

# Bay Area Air Quality Management District

939 Ellis Street  
San Francisco, CA 94109  
(415) 771-6000

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## Proposed

# MAJOR FACILITY REVIEW PERMIT

Issued To:

**Tosco Refining Company, Contra Costa Carbon Plant**  
**Facility #A0022**

**Facility Address:**

2101 Franklin Canyon Road  
Rodeo, CA 94572

**Mailing Address:**

2101 Franklin Canyon Road  
Rodeo, CA 94572

**Responsible Official**

**Willie C. W. Chiang, General Manager**  
(510) 799-4463

**Facility Contact**

Michael J. Sailer  
(510) 799-4463

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**Type of Facility:** Petroleum Coke Calcining Operation

**Primary SIC:** 2999

**Product:** Calcined Petroleum Coke, Electricity

BAAQMD Permit Division Contact:

**Donald Van Buren, PE**

**ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

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Ellen Garvey, Air Pollution Control Officer

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Date

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## **I. STANDARD CONDITIONS**

### **A. Administrative Requirements**

The permit holder shall comply with all applicable requirements in the following regulations:

- BAAQMD Regulation 1 - General Provisions and Definitions  
(as amended by the District Board on 5/2/01);  
SIP Regulation 1 - General Provisions and Definitions  
(as approved by EPA through 8/27/99);  
BAAQMD Regulation 2, Rule 1 - Permits, General Requirements  
(as amended by the District Board on 8/1/01);  
SIP Regulation 2, Rule 1 - Permits, General Requirements  
(as approved by EPA through 2/25/99);  
BAAQMD Regulation 2, Rule 2 - Permits, New Source Review  
(as amended by the District Board on 5/17/00);  
SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration  
(as approved by EPA through 2/25/99);  
BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking  
(as amended by the District Board on 5/17/00);  
SIP Regulation 2, Rule 4 - Permits, Emissions Banking  
(as approved by EPA through 2/25/99); and  
BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review  
(as amended by the District Board on 5/2/01).

### **B. Conditions to Implement Regulation 2, Rule 6, Major Facility Review**

1. This Major Facility Review Permit was issued on \_\_\_\_\_ and expires on **[when issued, enter 5<sup>th</sup> anniversary of issue date]**. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than **[when issued, enter date 6 months prior to permit expiration date]** and no earlier than **[when issued, enter date 12 months prior to expiration date]**. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after [when issued, enter 5<sup>th</sup> anniversary of issue date]**. (Regulation 2-6-307, 404.2, & 409.6; MOP Volume II, Part 3, §4.2)
2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term

## **I. Standard Conditions**

- or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)
4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
  5. The filing of a request by the facility for a permit modification, revocation and re-issuance, or termination, or the filing of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
  6. This permit does not convey any property rights of any sort, or any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
  7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
  8. Any records required to be maintained pursuant to this permit which the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District's Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
  9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B - Public Information, Confidentiality of Business Information. (40 CFR Part 2)
  10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions or the potential to emit for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)
  11. The responsible official shall certify all documents submitted by the facility pursuant to the major facility review permit. The certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. The certifications shall be signed by a responsible official for the facility. (MOP Volume II, Part 3, §4.11)

## **C. Requirement to Pay Fees**

The permit holder shall pay annual fees in accordance with District Regulation 3, including Schedule P. (Regulation 2-6-402 & 409.13, Regulation 3; MOP Volume II, Part 3, §4.12)

## **I. Standard Conditions**

### **D. Inspection and Entry**

Access to Facility: The permit holder shall provide reasonable access to the facility and equipment which is subject to this permit to the APCO and/or to his or her designee. (Regulation 1-440, Regulation 2-6-409.3; MOP Volume II, Part 3, §4.14)

### **E. Records**

1. The permit holder must provide any information, records, and reports requested or specified by the APCO. (Regulation 1-441, Regulation 2-6-409.4)
2. Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of entry. (Regulation 2-6-501, Regulation 3; MOP Volume II, Part 3, §4.7)

### **F. Monitoring Reports**

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The first reporting period for this permit shall be [date of issuance] to [six months later]. The report shall be submitted by [one month after end of reporting period]. Subsequent reports shall be for the following periods: [\_\_\_\_ 1st through \_\_\_\_ 30th or 31st] and [\_\_\_\_ 1st through \_\_\_\_ 30th or 31st], and are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

Director of Compliance and Enforcement  
Bay Area Air Quality Management District  
939 Ellis Street  
San Francisco, CA 94109  
Attn: Title V Reports

(Regulation 2-6-502, Regulation 3; MOP Volume II, Part 3, §4.7)

### **G. Compliance Certification**

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be \_\_\_\_\_ 1st to \_\_\_\_\_ 30th or 31st. The certification shall be submitted by \_\_\_\_\_ 30th or 31st of each year. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The

## **I. Standard Conditions**

certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification should be sent to the Environmental Protection Agency at the following address:

Director of the Air Division  
USEPA, Region IX  
75 Hawthorne Street  
San Francisco, CA 94105  
Attention: Air-3

(MOP Volume II, Part 3, §4.5 and 4.15)

## **H. Emergency Provisions**

1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)
2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. (MOP Volume II, Part 3, §4.8)
3. The granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement. (MOP Volume II, Part 3, §4.8)

## **I. Severability**

In the event that any provision of this permit is invalidated by a court or tribunal of competent jurisdiction, or by the Administrator of the EPA, all remaining portions of the permit shall remain in full force and effect. (Regulation 2-6-409.5; MOP Volume II, Part 3, §4.10)

## **J. Miscellaneous Conditions**

1. The maximum capacity for each source as shown in Table II-A is the maximum allowable capacity. Exceedance of the maximum allowable capacity for any source is a violation of Regulation 2, Rule 1, Section 301. (Regulation 2-1-301)

## II. EQUIPMENT

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity
S-1	K-1 Coke Calcine Kiln/Cooler, Natural gas fired, 60 MMBTU/HR	Traylor kiln with Coen burner	none	30 tons per hour and 262,800 tons per year of calcined petroleum coke; 600 therms per hour and 5.25 million therms per year of natural gas
S-2	K-2 Coke Calcine Kiln/Cooler, Natural gas fired, 62 MMBTU/HR	Traylor kiln with Proceadair Industries burner	none	30 tons per hour and 262,800 tons per year of calcined petroleum coke; 620 therms per hour and 5.00 million therms per year of natural gas
S-5	Nine (9) Coke Storage Bins with two Product Elevators, Two B-9 Feed Screws, and Two Discharge Conveyors	Hunter-Wagner, Hallanger, Butler Design	none	2,250 tons storage capacity and 60 tons per hour and 525,600 tons per year of calcined petroleum coke throughput
S-6	Railcar and Truck Coke Loading Spout with Reclaim Hopper, Reclaim Conveyor, and Loading Conveyor	Collier Carbon design	none	250 tons per hour, 20 minutes per batch and 525,600 tons per year throughput
S-7	Stockpile fugitive emissions; Including All Transfer, Traffic, and Wind Erosion at Green and Calcined Stockpiles	none	none	705,000 tons per year throughput
S-16	Rotary Cooler K1, Including Wet Coke Reclaim	unknown	unknown	30 tons per hour and 262,800 tons per year throughput

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

<b>S-#</b>	<b>Description</b>	<b>Make or Type</b>	<b>Model</b>	<b>Capacity</b>
S-17	Rotary Cooler K2; Including Wet Coke Reclaim	unknown	unknown	30 tons per hour and 262,800 tons per year throughput
S-22	Product Building Crossover Conveyor	unknown	unknown	50 tons per hour and 438,000 tons per year throughput
S-23	Portable Conveyor	Barber Green	374	150 tons per hour and 525,600 tons per year throughput
S-24	Non Retail Gasoline Dispensing Facility, One Nozzle (GDF #6050)	unknown	none	60,000 gallons per year throughput
S-26	K-1 Product Screw Conveyor	Goodman Screw Conveyor	unknown	30 tons per hour and 262,800 tons per year throughput
S-27	K-2 Product Screw Conveyor	Goodman Screw Conveyor	unknown	30 tons per hour and 262,800 tons per year throughput
S-30	Portable Conveyor	Hewitt-Robbins	58/116, Type CJAC	100 tons per hour and 525,600 tons per year throughput
S-31	Portable Conveyor	Lippman Rex	B4300-30	200 tons per hour and 525,600 tons per year throughput

**Table II B – Abatement Devices**

<b>A-#</b>	<b>Description</b>	<b>Source(s) Controlled</b>	<b>Applicable Requirement</b>	<b>Operating Parameters</b>	<b>Limit or Efficiency</b>
A-1	K-1 Pyroscrubber, Detrick 70' by 22' by 35' Refractory Pyroscrubber with flat bottom, Natural gas fired (30 MMBTU/HR)	S-1, S-16, S-26 (S-16 and S-26 are first abated by A-12)	BAAQMD 6-301	None to be directly monitored (A-1 is abated by A-10 and pressure drop across A-10 to be determined)	Ringelmann 1.0 for < 3 minutes/hr
			BAAQMD 6-305	None to be directly monitored (A-1 is abated by A-10 and pressure drop across A-10 to be determined)	limit fallout of visible particles to on-site
			BAAQMD 6-310	None to be directly monitored (A-1 is abated by A-10 and pressure drop across A-10 to be determined)	343 mg per sdcm in exhaust
			BAAQMD 6-310.3	None to be directly monitored (A-1 is abated by A-10 and pressure drop across A-10 to be determined)	343 mg per sdcm in exhaust @ 6% oxygen
			BAAQMD 6-311	None to be directly monitored (A-1 is abated by A-10 and pressure drop across A-10 to be determined)	hourly PM limit based on throughput
A-2	K-2 Pyroscrubber, Detrick 70' by 22' by 35' Refractory Pyroscrubber with flat bottom, Natural gas fired (30 MMBTU/HR)	S-2, S-17, S-27 (S-17 and S-27 are first abated by A-13)	BAAQMD 6-301	None to be directly monitored (A-2 is abated by A-11 and pressure drop across A-11 to be determined)	Ringelmann 1.0 for < 3 minutes/hr

**Table II B – Abatement Devices**

<b>A-#</b>	<b>Description</b>	<b>Source(s) Controlled</b>	<b>Applicable Requirement</b>	<b>Operating Parameters</b>	<b>Limit or Efficiency</b>
A-2	K-2 Pyroscrubber, Detrick 70' by 22' by 35' Refractory Pyroscrubber with flat bottom, Natural gas fired (30 MMBTU/HR)	S-2, S-17, S-27 (S-17 and S-27 are first abated by A-13)	BAAQMD 6-305	None to be directly monitored (A-2 is abated by A-11 and pressure drop across A-11 to be determined)	limit fallout of visible particles to on-site
			BAAQMD 6-310	None to be directly monitored (A-2 is abated by A-11 and pressure drop across A-11 to be determined)	343 mg per sdcm in exhaust
			BAAQMD 6-310.3	None to be directly monitored (A-1 is abated by A-10 and pressure drop across A-10 to be Determined)	343 mg per sdcm in exhaust @ 6% oxygen
			BAAQMD 6-311	None to be directly monitored (A-2 is abated by A-11 and pressure drop across A-11 to be Determined)	hourly PM limit based on throughput
A-3	Car Loading Baghouse, Shaking	S-6	BAAQMD 6-301	Pressure drop to be determined	Ringelmann 1.0 for < 3 minutes/hr
			BAAQMD 6-305	Pressure drop to be determined	limit fallout of visible particles to on-site
			BAAQMD 6-310	Pressure drop to be determined	343 mg per sdcm in exhaust
			BAAQMD 6-311	Pressure drop to be determined	hourly PM limit based on throughput

**Table II B – Abatement Devices**

<b>A-#</b>	<b>Description</b>	<b>Source(s) Controlled</b>	<b>Applicable Requirement</b>	<b>Operating Parameters</b>	<b>Limit or Efficiency</b>
A-4	Calcine Process Baghouse, Pulse Jet	S-5, S-22	BAAQMD 6-301	Pressure drop to be determined	Ringelmann 1.0 for < 3 minutes/hr
			BAAQMD 6-305	Pressure drop to be determined	limit fallout of visible particles to on-site
			BAAQMD 6-310	Pressure drop to be determined	343 mg per sdcm in exhaust
			BAAQMD 6-311	Pressure drop to be determined	hourly PM limit based on throughput
A-10	K-1 Baghouse, Reverse Air, with Natural gas fired heater (10 MMBTU/HR)	S-1, S-16, S-26 (S-1 is first abated by A-1, S-16 and S-26 are first abated by A-12 and then A-1)	BAAQMD 6-301	Pressure drop to be determined	Ringelmann 1.0 for < 3 minutes/hr
			BAAQMD 6-305	Pressure drop to be determined	limit fallout of visible particles to on-site
			BAAQMD 6-310	Pressure drop to be determined	343 mg per sdcm in exhaust
			BAAQMD 6-310.3	Pressure drop to be determined	343 mg per sdcm in exhaust @ 6% oxygen
			BAAQMD 6-311	Pressure drop to be determined	Hourly PM limit based on throughput

**Table II B – Abatement Devices**

<b>A-#</b>	<b>Description</b>	<b>Source(s) Controlled</b>	<b>Applicable Requirement</b>	<b>Operating Parameters</b>	<b>Limit or Efficiency</b>
A-11	K-2 Baghouse, Reverse Air, with Natural gas fired heater (10 MMBTU/HR)	S-2, S-17, S-27 (S-2 is first abated by A-2, S-17 and S-27 are first abated by A-13 and then A-2)	BAAQMD 6-301	Pressure drop to be determined	Ringelmann 1.0 for < 3 minutes/hr
			BAAQMD 6-305	Pressure drop to be determined	limit fallout of visible particles to on-site
			BAAQMD 6-310	Pressure drop to be determined	343 mg per sdcm in exhaust
			BAAQMD 6-310.3	Pressure drop to be determined	343 mg per sdcm in exhaust @ 6% oxygen
			BAAQMD 6-311	Pressure drop to be determined	hourly PM limit based on throughput
A-12	K-1 Multicyclone	S-16, S-26	BAAQMD 6-301	None (A-12 abated by A-1)	Ringelmann 1.0 for < 3 minutes/hr
			BAAQMD 6-305	None (A-12 abated by A-1)	limit fallout of visible particles to on-site
			BAAQMD 6-310	None (A-12 abated by A-1)	343 mg per sdcm in exhaust
			BAAQMD 6-310.3	None (A-12 abated by A-1)	343 mg per sdcm in exhaust @ 6% oxygen

**Table II B – Abatement Devices**

<b>A-#</b>	<b>Description</b>	<b>Source(s) Controlled</b>	<b>Applicable Requirement</b>	<b>Operating Parameters</b>	<b>Limit or Efficiency</b>
A-12	K-1 Multicyclone		BAAQMD 6-311	None (A-12 abated by A-1)	hourly PM limit based on throughput
A-13	K-2 Multicyclone	S-17, S-27	BAAQMD 6-301	None (A-13 abated by A-2)	Ringelmann 1.0 for < 3 minutes/hr
			BAAQMD 6-305	None (A-13 abated by A-2)	limit fallout of visible particles to on-site
			BAAQMD 6-310	None (A-13 abated by A-2)	343 mg per sdcm in exhaust
			BAAQMD 6-310.3	None (A-13 abated by A-2)	343 mg per sdcm in exhaust @ 6% oxygen
			BAAQMD 6-311	None (A-13 abated by A-2)	hourly PM limit based on throughput

### III. GENERALLY APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. These requirements apply in a general manner to the facility and/or to sources exempt from the requirement to obtain a District Permit to Operate. The District has determined that these requirements will not be violated under normal, routine operations, and that no additional periodic monitoring or reporting to demonstrate compliance is warranted. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more sources, the requirement and the source are also included in Section IV, Source-Specific Applicable Requirements, of this permit.

The dates in parenthesis in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full language of SIP requirements is on EPA Region 9’s website. The address is included at the end of this permit.

**NOTE:**

There are differences between the current BAAQMD rule and the version of the rule in the SIP. All sources must comply with both versions of the rule until EPA has reviewed and approved (or disapproved) the District’s revision of the regulation.

**Table III  
 Generally Applicable Requirements**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>
BAAQMD Regulation 1	General Provisions and Definitions (5/1/01)	N
SIP Regulation 1	General Provisions and Definitions (8/27/99)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (8/1/01)	N
BAAQMD 2-1-429	Federal Emissions Statement (6/7/95)	Y
SIP Regulation 2, Rule 1	General Requirements (8/27/99)	Y
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N

### III. Generally Applicable Requirements

**Table III**  
**Generally Applicable Requirements**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	Y
BAAQMD Regulation 5	Open Burning (11/2/94)	N
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds – General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds – Architectural Coatings (12/20/95)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds – Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds – Aerosol Paint Products (3/22/95)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds – Adhesive and Sealant Products (12/20/95)	N
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants – Asbestos Demolition, Renovation and Manufacturing (12/4/91)	Y
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	N
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (9/2/81)	Y

#### IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. The requirements cited in the following tables apply in a specific manner to the indicated source(s).

The dates in parenthesis in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. The full language of SIP requirements is on EPA Region 9's website. The address is included at the end of this permit. All other text may be found in the regulations themselves.

**Table IV - A**  
**Source-specific Applicable Requirements**  
**S-1 K-1 Coke Calcine Kiln/Cooler**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 1</b>	<b>General Provisions and Definitions (5/1/01)</b>		
1-107	Combination of Emissions	Y	
1-510	Area Monitoring	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring: Required by Regulation 10 et al	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-530	Area Monitoring Downtime	Y	
1-540	Area Monitoring Data Examination	Y	
1-542	Area Concentration Excesses	Y	
1-543	Record Maintenance for Two Years	Y	
1-544	Monthly Summary	Y	
1-545	Monitor Maintenance and Calibration	Y	
1-602	Area and Continuous Emission Monitoring Requirements	Y	
1-603	Visible Emissions	Y	

#### IV. Source Specific Applicable Requirements

**Table IV - A**  
**Source-specific Applicable Requirements**  
**S-1 K-1 Coke Calcine Kiln/Cooler**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		
6-301	Ringelmann No.1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Particulate Weight Limitation, Heat Transfer Operation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
<b>BAAQMD Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)</b>		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-310	Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Calcining Kilns		
9-1-310.2	Emission Limitations for Coke Calcining Kilns	Y	
9-1-501	Area Monitoring Requirements	Y	
9-1-601	Sampling and Analysis of Gas Streams	Y	
9-1-603	Averaging Times	Y	
9-1-604	Ground Level Monitoring	Y	
<b>BAAQMD Manual of Procedures, Volume V</b>	<b>Continuous Emission Monitoring Policy and Procedures (1/20/82)</b>	Y	
<b>BAAQMD Condition #136</b>		Y	
Part 1	Access Ports closed during testing. (basis: BAAQMD Regulation 1, Section 104)	Y	
Part 2	Sampling ports and access shall be provided (basis: BAAQMD Regulation 1, Section 501)	Y	
Part 3	CEMs required (basis: BAAQMD Regulation 1, Sections 521 and 522)	Y	

#### IV. Source Specific Applicable Requirements

**Table IV - A**  
**Source-specific Applicable Requirements**  
**S-1 K-1 Coke Calcine Kiln/Cooler**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part 4	CEM standards (basis: BAAQMD Regulation 1, Sections 522, Regulation 9, Rule 1, Section 605)	Y	
Part 5	Record keeping (basis: BAAQMD Regulation 1, Section 441)	Y	
Part 6	Baghouse maintenance requirement (basis: Regulation 6-301)	Y	
Part 7	Operating requirement (basis: Regulation 6-301)	Y	
Part 8	Pressure drop monitoring (basis: cumulative increase)	Y	
Part 9	Pressure drop limits (basis: cumulative increase)	Y	
Part 10a	Visible emissions monitoring requirement (basis: Regulations 6-301, and 2-6-501)	Y	
Part 10b	Annual source test requirement (basis: 2-6-501)	Y	
Part 11	Baghouse inspection (basis: Regulation 2-6-501)	Y	
Part 12	Limits on natural gas usage and calcined coke produced (basis: Regulation 2-1-234.3)	Y	
Part 13	Record keeping (basis: Regulation 1-441)	Y	
Part 14	Make available hourly and daily records upon request (basis: Regulation 1-441)	Y	

**Table IV - B**  
**Source-specific Applicable Requirements**  
**S-2 K-2 Coke Calcine Kiln/Cooler**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 1</b>	<b>General Provisions and Definitions (5/2/01)</b>		
1-107	Combination of Emissions	Y	
1-510	Area Monitoring	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring: Required by Regulation 10 et al	Y	
1-521	Monitoring May Be Required	Y	

## IV. Source Specific Applicable Requirements

**Table IV - B**  
**Source-specific Applicable Requirements**  
**S-2 K-2 Coke Calcine Kiln/Cooler**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-530	Area Monitoring Downtime	Y	
1-540	Area Monitoring Data Examination	Y	
1-542	Area Concentration Excesses	Y	
1-543	Record Maintenance for Two Years	Y	
1-544	Monthly Summary	Y	
1-545	Monitor Maintenance and Calibration	Y	
1-602	Area and Continuous Emission Monitoring Requirements	Y	
1-603	Visible Emissions	Y	
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		
6-301	Ringelmann No.1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation, Heat Transfer Operation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
<b>BAAQMD Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)</b>		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-310	Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Calcining Kilns		
9-1-310.2	Emission Limitations for Coke Calcining Kilns	Y	
9-1-501	Area Monitoring Requirements	Y	
9-1-601	Sampling and Analysis of Gas Streams	Y	
9-1-603	Averaging Times	Y	
9-1-604	Ground Level Monitoring	Y	
<b>BAAQMD Manual of Procedures, Volume V</b>	<b>Continuous Emission Monitoring Policy and Procedures (1/20/82)</b>	Y	

## IV. Source Specific Applicable Requirements

**Table IV - B**  
**Source-specific Applicable Requirements**  
**S-2 K-2 Coke Calcine Kiln/Cooler**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Condition #136</b>		Y	
Part 1	Access Ports closed during testing. (basis: BAAQMD Regulation 1, Section 104)	Y	
Part 2	Sampling ports and access shall be provided (basis: BAAQMD Regulation 1, Section 501)	Y	
Part 3	CEMs required (basis: BAAQMD Regulation 1, Sections 521 and 522)	Y	
Part 4	CEM standards (basis: BAAQMD Regulation 1, Sections 522)	Y	
Part 5	Record keeping (basis: BAAQMD Regulation 1, Section 441)	Y	
Part 6	Baghouse maintenance requirement (basis: Regulation 6-301)	Y	
Part 7	Operating requirement (basis: Regulation 6-301)	Y	
Part 8	Pressure drop monitoring (basis: cumulative increase)	Y	
Part 9	Pressure drop Limits (basis: cumulative increase)	Y	
Part 10a	Visible emissions monitoring requirement (basis: Regulations 6-301, and 2-6-501)	Y	
Part 10b	Annual source test requirement (basis: 2-6-501)	Y	
Part 11	Baghouse inspection (basis: 2-6-501)	Y	
Part 12	Limits on natural gas usage and calcined coke produced (basis: Regulation 2-1-234.3)	Y	
Part 13	Record keeping (basis: Regulation 1-441)	Y	
Part 14	Make available hourly and daily records upon request (basis: Regulation 1-441)	Y	
<b>BAAQMD Condition #3752</b>			
Part 1	Natural gas firing only (basis: cumulative increase)	Y	
Part 2	Annual fuel usage limitation (basis: cumulative increase)	Y	
Part 3	Record keeping (basis: BAAQMD Regulation 1, Section 441 and cumulative increase)	Y	

## IV. Source Specific Applicable Requirements

**Table IV - C**  
**Source-specific Applicable Requirements**  
**S-5 Nine (9) Coke Storage Bins with two Product Elevators, Two B-9 Feed Screws,**  
**and Two Discharge Conveyors**  
**S-22 Product Building Crossover Conveyor**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
<b>BAAQMD Condition #10438</b>		Y	
Part 1	Operational requirements (basis: cumulative increase)	Y	
Part 2	Baghouse A-4 availability requirements (basis: cumulative increase)	Y	
Part 3	Maintenance record keeping (basis: BAAQMD Regulation 1, Section 441 and cumulative increase)	Y	
Part 4	Pressure drop monitoring (basis: cumulative increase)	Y	
Part 5	Pressure drop Limits (basis: cumulative increase)	Y	
Part 6	Visible emissions monitoring requirement (basis: Regulations 6-301, and 2-6-501)	Y	
Part 7	Baghouse inspection (basis: 2-6-501)	Y	
Part 8	Calcined coke throughput limits (basis: Regulation 2-1-234.3)	Y	
Part 9	Record keeping (basis: Regulation 1-441)	Y	
Part 10	Make available hourly and daily records upon request (basis: Regulation 1-441)	Y	
<b>BAAQMD Condition #10439</b>		Y	
Part 1	Operational requirements (basis: cumulative increase)	Y	
Part 2	Baghouse A-4 availability requirements (basis: cumulative increase)	Y	

#### IV. Source Specific Applicable Requirements

**Table IV - C**  
**Source-specific Applicable Requirements**  
**S-5 Nine (9) Coke Storage Bins with two Product Elevators, Two B-9 Feed Screws,**  
**and Two Discharge Conveyors**  
**S-22 Product Building Crossover Conveyor**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3	Maintenance record keeping (basis: BAAQMD Regulation 1, Section 441 and cumulative increase)	Y	
Part 4	Pressure drop monitoring (basis: cumulative increase)	Y	
Part 5	Pressure drop Limits (basis: cumulative increase)	Y	
Part 6	Visible emissions monitoring requirement (basis: Regulations 6-301, and 2-6-501)	Y	
Part 7	Baghouse inspection (basis: 2-6-501)	Y	
Part 8	Petroleum coke throughput limits (basis: Regulation 2-1-234.3)	Y	
Part 9	Record keeping (basis: Regulation 1-441)	Y	
Part 10	Make available hourly and daily records upon request (basis: Regulation 1-441)	Y	

**Table IV - D**  
**Source-specific Applicable Requirements**  
**S-6 Railcar and Truck Coke Loading Spout with Reclaim Hopper, Reclaim Conveyor,**  
**and Loading Conveyor**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
<b>BAAQMD</b>			

#### IV. Source Specific Applicable Requirements

**Table IV - D**  
**Source-specific Applicable Requirements**  
**S-6 Railcar and Truck Coke Loading Spout with Reclaim Hopper, Reclaim Conveyor,**  
**and Loading Conveyor**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>Condition #17539</b>			
Part 1	A-3 Baghouse maintenance requirement (basis: Regulation 6-301)	Y	
Part 2	Abatement requirement (basis: Regulation 6-301)	Y	
Part 3	Pressure drop monitoring (basis: cumulative increase)	Y	
Part 4	Pressure drop limits (basis: cumulative increase)	Y	
Part 5	Visible emissions monitoring requirement (basis: Regulations 6-301, and 2-6-501)	Y	
Part 6	Baghouse inspection (basis: 2-6-501)	Y	
Part 7	Petroleum coke throughput limits (basis: Regulation 2-1-234.3)	Y	
Part 8	Record keeping (basis: Regulation 1-441)	Y	
Part 9	Make available hourly and daily records upon request (basis: Regulation 1-441)	Y	

## IV. Source Specific Applicable Requirements

**Table IV - E**  
**Source-specific Applicable Requirements**  
**S-7 Stockpile fugitive emissions; Including All Transfer, Traffic, and Wind Erosion at**  
**Green and Calcined Stockpiles**  
**S-23, S-30, S31, Portable Conveyors**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-401	Appearance of Emissions	Y	
<b>BAAQMD Condition #17540</b>			
Part 1	Visible emissions monitoring requirement (basis: Regulations 6-301, and 2-6-501)	Y	
Part 2	Petroleum coke throughput limits (basis: Regulation 2-1-234.3)	Y	
Part 3	Record keeping (basis: Regulation 1-441)	Y	
Part 4	Make available hourly and daily records upon request (basis: Regulation 1-441)	Y	

**Table IV - F**  
**Source-specific Applicable Requirements**  
**S-16 Rotary Cooler K1, Including Wet Coke Reclaim, and**  
**S-26 K-1 Product Screw Conveyor**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	

#### IV. Source Specific Applicable Requirements

**Table IV - F**  
**Source-specific Applicable Requirements**  
**S-16 Rotary Cooler K1, Including Wet Coke Reclaim, and**  
**S-26 K-1 Product Screw Conveyor**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
<b>BAAQMD Condition #10438</b>			
Part 1	Abatement requirement (Basis: Cumulative Increase)	Y	
Part 2	Abatement requirement with limited exemption: (Basis: Cumulative Increase)	Y	
Part 3	Record keeping (Basis: Regulation 1, Section 441)	Y	
Part 4	Pressure drop monitoring (basis: cumulative increase)	Y	
Part 5	Pressure drop limits (basis: cumulative increase)	Y	
Part 6	Visible emissions monitoring requirement (basis: Regulations 6-301, and 2-6-501)	Y	
Part 7	Baghouse inspection (basis: Regulation 2-6-501)	Y	
Part 8	Petroleum coke throughput limits (basis: Regulation 2-1-234.3)	Y	
Part 9	Record keeping (basis: Regulation 1-441)	Y	
Part 10	Make available hourly and daily records upon request (basis: Regulation 1-441)	Y	

**Table IV - G**  
**Source-specific Applicable Requirements**  
**S-17 Rotary Cooler K2, Including Wet Coke Reclaim, and**  
**S-27 K-2 Product Screw Conveyor**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		

#### IV. Source Specific Applicable Requirements

**Table IV - G**  
**Source-specific Applicable Requirements**  
**S-17 Rotary Cooler K2, Including Wet Coke Reclaim, and**  
**S-27 K-2 Product Screw Conveyor**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
<b>BAAQMD Condition #10439</b>			
Part 1	Abatement requirement (Basis: Cumulative Increase)	Y	
Part 2	Abatement requirement with limited exemption: (Basis: Cumulative Increase)	Y	
Part 3	Record keeping (Basis: Regulation 1, Section 441)	Y	
Part 4	Pressure drop monitoring (basis: cumulative increase)	Y	
Part 5	Pressure drop limits (basis: cumulative increase)	Y	
Part 6	Visible emissions monitoring requirement (basis: Regulations 6-301, and 2-6-501)	Y	
Part 7	Baghouse inspection (basis: 2-6-501)	Y	
Part 8	Petroleum coke throughput limits (basis: Regulation 2-1-234.3)	Y	
Part 9	Record keeping (basis: Regulation 1-441)	Y	
Part 10	Make available hourly and daily records upon request (basis: Regulation 1-441)	Y	

**Table IV - H**  
**Source-specific Applicable Requirements**  
**S-24 Non Retail Gasoline Dispensing Facility (GDF #6050)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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## IV. Source Specific Applicable Requirements

**Table IV - H**  
**Source-specific Applicable Requirements**  
**S-24 Non Retail Gasoline Dispensing Facility (GDF #6050)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 8, Rule 7</b>	<b>Organic Compounds - Gasoline Dispensing Facilities (11/17/99)</b>		
8-7-112.7	Phase II Exemption - Older Facilities with Low Annual Throughput	Y	
8-7-113	Tank Gauging and Inspection Exemption	Y	
8-7-114	Stationary Tank Testing Exemption	N	
8-7-301	Phase I Requirements	N	
8-7-301.1	Requirement for CARB Phase I System	N	
8-7-301.2	Installation of Phase I Equipment per CARB Requirements	N	
8-7-301.3	Submerged Fill Pipes	Y	
8-7-301.5	Maintenance of Phase I Equipment per Manufacturers Guidelines	Y	
8-7-301.6	Leak-Free, Vapor-Tight	N	
8-7-301.7	Poppeted Drybreaks	N	
8-7-301.8	No Coaxial Phase I	N	
8-7-301.9	CARB-Certified Anti-Rotational Coupler or Swivel Adapter	N	
8-7-301.10	System Vapor Recovery Rate	N	
8-7-301.11	CARB-Certified Spill Box	N	
8-7-301.12	Drain Valve Permanently Plugged	N	
8-7-303	Topping Off	N	
8-7-304	Certification Requirements	N	
8-7-308	Operating Practices	N	
8-7-316	Pressure Vacuum Valve Requirements, Aboveground Storage Tanks	N	
8-7-401	Equipment Installation and Modification	N	
8-7-406	Testing Requirements, New and Modified Installations	N	
8-7-501	Burden of Proof	N	
8-7-502	Right of Access	Y	
8-7-503	Record Keeping Requirements	N	
<b>SIP Regulation</b>	<b>Organic Compounds - Gasoline Dispensing Facilities (6/1/94)</b>		

## IV. Source Specific Applicable Requirements

**Table IV - H**  
**Source-specific Applicable Requirements**  
**S-24 Non Retail Gasoline Dispensing Facility (GDF #6050)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>8, Rule 7</b>			
8-7-301	Phase I Requirements	Y	
8-7-301.1	Requirement for CARB Phase I System	Y	
8-7-301.2	Installation of Phase I Equipment per CARB Requirements	Y	
8-7-301.3	Submerged Fill Pipes	Y	
8-7-301.4	Pressure Vacuum Relief Valve Requirement	Y	
8-7-301.5	Maintenance of Phase I Equipment per Manufacturers Guidelines	Y	
8-7-301.6	Leak-Free, Vapor-Tight	Y	
8-7-301.7	Poppeted Drybreaks	Y	
8-7-303	Topping Off	Y	
8-7-304	Certification Requirements	Y	
8-7-308	Operating Practices	Y	
8-7-312	Removal of Gasoline	Y	
8-7-401	Equipment Installation and Modification	Y	
8-7-501	Burden of Proof	Y	
8-7-502	Right of Access	Y	
<b>BAAQMD Condition #701</b>	Operate per CARB Executive Order G-70-52-AM (basis: Regulation 8-7-301)	Y	
<b>BAAQMD Condition #8749</b>			
Part 1	Annual throughput limitation (basis: Regulation 8, Rule 7, Section 112.7)	Y	
Part 2	Recordkeeping (basis: Regulation 1-441, Cumulative increase)	Y	
<b>BAAQMD Condition #17571</b>			
Part 1	Perform leak test annually (basis: Regulation 8, Rule 7, Section 301.6)	Y	
Part 2	Perform initial leak test (basis: Regulation 8, Rule 7, Section	Y	

#### IV. Source Specific Applicable Requirements

**Table IV - H**  
**Source-specific Applicable Requirements**  
**S-24 Non Retail Gasoline Dispensing Facility (GDF #6050)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
	301.6)		
Part 3	Submit test results (basis: Regulation 1-441)	Y	

## **V. SCHEDULE OF COMPLIANCE**

The permit holder shall comply with all applicable requirements cited in this permit. The permit holder shall also comply with applicable requirements that become effective during the term of this permit on a timely basis.

## VI. PERMIT CONDITIONS

Any condition that is preceded by an asterisk is not federally enforceable.

### Condition #136

For: **S-1 K-1 Coke Calcine Kiln/Cooler**  
**S-2 K-2 Coke Calcine Kiln/Cooler**

1. All pyroscrubber access ports shall be closed during source tests to determine compliance with District regulations and/or permit conditions. (Basis: Reg 1-401)
2. APCO approved sampling ports and access platforms shall be provided downstream of each baghouse. (Basis: Reg 1-501)
3. ~~Without regard for any margin of error, green coke feed sulfur content shall not exceed 1.00% by weight.~~
  - a. ~~For a six month period after either calciner kiln discharges any portion of its exhaust gases through the cogeneration equipment, sulfur content of the green coke feed is to be determined daily, with analysis of the individual samples available for review on a monthly basis. Union Chemical will also composite the daily samples and analyze on a weekly basis. The results shall be available for inspection by the APCO upon request.~~
  - b. ~~Subsequent to the initial six month period detailed above, the APCO may review and compare the daily sample analyses with the weekly composite sample analyses. If the comparison indicates a strong correlation between the daily and weekly data, the APCO may, authorize Union Chemical to analyze only the weekly composite samples. The APCO may upon good cause, require Union Chemical to conduct daily analysis of samples. Daily samples will be retained for sixty (60) days and will be available for analysis by the APCO upon request.~~
  - c. ~~In the event the sulfur content of any sample of the green coke feed exceeds 1.00% sulfur, absolute, Union Chemical will notify the APCO immediately, and conduct three (3) replicate source tests in accordance with the District's Manual of Procedures at a mutually agreeable time. The above source tests will be conducted by a mutually agreeable third party laboratory or by the District, using similar feedtypes, feed sulfur content and coke kiln operating conditions as were experienced during the time when the green coke feed exceeded 1.00% sulfur.~~

## VI. Permit Conditions

### Condition #136

For: **S-1 K-1 Coke Calcine Kiln/Cooler**  
**S-2 K-2 Coke Calcine Kiln/Cooler**

- d. ~~If the average of the three replicate source tests, conducted in accordance with the BAAQMD Manual of Procedures Volume IV ST-19A, indicates that either the mass emission limitation (113 kg/hr absolute) or concentration limit (400 ppm by volume absolute) was exceeded, Union Chemical shall install an instack monitoring system approved by the APCO on an expedited basis.~~
- e. ~~Installation of instack monitoring will delete the 1.00% sulfur content limitation contained in this Condition 2. Green coke samples shall be collected in accordance with mutually agreeable methods determined by the APCO and the permittee.~~
- f. ~~This sulfur content in coke condition does not excuse the applicant from meeting the requirements of Regulation 9, Rule 1.~~
3. The permit holder shall operate and maintain a continuous emission monitoring system to quantify:
- the concentration of sulfur dioxide inside each kiln's exhaust stack and
  - the mass emission rate of sulfur dioxide from each exhaust stack into the atmosphere.
- (Basis: Reg 1-521 and 522)
4. The continuous emission monitoring system shall meet the requirements of the Manual of Procedures, Volume V, Continuous Emission Monitoring Policy and Procedures (Basis: Reg 1-522)
4. ~~An APCO approved sulfur dioxide ground level monitor shall be installed at an APCO approved location. In the event that no excesses of the limits set forth in District Regulation Section 9-1-110.2 are recorded on this instrument and attributed to this facility for two years after the initial date of operation of the monitor, its use may be discontinued. One of the facility's three existing monitors may be relocated to meet the requirements of this condition. If this is done, however, the monitor may be required to be returned to its original location and placed back in operation if its use is discontinued at the new location as described above. The ground level monitor shall be subject to all applicable sections of Regulation 1 Manual of Procedures Volume VI.~~

## **VI. Permit Conditions**

### **Condition #136**

For: **S-1 K-1 Coke Calcine Kiln/Cooler**  
**S-2 K-2 Coke Calcine Kiln/Cooler**

5. In order to demonstrate compliance with the above conditions, the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of 5 years from the date on which a record is made:
  - a. the concentration of sulfur dioxide inside each kiln's exhaust stack, as prescribed in Condition No. 3.
  - b. the mass emission rate of sulfur dioxide from each exhaust stack into the atmosphere, as prescribed in Condition No. 3.
  - c. Amount of natural gas burned on a monthly basis (therms/month).
  - d. Continuous emission monitoring measurements for sulfur dioxide.
  - e. Date, time, and duration of any startup, shutdown, or malfunction of any kiln, emission control equipment, or emission monitoring equipment.
  - f. Results of performance testing, evaluations, calibrations, checks, adjustments, and maintenance of any CEMs.
  - g. Hourly sulfur dioxide concentration and emission rate
  - h. Flow rate of combustion products  
(basis: Reg 1-441)
6. The permit holder shall keep the Baghouses, A-10 and A-11 in good operating condition.  
(basis: Regulation 6-301)
7. All particulate matter emissions from S-1 and S-2 shall be routed to the baghouses A-10 and A-11, respectively. (basis: Regulation 6-301, 6-310, 6-311)
8. Within 3 months of final issuance of the Major Facility Review permit, the permit holder shall install a District approved manometer or other District approved device which measures the pressure drop across each baghouse. Within 6 months of final issuance of the Major Facility Review permit, the permit holder shall determine the proper pressure drop range for each baghouse. These ranges shall be submitted to the Permits Division of the District for inclusion in the permit as an administrative permit amendment. (basis: cumulative increase)

## **VI. Permit Conditions**

### **Condition #136**

For: **S-1 K-1 Coke Calcine Kiln/Cooler**  
**S-2 K-2 Coke Calcine Kiln/Cooler**

9. After installation of the manometer or devices, pressure drop across the baghouses shall be monitored at all times that the above sources are operated and recorded once a week to ascertain that the pressure drops are in the normal operating range, and the baghouses are in good operating condition. The records shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 2-6-501)
  
10. a. Visible particulate emissions from S-1 and S-2 shall be monitored quarterly using either the District method (Manual of Procedures, Volume I, Evaluation of Visible Emissions) or EPA Method 9, and shall be retained on site for a minimum period of five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 6-301, Regulation 2-6-501)  
  
b. The owner/operator of S1 and S2 shall conduct an annual District-approved source test at each furnace in order to demonstrate compliance with Regulation 6-310, 6-310.3 and 6-311. The results of these tests shall be kept on site for at least five years from the date of the test and be made available to District staff upon request. (basis: Regulation 2-6-501)
  
11. Each baghouse shall be inspected on an annual basis to ensure proper operation. Records of each annual inspection shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 2-6-501)
  
12. Natural gas usage and calcined petroleum coke produced shall not exceed the following in any consecutive 12-month period:
  - a. For S-1:
    - Natural gas usage at the S-1 burner: 5.25 million therms
    - Natural gas usage at the A-1 burner: 2.6 million therms
    - Calcined petroleum coke produced: 262,800 tons
  
  - b. For S-2:
    - Natural gas usage at the S1 burner: 5.00 million therms
    - Natural gas usage at the A1 burner: 2.6 million therms

## **VI. Permit Conditions**

Calcined petroleum coke produced: 262,800 tons  
(basis: Regulation 2-1-234.3)

### **Condition #136**

For: **S-1 K-1 Coke Calcine Kiln/Cooler**  
**S-2 K-2 Coke Calcine Kiln/Cooler**

13. The permit holder shall maintain the following records for each limit listed in part 12:

- a. Monthly natural gas usage per burner and per source
  - b. Monthly calcined petroleum coke produced per source
  - c. Total natural gas usage per burner and per source for the preceding 12 months
  - d. Total calcined petroleum coke produced per source for the preceding 12 months
- (basis: Regulation 1-441)

14. The permit holder shall make available to the APCO, upon request, any records relating to hourly or daily fuel usage or coke throughput.  
(basis: Regulation 1-441)

### **Condition #701**

For: **S-24 Non Retail Gasoline Dispensing Facility (GDF #6050)**

All vapor recovery system components shall be operated in accordance with CARB Executive Order G-70-52-AM. (Basis: CARB Executive Order G-70-52-AM)

### **Condition #3752**

For: **S-2 K-2 Coke Calcine Kiln/Cooler**

~~1. All previous permit conditions assigned to source S-2 shall remain applicable, unless specifically modified by any conditions listed below.~~

1. The burner installed at the calcined-coke discharge end of the inclined rotary kiln shall be fired on natural gas exclusively. (Basis: Cumulative Increase)

~~2. Coke Calcine Kiln Burner S-2 shall be fired on natural gas exclusively, except in the event of natural gas curtailment when diesel fuel may be used.~~

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~~3. The owner/operator of S-2 shall report all incidents of natural gas curtailment and/or diesel fuel firing to the District in writing within 30 days of the incident.~~

### **Condition #3752**

**For: S-2 K-2 Coke Calcine Kiln/Cooler**

24. Total annual fuel natural gas firing at S-2 shall not exceed 5 million therms (1 therm = 100,000 Btu). (Basis: Cumulative Increase)

3. In order to demonstrate compliance with the above conditions, the permit holder shall keep records of the fuel gas usage on at least an annual basis in a District approved log. These records shall be kept on site and made available for District inspection for a period of 5 years from the date on which a record is made:

(Basis: Reg 1-441, Cumulative Increase)

~~5. The owner/operator of S-2 shall maintain appropriate records to confirm compliance with all permit conditions. These records shall be made available to District personnel upon request and shall be kept on file for a minimum of 2 years.~~

### **Condition #8749**

**For: S-24 Non Retail Gasoline Dispensing Facility (GDF #6050)**

1. Pursuant to Regulation 8-7-112.7, this facility is exempt from Phase II vapor recovery equipment because the tank was installed prior to July 1, 1983 and the annual throughput is less than 60,000 gallons. Throughput shall not exceed 60,000 gallons per year. (Basis: Reg 8-7-112.7)

2. In order to demonstrate compliance with the above conditions and with Regulation 8-7-503, the following records shall be maintained in a District approved log. These records shall be kept on site and make available for District inspection for a period of 5 years from the date on which a record is made:

a. Amount of gasoline received per delivery

b. Total amount of gasoline received per calendar year.

c. Total amount of gasoline dispensed per month.

d. Maintenance records detailing the nature and date of each maintenance activity

(Basis: Reg 1-441, Reg 8-7-503, Cumulative Increase)

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### Condition #10438

For: **S-5 Nine (9) Coke Storage Bins with two Product Elevators, Two B-9 Feed Screws, and Two Discharge Conveyors, S-16 Rotary Cooler K1, Including Wet Coke Reclaim, S-22 Product Building Crossover Conveyor, and S-26 K-1 Product Screw Conveyor**

1.) The pyroscrubber A-1, and the K-1 cooler exhauster blower shall operate during all periods that product is transferred, by the screw conveyor S-26, from the rotary cooler S-16 to the product storage bins S-5. (Basis: Cumulative Increase)

2.) Apart from the following exceptions, the baghouse A-4 shall operate during all periods that product is transferred, by the screw conveyor S-26, from the rotary cooler S-16 to the product storage bins S-5. A-4 may be disconnected for routine maintenance while S-26 is operating provided that:

- ~~Unless~~ The Permit Holder demonstrates that there is no idle plant time during which the maintenance could be effectively performed.

- The total maintenance downtime for A-4 during the operation of S-26 does not exceed 4 days per year unless S-26 is abated by A-3.

- During the time that A-4 is off-line, the vent duct from S-26 shall be slip-blinded unless S-26 is abated by A-3.

(Basis: Cumulative Increase)

3. In order to demonstrate compliance with the above conditions, the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of 5 years from the date on which a record is made:

a. Plant idle time

b. Maintenance downtime for A-4 during the operation of S-26 unless S-26 is abated by A-3

c. - A maintenance record for A-3 and A-4 shall to include the duration and status of S-26 for each maintenance occurrence and be kept on site and made available to District inspectors.

## **VI. Permit Conditions**

(Basis: Reg 1-441, cumulative increase)

### **Condition #10438**

**For: S-5 Nine (9) Coke Storage Bins with two Product Elevators, Two B-9 Feed Screws, and Two Discharge Conveyors, S-16 Rotary Cooler K1, Including Wet Coke Reclaim, S-22 Product Building Crossover Conveyor, and S-26 K-1 Product Screw Conveyor**

4. Within 3 months of final issuance of the Major Facility Review permit, the permit holder shall install a District-approved manometer or other District-approved device which measures the pressure drop across each baghouse. Within 6 months of final issuance of the Major Facility Review permit, the permit holder shall determine the proper pressure drop range for each baghouse. These ranges shall be submitted to the Permits Division of the District for inclusion in the permit as an administrative permit amendment. (basis: cumulative increase)
5. After installation of the manometer or devices, pressure drop across the baghouses shall be monitored at all times that the above sources are operated and recorded once a week to ascertain that the pressure drops are in the normal operating range, and the baghouses are in good operating condition. The records shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 2-6-501)
6. Visible particulate emissions from S-5, S-16, S-22, and S-26 shall be monitored quarterly using either the District method (Manual of Procedures, Volume I, Evaluation of Visible Emissions) or EPA Method 9, and shall be retained on site for a minimum period of five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 6-301, Regulation 2-6-501)
7. The A-4 baghouse shall be inspected on an annual basis to ensure proper operation. Records of each annual inspection shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 2-6-501)

## **VI. Permit Conditions**

### **Condition #10438**

**For: S-5 Nine (9) Coke Storage Bins with two Product Elevators, Two B-9 Feed Screws, and Two Discharge Conveyors, S-16 Rotary Cooler K1, Including Wet Coke Reclaim, S-22 Product Building Crossover Conveyor, and S-26 K-1 Product Screw Conveyor**

8. Petroleum coke throughput shall not exceed the following in any consecutive 12-month period:

- a. For S-5: 525,600 tons
- b. For S-16: 262,800 tons
- c. For S-22: 262,800 tons
- d. For S-26: 262,800 tons  
(basis: Regulation 2-1-234.3)

9. The permit holder shall maintain the following records for each limit listed in part 8:

- a. Monthly petroleum coke throughput per source
- b. Total petroleum coke throughput per source for the preceding 12 months  
(basis: Regulation 1-441)

10. The permit holder shall make available to the APCO, upon request, any records relating to hourly or daily coke throughput.  
(basis: Regulation 1-441)

### **Condition #10439**

**For: S-5 Nine (9) Coke Storage Bins with two Product Elevators, Two B-9 Feed Screws, and Two Discharge Conveyors, S-17 Rotary Cooler K1, Including Wet Coke Reclaim, S-22 Product Building Crossover Conveyor, and S-27 K-2 Product Screw Conveyor**

1.) The pyroscrubber A-2, and the K-2 cooler exhaust blower shall operate during all periods that product is transferred, by the screw conveyor S-27, from the rotary cooler S-17 to the product storage bins S-5. (Basis: Cumulative Increase)

## VI. Permit Conditions

- 2.) Apart from the following exceptions, the baghouse A-4 shall operate during all periods that product is transferred, by the screw conveyor S-27, from the rotary cooler S-17 to the product storage bins S-5. A-4 may be disconnected for routine maintenance while S-27 is operating provided that:

### Condition #10439

**For: S-5 Nine (9) Coke Storage Bins with two Product Elevators, Two B-9 Feed Screws, and Two Discharge Conveyors, S-17 Rotary Cooler K1, Including Wet Coke Reclaim, S-22 Product Building Crossover Conveyor, and S-27 K-2 Product Screw Conveyor**

- ~~Unocal~~ The Permit Holder demonstrates that there is no idle plant time during which the maintenance could be effectively performed.
  - The total maintenance downtime for A-4 during the operation of S-27 does not exceed 4 days per year unless S-27 is abated by A-3.
  - During the time that A-4 is off-line, the vent duct from S-27 shall be slip-blinded unless S-27 is abated by A-3. (Basis: Cumulative Increase)
- 3.) In order to demonstrate compliance with the above conditions, the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of 5 years from the date on which a record is made:
- a. Plant idle time
  - b. Maintenance downtime for A-4 during the operation of S-27 unless S-27 is abated by A-3
  - c. A maintenance record for A-3 and A-4 ~~shall to~~ include the duration and status of S-27 for each maintenance occurrence ~~and be kept on site and made available to District inspectors.~~
- (Basis: Reg 1-441, cumulative increase)
4. Within 3 months of final issuance of the Major Facility Review permit, the permit holder shall install a District-approved manometer or other District-approved device which measures the pressure drop across each baghouse. Within 6 months of final issuance of the Major Facility Review permit, the permit holder shall determine the proper pressure drop range for each baghouse. These ranges shall be submitted to the Permits Division of the District for inclusion in the permit as an administrative permit amendment. (basis: cumulative increase)
5. After installation of the manometer or devices, pressure drop across the baghouses shall be monitored at all times that the above sources are operated and recorded once a week to

## **VI. Permit Conditions**

ascertain that the pressure drops are in the normal operating range, and the baghouses are in good operating condition. The records shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 2-6-501)

### **Condition #10439**

**For: S-5 Nine (9) Coke Storage Bins with two Product Elevators, Two B-9 Feed Screws, and Two Discharge Conveyors, S-17 Rotary Cooler K1, Including Wet Coke Reclaim, S-22 Product Building Crossover Conveyor, and S-27 K-2 Product Screw Conveyor**

6. Visible particulate emissions from S-5, S-17, S-22 and S-27 shall be monitored quarterly using either the District method (Manual of Procedures, Volume I, Evaluation of Visible Emissions) or EPA Method 9, and shall be retained on site for a minimum period of five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 6-301, Regulation 2-6-501)
7. The A-4 baghouse shall be inspected on an annual basis to ensure proper operation. Records of each annual inspection shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 2-6-501)
8. Petroleum coke throughput shall not exceed the following in any consecutive 12-month period:
  - a. For S-5: 525,600 tons
  - b. For S-17: 262,800 tons
  - c. For S-22: 438,000 tons
  - d. For S-27: 262,800 tons(basis: Regulation 2-1-234.3)
9. The permit holder shall maintain the following records for each limit listed in part 8:
  - a. Monthly petroleum coke throughput per source
  - b. Total petroleum coke throughput per source for the preceding 12 months(basis: Regulation 1-441)
10. The permit holder shall make available to the APCO, upon request, any records relating to hourly or daily coke throughput.  
(basis: Regulation 1-441)

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### **Condition #17539**

**For: S-6 Railcar and Truck Coke Loading Spout with Reclaim Hopper, Reclaim Conveyor, and Loading Conveyor**

1. The Permit Holder shall keep the A-3 Baghouse in good operating condition . (basis: Regulation 6-301)
2. Particulate matter emissions from S-6 shall be routed to the A-3 baghouse. (basis: Regulation 6-301, 6-310, 6-311)
3. Within 3 months of final issuance of the Major Facility Review permit, the permit holder shall install a District-approved manometer or other District-approved device which measures the pressure drop across each baghouse. Within 6 months of final issuance of the Major Facility Review permit, the permit holder shall determine the proper pressure drop range for each baghouse. These ranges shall be submitted to the Permits Division of the District for inclusion in the permit as an administrative permit amendment. (basis: cumulative increase)
4. After installation of the manometers or devices, pressure drop across the baghouses shall be monitored at all times that the above sources are operated and recorded once a week to ascertain that the pressure drops are in the normal operating range, and the baghouses are in good operating condition. The records shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 2-6-501)
5. Visible particulate emissions from S-6 shall be monitored quarterly using either the District method (Manual of Procedures, Volume I, Evaluation of Visible Emissions) or EPA Method 9, and shall be retained on site for a minimum period of five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 6-301, Regulation 2-6-501)
6. Each baghouse shall be inspected on an annual basis to ensure proper operation. Records of each annual inspection shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 2-6-501)
7. Petroleum coke throughput shall not exceed 525,600 tons in any consecutive 12-month period. (basis: Regulation 2-1-234.3)

## **VI. Permit Conditions**

### **Condition #17539**

For: **S-6 Railcar and Truck Coke Loading Spout with Reclaim Hopper, Reclaim Conveyor, and Loading Conveyor**

8. The permit holder shall maintain the following records for the limit listed in part 7:
  - a. Monthly petroleum coke throughput
  - b. Total petroleum coke throughput for the preceding 12 months  
(basis: Regulation 1-441)
9. The permit holder shall make available to the APCO, upon request, any records relating to hourly or daily coke throughput.  
(basis: Regulation 1-441)

### **Condition #17540**

For: **S-7 Stockpile fugitive emissions; Including All Transfer, Traffic, and Wind Erosion at Green and Calcined Stockpiles, S-23 Portable Conveyor, S-30 Portable Conveyor, and S-31 Portable Conveyor**

1. Visible particulate emissions from S-7, S-23, S-30 and S-31 shall be monitored quarterly using either the District method (Manual of Procedures, Volume I, Evaluation of Visible Emissions) or EPA Method 9, and shall be retained on site for a minimum period of five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 6-301, Regulation 2-6-501)
2. Petroleum coke throughput shall not exceed the following in any consecutive 12-month period:
  - a. For S-7: 705,000 tons
  - b. For S-23: 525,600 tons
  - c. For S-30: 525,600 tons
  - d. For S-31: 525,600 tons  
(basis: Regulation 2-1-234.3)
3. The permit holder shall maintain the following records for each limit listed in part 2:

## **VI. Permit Conditions**

- a. Monthly petroleum coke throughput per source
- b. Total petroleum coke throughput per source for the preceding 12 months  
(basis: Regulation 1-441)

### **Condition #17540**

**For: S-7 Stockpile fugitive emissions; Including All Transfer, Traffic, and Wind Erosion at Green and Calcined Stockpiles, S-23 Portable Conveyor, S-30 Portable Conveyor, and S-31 Portable Conveyor**

4. The permit holder shall make available to the APCO, upon request, any records relating to hourly or daily coke throughput.  
(basis: Regulation 1-441)

### **Condition #17571**

**For: S-24 Non Retail Gasoline Dispensing Facility (GDF #6050)**

1. The permit holder shall have a Static Pressure Performance Test (Leak Test) ST-38 successfully conducted at least once in each consecutive 12-month period. (Basis: Regulation 8-7-301.6)
2. The initial Static Pressure Performance Test (Leak Test) ST-38 shall be performed within 3 months of final issuance of the Major Facility Review permit. (Basis: Regulation 8-7-301.6)
3. Test results for each Static Pressure Performance Test (Leak Test) ST-38 shall be submitted to the Director of Compliance and Enforcement within 15 calendar days of the test. (Basis: Regulation 1-441)

## VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

This section has been included only to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency column indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown, using the following codes: annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1 K-1 Coke Calcine Kiln/Cooler**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQM D 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond #136, part 10a	P/Q	Visible emission monitoring
	BAAQM D 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #136, part 8 and 9	P/W	Pressure drop monitoring
	BAAQM D 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #136, part 11	P/A	Annual baghouse inspection
FP	BAAQM D 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #136, part 8 and 9	P/W	Pressure drop monitoring
	BAAQM D 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #136, part 11	P/A	Annual baghouse inspection
	BAAQM D 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #136, part 10b	P/A	Source test
	BAAQM D 6-310.3	Y		0.15 gr/dscf @ 6% oxygen by volume	BAAQMD Cond. #136, part 8 and 9	P/W	Pressure drop monitoring

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1 K-1 Coke Calcine Kiln/Cooler**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-310.3	Y		0.15 gr/dscf @ 6% oxygen by volume	BAAQMD Cond. #136, part 11	P/A	Annual baghouse inspection
	BAAQMD 6-310.3	Y		0.15 gr/dscf @ 6% oxygen by volume	BAAQMD Cond. #136, part 10b	P/A	Source test
	BAAQMD 6-311	Y		4.10P <sup>0.67</sup> lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr	BAAQMD Cond. #136, part 8 and 9	P/W	Pressure drop monitoring
	BAAQMD 6-311	Y		4.10P <sup>0.67</sup> lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr	BAAQMD Cond. #136, part 11	P/A	Annual baghouse inspection
	BAAQMD 6-311	Y		4.10P <sup>0.67</sup> lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr	BAAQMD Cond. #136, part 10b	P/A	Source test
SO2	BAAQMD Regulation 9-1-301	Y		ground level concentrations shall not exceed: 0.5 ppm for 3 consecutive minutes AND 0.25 ppm averaged over 60 consecutive minutes AND 0.05 ppm averaged over 24 hours	BAAQMD Regulation 9-1-501	C	CEM
	9-1-310.2	Y		400 ppm by volume	BAAQMD Cond. #136, part 3	C	CEM
	9-1-310.2	Y		113 kg per hour	BAAQMD Cond. #136, part 3	C	CEM

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1 K-1 Coke Calcine Kiln/Cooler**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Calcined coke through-put	BAAQMD Condition #136, part 12 a.	Y		171,000 tons/yr	BAAQMD Condition #136, part 13 d	P/D	Record keeping
Fuel usage	BAAQMD Condition #136, part 12 a.	Y		5.25 million therms/yr for S-1 and 2.6 million therms/yr for A-1	BAAQMD Condition #136, part 13 c	P/D	Record keeping

**Table VII - B**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-2 K-2 Coke Calcine Kiln/Cooler**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond #136, part 10a	P/Q	Visible emission monitoring
	BAAQMD 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #136, part 8 and 9	P/W	Pressure drop monitoring
	BAAQMD 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #136, part 11	P/A	Annual baghouse inspection
FP	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #136, part 8 and 9	P/W	Pressure drop monitoring

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII - B**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-2 K-2 Coke Calcine Kiln/Cooler**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #136, part 11	P/A	Annual baghouse inspection
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #136, part 10b	P/A	Source test
FP	BAAQMD 6-310.3	Y		0.15 gr/dscf @ 6% oxygen by volume	BAAQMD Cond. #136, part 8 and 9	P/W	Pressure drop monitoring
	BAAQMD 6-310.3	Y		0.15 gr/dscf @ 6% oxygen by volume	BAAQMD Cond. #136, part 10b	P/A	Source test
	BAAQMD 6-310.3	Y		0.15 gr/dscf @ 6% oxygen by volume	BAAQMD Cond. #136, part 11	P/A	Annual baghouse inspection
	BAAQMD 6-311	Y		4.10P <sup>0.67</sup> lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr	BAAQMD Cond. #136, part 8 and 9	P/W	Pressure drop monitoring
	BAAQMD 6-311	Y		4.10P <sup>0.67</sup> lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr	BAAQMD Cond. #136, part 11	P/A	Annual baghouse inspection
	BAAQMD 6-311	Y		4.10P <sup>0.67</sup> lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr	BAAQMD Cond. #136, part 10b	P/A	Source test
SO2	BAAQMD Regulation 9-1-301	Y		ground level concentrations shall not exceed: 0.5 ppm for 3 consecutive minutes AND 0.25 ppm averaged over 60 consecutive minutes AND 0.05 ppm averaged over 24 hours	BAAQMD Regulation 9-1-501	C	CEM

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII - B**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-2 K-2 Coke Calcine Kiln/Cooler**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	9-1-310.2	Y		400 ppm by volume	BAAQMD Cond. #136, part 3	C	CEM
SO2	9-1-310.2	Y		113 kg per hour	BAAQMD Cond. #136, part 3	C	CEM
Calcined coke through-put	BAAQMD Condition #136, part 12 b.	Y		182,500 tons/yr	BAAQMD Condition #136, part 13 d	P/D	Record keeping
Fuel usage	BAAQMD Condition #136, part 12 b.	Y		5.00 million therms/yr for S-1 and 2.6 million therms/yr for A-1	BAAQMD Condition #136, part 13 c	P/D	Record keeping
Fuel usage	BAAQMD Cond. #3752, part 1	Y		Natural gas firing only	BAAQMD Cond. #3752, part 3	P/A	Records
Fuel usage	BAAQMD Cond. #3752, part 2	Y		5.00 million therms/yr for S-1	BAAQMD Cond. #3752, part 3	P/A	Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII - C**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-5 Nine (9) Coke Storage Bins with two Product Elevators, Two B-9 Feed Screws,**  
**and Two Discharge Conveyors**  
**S-22 Product Building Crossover Conveyor**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQM D 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond #10438, part 6	P/Q	Visible emission monitoring
Opacity	BAAQM D 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #10438, part 4 and 5	P/W	Pressure drop monitoring
	BAAQM D 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #10438, part 7	P/A	Annual baghouse inspection
	BAAQM D 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond #10439, part 6	P/Q	Visible emission monitoring
	BAAQM D 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #10439, part 4 and 5	P/W	Pressure drop monitoring
	BAAQM D 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #10439, part 7	P/A	Annual baghouse inspection
FP	BAAQM D 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #10438, part 4 and 5	P/W	Pressure drop monitoring
	BAAQM D 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #10438, part 7	P/A	Annual baghouse inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII - C**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-5 Nine (9) Coke Storage Bins with two Product Elevators, Two B-9 Feed Screws,**  
**and Two Discharge Conveyors**  
**S-22 Product Building Crossover Conveyor**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQM D 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #10439, part 4 and 5	P/W	Pressure drop monitoring
	BAAQM D 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #10439, part 7	P/A	Annual baghouse inspection
FP	BAAQM D 6-311	Y		$4.10P^{0.67}$ lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr	BAAQMD Cond. #10438, part 4 and 5	P/W	Pressure drop monitoring
	BAAQM D 6-311	Y		$4.10P^{0.67}$ lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr	BAAQMD Cond. #10438, part 7	P/A	Annual baghouse inspection
	BAAQM D 6-311	Y		$4.10P^{0.67}$ lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr	BAAQMD Cond. #10439, part 4 and 5	P/W	Pressure drop monitoring
	BAAQM D 6-311	Y		$4.10P^{0.67}$ lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr	BAAQMD Cond. #10439, part 7	P/A	Annual baghouse inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII - C**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-5 Nine (9) Coke Storage Bins with two Product Elevators, Two B-9 Feed Screws,**  
**and Two Discharge Conveyors**  
**S-22 Product Building Crossover Conveyor**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Petroleum coke throughput	BAAQMD Condition #10438, parts 8 a and 8 c.	Y		S-5: 525,600 tons/yr and S-22: 438,000 tons/yr	BAAQMD Condition #10438, part 9 b	P/D	Record keeping
Petroleum coke throughput	BAAQMD Condition #10439, parts 8 a and 8 c.	Y		S-5: 525,600 tons/yr and S-22: 438,000 tons/yr	BAAQMD Condition #10439, part 9 b	P/D	Record keeping

**Table VII - D**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-6 Railcar and Truck Coke Loading Spout with Reclaim Hopper, Reclaim Conveyor,**  
**and Loading Conveyor**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond #17539, part 5	P/Q	Visible emission monitoring
	BAAQMD 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #17539, part 3 and 4	P/W	Pressure drop monitoring

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII - D**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-6 Railcar and Truck Coke Loading Spout with Reclaim Hopper, Reclaim Conveyor,**  
**and Loading Conveyor**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #17539, part 6	P/A	Annual baghouse inspection
FP	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #17539, part 3 and 4	P/W	Pressure drop monitoring
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #17539, part 6	P/A	Annual baghouse inspection
	BAAQMD 6-311	Y		4.10P <sup>0.67</sup> lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr	BAAQMD Cond. #17539, part 3 and 4	P/W	Pressure drop monitoring
	BAAQMD 6-311	Y		4.10P <sup>0.67</sup> lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr	BAAQMD Cond. #17539, part 6	P/A	Annual baghouse inspection
Petroleum coke throughput	BAAQMD Condition #17539, part 7	Y		525,600 tons/yr	BAAQMD Condition #17539, part 8 b	P/D	Record keeping

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII - E**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-7 Stockpile fugitive emissions; Including All Transfer, Traffic, and Wind Erosion at**  
**Green and Calcined Stockpiles**  
**S-23, S-30, S-31, Portable Conveyors**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Condition #17540, part 1	P/Q	Visible emission monitoring
Petroleum coke throughput	BAAQMD Condition #17540, part 2	Y		S-7: 705,000 tons/yr, S-23: 525,600 tons/yr, S-30: 525,600 tons/yr, S-31: 525,600 tons/yr	BAAQMD Condition #17540, part 3	P/D	Record keeping

**Table VII - F**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-16 Rotary Cooler K1, Including Wet Coke Reclaim, and**  
**S-26 K-1 Product Screw Conveyor**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond #10438, part 6	P/Q	Visible emission monitoring
	BAAQMD 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #10438, part 4 and 5	P/W	Pressure drop monitoring

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII - F**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-16 Rotary Cooler K1, Including Wet Coke Reclaim, and**  
**S-26 K-1 Product Screw Conveyor**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #10438, part 7	P/A	Annual baghouse inspection
FP	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #10438, part 4 and 5	P/W	Pressure drop monitoring
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #10438, part 7	P/A	Annual baghouse inspection
	BAAQMD 6-311	Y		$4.10P^{0.67}$ lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr	BAAQMD Cond. #10438, part 4 and 5	P/W	Pressure drop monitoring
	BAAQMD 6-311	Y		$4.10P^{0.67}$ lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr	BAAQMD Cond. #10438, part 7	P/A	Annual baghouse inspection
Petroleum coke throughput	BAAQMD Condition #10438, parts 8 b and 8 d	Y		S-16: 262,800 tons/yr and S-26: 262,800 tons/yr	BAAQMD Condition #10438, part 9 b	P/D	Record keeping

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII - G**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-17 Rotary Cooler K2, Including Wet Coke Reclaim, and**  
**S-27 K-2 Product Screw Conveyor**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond #10439, part 6	P/Q	Visible emission monitoring
Opacity	BAAQMD 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #10439, part 4 and 5	P/W	Pressure drop monitoring
	BAAQMD 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #10439, part 7	P/A	Annual baghouse inspection
FP	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #10439, part 4 and 5	P/W	Pressure drop monitoring
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #10439, part 7	P/A	Annual baghouse inspection
	BAAQMD 6-311	Y		4.10P <sup>0.67</sup> lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr	BAAQMD Cond. #10439, part 4 and 5	P/W	Pressure drop monitoring
	BAAQMD 6-311	Y		4.10P <sup>0.67</sup> lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr	BAAQMD Cond. #10439, part 7	P/A	Annual baghouse inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII - G**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-17 Rotary Cooler K2, Including Wet Coke Reclaim, and**  
**S-27 K-2 Product Screw Conveyor**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Petroleum coke throughput	BAAQMD Condition #10439, parts 8 b and 8 d	Y		S-17: 262,800 tons/yr and S-27: 262,800 tons/yr	BAAQMD Condition #10439, part 9 b	P/D	Record keeping

**Table VII - H**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-24 Non Retail Gasoline Dispensing Facility (GDF #6050)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	8-7-301.2	Y		95% (wt) organic vapor recovery efficiency		N	
	8-7-301.6	Y		Limited leakage	BAAQMD Condition #17571, Part 1	P/A	Source Test
	BAAQMD Condition #701	Y		Operate per CARB Executive Order G-70-52-AM	CARB Executive Order G-70-52-AM	N	
	BAAQMD Condition #8749, Part 1	Y		60,000 gallons per year annual throughput	BAAQMD Condition #8749, Part 2	P/A	Records

## VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally found in Section 600 et seq. of the regulation. The following table indicates only the test methods associated with the emission limits referenced in Section VII, Applicable Emission Limits & Compliance Monitoring Requirements, of this permit.

**Table VIII**  
**Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
BAAQMD 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling
BAAQMD 6-310.3	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling
BAAQMD 6-311	General Operations	Manual of Procedures, Volume IV, ST-15, Particulates Sampling
BAAQMD 8-7-301.6	Limited Leakage	Manual of Procedures, Volume IV, ST-38, Gasoline Dispensing Facility, Static Pressure Integrity, Aboveground Vaulted Tanks
BAAQMD 9-1-301	Limitations on Ground Level Concentrations	Manual of Procedures, Volume VI, Air Monitoring Procedures, Part 1, Ground Level Monitoring for Hydrogen Sulfide and Sulfur Dioxide
BAAQMD 9-1-310.2	Emission Limitations for Coke Calcining Kilns	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-20, Sulfur Dioxide, Sulfur Trioxide, Sulfuric Acid Mist

**IX. PERMIT SHIELD**

**Not applicable**

## **X. GLOSSARY**

### **ACT**

Federal Clean Air Act

### **BAAQMD**

Bay Area Air Quality Management District

### **BACT**

Best Available Control Technology

### **CAA**

The federal Clean Air Act

### **CAAQS**

California Ambient Air Quality Standards

### **CEM**

Continuous emission monitor

### **CEQA**

California Environmental Quality Act

### **CFR**

The Code of Federal Regulations. 40 CFR contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of 40 CFR contain the requirements for air pollution programs.

### **CO**

Carbon Monoxide

### **Cumulative Increase**

The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Rule 2-1-403, Permit Conditions (as amended by the District Board on 7/17/91) and SIP Rule 2-1-403, Permit Conditions (as approved by EPA on 6/23/95). Used to determine whether threshold-based requirements are triggered.

### **District**

The Bay Area Air Quality Management District

### **dscf**

Dry Standard Cubic Feet

### **EPA**

## **X. Glossary**

The federal Environmental Protection Agency.

### **Excluded**

Not subject to any District Regulations.

### **Federally Enforceable, FE**

All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part 52.21 (PSD), Part 60 (NSPS), Part 61 (NESHAPs), Part 63 (MACT), and Part 72 (Permits Regulation, Acid Rain), including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

### **FP**

Filterable Particulate as measured by BAAQMD Method ST-15, Particulate.

### **HAP**

Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by 40 CFR Part 63.

### **Major Facility**

A facility with potential emissions of: (1) at least 100 tons per year of regulated air pollutants, (2) at least 10 tons per year of any single hazardous air pollutant, and/or (3) at least 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity of hazardous air pollutants as determined by the EPA administrator.

### **MFR**

Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Act and implemented by District Regulation 2, Rule 6.

### **MOP**

The District's Manual of Procedures.

### **NAAQS**

National Ambient Air Quality Standards

### **NESHAPs**

National Emission Standards for Hazardous Air Pollutants. See in 40 CFR Part 61.

### **NMHC**

Non-methane Hydrocarbons

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

## **X. Glossary**

Oxides of nitrogen.

### **NSPS**

Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the Act, and implemented by 40 CFR Part 60 and District Regulation 10.

### **NSR**

New Source Review. A federal program for pre-construction review and permitting of new and modified sources of pollutants for which criteria have been established in accordance with Section 108 of the Federal Clean Air Act. Mandated by Title I of the Federal Clean Air Act and implemented by 40 CFR Parts 51 and 52 and District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

### **Offset Requirement**

A New Source Review requirement to provide federally enforceable emission offsets for the emissions from a new or modified source. Applies to emissions of POC, NOx, PM10, and SO2.

### **Phase II Acid Rain Facility**

A facility that generates electricity for sale through fossil-fuel combustion and is not exempted by 40 CFR 72 from Titles IV and V of the Clean Air Act.

### **POC**

Precursor Organic Compounds

### **PM**

Total Particulate Matter

### **PM10**

Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns

### **PSD**

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

### **SIP**

State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the Act.

## **X. Glossary**

### **SO<sub>2</sub>**

Sulfur dioxide

### **Title V**

Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

### **TRMP**

Toxic Risk Management Plan

### **TSP**

Total Suspended Particulate

### **VOC**

Volatile Organic Compounds

### **Units of Measure:**

bhp	=	brake-horsepower
btu	=	British Thermal Unit
g	=	grams
gal	=	gallon
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
m <sup>2</sup>	=	square meter
min	=	minute
mm	=	million
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scfm	=	standard cubic feet per minute
yr	=	year

## **XI. APPLICABLE STATE IMPLEMENTATION PLAN**

The Bay Area Air Quality Management District's portion of the State Implementation Plan can be found at EPA Region 9's website. The address is:

<http://yosemite1.epa.gov/r9/r9sips.nsf/California?ReadForm&Start=1&Count=30&Expand=3.1>