material loaded, and a measurement of the specific gravity or API gravity of the material loaded.

**[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]**

[Systems subject to this condition : Process 7, System 9]

- S1.10 The operator shall limit the unloading rate to no more than 100,000 gallon(s) in any one calendar month.

The operator shall monitor the throughput of materials unloaded, in gallons, by using certified truck scale records to determine the pounds of material unloaded, and a measurement of the specific gravity or API gravity of the material unloaded.

**[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]**

[Systems subject to this condition : Process 7, System 9]

- S1.11 The operator shall limit the material processed to no more than 9,060 ton(s) in any one calendar month.

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 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

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

- S1.12 The operator shall limit the throughput to no more than 8,500,000 gallon(s) in any one calendar month.



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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

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

For the purpose of this condition, throughput shall be defined as the volume of wastewater, in gallons, discharged to the LACSD sewer connection (D468).

To comply with this condition, the operator shall install and maintain a non-resettable totalizing flow meter to accurately indicate the total volume of wastewater discharged to the LACSD sewer connection (D468).

The operator shall determine and record the volume of wastewater discharged to the LACSD sewer connection once every calendar month.

The operator shall calibrate the flow meter per the manufacturer's specifications.

**[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]**

[Systems subject to this condition : Process 5, System 1]

- S1.13 The operator shall limit the loading rate to no more than 25,000 gallon(s) in any one calendar month.

The operator shall monitor the throughput of materials loaded, in gallons, by using certified truck scale records to determine the pounds of material loaded, and a measurement of the specific gravity or API gravity of the material loaded.

**[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]**

[Systems subject to this condition : Process 7, System 10]

- S1.14 The operator shall limit the unloading rate to no more than 100,000 gallon(s) in any one calendar month.

The operator shall monitor the throughput of materials unloaded, in gallons, by using certified truck scale records to determine the pounds of material unloaded, and a measurement of the specific gravity or API gravity of the material unloaded.

**[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]**



**FACILITY PERMIT TO OPERATE  
DEMENNO/KERDOON**

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

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

[Systems subject to this condition : Process 7, System 11]

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

Contaminant	Rule	Rule/Subpart
PM	40CFR60, SUBPART	UU
PM	40CFR63, SUBPART	AAAAAAA

**[40CFR 60 Subpart UU, 8-5-1983; 40CFR 63 Subpart AAAAAAA, 12-2-2009]**

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

S13.3 All devices under this system are subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	462

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

[Systems subject to this condition : Process 7, System 5 , 9; Process 9, System 9]

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

All vent gases from any process vent of this system shall be vented to the Vapor Recovery System - Process Waste Gas (Process 9, System 3).

This process/system shall not be operated unless the above vapor recovery 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; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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

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

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

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

All vent gases from this system shall be vented to the Afterburners (Process 9, Systems 7 & 13).

This process/system shall not be operated unless at least one of the afterburners 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; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition : Process 9, System 1, 2, 3, 4, 5, 8, 9, 11, 12; Process 11, System 4]

S15.3 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases under normal operating conditions shall be vented to the Vapor Recovery System - North Tank Farms (Process 9, System 1).

This process/system shall not be operated unless the above vapor recovery 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; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition : Process 6, System 5, 6, 7]

S15.4 The vent gases from all affected devices of this process/system shall be vented as follows:



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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

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

All vent gases under normal operating conditions shall be vented to the Vapor Recovery System - South Tank Farms (Process 9, System 2).

This process/system shall not be operated unless the above vapor recovery 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; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition : Process 6, System 1 , 2]

S15.5 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases under normal operating conditions shall be vented to the Vapor Recovery System - RCRA Fuel & Naphtha Tanks (Process 9, System 5).

This process/system shall not be operated unless the above vapor recovery 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; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition : Process 6, System 4]

S15.6 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases under normal operating conditions shall be vented to the Vapor Recovery System - Wastewater Treatment (Process 9, System 8).

This process/system shall not be operated unless the above vapor recovery 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; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition : Process 5, System 1]



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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

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

S15.7 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases under normal operating conditions shall be vented to the Caustic Scrubber Serving Asphalt Blowing Stills (Process 9, System 4).

This process/system shall not be operated unless the above caustic scrubber 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; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

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

S15.8 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases under normal operating conditions shall be vented to the Vapor Recovery System - Asphalt Flux Loading Rack No. 7 (Process 9, System 11).

This process/system shall not be operated unless the above vapor recovery 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; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Systems subject to this condition : Process 7, System 8 , 10]

S15.9 The vent gases from all affected devices of this process/system shall be vented as follows:

All vent gases under normal operating conditions shall be vented to the Vapor Recovery System - Front Loading Racks (Process 9, System 9).

This process/system shall not be operated unless the above vapor recovery system is in full use and has a valid permit to receive vent gases from this system.



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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

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

**[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 7, System 4 , 5 , 6 , 7 , 9]

- 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:

Asphalt Blowing (Process: 11, System: 1)

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

[Systems subject to this condition : Process 9, System 4]

- S18.2 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:

Used Oil Dehydration (Process: 1, System: 1)

Vacuum Distillation Unit No. 1 (Process: 1, System: 2)

Vacuum Distillation Unit No. 2 (Process: 1, System: 3)

PRM Stripper (Process: 2, System: 1)

Naphtha Splitter Unit (Process: 3, System: 1)

Ethylene Glycol Distillation (Process: 4, System: 1)

Waste Water Treatment (Process: 5, System: 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]**



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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

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

[Systems subject to this condition : Process 9, System 3]

S18.3 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:

Asphalt Flux Loading - Rack No. 7 (Process: 7, System: 8)

Used Glycol Loading (Process: 7, System: 10)

**[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 9, System 11]

S18.4 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:

Fixed Roof Storage Tanks : Southwest Tank Farm (Process: 6, System: 1)

Fixed Roof Storage Tanks - Wastewater Tanks (Process: 6, System: 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 9, System 2]

S18.5 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:

Fixed Roof Storage Tanks : RCRA Fuel & Naphtha Tanks (Process: 6, System: 4)

**[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]**



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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

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

[Systems subject to this condition : Process 9, System 5]

S18.6 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:

Fixed Roof Storage Tanks : Product Tanks (Process: 6, System: 5)

Fixed Roof Storage Tanks : A-Series Tanks (Process: 6, System: 6)

Fixed Roof Storage Tanks : N-Series Tanks (Process: 6, System: 7)

**[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 9, System 1]

S18.7 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:

Wastewater Treatment (Process: 5, System: 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]**

[Systems subject to this condition : Process 9, System 8]

S18.8 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:



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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

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

Fuel Oil Cutter Loading (Process: 7, System: 4)

Naphtha Loading (Process: 7, System: 5)

Marine Diesel Oil Loading (Process: 7, System: 6)

Asphalt Flux Loading - Rack No. 4 (Process: 7, System: 7)

RCRA Fuel Loading and Unloading (Process: 7, System: 9)

[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 9, System 9]

S18.9 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:

Sludge Dewatering (Process: 5, System: 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 9, System 12]

S42.1 The operator shall not use this system for Rule 1149 compliance:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1149

[RULE 1149, 5-2-2008]

[Systems subject to this condition : Process 11, System 3]



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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

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

#### DEVICE CONDITIONS

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

C1.13 The operator shall limit the throughput to no more than 200,000 lb(s) in any one calendar month.

For the purpose of this condition, throughput shall be defined as the total weight of materials transferred to the silo.

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

[Devices subject to this condition : D557]

C1.14 The operator shall limit the operation to no more than 30 day(s) in any one year.

This condition shall no longer apply once the scrubber C300 is constructed and is in full use..

[RULE 204, 10-8-1993]

[Devices subject to this condition : C142]

C4.1 The operator shall limit the residence time to no less than 0.5 seconds.

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

[Devices subject to this condition : C142]

C8.5 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 1400 Deg F.



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

The temperature limit is the average over 15 minutes.

To comply with this condition, the operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature in the combustion chamber and at least 1 second downstream of the burner.

**[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 : C142]

- C8.6 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 400 gpm.

The flow rate limit is the average over 15 minutes.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the recirculating caustic solution.

The flow rate measured shall be the scrubber re-circulation flow rate.

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

The continuous monitoring system shall include visual and audio alarms.

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

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 407, 4-2-1982; RULE 431.1, 6-12-1998]**

[Devices subject to this condition : C300]

- C8.10 The operator shall use this equipment in such a manner that the pH being monitored, as indicated below, is not less than 7.8 of the pH scale.



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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

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

The pH limit is the average over 15 minutes.

To comply with this condition, the operator shall install and maintain a (n) pH meter to accurately indicate the pH of the scrubbing solution.

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

The continuous monitoring system shall include visual and audio alarms.

The operator shall calibrate the instrument used to measure the pH per the manufacturer's specifications.

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 : C300]

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

D12.5 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate being supplied to the combustion chamber.

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

For the purpose of this condition, the flow rate of natural gas supplied to the combustion chamber shall be indicated and recorded

**[RULE 2012, 5-6-2005]**

[Devices subject to this condition : C142]



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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

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

D12.7 The operator shall install and maintain a(n) stack flow monitor to accurately indicate the flow rate from the afterburner stack to provide continuous and cumulative actual flow volume.

When valid exhaust flow rate of an afterburner is not obtained from the stack flow monitor, substituted data for the exhaust flow rate for the afterburner shall be determined by using procedures in the certification letter for the continuous exhaust flow monitor and the missing data procedures applicable to flow as set forth in Rule 2012 Appendix A, Chapter 3, Section K(2).

**[RULE 2012, 5-6-2005]**

[Devices subject to this condition : C142]

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. For the purposes of determining intervals indicated, the cumulative days between testing during which afterburner C142, afterburner C281 or their associated scrubbers are under repair, maintenance, or construction shall not be counted. The operator shall keep sufficient operating records to demonstrate compliance with the testing intervals and dates counted/not counted..

The test shall be conducted to determine the control efficiency of this equipment for destruction of VOCs.

**[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 : C142]

D29.4 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
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**FACILITY PERMIT TO OPERATE  
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**SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE**

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

NOX emissions | Approved District method | District-approved averaging time | Outlet

The test(s) of NOX emissions shall be conducted to establish a NOX concentration limit at the actual stack condition for NOX mass emission calculations pursuant to Rule 2012, Appendix A , Chapter 3, Section (D)(2)(a) (iii).

A source test protocol shall be submitted to the District no later than 30 days from the date of this permit unless otherwise approved in writing by the District. The test protocol shall be approved in writing by the District before the test commences.

The source test(s) shall be conducted no later than 90 days from the date of this permit unless otherwise approved in writing by the District.

A written notice of the source test(s) shall be submitted to the District at least 14 days prior to source testing date so that an observer from the District may be present.

**[RULE 2012, 5-6-2005; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : C142]

D82.1 The operator shall install and maintain a CEMS to measure the following parameters:



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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

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

The CEMS shall be installed and maintained to measure exhaust gas SOX emissions.

The exhaust gas SOX emissions shall be in compliance with the District Rule 431.1 requirements.

The CEMS used for monitoring the exhaust gas SOX emissions shall comply with the District Rule 431.1 Attachment A requirements.

The equipment shall be operated in compliance with the applicable District Rule 431.1 Monitoring, Reporting and Recordkeeping Requirements.

**[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; RULE 431.1, 6-12-1998]**

[Devices subject to this condition : C300]



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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**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 a semi-annual basis, at least, unless the equipment did not operate during the entire semi-annual period. The routine semi-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 3004(a)(4)-Periodic Monitoring, 12-12-1997]



**FACILITY PERMIT TO OPERATE  
DEMENNO/KERDOON**

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

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

[Devices subject to this condition : C142, D557]

**E. Equipment Operation/Construction Requirements**

E71.2 The operator shall only operate this equipment to process waste gas when the natural gas burner is in operation.

[RULE 204, 10-8-1993]

[Devices subject to this condition : C142]

E71.3 The operator shall only operate this equipment for standby once the new afterburner C281 is commenced operation.

[RULE 204, 10-8-1993]

[Devices subject to this condition : C142]

E184.1 The operator shall thoroughly clean the filters in the filter vents immediately after each load of material is received.

[RULE 204, 10-8-1993]

[Devices subject to this condition : D557]

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



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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

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

The operator shall operate only one afterburner (Device Nos. C-142 or C-281) at any one time except during afterburner switchover. Switchover time (including but not limited to emergency, maintenance or testing) shall not exceed 6 hours per day and 12 times per year.

These limits shall not apply during the initial start-up period of the SO<sub>x</sub> scrubbers (Device Nos. C-300 and C-301) not to exceed 168 hours during a 30 day period or for curing of new refractory when no vapors are processed or as otherwise approved by the AQMD.

Switchover period shall be defined as switching from one afterburner to another and back to the original afterburner.

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

[Devices subject to this condition : C142, C300]

#### E448.2 The operator shall comply with the following requirements:

The concentration by volume, at the exhaust stack of the scrubbers (dry basis, zero percent O<sub>2</sub>), of sulfur compounds in ppmv as SO<sub>2</sub> shall not exceed 12 ppmv averaged over 24 hours.

The mass, at the exhaust stack of the scrubbers, of sulfur compounds as SO<sub>2</sub> shall not exceed 6.7 pounds per day.

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

[Devices subject to this condition : C300]

#### E448.3 The operator shall comply with the following requirements:



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

When the afterburner C281 or the scrubber C301 are required to be shut down for maintenance or repairs prior to installation and testing of scrubber C300, afterburner C142 shall only be operated when it is vented to storage tanks and loading/unloading racks vapor recovery. In this case, the valves that control gases from the process lines including knock out pots D226 & D241 shall be closed and locked and no gases from the process lines shall be vented to afterburner C142.

These control valves shall also remain closed and locked until scrubber C300 is operational.

The afterburner C142 shall be operated in accordance with the startup procedures approved by the SCAQMD to prevent the release of Volatile Organic Compounds (VOC) emissions.

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

[Devices subject to this condition : C142]

**E448.4** The operator shall comply with the following requirements:

The afterburner C142 shall be vented to scrubber C300 whenever in operation, except when all of the following criteria are met:

1. The scrubber C300 is still under construction and full operation has not commenced; and
2. The valves controlling venting from the knock out pots D226 & D241 are closed and blinded; and
3. The afterburner C281 or scrubber C301 are not operable; and
4. The AQMD shall be notified within 10 days prior to a scheduled shutdown of afterburner C281 or scrubber C301. If 10 days cannot be provided, the AQMD shall be notified as soon as practicable.

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



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

[Devices subject to this condition : C142]

E448.6 The operator shall comply with the following requirements:

In the event of a natural gas curtailment or shortage, if the facility afterburners temperature cannot be maintained at 1400 deg F, the operator shall take the following steps to ensure compliance with all the SCAQMD Rules and Regulations and Permit Conditions:

- 1) Close all the inlet valves to the afterburners C281 and C142.
- 2) Stop receiving any waste material to the facility.
- 3) Stop shipping any product from the facility.
- 4) Shutdown all the heating sources, i.e., boilers and heaters.
- 5) Shutdown all the process feed and transfer pumps.
- 6) Prepare a report to record all the above activities.

[RULE 480, 10-7-1977]

[Devices subject to this condition : C142]

**H. Applicable Rules**

H23.2 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]



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

[Devices subject to this condition : D52, D64, D418]

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

Contaminant	Rule	Rule/Subpart
Visible Emissions	District Rule	1155

[RULE 1155, 12-4-2009]

[Devices subject to this condition : D557]

H116.4 The operator shall maintain this equipment to achieve a minimum control efficiency of 98 percent for VOCs in order to comply with District rules and regulations whenever any of the equipment it vents is in operation.

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

[Devices subject to this condition : C142]

H116.5 The operator shall , upon completion of construction of a sulfur scrubber and the expiration of the initial start-up period described in Condition E448.1, vent this equipment to a sulfur scrubber that has been issued a permit by the District which is in full operation in order to comply with District Rule 431.1 whenever this equipment is in operation.

[RULE 431.1, 6-12-1998]

[Devices subject to this condition : C142]



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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

H116.6 The operator shall determine the VOC concentration on a monthly basis to demonstrate compliance with the VOC limit at the exhaust of the control equipment in order to comply with offsets requirements whenever the afterburners are in operation. If compliance is demonstrated for three consecutive months, then grab sampling and analysis shall be conducted on a quarterly basis. If the quarterly analysis shows non-compliance, then the grab sampling schedule shall be reverted to monthly basis.

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

[Devices subject to this condition : C142]

#### I. Administrative

I298.1 This equipment shall not be operated unless the facility holds 12571 pounds of NOx RTCs in its allocation account to offset the annual emissions increase for the first year of operation. The RTCs held to satisfy the first year of operation portion of this condition may be transferred only after one year from the initial start of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the start of operation, the facility holds 12571 pounds of NOx RTCs valid during that compliance year. RTCs held to satisfy the compliance year portion of this condition may be transferred only after the compliance year for which the RTCs are held. If the initial or annual hold amount is partially satisfied by holding RTCs that expire midway through the hold period, those RTCs may be transferred upon their respective expiration dates. This hold amount is in addition to any other amount of RTCs required to be held under other condition(s) stated in this permit.

[RULE 2005, 6-3-2011]

[Devices subject to this condition : C142]

#### K. Record Keeping/Reporting

K67.18 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):



## FACILITY PERMIT TO OPERATE DEMENNO/KERDOON

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

All materials stored during each year.

The date(s) any materials are received.

The total weight of materials received.

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 : D557]

K171.1 The operator shall provide to the District the following items:

Final drawings and/or specifications of the equipment installed/constructed/modified, including but not limited to PFD, P&ID and revisions/updates, shall be submitted to the SCAQMD within 60 days after completion of the project.

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

[Devices subject to this condition : D64, C142, C300, D557, D559, D560, D561]



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