

Bay Area Air Quality Management District

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

Final

MAJOR FACILITY REVIEW PERMIT

Issued To:

Phillips 66 Carbon Plant
Facility #A0022

Facility Address:

2101 Franklin Canyon Road
Rodeo, CA 94572

Mailing Address:

2101 Franklin Canyon Road
Rodeo, CA 94572

Responsible Official

Rand Swenson, General Manager
(510) 245 4415

Facility Contact

Michael J. Sailer
(510) 799-4463

Type of Facility: Petroleum Coke Calcining Operation

BAAQMD Permit Division Contact:

Primary SIC: 2999

Brian Lusher

Product: Calcined Petroleum Coke, Electricity

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Jim Karas for Jack P. Broadbent

September 6, 2012

Jack P. Broadbent, Executive Officer/Air Pollution Control Officer

Date

TABLE OF CONTENTS

I.	STANDARD CONDITIONS	3
A.	ADMINISTRATIVE REQUIREMENTS	3
B.	CONDITIONS TO IMPLEMENT REGULATION 2, RULE 6, MAJOR FACILITY REVIEW	3
C.	REQUIREMENT TO PAY FEES	5
D.	INSPECTION AND ENTRY	5
E.	RECORDS.....	5
F.	MONITORING REPORTS.....	5
G.	COMPLIANCE CERTIFICATION	5
H.	EMERGENCY PROVISIONS.....	6
I.	SEVERABILITY	6
II.	EQUIPMENT	7
III.	GENERALLY APPLICABLE REQUIREMENTS.....	15
IV.	SOURCE-SPECIFIC APPLICABLE REQUIREMENTS	18
V.	SCHEDULE OF COMPLIANCE.....	48
VI.	PERMIT CONDITIONS	49
VII.	APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS.....	65
VIII.	TEST METHODS.....	89
IX.	PERMIT SHIELD.....	92
X.	REVISION HISTORY.....	93
XI.	GLOSSARY	95

I. STANDARD CONDITIONS

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 7/9/08);
- SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through 6/28/99);
- BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on 03/04/09);
- SIP Regulation 2, Rule 1 - Permits, General Requirements
(as approved by EPA through 1/26/99);
- BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on 6/15/05);
- SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration
(as approved by EPA through 1/26/99);
- BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on 12/21/04);
- SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through 1/26/99);
- BAAQMD Regulation 2, Rule 5 – New Source Review of Toxic Air Contaminants
(as amended by the District Board on 01/06/10);
- BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on 4/16/03); and
- SIP Regulation 2, Rule 6 – Permits, Major Facility Review
(as approved by EPA through 6/23/95).

Conditions to Implement Regulation 2, Rule 6, Major Facility Review

1. This Major Facility Review Permit was issued on April 30, 2012 and expires on April 29, 2017. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than October 29, 2017, and no earlier than April 29, 2016. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after April 29, 2017.** If the permit renewal has not been issued by April 29, 2017, but a complete application for renewal has been submitted in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application. (Regulation 2-6-307, 404.2, 407, & 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)

I. Standard Conditions

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 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 that 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. (Regulation 2-6-409.20, MOP Volume II, Part 3, §4.11)

I. Standard Conditions

12. The permit holder is responsible for compliance, and certification of compliance, with all conditions of the permit, regardless whether it acts through employees, agents, contractors, or subcontractors. (Regulation 2-6-307)

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)

Inspection and Entry

Access to Facility: The permit holder shall provide reasonable access to the facility and equipment that 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)

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, MOP Volume II, Part 3, §4.7)

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. Reports shall be for the following periods: January 1st through June 30th and July 1st through December 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, MOP Volume II, Part 3, §4.7)

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 July 1st through June 30th. The

I. Standard Conditions

certification shall be submitted by July 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 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)

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)

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, 62 MMBTU/HR	Traylor kiln with Procedair Industries burner	none	30 tons per hour and 262,800 tons per year of calcined petroleum coke; 620 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 Procedair 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
S-17	Rotary Cooler K2; 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.

S-#	Description	Make or Type	Model	Capacity
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
S-32	Internal Combustion Engine	Detroit Diesel	3-71	87 hp
S-33	Internal Combustion Engine	Detroit Diesel	3-71	87 hp
S-41	K-1 Sodium Carbonate Storage Silo	Vogel	822-70E	40 tons storage capacity and 2,628 tons per year of sorbent throughput
S-42	K-2 Sodium Carbonate Storage Silo	Vogel	822-70E	40 tons storage capacity and 2,628 tons per year of sorbent throughput

Table II B – Abatement Devices

A#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
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 6-1-301 & SIP 6-301	None	Ringelmann 1.0 for < 3 minutes/hr
A-1	K-1 Pyroscrubber		BAAQMD 6-1-305 & SIP 6-305	None	limit fallout of visible particles to on-site
A-1	K-1 Pyroscrubber		BAAQMD 6-1-310 & SIP 6-310	None	343 mg per sdcm in exhaust
A-1	K-1 Pyroscrubber		BAAQMD 6-1-310.3 & SIP 6-310.3	None	343 mg per sdcm in exhaust @ 6% oxygen
A-1	K-1 Pyroscrubber		BAAQMD 6-1-311 & SIP 6-311	None	hourly PM limit based on throughput; maximum 40 lb/hr
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 6-1-301 & SIP 6-301	None	Ringelmann 1.0 for < 3 minutes/hr
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 6-1-305 & SIP 6-305	None	limit fallout of visible particles to on-site
A-2	K-2 Pyroscrubber		BAAQMD 6-1-310 & SIP 6-310	None	343 mg per sdcm in exhaust

Table II B – Abatement Devices

A#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-2	K-2 Pyroscrubber		BAAQMD 6-1-310.3 & SIP 6-310.3	None	343 mg per sdcm in exhaust @ 6% oxygen
A-2	K-2 Pyroscrubber		BAAQMD 6-1-311 & SIP 6-311	None	hourly PM limit based on throughput; maximum 40 lb/hr
A-3	Car Loading Baghouse, Shaking	S-6	BAAQMD 6-301	Pressure drop range, 1 to 5.5 inches of water	Ringelmann 1.0 for < 3 minutes/hr
A-3	Car Loading Baghouse, Shaking		BAAQMD 6-305	Pressure drop range, 1 to 5.5 inches of water	limit fallout of visible particles to on- site
A-3	Car Loading Baghouse, Shaking		BAAQMD 6-310	Pressure drop range, 1 to 5.5 inches of water	343 mg per sdcm in exhaust
A-3	Car Loading Baghouse, Shaking		BAAQMD 6-311	Pressure drop range, 1 to 5.5 inches of water	hourly PM limit based on throughput
A-4	Calcine Process Baghouse, Pulse Jet	S-5, S-22	BAAQMD 6-301	Pressure drop range, 0.5 to 5 inches of water	Ringelmann 1.0 for < 3 minutes/hr
A-4	Calcine Process Baghouse, Pulse Jet		BAAQMD 6-305	Pressure drop range, 0.5 to 5 inches of water	limit fallout of visible particles to on- site
A-4	Calcine Process Baghouse, Pulse Jet		BAAQMD 6-310	Pressure drop range, 0.5 to 5 inches of water	343 mg per sdcm in exhaust
A-4	Calcine Process Baghouse, Pulse Jet		BAAQMD 6-311	Pressure drop range, 0.5 to 5 inches of water	hourly PM limit based on throughput

Table II B – Abatement Devices

A#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-10	K-1 Baghouse, Pulse Jet	S-1, S-16, S-26 (S-1 is first abated by A-1 and then A-14, S-16 and S-26 are first abated by A-12 and then A-1)	BAAQMD 6-1-301 & SIP 6-301	Pressure drop between 1.0 and 10.0 inches of water gauge	Ringelmann 1.0 for < 3 minutes/hr
A-10	K-1 Baghouse, Pulse Jet		BAAQMD 6-1-305 & SIP 6-305	Pressure drop between 1.0 and 10.0 inches of water gauge	limit fallout of visible particles to on- site
A-10	K-1 Baghouse, Pulse Jet		BAAQMD 6-1-310 & SIP 6-310	Pressure drop between 1.0 and 10.0 inches of water gauge	343 mg per sdcm in exhaust
A-10	K-1 Baghouse, Pulse Jet		BAAQMD 6-1-310.3 & SIP 6-310.3	Pressure drop between 1.0 and 10.0 inches of water gauge	343 mg per sdcm in exhaust @ 6% oxygen
A-10	K-1 Baghouse, Pulse Jet		BAAQMD 6-1-311 & SIP 6-311	Pressure drop between 1.0 and 10.0 inches of water gauge	Hourly PM limit based on throughput; maximum 40 lb/hr

Table II B – Abatement Devices

A#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-11	K-2 Baghouse, Pulse Jet	S-2, S-17, S-27 (S-2 is first abated by A-2 and then A-15, S-17 and S-27 are first abated by A-13 and then A-2)	BAAQMD 6-1-301 & SIP 6-301	Pressure drop between 1.0 and 10.0 inches of water gauge	Ringelmann 1.0 for < 3 minutes/hr
A-11	K-2 Baghouse, Pulse Jet		BAAQMD 6-1-305 & SIP 6-305	Pressure drop between 1.0 and 10.0 inches of water gauge	limit fallout of visible particles to on-site
A-11	K-2 Baghouse, Pulse Jet		BAAQMD 6-1-310 & SIP 6-310	Pressure drop between 1.0 and 10.0 inches of water gauge	343 mg per sdcm in exhaust
A-11	K-2 Baghouse, Pulse Jet		BAAQMD 6-1-310.3 & SIP 6-310.3	Pressure drop between 1.0 and 10.0 inches of water gauge	343 mg per sdcm in exhaust @ 6% oxygen
A-11	K-2 Baghouse, Pulse Jet		BAAQMD 6-1-311 & SIP 6-311	Pressure drop between 1.0 and 10.0 inches of water gauge	hourly PM limit based on throughput; maximum 40 lb/hr
A-11	K-2 Baghouse, Pulse Jet		Condition #136, part 10	Pressure drop between 1.0 and 10.0 inches of water gauge	29.4 tons PM10 in any 12-month period
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

Table II B – Abatement Devices

A#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-12	K-1 Multicyclone		BAAQMD 6-305	None (A-12 abated by A-1)	limit fallout of visible particles to on- site
A-12	K-1 Multicyclone		BAAQMD 6-310	None (A-12 abated by A-1)	343 mg per sdcm in exhaust
A-12	K-1 Multicyclone		BAAQMD 6-310.3	None (A-12 abated by A-1)	343 mg per sdcm in exhaust @ 6% oxygen
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
A-13	K-2 Multicyclone		BAAQMD 6-305	None (A-13 abated by A-2)	limit fallout of visible particles to on- site
A-13	K-2 Multicyclone		BAAQMD 6-310	None (A-13 abated by A-2)	343 mg per sdcm in exhaust
A-13	K-2 Multicyclone		BAAQMD 6-310.3	None (A-13 abated by A-2)	343 mg per sdcm in exhaust @ 6% oxygen
A-13	K-2 Multicyclone		BAAQMD 6-311	None (A-13 abated by A-2)	hourly PM limit based on throughput
A-14	K-1 Dry Sorbent Injection System	S-1 (S-1 is first abated by A-1)	None	None	None
A-15	K-2 Dry Sorbent Injection System	S-2 (S-2 is first abated by A-2)	Condition #136, part 5	None	749.32 tons SO2 in any 12- month period

Table II B – Abatement Devices

A#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-41	K-1 Sodium Carbonate Storage Silo Vent Filter	S-41	BAAQMD 6-301	None	Ringelmann 1.0 for < 3 minutes/hr
A-41	K-1 Sodium Carbonate Storage Silo Vent Filter		BAAQMD 6-305	None	limit fallout of visible particles to on- site
A-41	K-1 Sodium Carbonate Storage Silo Vent Filter		BAAQMD 6-310	None	343 mg per sdcm in exhaust
A-41	K-1 Sodium Carbonate Storage Silo Vent Filter		BAAQMD 6-311	None	hourly PM limit based on throughput
A-41	K-1 Sodium Carbonate Storage Silo Vent Filter		Condition 17820, Part 1	Condition 17820, Part 9	0.02 gr/dscf of PM10
A-42	K-2 Sodium Carbonate Storage Silo Vent Filter	S-42	BAAQMD 6-301	None	Ringelmann 1.0 for < 3 minutes/hr
A-42	K-2 Sodium Carbonate Storage Silo Vent Filter		BAAQMD 6-305	None	limit fallout of visible particles to on- site
A-42	K-2 Sodium Carbonate Storage Silo Vent Filter		BAAQMD 6-310	None	343 mg per sdcm in exhaust
A-42	K-2 Sodium Carbonate Storage Silo Vent Filter		BAAQMD 6-311	None	hourly PM limit based on throughput
A-42	K-2 Sodium Carbonate Storage Silo Vent Filter		Condition 17820, Part 1	Condition 17820, Part 9	0.02 gr/dscf of PM10

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 parentheses 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 of Directors
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:
<http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions>.

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.

III. Generally Applicable Requirements

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (5/4/11)	N
SIP Regulation 1	General Provisions and Definitions (6/28/99)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (03/04/09)	N
SIP Regulation 2, Rule 1	General Requirements (1/26/99)	Y
BAAQMD 2-1-429	Federal Emissions Statement (12/21/04)	Y
SIP Regulation 2-1-429	Federal Emissions Statement (4/3/95)	Y
BAAQMD Regulation 2, Rule 5	New Source Review of Toxic Air Contaminants (01/06/10)	N
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	Y
BAAQMD Regulation 5	Open Burning (7/9/08)	N
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements (12/5/07)	N
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)	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 (7/1/09)	Y
SIP Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (1/2/04)	Y
BAAQMD Regulation 8, Rule 16	Organic Compounds – Solvent Cleaning Operations (10/16/02)	N
SIP Regulation 8, Rule 16	Organic Compounds – Solvent Cleaning Operations (8/26/03)	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 (7/17/02)	N
SIP Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (2/26/02)	Y
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants – Asbestos Demolition, Renovation and Manufacturing (10/7/98)	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

III. Generally Applicable Requirements

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
California Health and Safety Code Section 41750 et seq.	Portable Equipment	N
California Health and Safety Code Section 44300 et seq.	Air Toxics "Hot Spots" Information and Assessment Act of 1987	N
California Health and Safety Code Title 17, Section 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines	N
California Health and Safety Code Title 17, Section 93116	Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater	N
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (7/20/04)	Y
EPA Regulation 40 CFR 82	Protection of Stratospheric Ozone (4/13/05)	Y
Subpart F, 40 CFR 82.156	Recycling and Emissions Reductions – Required Practices	Y
Subpart F, 40 CFR 82.161	Recycling and Emissions Reductions – Technician Certification	Y
Subpart F, 40 CFR 82.166	Recycling and Emissions Reductions – Reporting and Recordkeeping Requirements	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 parentheses 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 of Directors
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:

<http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions>. 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
BAAQMD Regulation 1	General Provisions and Definitions (05/04/11)		
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	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	

IV. Source Specific Applicable Requirements

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
1-523.5	Maintenance and calibration	N	
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	
SIP Regulation 1	General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y ¹	
1-522.7	emission limit exceedance reporting requirements	Y ¹	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y ¹	
1-523.3	Reports of Violations	Y ¹	
1-523.5	Maintenance and calibration	Y ¹	
BAAQMD Regulation 6, Rule 1	Particulate Matter and Visible Emissions (12/05/07)		
6-1-301	Ringelmann No.1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-310.3	Particulate Weight Limitation, Heat Transfer Operation	N	
6-1-311	General Operations	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	

IV. Source Specific Applicable Requirements

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
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)		
9-1-110	Conditional Exemption, Area Monitoring		
9-1-110.1	Monitoring, records and reporting requirements contained in Regulation 1, including Sections 1-510, 530, 540, 542, 543, and 544	Y	
9-1-110.2	Limitation on Ground Level Concentrations	Y	
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	
9-1-310.3	Compliance with 9-1-110.1 and 9-1-110.2	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	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
40 CFR 64	Compliance Assurance Monitoring (10/22/97)		
64.2(a)	Applicability	Y	
64.3	Monitoring design criteria	Y	
64.3(a)	General criteria	Y	
64.3(a)(1)	Data for one or more indicators or direct measurement	Y	
64.3(a)(2)	Indicator range	Y	
64.3(a)(3)	Design of indicator ranges	Y	
64.3(b)	Performance criteria	Y	
64.3(b)(1)	Specifications for obtaining data	Y	
64.3(b)(2)	Verification procedures	Y	
64.3(b)(3)	Quality assurance and control practices	Y	
64.3(b)(4)	Specifications for frequency, procedures, and averaging periods	Y	
64.3(b)(4)(i)	Design of period over which data are obtained, etc.	Y	

IV. Source Specific Applicable Requirements

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
64.3(b)(4)(ii)	Frequency for units that emit more than 100% of major source threshold (applies to SO2 emissions)	Y	
64.3(b)(4)(iii)	Frequency for other pollutant-specific emission units (applies to filterable particulate and PM10 emissions)	Y	
64.3(c)	Evaluation factors	Y	
64.3(d)	Special criteria for the use of continuous emission, opacity or predictive monitoring systems	Y	
64.3(d)(1)	Use of existing CEM (applies to SO2)	Y	
64.3(d)(2)(vi)	Use of CEM approved by the permitting authority	Y	
64.3(d)(3)	Monitoring system shall allow for reporting of exceedances; in absence of averaging period, develop averaging period in accordance with Section 64.3(b)(4)	Y	
64.4	Submittal requirements	Y	
64.4(a)	Submittal of monitoring that satisfies design requirements in 40 CFR 63.4	Y	
64.4(b)	Justification for the proposed monitoring	Y	
64.4(b)(1)	Presumptively acceptable monitoring approaches	Y	
64.4(b)(2)	CEMS	Y	
64.4(b)(5)	Presumptively acceptable monitoring approaches designed by EPA	Y	
64.4(c)(1)	Submittal of control device operating parameter data obtained during tests	Y	
64.4(c)(2)	Documentation of no changes to system after performance tests	Y	
64.4(d)	Testing required if data not available	Y	
64.4(e)	Implementation plan	Y	
64.5(a)	Deadline for submittals for large pollutant-specific emissions units	Y	
64.5(b)	Deadline for submittals for other pollutant-specific emissions units	Y	
64.5(d)	Prior to approval, emissions unit subject to 40 CFR 70.1(a)(3)(i)(B)	Y	
64.6(a)	Approval by permitting authority	Y	
64.6(b)	Additional data collection	Y	
64.6(c)	Establishment of permit terms or conditions	Y	
64.6(d)	Installation, testing or final verification	Y	
64.7	Operation of approved monitoring	Y	
64.7(a)	Commencement of operation	Y	
64.7(b)	Proper maintenance	Y	
64.7(c)	Continued operation	Y	

IV. Source Specific Applicable Requirements

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
64.7(d)	Response to excursions or exceedances	Y	
64.7(e)	Documentation of need for improved monitoring	Y	
64.8	Quality improvement plan	Y	
64.9	Reporting and recordkeeping requirements	Y	
64.9(a)	General reporting requirements	Y	
64.9(b)	General recordkeeping requirements	Y	
64.10	Savings provisions	Y	
BAAQMD Condition #136		Y	
Part 1	Access Ports closed during testing. (basis: BAAQMD Regulation 1, Section 401)	Y	
Part 2	Sampling ports and access shall be provided (basis: BAAQMD Regulation 1, Section 501)	Y	
Part 3a	CEMs required (basis: BAAQMD Regulation 1, Sections 521 and 522, 40 CFR 64.3)	Y	
Part 3b	Flow meters for natural gas usage (basis: BAAQMD Regulation 2-6-503)	Y	
Part 3c	Measurements of SO ₂ at least 4 times per hour (Basis: 40 CFR 64.3(b)(4)(ii))	Y	
Part 4	CEM standards (basis: BAAQMD Regulation 1, Section 522)	Y	
Part 7	Record keeping (basis: BAAQMD Regulation 1, Section 441; Regulation 2-2-303, Offsets, 40 CFR 64)	Y	
Part 8	Baghouse maintenance requirement (basis: BAAQMD Regulations 6-1-301, 6-1-310, 6-1-311; SIP Regulations 6-301, 6-310, 6-311))	N	
Part 9	Abatement requirement (basis: BAAQMD Regulations 6-1-301, 6-1-310, 6-310.3, and 6-1-311; SIP Regulations 6-301, 6-310, 6-310.3, and 6-311)	Y	
Part 11	Pressure drop monitoring (basis: BAAQMD Regulation 2-6-409.2)	Y	
Part 12	Pressure drop limits (basis: BAAQMD Regulations 2-6-409.2 and 2-6-501, 40 CFR 64)	Y	
Part 13a	Visible emissions monitoring requirement (basis: BAAQMD Regulations 6-1-301, SIP Regulation 6-301, 2-6-501; 40 CFR 64.3(b)(4)(iii))	Y	
Part 13b	Annual source test requirement for S-1 and S-2 (basis: BAAQMD Regulation 2-6-501)	Y	

IV. Source Specific Applicable Requirements

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
Part 13d	Definition of excursion for filterable particulate standards(40 CFR 64.6(c)(2))	Y	
Part 13e	Reporting of excursions (40 CFR 64.9(a)(2))	Y	
Part 13f	Submittal of Quality Improvement Plan (40 CFR 64.8)	Y	
Part 14	Baghouse inspection (basis: BAAQMD Regulation 2-6-501)	Y	
Part 15	Limits on natural gas usage and calcined coke produced (basis: BAAQMD Regulation 2-1-234.3)	Y	
Part 16	Record keeping (basis: BAAQMD Regulation 1-441)	Y	
Part 18	Make available hourly and daily records upon request (basis: BAAQMD Regulation 1-441)	Y	
Part 19	Prohibition against calcining coke from Santa Maria Refinery (basis: Offsets, CEQA)	Y	

¹This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District’s revision of the regulation.

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (05/04/11)		
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	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
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	
SIP Regulation 1	General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y ¹	
1-522.7	emission limit exceedance reporting requirements	Y ¹	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y ¹	
1-523.3	Reports of Violations	Y ¹	
1-523.5	Maintenance and calibration	Y ¹	
BAAQMD Regulation 6,	Particulate Matter and Visible Emissions (12/05/07)		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Rule 1			
6-1-301	Ringelmann No.1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-310.3	Particulate Weight Limitation, Heat Transfer Operation	N	
6-1-311	General Operations	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)		
9-1-110	Conditional Exemption, Area Monitoring		
9-1-110.1	Monitoring, records and reporting requirements contained in Regulation 1, including Sections 1-510, 530, 540, 542, 543, and 544	Y	
9-1-110.2	Limitation on Ground Level Concentrations	Y	
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	
9-1-310.3	Compliance with 9-1-110.1 and 9-1-110.2	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	
BAAQMD Manual of	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Procedures, Volume V			
40 CFR 64	Compliance Assurance Monitoring (10/22/97)		
64.2(a)	Applicability	Y	
64.3	Monitoring design criteria	Y	
64.3(a)	General criteria	Y	
64.3(a)(1)	Data for one or more indicators or direct measurement	Y	
64.3(a)(2)	Indicator range	Y	
64.3(a)(3)	Design of indicator ranges	Y	
64.3(b)	Performance criteria	Y	
64.3(b)(1)	Specifications for obtaining data	Y	
64.3(b)(2)	Verification procedures	Y	
64.3(b)(3)	Quality assurance and control practices	Y	
64.3(b)(4)	Specifications for frequency, procedures, and averaging periods	Y	
64.3(b)(4)(i)	Design of period over which data are obtained, etc.	Y	
64.3(b)(4)(ii)	Frequency for units that emit more than 100% of major source threshold (applies to SO ₂ emissions)	Y	
64.3(b)(4)(iii)	Frequency for other pollutant-specific emission units (applies to filterable particulate and PM ₁₀ emissions)	Y	
64.3(c)	Evaluation factors	Y	
64.3(d)	Special criteria for the use of continuous emission, opacity or predictive monitoring systems	Y	
64.3(d)(1)	Use of existing CEM (applies to SO ₂)	Y	
64.3(d)(2)(vi)	Use of CEM approved by the permitting authority	Y	
64.3(d)(3)	Monitoring system shall allow for reporting of exceedances; in absence of averaging period, develop averaging period in accordance with Section 64.3(b)(4)	Y	
64.4	Submittal requirements	Y	
64.4(a)	Submittal of monitoring that satisfies design requirements in 40 CFR 63.4	Y	
64.4(b)	Justification for the proposed monitoring	Y	
64.4(b)(1)	Presumptively acceptable monitoring approaches	Y	
64.4(b)(2)	CEMS	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
64.4(b)(5)	Presumptively acceptable monitoring approaches designed by EPA	Y	
64.4(c)(1)	Submittal of control device operating parameter data obtained during tests	Y	
64.4(c)(2)	Documentation of no changes to system after performance tests	Y	
64.4(d)	Testing required if data not available	Y	
64.4(e)	Implementation plan	Y	
64.5(a)	Deadline for submittals for large pollutant-specific emissions units	Y	
64.5(b)	Deadline for submittals for other pollutant-specific emissions units	Y	
64.5(d)	Prior to approval, emissions unit subject to 40 CFR 70.1(a)(3)(i)(B)	Y	
64.6(a)	Approval by permitting authority	Y	
64.6(b)	Additional data collection	Y	
64.6(c)	Establishment of permit terms or conditions	Y	
64.6(d)	Installation, testing or final verification	Y	
64.7	Operation of approved monitoring	Y	
64.7(a)	Commencement of operation	Y	
64.7(b)	Proper maintenance	Y	
64.7(c)	Continued operation	Y	
64.7(d)	Response to excursions or exceedances	Y	
64.7(e)	Documentation of need for improved monitoring	Y	
64.8	Quality improvement plan	Y	
64.9	Reporting and recordkeeping requirements	Y	
64.9(a)	General reporting requirements	Y	
64.9(b)	General recordkeeping requirements	Y	
64.10	Savings provisions	Y	
BAAQMD Condition #136		Y	
Part 1	Access Ports closed during testing. (basis: BAAQMD Regulation 1, Section 401)	Y	
Part 2	Sampling ports and access shall be provided (basis: BAAQMD Regulation 1, Section 501)	Y	
Part 3a	CEMs required (basis: BAAQMD Regulation 1, Sections 521 and 522, 40 CFR 64.3)	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3b	Flow meters for natural gas usage (basis: BAAQMD Regulation 2-6-503)	Y	
Part 3c	Measurements of SO ₂ at least 4 times per hour (Basis: 40 CFR 64.3(b)(4)(ii))	Y	
Part 4	CEM standards (basis: BAAQMD Regulation 1, Section 522)	Y	
Part 5	Annual SO ₂ Limit (Basis: Regulation 2-2-303, Offsets)	Y	
Part 7	Record keeping (basis: BAAQMD Regulations 1- 441; 2-2-303; Offsets, 40 CFR 64)	Y	
Part 8	Baghouse maintenance requirement (basis: BAAQMD Regulations 6-1-301, 6-1-310, 6-1-311; SIP Regulations 6-301, 6-310, 6-311)	Y	
Part 9	Abatement requirement (basis: BAAQMD Regulations 6-1-301, 6-1-310, 6-310.3, and 6-1-311; SIP Regulations 6-301, 6-310, 6-310.3, and 6-311)	Y	
Part 10	Annual PM ₁₀ limit (basis: CEQA)	N	
Part 11	Pressure drop monitoring (basis: BAAQMD Regulation 2-6-409.2)	Y	
Part 12	Pressure drop Limits (basis: BAAQMD Regulations 2-6-409.2 and 2-6-501, cumulative increase, 40 CFR 64)	Y	
Part 13a	Visible emissions monitoring requirement (basis: BAAQMD Regulations 6-1-301, 2-6-501, 40 CFR 64.3(b)(4)(iii))	Y	
Part 13b	Annual source test requirement for S-1 and S-2 (basis: BAAQMD Regulation 2-6-501)	Y	
Part 13c	Annual source test requirement for S-2 (basis: CEQA)	N	
Part 13d	Definition of excursion for filterable particulate standards(40 CFR 64.6(c)(2))	Y	
Part 13e	Reporting of excursions (40 CFR 64.9(a)(2))	Y	
Part 13f	Submittal of Quality Improvement Plan (40 CFR 64.8)	Y	
Part 14	Baghouse inspection (basis: BAAQMD Regulation 2-6-501)	Y	
Part 15	Limits on natural gas usage and calcined coke produced (basis: BAAQMD Regulation 2-1-234.3)	Y	
Part 16	Record keeping (basis: BAAQMD Regulation 1-441)	Y	
Part 17	Recordkeeping for PM ₁₀ (basis: CEQA)	N	
Part 18	Make available hourly and daily records upon request (basis: BAAQMD Regulation 1-441)	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 19	Prohibition against calcining coke from Santa Maria Refinery (basis: Offsets, CEQA)	Y	
BAAQMD Condition #3752			
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	
BAAQMD Condition 22970			
Part B.1	Offset report (2-1-403, 2-2-410)	Y	

¹This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

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
BAAQMD Regulation 1	General Provisions and Definitions (05/04/11)		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
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	
SIP Regulation 1	General Provisions and Definitions (6/28/99)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y ¹	
1-523.3	Reports of Violations	Y ¹	
1-523.5	Maintenance and calibration	Y ¹	
BAAQMD Regulation 6, Rule 1	Particulate Matter and Visible Emissions (12/05/07)		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		

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
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	
BAAQMD Condition #10438		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: BAAQMD Regulation 2-6-409.2)	Y	
Part 5	Pressure drop Limits (basis: BAAQMD Regulations 2-6-409.2 and 2-6-501)	Y	
Part 6	Visible emissions monitoring requirement (basis: BAAQMD Regulations 6-301 and 2-6-501)	Y	
Part 7	Baghouse inspection (basis: BAAQMD Regulation 2-6-501)	Y	
Part 8	Calcined coke throughput limits (basis: BAAQMD Regulation 2-1-234.3)	Y	
Part 9	Record keeping (basis: BAAQMD Regulation 1-441)	Y	
Part 10	Make available hourly and daily records upon request (basis: BAAQMD Regulation 1-441)	Y	
BAAQMD Condition #10439		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: BAAQMD Regulation 2-6-409.2)	Y	
Part 5	Pressure drop Limits (basis: BAAQMD Regulations 2-6-409.2 and	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
	2-6-501)		
Part 6	Visible emissions monitoring requirement (basis: BAAQMD Regulations 6-301 and 2-6-501)	Y	
Part 7	Baghouse inspection (basis: BAAQMD Regulation 2-6-501)	Y	
Part 8	Petroleum coke throughput limits (basis: BAAQMD Regulation 2-1-234.3)	Y	
Part 9	Record keeping (basis: BAAQMD Regulation 1-441)	Y	
Part 10	Make available hourly and daily records upon request (basis: BAAQMD Regulation 1-441)	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (05/04/11)		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
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	
SIP Regulation 1	General Provisions and Definitions (6/28/99)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y ¹	
1-523.3	Reports of Violations	Y ¹	
1-523.5	Maintenance and calibration	Y ¹	
BAAQMD Regulation 6, Rule 1	Particulate Matter and Visible Emissions (12/05/07)		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/98)		
6-301	Ringelmann Number 1 Limitation	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #17539			
Part 1	A-3 Baghouse maintenance requirement (basis: BAAQMD Regulation 6-301)	Y	
Part 2	Abatement requirement (basis: BAAQMD Regulation 6, Sections 301, 310 and 311)	Y	
Part 3	Pressure drop monitoring (basis: BAAQMD Regulation 2-6-409.2)	Y	
Part 4	Pressure drop limits (basis: BAAQMD Regulation 2-6-409.2 and 2-6-501)	Y	
Part 5	Visible emissions monitoring requirement (basis: BAAQMD Regulations 6-301 and 2-6-501)	Y	
Part 6	Baghouse inspection (basis: BAAQMD Regulation 2-6-501)	Y	
Part 7	Petroleum coke throughput limits (basis: BAAQMD Regulation 2-1-234.3)	Y	
Part 8	Record keeping (basis: BAAQMD Regulation 1-441)	Y	
Part 9	Make available hourly and daily records upon request (basis: BAAQMD 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, S-31, Portable Conveyors

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	Particulate Matter and Visible Emissions (12/05/07)		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/98)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #17540			
Part 1	Visible emissions monitoring requirement (basis: BAAQMD Regulations 6-301, and 2-6-501)	Y	
Part 2	Petroleum coke throughput limits (basis: BAAQMD Regulation 2-1-234.3)	Y	
Part 3	Record keeping (basis: BAAQMD Regulation 1-441)	Y	
Part 4	Make available hourly and daily records upon request (basis: BAAQMD Regulation 1-441)	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
BAAQMD Regulation 1	General Provisions and Definitions (05/04/11)		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
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	
SIP Regulation 1	General Provisions and Definitions (6/28/99)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y ¹	
1-523.3	Reports of Violations	Y ¹	
1-523.5	Maintenance and calibration	Y ¹	
BAAQMD Regulation 6, Rule 1	Particulate Matter and Visible Emissions (12/05/07)		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/98)		
6-301	Ringelmann Number 1 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
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #10438			
Part 1	Abatement requirement (Basis: Cumulative Increase)	Y	
Part 2	Abatement requirement with limited exemption: (Basis: Cumulative Increase)	Y	
Part 3	Record keeping (Basis: BAAQMD Regulation 1, Section 441, cumulative increase)	Y	
Part 4	Pressure drop monitoring (basis: BAAQMD Regulation 2-6-409.2)	Y	
Part 5	Pressure drop limits (basis: BAAQMD Regulations 2-6-409.2 and 2-6-501)	Y	
Part 6	Visible emissions monitoring requirement (basis: BAAQMD Regulations 6-301, and 2-6-501)	Y	
Part 7	Baghouse inspection (basis: BAAQMD Regulation 2-6-501)	Y	
Part 8	Petroleum coke throughput limits (basis: BAAQMD Regulation 2-1-234.3)	Y	
Part 9	Record keeping (basis: BAAQMD Regulation 1-441)	Y	
Part 10	Make available hourly and daily records upon request (basis: BAAQMD Regulation 1-441)	Y	

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
BAAQMD Regulation 1	General Provisions and Definitions (05/04/11)		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
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	
SIP Regulation 1	General Provisions and Definitions (6/28/99)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y ¹	
1-523.3	Reports of Violations	Y ¹	
1-523.5	Maintenance and calibration	Y ¹	
BAAQMD Regulation 6, Rule 1	Particulate Matter and Visible Emissions (12/05/07)		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/98)		
6-301	Ringelmann Number 1 Limitation	Y	

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
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #10439			
Part 1	Abatement requirement (Basis: Cumulative Increase)	Y	
Part 2	Abatement requirement with limited exemption: (Basis: Cumulative Increase)	Y	
Part 3	Record keeping (Basis: BAAQMD Regulation 1, Section 441, cumulative increase)	Y	
Part 4	Pressure drop monitoring (basis: BAAQMD Regulation 2-6-409.2)	Y	
Part 5	Pressure drop limits (basis: BAAQMD Regulation 2-6-409.2 and 2-6-501)	Y	
Part 6	Visible emissions monitoring requirement (basis: BAAQMD Regulations 6-301 and 2-6-501)	Y	
Part 7	Baghouse inspection (basis: BAAQMD Regulation 2-6-501)	Y	
Part 8	Petroleum coke throughput limits (basis: BAAQMD Regulation 2-1-234.3)	Y	
Part 9	Record keeping (basis: BAAQMD Regulation 1-441)	Y	
Part 10	Make available hourly and daily records upon request (basis: BAAQMD Regulation 1-441)	Y	

IV. Source Specific Applicable Requirements

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
BAAQMD Regulation 8, Rule 7	Organic Compounds - Gasoline Dispensing Facilities (11/6/02)		
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	Y	
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	
8-7-301.5	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	
8-7-301.8	No Coaxial Phase I	Y	
8-7-301.9	CARB-Certified Anti-Rotational Coupler or Swivel Adapter	Y	
8-7-301.10	System Vapor Recovery Rate	Y	
8-7-301.11	CARB-Certified Spill Box	Y	
8-7-301.12	Drain Valve Permanently Plugged	Y	
8-7-301.13	Annual Vapor Tightness Test	Y	
8-7-303	Topping Off	Y	
8-7-304	Certification Requirements	Y	
8-7-308	Operating Practices	Y	
8-7-315	Pressure Vacuum Valve Requirements, Underground Storage Tanks	Y	
8-7-401	Equipment Installation and Modification	Y	
8-7-406	Testing Requirements, New and Modified Installations	Y	
8-7-407	Periodic Testing Requirements	Y	
8-7-408	Periodic Testing Notification and Submission Requirements	Y	
8-7-501	Burden of Proof	Y	
8-7-502	Right of Access	Y	
8-7-503	Record Keeping Requirements	Y	
BAAQMD Condition #8749			

IV. Source Specific Applicable Requirements

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
Part 1	Annual throughput limitation (basis: BAAQMD Regulation 8, Rule 7, Section 112.7)	Y	
Part 2	Recordkeeping (basis: BAAQMD Regulations 1-441 and 8-7-503, Cumulative increase)	Y	
BAAQMD Condition #20666			
Part 1	Phase I equipment installed and maintained per CARB Executive Order (basis: BAAQMD Regulation 8-7-301.2)	Y	
Part 2	Triennial drop tube/drain valve and static adaptor torque test requirements (basis: BAAQMD Regulation 8-7-301.2)	Y	

Table IV - I
Source-specific Applicable Requirements
S-32 Internal Combustion Engine, Detroit Diesel 3-71, 87 hp and
S-33 Internal Combustion Engine, Detroit Diesel 3-71, 87 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	Particulate Matter and Visible Emissions (12/05/07)		
6-1-303	Ringelmann Number 2 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/98)		
6-303	Ringelmann Number 2 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	

IV. Source Specific Applicable Requirements

Table IV - I
Source-specific Applicable Requirements
S-32 Internal Combustion Engine, Detroit Diesel 3-71, 87 hp and
S-33 Internal Combustion Engine, Detroit Diesel 3-71, 87 hp

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	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9, Rule 8	Inorganic Gaseous Pollutants (7/25/07)		
9-8-110.1	Limited Exemption <250 bhp	N	Until 1/1/12
9-8-110.3	Limited Exemption Liquid Fuels	N	Until 1/1/12
9-8-111.1	Limited Exemption for engines rated at, or below, 1000 bhp that operate less than 200 hours, exclusive of any emergency use, in any 12-consecutive-month period.	N	Until 1/1/12
9-8-111.3	Limited Exemption for engines that operate less than 100 hours, exclusive of any emergency use, in any 12-consecutive-month period	N	1/1/12
9-8-502.1	Any person who operates any engine that is exempt from the requirements of Section 9-8-301, 302, 303, or 304 by Section 9-8-110 or 111 shall keep records of the number of hours the engine is fired on a monthly basis. Such records shall be retained for a minimum of 24 months from the date of entry and made available to District staff upon request.	N	
9-8-530	Requirement for engine to be equipped with non-resettable totalizing meter that measures hours of operation or fuel usage. All records shall be kept for at least two years, and shall be available for inspection by District staff upon request. The operator shall keep a monthly log of usage that shall indicate the following: 530.1 Hours of operation (total) 530.2 Hours of operation (emergency) 530.3 For each emergency, the nature of the emergency condition.		1/1/12
40 CFR Part 63 Subpart A	National Emissions Standards for Hazardous Air Pollutants for Source Categories, Subpart A – General Provisions		
63.1	General Applicability of the General Provisions	Y	
63.2	Definitions	Y	

IV. Source Specific Applicable Requirements

Table IV - I
Source-specific Applicable Requirements
S-32 Internal Combustion Engine, Detroit Diesel 3-71, 87 hp and
S-33 Internal Combustion Engine, Detroit Diesel 3-71, 87 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.3	Units and Abbreviations	Y	
63.4	Prohibited activities and circumvention	Y	
63.6(a)	Compliance with standards and maintenance requirements - Applicability	Y	
63.6(c)	Compliance dates for existing sources	Y	
63.6(f)(2)	Methods for determining compliance	Y	
63.6(f)(3)	Finding of compliance	Y	
63.6(g)	Use of an alternative nonopacity emission standard	Y	
63.6(i)	Compliance extension procedures and criteria	Y	
63.6(j)	Presidential compliance exemption	Y	
63.10(a)	Recordkeeping and reporting requirements, applicability and general information	Y	
63.10(b)(1)	Record retention	Y	
63.10(d)(1)	General reporting requirements		
63.10(f)	Administrator waiver of recordkeeping or reporting requirements	Y	
63.12	State authority and delegations	Y	
63.13	Addresses of air pollution control agencies and EPA Regional Offices	Y	
63.14	Incorporation by reference	Y	
63.15	Availability of information and confidentiality	Y	
40 CFR Part 63 Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE)		
63.6585	Applicability	Y	
63.6585(a)	Applicable to Stationary RICE	Y	
63.6585(b)	Applicable to Major Source of HAPs	Y	
63.6590(a)(1)(ii)	Affected source under stationary RICE located at a major source of HAP emissions, constructed before 6/12/06	Y	
63.6595(a)	Comply with applicable emission limitations and operating limitations by 5/3/13.	Y	5/3/13

IV. Source Specific Applicable Requirements

Table IV - I
Source-specific Applicable Requirements
S-32 Internal Combustion Engine, Detroit Diesel 3-71, 87 hp and
S-33 Internal Combustion Engine, Detroit Diesel 3-71, 87 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6602	Comply with emission limitations for existing stationary RICE located with a site rating of less than 500 hp located at a major source of HAP emissions contained in Table 2c. 1. Change oil & filter every 1,000 hours of operation or annually, whichever comes first. Oil analysis program may be used to extend period; 2. Inspect air cleaner every 1000 hours or annually, whichever comes first; 3. Inspect all hoses and belts every 500 hours or annually, whichever comes first, and replace as necessary.	Y	
63.6605	General Requirements 1. Must be in compliance with applicable emission limitations and operating limitations 2. Operate engine in a manner consistent with safety and good air pollution control practices to minimize emissions.	Y	5/3/13
63.6625(e)(1)	Maintain RICE and abatement controls according to manufacturer's instructions or develop own plan.	Y	5/3/13
63.6625(h)	Minimize idling, and minimize startup time to not exceed 30 minutes.	Y	
63.6625(i)	Optional oil analysis program to extend the time between required oil changes.	Y	
63.6640(a)	Demonstrate compliance with the requirements of Table 2c according to work or management practices of Table 6, Part 9a.	Y	5/3/13
63.6640(b)	Report deviations from the requirements of Table 2c.	Y	5/3/13
63.6640(e)	Report non-compliance with the any applicable requirement of Table 8.	Y	5/3/13
63.6645(a)(5)	The notification requirements of 63.6645(a) do not apply to this engine.	Y	5/3/13
63.6655(a)	Record Keeping (4) Records of all required maintenance performed on the air pollution control and monitoring equipment.	Y	5/3/13
63.6655(d)	The owner/operator must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies to the given RICE.	Y	5/13/13

IV. Source Specific Applicable Requirements

Table IV - I
Source-specific Applicable Requirements
S-32 Internal Combustion Engine, Detroit Diesel 3-71, 87 hp and
S-33 Internal Combustion Engine, Detroit Diesel 3-71, 87 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6655(e)	You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE; (1) An existing stationary RICE with a site rating of less than 100 brake HP located at a major source of HAP emissions.	Y	
63.6660	Instructions for Records	Y	5/3/13
63.6670	Implementation and enforcement of Subpart <i>ZZZZ</i>	Y	5/3/13
CCR, Title 17, Section 93115	ATCM for Stationary Compression Ignition Engines	N	
93115.2	Applicability	N	
93115.5	Fuel Requirements	N	
93115.7	ATCM for Stationary CI Engines – Stationary Prime Diesel-Fueled CI Engine (>50 bhp) Emission Standards	N	
93115.7(b)	In-Use Stationary Prime Diesel-Fueled CI Engine (> 50 bhp) Emission Standards	N	
93115.10	Recordkeeping, Reporting and Monitoring Requirements	N	
93115.10(a)	Reporting	N	
93115.10(b)	Demonstration of Compliance with Emission Limits	N	
93115.10(d)	Monitoring Equipment (1) Non-resettable hour meter (2) DPFs backpressure monitor (3) APCO may require additional monitoring equipment	N	
93115.12	ATCM for Stationary CI Engines – Compliance Schedule for Owners or Operators of Four or More Engines (>50 bhp) Located within a District	N	
93115.12(b)	Compliance with 93115.7(b) by the following schedule for all 1990 through 1995 model year engines. S-32 and S-33 are 1992 model year engines. Percent of Engines Compliance Date 30% January 1, 2007 60% January 1, 2008 100% January 1, 2009	N	
93115.13	ATCM for Stationary CI Engines – Compliance Demonstration	N	
93115.15	Severability	N	

IV. Source Specific Applicable Requirements

Table IV - I
Source-specific Applicable Requirements
S-32 Internal Combustion Engine, Detroit Diesel 3-71, 87 hp and
S-33 Internal Combustion Engine, Detroit Diesel 3-71, 87 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition #19758			
Part 1	Fuel oil certification and recordkeeping (basis: Regulation 2-6-409.2)	Y	

IV. Source Specific Applicable Requirements

Table IV - J
Source-specific Applicable Requirements
S-41 K-1 Sodium Carbonate Storage Silo and
S-42 K-2 Sodium Carbonate Storage Silo

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
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	
BAAQMD Condition #17820			
Part 1	PM10 emission limit (Basis: Reasonably Available Control Technology)	Y	
Part 2	Source test options (Basis: BAAQMD Regulation 2, Rule 1, Section 403)	Y	
Part 3	Source test procedures (Basis: BAAQMD Regulation 2, Rule 1, Section 403)	Y	
Part 4	Filterable particulate emission limit (Basis: BAAQMD Regulation 2, Rule 1, Section 403)	Y	
Part 5	Optional PM10 emission calculation procedure (Basis: BAAQMD Regulation 2, Rule 1, Section 403)	Y	
Part 6	Vent filter maintenance requirement (basis: BAAQMD Regulation 6-301)	N	
Part 7	Abatement requirement (basis: BAAQMD Regulation 6, Sections 301, 310 and 311)	Y	
Part 10	Visible emissions monitoring requirement (basis: BAAQMD Regulations 6-301 and 2-6-501)	Y	
Part 11	Corrective action requirements and Vent filter maintenance records (basis: BAAQMD Regulation 2-6-409.2 and 2-6-501)	Y	
Part 12	Sorbent throughput limits (basis: BAAQMD Regulation 2-1-234)	Y	
Part 13	Record keeping (basis: BAAQMD 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.

1. Compliance with Airborne Toxic Control Measure for Stationary Compressions Ignition Engines contained in title 17, California Code of Regulations section 93115 (sections 93115 through 93115.15). This regulation applies to the two diesel engines in use at the facility (S-32, S-33).

- Specifically 93115.7(b) In-Use Stationary Prime Diesel-Fueled CI Engine (>50 bhp) Emissions Standards
 - a. Phillips 66 performed emissions testing on two diesel engines (S-32, S-33) in 2006 and 2007 to demonstrate compliance with the ATCM for Stationary Compression Ignition Diesel Engines. The District Source Test Section completed a review of the source test data and the data does not demonstrate compliance with ATCM requirements contained in 93115.7(b). The two diesel engines in use at the facility (S-32, S-33) were required to demonstrate compliance with the ATCM by January 1, 2009 (See 93115.12).

b. Compliance Milestones

- i) Within 2 months of the issuance of the Title V renewal permit: The owner/operator of S-32 and S-33 will comply with one of the two options below.
 - Option 1: The owner/operator shall submit source test results that demonstrate compliance with the ATCM and follow the testing requirements contained in 93115.13 and 93115.14. The testing shall be performed in accordance with ISO 8178 procedures or at all engine operating conditions as approved by the APCO.
 - Option 2: Withdraw permit application 15563 and submit a new permit application documenting an alternative means for compliance with the ARB ATCM.

c. Reporting

- i) The owner/operator of S-32 and S-33 shall submit progress reports along with the monitoring reports on January 31st and July 31st of each year.

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 conducted to determine compliance with District regulations and/or permit conditions. (Basis: BAAQMD Regulation 1-401)
2. APCO approved sampling ports and access platforms shall be provided downstream of each baghouse. (Basis: BAAQMD Regulation 1-501)
- 3a. The permit holder shall operate and maintain a continuous emission monitoring system to quantify:
 1. the concentration of sulfur dioxide inside each kiln's exhaust stack, and
 2. the flowrate of combustion products from each exhaust stack, and
 3. the mass emission rate of sulfur dioxide from each exhaust stack into the atmosphere.(Basis: BAAQMD Regulations 1-521 and 522; 40 CFR 64.3)
- 3b. The permit holder shall use gas flow meters to record the flow of natural gas to the kilns and pyroscrubbers. (Basis: Regulation 2-6-503)
- 3c. The permit holder shall obtain the measurements required by part 3a at least 4 times in every clock hour at all times that the S-1 and/or S-2 are operating and obtain an hourly measurement of sulfur dioxide concentration and sulfur dioxide mass emissions, except for periods of monitoring malfunctions, associated repairs, and required quality assurance or control activities as allowed by 40 CFR 64.7(c). (Basis: 40 CFR 64.3(b)(4)(ii))
- 3d. The permit holder shall monitor the bypass stack by noting decreases in the concentration and flow at the SO₂ CEM at the main stack. Bypassing of the control devices is considered to be a violation. (Basis: 40 CFR 64.3(a))
4. The continuous emission monitoring system shall meet the requirements of the Manual of Procedures, Volume V, Continuous Emission Monitoring Policy and Procedures (Basis: BAAQMD Regulation 1-522)
5. The owner/operator shall ensure that SO₂ emissions from S-2 do not exceed 749.32 tons in any consecutive 12-month period. (Basis: BAAQMD Regulation 2-2-303; Offsets)

VI. Permit Conditions

6. Deleted Application 17331.
7. In order to demonstrate compliance with parts 3, 4, and 5 of this condition, 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 part 3 of this condition.
 - b. the mass emission rate of sulfur dioxide from each exhaust stack into the atmosphere, as prescribed in part 3 of this condition.
 - 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. Annual sulfur dioxide emission rate in tons at S-2 to ensure compliance with part 5 of this condition.
 - i. Hourly flow rate of combustion products(basis: BAAQMD Regulations 1-441, 2-2-303; Offsets; 40 CFR 64)
- *8. The permit holder shall keep the Baghouses, A-10 and A-11 in good operating condition. (basis: BAAQMD Regulations 6-1-301, 6-1-310, 6-1-310.3, 6-1-311; SIP Regulations 6-301, 6-310, 6-310.3, 6-311)
9. All particulate matter emissions from S-1 and S-2 shall be routed to the baghouses A-10 and A-11, respectively. (basis: BAAQMD Regulations 6-1-301, 6-1-310, 6-1-310.3, 6-1-311; SIP Regulations 6-301, 6-310, 6-310.3, 6-311)
- *10. The owner/operator shall ensure that PM10 emissions from S-2 do not exceed 46.10 tons in any consecutive 12-month period. The emissions shall be calculated assuming that S-2 operates normally for 21.5 hours per day and soot blowing and/or baghouse cleaning occurs for 2.5 hours per day. Normal operating emissions shall be estimated using the emissions from the most recent Condition 136, Part 12b, source test. Soot blowing/baghouse cleaning emissions shall be based on an emission rate of 1.412 lb PM10 per ton of coke processed. (Basis: CEQA)
11. The permit holder shall maintain District approved manometers or other District approved devices that measure the pressure drop across each module of each baghouse, A-10 and A-11. The pressure drop shall be maintained between 1.0 and 10.0 inches of

VI. Permit Conditions

water gauge unless the module is isolated from flow during cleaning, bag replacement or other maintenance. During these times, a pressure drop below 1.0 inch of water gauge is allowed. If the pressure drop of a module is below 1.0 inch of water gauge and it is not isolated from flow, the permit holder shall record the pressure drop in a log and take corrective action. (basis: BAAQMD Regulation 2-6-409.2)

12. The manometers or devices shall be operational at all times that the above sources are operated. The pressure drop across the baghouses shall be 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: BAAQMD Regulations 2-6-409.2 and 2-6-501)
13. a. Visible particulate emissions from S-1 and S-2 shall be monitored and recorded on a daily basis using EPA Method 22 and these visible particulate emissions records 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: BAAQMD Regulations 6-1-301, 2-6-501; 40 CFR 64.3(b)4(iii))
 - 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 6-1-310, 6-1-310.3 and 6-1-311. 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: BAAQMD Regulation 2-6-501)
 - *c. The owner/operator of S1 and S2 shall conduct an annual District-approved source test at S2 in order to demonstrate compliance with part 10 of this condition. 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: CEQA)
 - d. The owner/operator shall determine that a reading of any visible emissions during the daily visible particulate monitoring performed pursuant to part 13a of this condition is an excursion as defined by 40 CFR 64.1 for the following standards:
 - BAAQMD Regulation 6-1-310
 - BAAQMD Regulation 6-1-310.3
 - BAAQMD Regulation 6-1-311
 - SIP Regulation 6-310
 - SIP Regulation 6-310.3
 - SIP Regulation 6-311(40 CFR 64.6(c)(2))
 - e. The owner/operator shall report any excursions determined in accordance with

VI. Permit Conditions

BAAQMD Condition 136, parts 13a and 13d on the semi-annual monitoring report required by Standard Condition I.F of the Major Facility Review permit. (40 CFR 64.9(a)(2))

- f. The owner/operator shall submit a Quality Improvement Plan in accordance with 40 CFR 64.8 if the owner/operator determines that there have been more than 9 excursions (5% of daily readings) in any monitoring report period. (40 CFR 64.8)
14. 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: BAAQMD Regulation 2-6-501)
15. 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 S-2 burner: 5.00 million therms
Natural gas usage at the A-2 burner: 2.6 million therms
Calcined petroleum coke produced: 262,800 tons
(basis: BAAQMD Regulation 2-1-234.3)
16. 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: BAAQMD Regulation 1-441)
- *17. The permit holder shall maintain records of the annual PM10 emission rate in tons at S-2 to ensure compliance with part 10 of this condition. (basis: CEQA)
18. The permit holder shall make available to the APCO, upon request, any records relating to hourly or daily fuel usage or coke throughput.
(basis: BAAQMD Regulation 1-441)

VI. Permit Conditions

19. The Phillips 66 Carbon Plant shall not calcine any coke from the Santa Maria refinery.
[Offsets, CEQA]

Condition #3752

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

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. Total annual 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 part 2 of this condition, the permit holder shall keep records of the natural 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)

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 part 1 of this condition 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)

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**

VI. Permit Conditions

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 exhaust 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:
 - The Permit Holder demonstrates that there is no idle plant time during which the maintenance could be effectively performed.
 - S-26 is abated by A-3.
(Basis: Cumulative Increase)
3. In order to demonstrate compliance with the parts 1 and 2 of this condition, 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. A maintenance record for A-3 and A-4 to include the duration and status of S-26 for each maintenance occurrence
(Basis: Reg 1-441, cumulative increase)
4. The pressure drop across baghouse A-4 shall not be less than 0.5 inches of water nor exceed 5 inches of water. (basis: Regulation 2-6-409.2)
5. After installation of the manometer or devices, the manometer or device shall be operational at all times that the above sources are operated. The pressure drop across the baghouses shall be 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 2-6-409.2 and 2-6-501)
6. Visible particulate emissions from S-5, S-16, S-22, and S-26 shall be monitored quarterly using a District approved 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

VI. Permit Conditions

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-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)

VI. Permit Conditions

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 K-2, 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)
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:
 - The Permit Holder demonstrates that there is no idle plant time during which the maintenance could be effectively performed.
 - S-27 is abated by A-3.
(Basis: Cumulative Increase)
3. In order to demonstrate compliance with the parts 1 and 2 of this condition, 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. A maintenance record for A-3 and A-4 to include the duration and status of S-27 for each maintenance occurrence
(Basis: Reg 1-441, cumulative increase)
4. The pressure drop across baghouse A-4 shall not be less than 0.5 inches of water nor exceed 5 inches of water. (basis: Regulation 2-6-409.2)
5. After installation of the manometer or devices, the manometer or device shall be operational at all times that the above sources are operated. The pressure drop across the baghouses shall be 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 2-6-409.2 and 2-6-501)
6. Visible particulate emissions from S-5, S-17, S-22 and S-27 shall be monitored quarterly using a District approved method (Manual of Procedures, Volume I,

VI. Permit Conditions

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 6-1-301, SIP 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)

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. A-3 baghouse may be disconnected for routine maintenance while S-6 is operating provided that S-6 is abated by the A-4 baghouse. (basis: Regulation 6-301, 6-310, 6-311)
3. The pressure drop across baghouse A-3 shall not be less than 1 inches of water nor exceed 5.5 inches of water. (basis: Regulation 2-6-409.2)

VI. Permit Conditions

4. After installation of the manometers or devices, the manometer or device shall be operational at all times that the above sources are operated. The pressure drop across the baghouses shall be 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 2-6-409.2, 2-6-501)
5. Visible particulate emissions from S-6 shall be monitored quarterly using a 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 6-1-301, SIP 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)
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 a 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 6-1-301, SIP Regulation 6-301, Regulation 2-6-

VI. Permit Conditions

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:
 - a. Monthly petroleum coke throughput per source
 - b. Total petroleum coke throughput per source for the preceding 12 months(basis: Regulation 1-441)
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 #17820

For: S-41 K-1 Sodium Carbonate Storage Silo and S-42 K-2 Sodium Carbonate Storage Silo

1. Emissions of PM10, as defined in Regulation 2, Rule 1, shall not exceed 0.02 grains per dry standard cubic foot. (basis: Reasonably Available Control Technology)
2. Should a source test be performed to demonstrate compliance with part 1 of this condition, the source testing options are listed below. The purpose of these conditions is to provide an option for a less costly TSP test to demonstrate compliance with a PM10 limit. If TSP exceeds the PM10 limit, however, additional PM10 testing is required. (basis: Regulation 2-1-403)
 - a. Conduct PM10 and Total Suspended Particulate (TSP) source tests simultaneously to determine the source PM10 emissions and establish the PM10 mass fraction of TSP emissions.
 - b. Conduct a TSP source test. If TSP source test results exceed the PM10 limit in part 1, conduct a PM10 source test per part 3b, or conduct the PM10 mass fraction testing specified in part 3c. The additional testing shall be performed within 45 days of the initial TSP test.
 - c. Conduct a PM10 source test.

VI. Permit Conditions

The test results shall be delivered to the District no later than 30 days from the date of sampling.

3. Particulate matter emissions will be determined by the following source test procedures. (basis: Regulation 2-1-403)
 - a. Emissions of TSP will be determined in accordance with California Air Resources Board (CARB) Method 5, USEPA Method 5, BAAQMD ST-15, or District-approved equivalent method.
 - b. Emissions of PM10 will be determined in accordance with USEPA Method 201/201A or District-approved equivalent.
 - c. Emissions of PM10 and establishment of the PM10 mass fraction of TSP will be determined by conducting a PM10 source test simultaneously with a TSP source test.
4. This part shall apply when the PM10 mass fraction of source TSP has not been determined. Otherwise, part 5 shall apply. Subsequent TSP source test results shall not exceed the PM10 limit in part 1 of these conditions. TSP source test results exceeding part 1 shall trigger establishing the PM10 mass fraction by the procedures prescribed in part 3c. (basis: Regulation 2-1-403)
5. Once the PM10 mass fraction of source TSP has been established, compliance with the PM10 emission limit of part 1 may be demonstrated by calculating PM10, based on results of subsequent TSP source tests. Calculated PM10 emissions shall not exceed the limit in part 1. The calculation equation is: (TSP, source test result, in grains per dry standard cubic feet) x (mass fraction of PM10 of source TSP, grains PM10/grains TSP). (basis: Regulation 2-1-403)
- *6. The Permit Holder shall keep the A-41 and A-42 Vent Filters in good operating condition. (basis: Regulation 6-1-301, SIP Regulation 6-301)
7. Particulate matter emissions from S-41 and S-42 shall be routed to the A-41 Vent Filter and A-42 Vent Filter, respectively. (basis: Regulation 6-1-301, 6-1-310, 6-1-311, SIP Regulation 6-301, 6-310, 6-311)
8. Deleted
9. Deleted
10. Visible particulate emissions from S-41 and S-42 shall each be monitored at least annually using a District approved method (Manual of Procedures, Volume I, Evaluation of Visible Emissions), and shall be retained on site for a minimum period of

VI. Permit Conditions

five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 6-1-301, SIP Regulation 6-301, Regulation 2-6-501)

11. If any visible emissions (VE) are observed during the monitoring required by Part 10 of this condition, corrective action is required prior to further loading. Corrective action means that VE is eliminated before the next loading event. The permit holder shall maintain records of Vent Filter maintenance. 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 2-6-409.2 and 2-6-501)
12. Sorbent throughput shall not exceed 2,628 tons per source in any consecutive 12-month period. (basis: Regulation 2-1-234)
13. The permit holder shall maintain the following records for the limit listed in part 12:
 - a. Monthly sorbent throughput
 - b. Total sorbent throughput for the preceding 12 months(basis: Regulation 1-441)

Condition #19758

For: **S-32, S-33, Internal Combustion Engines**

1. The sulfur content of the fuel shall be certified by the fuel oil vendor. The owner/operator shall maintain records of the fuel sulfur content for at least 5 years and shall make the records available to District staff upon request. [Regulation 2-6-409.2]

Condition #20666

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

1. The OPW EVR Phase I Vapor Recovery System, including all associated plumbing and components, shall be operated and maintained in accordance with the most recent version of California Air Resources Board (CARB) Executive Order VR-102. Section 41954(f) of the California Health and Safety Code prohibits the sale, offering for sale, or installation of any vapor control system unless the system has been certified by the state board. (basis: Regulation 8-7-301.2)
2. The owner or operator shall conduct and pass a Rotatable Adaptor Torque Test (CARB Test Procedure TP201.1B) and either a Drop Tube/Drain Valve Assembly Leak Test (TP201.1C) or, if operating drop tube overflow prevention devices ("flapper valves"), a Drop Tube Overflow Prevention Device and Spill Container Drain Valve Leak Test (TP201.1D) at least once in each 36-month period. Measured leak rates of each

VI. Permit Conditions

component shall not exceed the levels specified in VR-102. Results shall be submitted to BAAQMD within 15 days of the test date in a District-approved format. (basis: Regulation 8-7-301.2)

Condition 22970

A. CFEP Project Mass Emission Limits

1. Following are the sources that are subject to Condition 22970, parts A2, A4, and A.5:

S45, Heater (U246 B-801 A/B)

S434, U246 High Pressure Reactor Train (Cracking)

S1010, U235 Sulfur Recovery Unit

[Cumulative increase, PSD]

2. The owner/operator shall ensure that the annual emissions of the above sources do not exceed the following annual emission limits, including startup, shutdown, malfunction, and upset emissions.

- | | |
|-----------------------|--|
| a. NOx | 13.5 tpy [Cumulative increase] |
| b. SO2 | 34.4 tpy [Cumulative increase] |
| c. PM10 | 2.5 tpy [Cumulative increase, PSD] |
| d. POC | 1.9 tpy [Cumulative increase] |
| e. CO | 40.72 tpy [Cumulative increase] |
| f. Sulfuric acid mist | 6.01 tpy [PSD] |
| *g. Ammonia | 6.35 tpy [BAAQMD Regulation 2, Rule 5] |

3. The owner/operator shall ensure that the daily emissions of the CFEP, including source S2 at Facility B7419, do not exceed the following daily emission limit, including startup, shutdown, malfunction, and upset emissions.

- | | |
|-----------------------|-----------------|
| a. Sulfuric acid mist | 38 lb/day [PSD] |
|-----------------------|-----------------|

4. The owner/operator shall determine whether the emissions are below the allowable emissions in Part A.2, as shown below. The owner/operator shall calculate and report the emissions of NOX, SO2, PM10, POC, CO, and sulfuric acid mist on an annual basis in the following manner.

- a. For Source S45, Heater
- Use the mass emissions data generated by the NOx CEM at S45.
 - Use the emissions rates determined by semi-annual source tests for CO at S45.
 - Use the emissions rates determined by initial source test for POC, PM10, and sulfuric acid mist at S45.
 - *Use the emissions rates determined by initial source test for ammonia at S45.
 - Use the sulfur analysis of fuel required by Condition 22862, part 11 at

VI. Permit Conditions

S45.

[Cumulative increase, PSD, BAAQMD Regulation 2, Rule 5]

- b. For Source S1010, Sulfur Recovery Unit
 - i. Use the mass emissions data generated by the SO₂ and CO CEMs at S1010.
 - ii. Use the emissions rates determined by annual source tests for NO_x and sulfuric acid mist at S1010.
 - iii. *Use the emissions rates determined by annual source test for ammonia at S1010.
 - iv. Use the emissions rates determined by initial source test for POC and PM₁₀ at S1010.

[Cumulative increase, PSD, BAAQMD Regulation 2, Rule 5]

- c. For the refinery flare S296
 - i. Calculate any emissions caused by venting the contents of any part of the sulfur recovery unit including S1010, A48, and A424 to the refinery flare.
 - ii. Calculate any emissions caused by venting the contents of any part of S434 to a refinery flare.
 - iii. The owner/operator shall calculate any emissions caused by venting the feed to Facility B7419, sources S1 or S2 to the refinery flare.

[Cumulative increase, PSD, BAAQMD Regulation 2, Rule 5]

- 5. If the annual emissions, as determined in part 4, are above the allowable emissions in part A.2, the owner/operator shall supply additional offsets, where applicable, and perform additional analysis for PSD, if necessary. The results of the analysis shall be submitted to the Director of Compliance and Enforcement on an annual basis on the anniversary of the startup of S1010 or S434, whichever is earlier. [Offset, PSD]
- 6. The annual emissions of the following sources shall not exceed 16.3 tons PM₁₀/yr: S45, S434, and S1010 at Facility A0016, and S2 and S3 at Facility B7419. If the emissions exceed 16.3 tons per year, the owners/operators of Facilities A0016 and B7419 shall provide contemporaneous offsets of PM₁₀ that comply with BAAQMD Regulations 2-2-201 and 2-2-605. The owners/operators shall use the following data to calculate the annual PM₁₀ emissions:
 - a. The emissions rate of PM₁₀ determined by the initial source tests at S45 and S1010 at Facility A0016
 - b. The emissions rate of PM₁₀ determined by the initial source test at S2 at Facility B7419
 - c. The emissions rate of PM₁₀ calculated for venting the contents of any part of S434 to a refinery flare
 - d. The emissions rate of PM₁₀ calculated for venting the contents of any part of S1010, A48, and A424 to a refinery flare
 - e. The emissions rate of PM₁₀ calculated for operation of S3, Hydrogen Plant Flare, at Facility B7419

The results of the analysis shall be submitted to the Director of Compliance and Enforcement

VI. Permit Conditions

on an annual basis on the anniversary of the startup of S1010 or S434 at Facility A0016 or S2 at Facility B7419, whichever is earlier. [1-104, 2-2-304]

B. Contemporaneous Offset Conditions

1. The owner/operator shall submit an offset report to the Director of Compliance and Enforcement and the Manager of Permit Evaluation at the end of every quarter after the initial date of startup of any of the new CFEP sources below. The report shall contain the detail of banked and contemporaneous offsets provided for each source to show compliance with the provision in BAAQMD Regulation 2-2-410 that offsets must commence no later than the initial operation of a new source or within 90 days after initial operation of a modified source. After all of the offsets required are provided, the owner/operator may submit the final report, even if all of the sources in the CFEP project are not built.

New CFEP Sources

Plant B7419, S1, Hydrogen Plant
Plant B7419, S2, Hydrogen Plant Furnace
Plant B7419, S3, Hydrogen Plant Flare
Plant A0016, S45, Heater
Plant A0016, S434, U246 High Pressure Reactor Train
Plant A0016, S1010, U235 Sulfur Recovery Unit

Contemporaneous Offset Sources

Plant A0016, S1007, Dissolved Air Flotation Unit (DAF)
Plant A0016, S8, Unit 240 B-1
Plant A0016, S352 – S357, Steam Power Plant Gas Turbines and HRSGs
Plant A0022, S2, Kiln K-2
[2-1-403, 2-2-410]

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.

This section is only a summary of the limits and monitoring requirements. In the case of a conflict with any requirement in Sections I-VI, the preceding sections take precedence over Section VII.

**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	BAAQMD 6-1-301	N		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #136, part 13a	P/D	Visible emission monitoring
Opacity	SIP 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #136, part 13a	P/D	Visible emission monitoring
Opacity	BAAQMD 6-1-301	N		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #136, parts 11 and 12	P/W	Pressure drop monitoring
Opacity	SIP 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #136, parts 11 and 12	P/W	Pressure drop monitoring
Opacity	BAAQMD 6-1-301	N		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #136, part 14	P/A	Annual baghouse inspection

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
Opacity	SIP 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #136, part 14	P/A	Annual baghouse inspection
FP	BAAQMD 6-1-310	N		0.15 gr/dscf	BAAQMD Cond. #136, part 13a	P/D	Visible emission monitoring
FP	SIP 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #136, part 13a	P/D	Visible emission monitoring
FP	BAAQMD 6-1-310	N		0.15 gr/dscf	BAAQMD Cond. #136, parts 11 and 12	P/W	Pressure drop monitoring
FP	SIP 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #136, parts 11 and 12	P/W	Pressure drop monitoring
FP	BAAQMD 6-1-310	N		0.15 gr/dscf	BAAQMD Cond. #136, part 14	P/A	Annual baghouse inspection
FP	SIP 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #136, part 14	P/A	Annual baghouse inspection
FP	BAAQMD 6-1-310	N		0.15 gr/dscf	BAAQMD Cond. #136, part 13b	P/A	Source test
FP	SIP 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #136, part 13b	P/A	Source test
FP	BAAQMD 6-1-310.3	N		0.15 gr/dscf @ 6% oxygen by volume	BAAQMD Cond. #136, part 13a	P/D	Visible emission 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	SIP 6-310.3	Y		0.15 gr/dscf @ 6% oxygen by volume	BAAQMD Cond. #136, part 13a	P/D	Visible emission monitoring
FP	BAAQMD 6-1-310.3	N		0.15 gr/dscf @ 6% oxygen by volume	BAAQMD Cond. #136, parts 11 and 12	P/W	Pressure drop monitoring
FP	SIP 6-310.3	Y		0.15 gr/dscf @ 6% oxygen by volume	BAAQMD Cond. #136, parts 11 and 12	P/W	Pressure drop monitoring
FP	BAAQMD 6-1-310.3	N		0.15 gr/dscf @ 6% oxygen by volume	BAAQMD Cond. #136, part 14	P/A	Annual baghouse inspection
FP	SIP 6-310.3	Y		0.15 gr/dscf @ 6% oxygen by volume	BAAQMD Cond. #136, part 14	P/A	Annual baghouse inspection
FP	BAAQMD 6-1-310.3	N		0.15 gr/dscf @ 6% oxygen by volume	BAAQMD Cond. #136, part 13b	P/A	Source test
FP	SIP 6-310.3	Y		0.15 gr/dscf @ 6% oxygen by volume	BAAQMD Cond. #136, part 13b	P/A	Source test
FP	BAAQMD 6-1-311	N		4.10P ^{0.67} lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr; maximum 40 lb/hr	BAAQMD Cond. #136, part 13a	P/D	Visible emission monitoring
FP	SIP 6-311	Y		4.10P ^{0.67} lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr; maximum 40 lb/hr	BAAQMD Cond. #136, part 13a	P/D	Visible emission 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 6-1-311	N		$4.10P^{0.67}$ lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr; maximum 40 lb/hr	BAAQMD Cond. #136, parts 11 and 12	P/W	Pressure drop monitoring
FP	SIP 6-311	Y		$4.10P^{0.67}$ lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr; maximum 40 lb/hr	BAAQMD Cond. #136, parts 11 and 12	P/W	Pressure drop monitoring
FP	BAAQMD 6-1-311	N		$4.10P^{0.67}$ lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr; maximum 40 lb/hr	BAAQMD Cond. #136, part 14	P/A	Annual baghouse inspection
FP	SIP 6-311	Y		$4.10P^{0.67}$ lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr; maximum 40 lb/hr	BAAQMD Cond. #136, part 14	P/A	Annual baghouse inspection
FP	BAAQMD 6-1-311	N		$4.10P^{0.67}$ lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr; maximum 40 lb/hr	BAAQMD Cond. #136, part 13b	P/A	Source test
FP	SIP 6-311	Y		$4.10P^{0.67}$ lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr; maximum 40 lb/hr	BAAQMD Cond. #136, part 13b	P/A	Source test
FP	BAAQMD Cond. #136, parts 11 and 12	Y		Pressure drop at the baghouse shall be maintained between 1.0 and 10.0 inches of water gauge except during cleaning and maintenance	BAAQMD Cond. #136, parts 11 and 12	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
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
SO2	9-1-310.2	Y		400 ppm by volume, averaged over one hour or 113 kg per hour, whichever is most restrictive	BAAQMD Cond. #136, part 3	C	CEM
Calcined coke through-put	BAAQMD Cond. #136, part 15a	Y		262,800 tons/yr	BAAQMD Cond. #136, part 16d	P/M/A	Record keeping
Fuel usage	BAAQMD Cond. #136, part 15a	Y		5.25 million therms/yr for S-1 and 2.6 million therms/yr for A-1	BAAQMD Cond. #136, parts 16a and c	P/M/A	Record keeping

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
Opacity	BAAQMD 6-1-301	N		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond #136, part 13a	P/D	Visible emission monitoring
Opacity	SIP 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond #136, part 13a	P/Q	Visible emission monitoring
Opacity	BAAQMD 6-1-301	N		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #136, parts 11 and 12	P/W	Pressure drop monitoring
Opacity	SIP 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #136, parts 11 and 12	P/W	Pressure drop monitoring
Opacity	BAAQMD 6-1-301	N		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #136, part 14	P/A	Annual baghouse inspection
Opacity	SIP 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #136, part 14	P/A	Annual baghouse inspection
FP	BAAQMD 6-1-310	N		0.15 gr/dscf	BAAQMD Cond. #136, part 13a	P/D	Visible emission monitoring
FP	SIP 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #136, part 13a	P/D	Visible emission monitoring
FP	BAAQMD 6-1-310	N		0.15 gr/dscf	BAAQMD Cond. #136, parts 11 and 12	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
FP	SIP 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #136, parts 11 and 12	P/W	Pressure drop monitoring
FP	BAAQMD 6-1-310	N		0.15 gr/dscf	BAAQMD Cond. #136, part 14	P/A	Annual baghouse inspection
FP	SIP 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #136, part 14	P/A	Annual baghouse inspection
FP	BAAQMD 6-1-310	N		0.15 gr/dscf	BAAQMD Cond. #136, part 13b	P/A	Source test
FP	SIP 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #136, part 13b	P/A	Source test
FP	BAAQMD 6-1-310.3	N		0.15 gr/dscf @ 6% oxygen by volume	BAAQMD Cond. #136, part 13a	P/D	Visible emission monitoring
FP	SIP 6-310.3	Y		0.15 gr/dscf @ 6% oxygen by volume	BAAQMD Cond. #136, part 13a	P/D	Visible emission monitoring
FP	BAAQMD 6-1-310.3	N		0.15 gr/dscf @ 6% oxygen by volume	BAAQMD Cond. #136, parts 11 and 12	P/W	Pressure drop monitoring
FP	SIP 6-310.3	Y		0.15 gr/dscf @ 6% oxygen by volume	BAAQMD Cond. #136, parts 11 and 12	P/W	Pressure drop monitoring
FP	BAAQMD 6-1-310.3	N		0.15 gr/dscf @ 6% oxygen by volume	BAAQMD Cond. #136, part 13b	P/A	Source test

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
FP	SIP 6-310.3	Y		0.15 gr/dscf @ 6% oxygen by volume	BAAQMD Cond. #136, part 13b	P/A	Source test
FP	BAAQMD 6-1-310.3	N		0.15 gr/dscf @ 6% oxygen by volume	BAAQMD Cond. #136, part 14	P/A	Annual baghouse inspection
FP	SIP 6-310.3	Y		0.15 gr/dscf @ 6% oxygen by volume	BAAQMD Cond. #136, part 14	P/A	Annual baghouse inspection
FP	BAAQMD 6-1-311	N		$4.10P^{0.67}$ lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr; maximum 40 lb/hr	BAAQMD Cond. #136, part 13a	P/D	Visible emission monitoring
FP	SIP 6-311	Y		$4.10P^{0.67}$ lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr; maximum 40 lb/hr	BAAQMD Cond. #136, part 13a	P/D	Visible emission monitoring
FP	BAAQMD 6-1-311	N		$4.10P^{0.67}$ lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr; maximum 40 lb/hr	BAAQMD Cond. #136, parts 11 and 12	P/W	Pressure drop monitoring
FP	SIP 6-311	Y		$4.10P^{0.67}$ lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr; maximum 40 lb/hr	BAAQMD Cond. #136, parts 11 and 12	P/W	Pressure drop monitoring
FP	BAAQMD 6-1-311	N		$4.10P^{0.67}$ lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr; maximum 40 lb/hr	BAAQMD Cond. #136, part 14	P/A	Annual baghouse inspection
FP	SIP 6-311	Y		$4.10P^{0.67}$ lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr; maximum 40 lb/hr	BAAQMD Cond. #136, part 14	P/A	Annual baghouse inspection

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
FP	BAAQMD 6-1-311	N		4.10P ^{0.67} lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr; maximum 40 lb/hr	BAAQMD Cond. #136, part 13b	P/A	Source test
FP	SIP 6-311	Y		4.10P ^{0.67} lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr; maximum 40 lb/hr	BAAQMD Cond. #136, part 13b	P/A	Source test
FP	BAAQMD Cond. #136, parts 11 and 12	Y		Pressure drop at the baghouse shall be maintained between 1.0 and 10.0 inches of water gauge except during cleaning and maintenance	BAAQMD Cond. #136, parts 11 and 12	P/W	Pressure drop monitoring
PM10	BAAQMD Cond. #136, part 10	N		46.10 tons in any 12-month period	BAAQMD Cond. #136, part 13b	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
SO2	9-1-310.2	Y		400 ppm by volume, averaged over one hour or 113 kg per hour, whichever is most restrictive	BAAQMD Cond. #136, part 3	C	CEM
SO2	BAAQMD Cond. #136, part 5	Y		749.32 tons in any 12-month period	BAAQMD Cond. #136, part 3	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
Calcined coke through-put	BAAQMD Cond. #136, part 15b	Y		262,800 tons/yr	BAAQMD Cond. #136, part 16d	P/M	Record keeping
Fuel usage	BAAQMD Cond. #136, part 15b	Y		5.00 million therms/yr for S-2 and 2.6 million therms/yr for A-2	BAAQMD Cond. #136, parts 16a and c	P/M	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-2	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	BAAQMD 6-1-301	N		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond #10438, part 6	P/Q	Visible emission monitoring
Opacity	SIP 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond #10438, part 6	P/Q	Visible emission monitoring
Opacity	BAAQMD 6-1-301	N		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #10438, part 4 and 5	P/W	Pressure drop monitoring
Opacity	SIP 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #10438, part 4 and 5	P/W	Pressure drop monitoring
	BAAQMD 6-1-301	N		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #10438, part 7	P/A	Annual baghouse inspection
	SIP 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #10438, part 7	P/A	Annual baghouse inspection
	BAAQMD 6-1-301	N		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond #10439, part 6	P/Q	Visible emission monitoring
	SIP 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond #10439, part 6	P/Q	Visible emission monitoring
	BAAQMD 6-1-301	N		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #10439, part 4 and 5	P/W	Pressure drop monitoring
	SIP 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #10439, part 4 and 5	P/W	Pressure drop monitoring

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
	BAAQMD 6-1-301	N		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #10439, part 7	P/A	Annual baghouse inspection
	SIP 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #10439, part 7	P/A	Annual baghouse inspection
FP	BAAQMD 6-1-310	N		0.15 gr/dscf	BAAQMD Cond. #10438, part 4 and 5	P/W	Pressure drop monitoring
	SIP 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #10438, part 4 and 5	P/W	Pressure drop monitoring
	BAAQMD 6-1-310	N		0.15 gr/dscf	BAAQMD Cond. #10438, part 7	P/A	Annual baghouse inspection
	SIP 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #10438, part 7	P/A	Annual baghouse inspection
	BAAQMD 6-1-310	N		0.15 gr/dscf	BAAQMD Cond. #10439, part 4 and 5	P/W	Pressure drop monitoring
	SIP 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #10439, part 4 and 5	P/W	Pressure drop monitoring
	BAAQMD 6-1-310	N		0.15 gr/dscf	BAAQMD Cond. #10439, part 7	P/A	Annual baghouse inspection
	SIP 6-310	Y		0.15 gr/dscf	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
FP	BAAQMD 6-1-311	N		$4.10P^{0.67}$ 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
	SIP 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 6-1-311	N		$4.10P^{0.67}$ 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
	SIP 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
	BAAQMD 6-1-311	N		$4.10P^{0.67}$ 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
	SIP 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
	BAAQMD 6-1-311	N		$4.10P^{0.67}$ 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
	SIP 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
Petroleum coke through-put	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 through-put	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

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
Opacity	BAAQMD 6-1-301	N		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond #17539, part 5	P/Q	Visible emission monitoring
Opacity	SIP 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond #17539, part 5	P/Q	Visible emission monitoring
	BAAQMD 6-1-301	N		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #17539, part 3 and 4	P/W	Pressure drop monitoring
	SIP 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #17539, part 3 and 4	P/W	Pressure drop monitoring
	BAAQMD 6-1-301	N		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #17539, part 6	P/A	Annual baghouse inspection
	SIP 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #17539, part 6	P/A	Annual baghouse inspection
FP	BAAQMD 6-1-310	N		0.15 gr/dscf	BAAQMD Cond. #17539, part 3 and 4	P/W	Pressure drop monitoring
	SIP 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #17539, part 3 and 4	P/W	Pressure drop monitoring
	BAAQMD 6-1-310	N		0.15 gr/dscf	BAAQMD Cond. #17539, part 6	P/A	Annual baghouse inspection
	SIP 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #17539, part 6	P/A	Annual baghouse inspection

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 6-1-311	N		$4.10P^{0.67}$ 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
	SIP 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. #17539, part 3 and 4	P/W	Pressure drop monitoring
	BAAQMD 6-1-311	N		$4.10P^{0.67}$ 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
	SIP 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. #17539, part 6	P/A	Annual baghouse inspection
Petroleum coke through-put	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 6-1-301	N		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Condition #17540, part 1	P/Q	Visible emission monitoring
Opacity	SIP 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 6-1-301	N		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond #10438, part 6	P/Q	Visible emission monitoring
	SIP 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond #10438, part 6	P/Q	Visible emission monitoring
	BAAQMD 6-1-301	N		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
	SIP 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #10438, part 4 and 5	P/W	Pressure drop monitoring
	BAAQMD 6-1-301	N		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #10438, part 7	P/A	Annual baghouse inspection
	SIP 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #10438, part 7	P/A	Annual baghouse inspection
FP	BAAQMD 6-1-310	N		0.15 gr/dscf	BAAQMD Cond. #10438, part 4 and 5	P/W	Pressure drop monitoring
	SIP 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #10438, part 4 and 5	P/W	Pressure drop monitoring
	BAAQMD 6-1-310	N		0.15 gr/dscf	BAAQMD Cond. #10438, part 7	P/A	Annual baghouse inspection
	SIP 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #10438, part 7	P/A	Annual baghouse inspection
	BAAQMD 6-1-311	N		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

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
	SIP 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 6-1-311	N		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
	SIP 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 6-1-301	N		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond #10439, part 6	P/Q	Visible emission monitoring
Opacity	SIP 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond #10439, part 6	P/Q	Visible emission monitoring
Opacity	BAAQMD 6-1-301	N		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #10439, part 4 and 5	P/W	Pressure drop monitoring
Opacity	SIP 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #10439, part 4 and 5	P/W	Pressure drop monitoring
	BAAQMD 6-1-301	N		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #10439, part 7	P/A	Annual baghouse inspection
	SIP 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Cond. #10439, part 7	P/A	Annual baghouse inspection
FP	BAAQMD 6-1-310	N		0.15 gr/dscf	BAAQMD Cond. #10439, part 4 and 5	P/W	Pressure drop monitoring
	SIP 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #10439, part 4 and 5	P/W	Pressure drop monitoring

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
	BAAQMD 6-1-310	N		0.15 gr/dscf	BAAQMD Cond. #10439, part 7	P/A	Annual baghouse inspection
	SIP 6-310	Y		0.15 gr/dscf	BAAQMD Cond. #10439, part 7	P/A	Annual baghouse inspection
	BAAQMD 6-1-311	N		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
	SIP 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
	BAAQMD 6-1-311	N		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
	SIP 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
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

VII. Applicable Limits and Compliance Monitoring Requirements

**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 Regulation 8-7-407	P/A	Source Test
	BAAQMD Condition #8749, Part 1	Y		60,000 gallons per year annual throughput	BAAQMD Condition #8749, Part 2	P/A	Records
	BAAQMD Condition #20666, Part 2	Y		Limited leakage	BAAQMD Condition #20666, Part 2	P/3A	Source Test

**Table VII - I
 Applicable Limits and Compliance Monitoring Requirements
 S-32 Internal Combustion Engine, Detroit Diesel 3-71, 87 hp and
 S-33 Internal Combustion Engine, Detroit Diesel 3-71, 87 hp**

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 6-1-303	N		Ringelmann 2.0 for < 3 minutes/hr		N	
	SIP 6-303	Y		Ringelmann 2.0 for < 3 minutes/hr		N	
FP	BAAQMD 6-1-310	N		0.15 gr/dscf		N	
	SIP 6-310	Y		0.15 gr/dscf		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - I
Applicable Limits and Compliance Monitoring Requirements
S-32 Internal Combustion Engine, Detroit Diesel 3-71, 87 hp and
S-33 Internal Combustion Engine, Detroit Diesel 3-71, 87 hp

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	CCR, Title 17, Section 93115 ATCM for Stationary Compression Ignition Engines 93115.7(b) Emission Standards In Use Prime Engines	N		85% Reduction from Baseline Level, or 0.01 g/bhp-hr	93115.10(b) Demonstration of Compliance with Emission Limits	N	
SO2	BAAQMD 9-1-304	Y		Sulfur content of fuel <0.5% by weight	BAAQMD Condition 19758, part 1	P/E	Fuel certification by vendor

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - J
Applicable Limits and Compliance Monitoring Requirements
S-41 K-1 Sodium Carbonate Storage Silo and
S-42 K-2 Sodium Carbonate Storage Silo

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 6-1-301	N		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Condition #17820, part 10	P/Q	Visible emission monitoring
	SIP 6-301	Y		Ringelmann 1.0 for < 3 minutes/hr	BAAQMD Condition #17820, part 10	P/Q	Visible emission monitoring
FP	BAAQMD 6-1-310	N		0.15 gr/dscf	BAAQMD Condition #17820, part 10	P/A	Visible emission monitoring
	SIP 6-310	Y		0.15 gr/dscf	BAAQMD Condition #17820, part 10	P/A	Visible emission monitoring
	BAAQMD 6-1-311	N		$4.10P^{0.67}$ lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr	BAAQMD Condition #17820, part 10	P/A	Visible emission monitoring
	SIP 6-311	Y		$4.10P^{0.67}$ lb/hr but not to exceed 40 lb/hr, where P is process weight, ton/hr	BAAQMD Condition #17820, part 10	P/A	Visible emission monitoring

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**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 6-1-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions, EPA Method 9, or as specified by Condition 136 part 13a EPA Method 22.
SIP 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions, EPA Method 9, or as specified by Condition 136 part 13a EPA Method 22.
BAAQMD 6-1-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling, or EPA Method 5
SIP 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling, or EPA Method 5
BAAQMD 6-1-310.3	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling, or EPA Method 5
SIP 6-310.3	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling, or EPA Method 5
BAAQMD 6-1-311	General Operations	Manual of Procedures, Volume IV, ST-15, Particulates Sampling, or EPA Method 5
SIP 6-311	General Operations	Manual of Procedures, Volume IV, ST-15, Particulates Sampling, or EPA Method 5
BAAQMD 8-7-301.6	Limited Leakage	Manual of Procedures, Volume IV, ST-30, Static Pressure Integrity Test, Underground Storage Tanks, or CARB Test Procedure TP-201.3
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

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Condition #136, Part 6	Sulfuric acid mist testing	EPA Method 8, or EPA Method 5/8
BAAQMD Condition #136, Part 10	Annual PM10 limit	EPA Method 201A, Determination of PM10 Emissions, plus EPA Method 202, Determination of Condensable Particulate Emissions from Stationary Sources
BAAQMD Condition #136, Part 13	Visible Emissions Monitoring	Manual of Procedures, Volume I, Evaluation of Visible Emissions, or EPA Method 9
BAAQMD Condition #17820, Part 3	Determination of PM10 Emissions	EPA Method 201A, Determination of PM10 Emissions, plus EPA Method 202, Determination of Condensable Particulate Emissions from Stationary Sources
BAAQMD Condition #20666, Part 2	Limited Leakage	CARB Test Procedure TP-201.1B and TP-201.1C or TP-201.1D
CCR, Title 17, Section 93115 ATCM for Stationary Compression Ignition Engines 93115.7(b) Emission Standards In Use Prime Engines	Diesel PM Emissions	<p>Diesel PM emission testing shall be done in accordance with one of the following methods:</p> <p>(A) California Air Resources Board Method 5 (ARB Method 5), "Determination of Particulate Matter Emissions from Stationary Sources," as amended July 28, 1997, which is incorporated herein by reference.</p> <p>1. For purposes of this subsection, diesel PM shall be measured only by the probe catch and filter catch and shall not include PM captured in the impinger catch or solvent extract.</p> <p>2. The tests are to be carried out under steady state operation. Test cycles and loads shall be in accordance with ISO-8178 Part 4 or alternative test cycle approved by the District APCO.</p> <p>3. The District APCO may require additional engine or operational duty cycle data if an alternative test cycle is requested; or</p> <p>(B) International Organization for Standardization (ISO) 8178 Test procedures: ISO 8178-1:1996(E) ("ISO 8178 Part 1") ISO 8178-2: 1996(E) ("ISO 8178 Part 2"); and ISO 8178-4:1996(E) ("ISO 8178 Part 4"), which are incorporated herein by reference; or</p> <p>(C) Title 13, California Code of Regulations, section 2423, "Exhaust Emission Standards and Test Procedures - Off-Road Compression Ignition Engines," which is incorporated herein by reference.</p>

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
CCR, Title 17, Section 93115 ATCM for Stationary Compression Ignition Engines 93115.7(b) Emission Standards In Use Prime Engines	NO _x , CO, and HC emissions testing	NO _x , CO and HC emission testing shall be done in accordance with one of the following methods: (A) California Air Resources Board Method 100 (ARB Method 100), "Procedures for Continuous Gaseous Emission Stack Sampling," as amended July 28, 1997, which is incorporated herein by reference. 1. Tests using ARB Method 100 shall be carried out under steady state operation. Test cycles and loads shall be in accordance with ISO-8178 Part 4 or alternative test cycle approved by the District APCO. 2. The District APCO may require additional engine or operational duty cycle data if an alternative test cycle is requested; or (B) International Organization for Standardization (ISO) 8178 Test procedures: ISO 8178-1:1996(E) ("ISO 8178 Part 1") ISO 8178-2: 1996(E) ("ISO 8178 Part 2"); and ISO 8178-4:1996(E) ("ISO 8178 Part 4"), which are incorporated herein by reference; or (C) Title 13, California Code of Regulations, section 2423, "Exhaust Emission Standards and Test Procedures - Off-Road Compression Ignition Engines," which is incorporated herein by reference.
CCR, Title 17, Section 93115 ATCM for Stationary Compression Ignition Engines 93115.7(b) Emission Standards In Use Prime Engines	NMHC emissions testing (if necessary)	NMHC emission testing shall be done in accordance with one of the following methods: (A) International Organization for Standardization (ISO) 8178 Test procedures: ISO 8178-1:1996(E) ("ISO 8178 Part 1") ISO 8178-2:1996(E) ("ISO 8178 Part 2"); and ISO 8178-4:1996(E) ("ISO 8178 Part 4"), which are incorporated herein by reference; or (B) Title 13, California Code of Regulations, section 2423, "Exhaust Emission Standards and Test Procedures - Off-Road Compression Ignition Engines," which is incorporated herein by reference.

IX. PERMIT SHIELD

Not applicable

X. REVISION HISTORY

Initial Issuance (Application 25817)	July 31, 2002
Significant Revision (Application 17331):	June 18, 2009
Renewal (Application 15619) and Significant Revision (Application 8389)	April 30, 2012
<ul style="list-style-type: none">• Add pressure drop ranges, which were provided by Permit Holder, to Table IIB for baghouses and to Permit Conditions #10438, Part 4; #10439, Part 4; #17539, Part 3• Change A-41 and A-42 description from baghouse to vent filter in Tables IIB and IV-J, and Permit Condition #17820, Parts 6 and 7• Change Permit Condition #136, Part 12b to apply limits to S2 and A2 rather than S1 and A1, which are already limited by Part 12a• Change Permit Condition #3752, Part 3, to apply to natural gas rather than fuel gas• Add back sentence that had been inadvertently deleted in Permit Condition #17539, Part 2 and add S-6 to sources abated by A-4 in Table IIB• Delete Parts 8 and 9 of Permit Condition #17820 and all references to those parts and the measurement of pressure drops across A-41 and A-42 in Tables IIB, IV-J, and VII-J• Change visible emission monitoring in Permit Condition #17820, Part 10, to annually from quarterly.• Revise Permit Condition #17820, Part 11 by deleting annual baghouse inspection and adding corrective action requirement and maintenance log requirement. Revise Tables IV-J and VII-J accordingly.• Update Table IV-H to show that Regulation 8, Rule 7 amended 11/6/02 is both the current and SIP-approved rule and apply section of rule for Underground Storage Tank rather than section of rule that had erroneously been applied for an Aboveground Storage Tank.• Delete Permit Conditions #701 and #17571 and add Permit Condition #20666 for Enhanced Vapor Recovery Phase I upgrade. Revise Tables IV-H and VII-H accordingly.• Condition 10438 part 6, 10439 part 6, 17539 part 5, 17540 part 1, and 17820 part 10 have been reworded to require a District approved method for visible emissions monitoring. EPA method 9 has been added to these conditions as a District	

X. Revision History

approved method for visible emissions monitoring. This is a minor revision to the permit.

- Change Table VIII to replace the above ground storage tank test method with a test method for an underground storage tank plus a CARB test procedure. Table VIII was updated to allow the use of EPA Method 9 for visible emissions, EPA Method 5 for TSP, and EPA 201A/202 for PM10. Table VIII was updated to include ATCM approved source test methods for testing of S-32 and S-33.
- Add CARB test procedures to Table VIII for enhanced vapor recovery Phase I
- Correct description of one of the sources for Permit Condition #10439 in Section VI from S-17 Rotary Cooler K1 to S-17 Rotary Cooler K-2.

Administrative Amendment (Application 24531):

September 6, 2012

XI. 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

The federal Environmental Protection Agency.

Excluded

Not subject to any District Regulations.

XI. Glossary

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_x

Oxides of nitrogen.

XI. Glossary

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, NO_x, 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.

SO₂

Sulfur dioxide

Title V

Title V of the federal Clean Air Act. Requires a federally enforceable operating permit

XI. Glossary

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 ²	=	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