Bay Area Air Quality Management District

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

FinalProposed

MAJOR FACILITY REVIEW PERMIT

Issued To: General Chemical Corporation Facility #A0023

Facility Address:

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Mailing Address:

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Responsible Official

Facility Contact

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Type of Facility: Sulfuric Acid Production BAAQMD Engineering Division Contact:

Primary SIC: 2819 Jimmy Cheng

Product: Sulfuric Acid

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

TABLE OF CONTENTS

1.	STANDARD CONDITIONS	1
II.	EQUIPMENT-LIST	6
	A. PERMITTED SOURCE LIST	<u>66</u> 6
	B. ABATEMENT DEVICE LIST	<u>88</u> 8
III.	GENERALLY APPLICABLE REQUIREMENTS	11
IV.	SOURCE-SPECIFIC APPLICABLE REQUIREMENTS	15
V.	SCHEDULE OF COMPLIANCE	39
VI.	PERMIT CONDITIONS	40
	A. SOURCE SPECIFIC PERMIT CONDITIONS	<u>3838</u> 40
	B. FACILITY WIDE PERMIT CONDITIONS	<u>4747</u> 53
VII.	PERMIT SHIELD	<u>6464</u> 72
VII I .	APPLICABLE EMISSION LIMITS & COMPLIANCE MONITORING REQUIREMENTS	54
IX <u>VIII</u> .	TEST METHODS	70
IX.	PERMIT SHIELD	72
X.	REVISION HISTORY	74
X <u>I</u> .	GLOSSARY	75
XI.	APPENDIX A - STATE IMPLEMENTATION PLAN	<u>747482</u>

I. STANDARD CONDITIONS

A. Administrative Requirements

The permit holder shall comply with all applicable requirements in the following regulations: BAAQMD Regulation 1 - General Provisions and Definitions (as amended by the District Board on 11/3/937/9/08); SIP Regulation 1 - General Provisions and Definitions (as approved by EPA through $\frac{11}{10/82}\frac{6}{28/99}$); BAAQMD Regulation 2, Rule 1 - Permits, General Requirements (as amended by the District Board on $\frac{6}{7}$ /953/4/09); SIP Regulation 2, Rule 1 - Permits, General Requirements (as approved by EPA through $\frac{6}{23}\frac{951}{26}$); BAAQMD Regulation 2, Rule 2 - Permits, New Source Review (as amended by the District Board on $\frac{6}{7}$ /95 $\frac{6}{15}$ /05); SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration (as approved by EPA through 10/19/841/26/99); and BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking (as amended by the District Board on 6/15/94<u>1/26/99</u>12/21/04); SIP Regulation 2, Rule 4 - Permits, Emissions Banking (as approved by EPA through 1/26/99); BAAOMD Regulation 2, Rule 5 – New Source Review of Toxic Air Contaminants (as amended by the District Board on 1/6/10); 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)

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

- 1. This Major Facility Review Permit was issued on [] and expires on []. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than [], and no earlier than []. If a complete application for renewal has not been submitted in accordance with these deadlines, the facility may not operate after []. If the permit renewal has not been issued by [], 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

I. Standard Conditions (continued)

denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)

- 3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term 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 reissuance, or termination, or of 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, nor<u>or</u> any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
- 7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
- 8. Any records required to be maintained pursuant to this permit which the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District's Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
- 9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B Public Information, Confidentiality of Business Information. (40 CFR Part 2)
- 10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions or the potential to emit for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)
- 11 The responsible official shall certify all documents submitted by the facility pursuant to the major facility review permit. The certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. The certifications shall be signed by a responsible official for the facility. (Regulation 2-6-409.20, MOP Volume II, Part 3, §4.11)

I. **Standard Conditions (continued)**

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)

C. Requirement to Pay Fees

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

D. Inspection and Entry

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

E. Records

- 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 entrycreation of the record. (Regulation 2-6-501, Regulation 3; MOP Volume II, Part 3, §4.7)

F. Monitoring Reports

All required monitoring reports must be submitted to the District at least once every six months. 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 to the District's Compliance and Enforcement Division within 10 days of the discovery of the incident. Within 30 days of the discovery of any incident of noncompliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. (Regulation 2-6-502, Regulation 3; MOP Volume II, Part 3, §4.7)

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 submitted for the following periods: July 1st through December 31st and January 1st through June 30th, 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 Com	oliance and Enforcement
Bay Area Air Qu	ality Management District
939 Ellis Street	
San Francisco, C	A 94109

I. **Standard Conditions (continued)**

Attn: Title V Reports

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

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be July 1st tothrough June 30th. The 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 shall be sent to the Environmental Protection Agency at the following address:

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

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

H. Emergency Provisions

- 1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)
- The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit eaused by conditions beyond the permit holder's reasonable control 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. Any variance granted by the Hearing Board from any term or condition of this permit which lasts longer than 90 days will be subject to EPA approval. (MOP Volume II, Part 3, §4.8)
- 3. Notwithstanding the foregoing, 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 unless the Major Facility Review Permit has been modified pursuant to Regulation 2, Rule 6. 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.

I. Standard Conditions (continued)

(MOP Volume II, Part 3, §4.8)

I. Severability

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

J. Miscellaneous Conditions

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

JK. Accidental Release

This facility is subject to 40 CFR Part 68, Chemical Accident Prevention Provisions. The permit holder shall submit a risk management plan (RMP) by the date specified in §68.10. The permit holder shall also certify compliance with the requirements of Part 68 as part of the annual compliance certification, as required by Regulation 2, Rule 6. (40 CFR Part 68, Regulation 2, Rule 6)

EQUIPMENT-LIST II.

Permitted Source List

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2-1-302.

Table II-A 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	Sulfuric Acid Manufacturing Plant	Unknown	none	219,000 ton/yr
S-2	Sulfuric Acid Storage Tank #10	Unknown	none	440 tons
S-3	Alkylation Acid Storage Tank #12 (0.5 psia max. true vapor pressure)	Unknown	none	63,000 gallons
S-5	Sulfuric Acid Storage Tank #9	Unknown	none	210 tons
S-6	Sulfur Storage Tank	Unknown	none	250 tons
S-7	Sulfur Melting Pit	Cement-lined- underground pit	none	20 tons
S-8	New Sulfur Melting Pit	steel-lined underground pit	none	80 tons
S-9	Process Air Heater (refinery make gas, natural gas)	Direct-fired	none	15 MM BTU/hr
S-10	Alkylation Acid Storage Tank #11 (0.5 psia max. true vapor pressure)	Unknown	none	126,000 gallons
S-11	Sulfuric Acid Storage Tank #5	Unknown	none	105 tons
S-13	Alkylation Acid Storage Tank #16 (0.5 psia max. true vapor pressure)	Unknown	none	263,000 gallons
S-14	Gasoline Dispensing Facility (GDF #6363)	Unknown	none	Unknown1,000 gal tank 1 gasoline nozzle
S-15	Startup Air Heater (natural gas)	indirect-fired	none	16.6 MM BTU/hr
S-16	Alkylation Acid Storage Tank #13	unknown	none	66,000 gallons

I. **Equipment List-(continued)**

Table II-A 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
<u>-</u> S-17	Railcar Loading/Unloading	Durco	Mark III	200 gpm
	Station (Sulfuric/Alkylation			
	Acid)			
S-18	Truck Unloading Station	Durco	Mark III	200 gpm
	(Alkylation Acid)			
S-20	West Truck Loading/Unloading	Durco	Mark III	200 gpm
	Station (Sulfuric Acid)			
S-22	Sulfur Unloading Station	unknown (gravity feed)	none	17 ton/hr
S-24	Electronic Grade Sulfuric Acid	unknown	none	15,000 ton/yr
	Manufacturing Process			
	(integrated with S-1)			
S-28	Sulfuric Acid Storage Tank #1	unknown	unknown	72,000 gallons
S-29	Sulfuric Acid Storage Tank #2	unknown	unknown	72,000 gallons
S-30	Sulfuric Acid Storage Tank #4	unknown	unknown	15,546 gallons
S-31	Sulfuric Acid Storage Tank #7	unknown	unknown	15,546 gallons
S-32	Alkylation Acid / Sulfuric Acid	unknown	unknown	210,000 gallons
	Storage Tank #14			
<u>S-34</u>	Caustic Pump Diesel Engine	<u>Deutz</u>	BF4M1011	81 bhp; 178 in ³
			<u>F</u>	<u>0.575 MM BTU/hr</u>
<u>S-36</u>	Natural Gas -Fired IC Engine	Caterpillar	G3516B	1971 bhp;
			<u>LE</u>	13.7 MM BTU/hr

Equipment List-(continued) I.

B. Abatement Device List

Table II-B <u>- Abatement Devices</u>

		Source(s)	Applicable	Operating	
A- #	Description	Controlled	Requirement	Parameters	Required Efficiency
A-1	Sulfur Dioxide	A-2	S-1, S-24:	none	<u>9-1-309:</u> limit SO ₂
	Abatement System		BAAQMD		emissions to no more
	("Dual Absorption"		<u>6-1-320</u>		than 300 ppm @
	process)		9-1-309		12% O ₂
			<u>12-6-301</u>		6-1-320 and 6-320:
					limit SO ₃ and
			SIP		H2SO4 emissions to
			<u>6-320</u>		less than 0.04
					grain/dscf
					12-6-301: limit acid
					mist emissions to no
					more than 0.15 gram
					per kilogram
					(0.3 lb/ton) of acid
					<u>produced</u>
			S-24:		None
			Condition #13507,		
			part 2		
A-2	Mist Eliminator	S-1, <u>S-16,</u> S-24	S-1, S-24:	None	none6-320: limit
			6-320, 12-6-301		SO3 and H2SO4
					emissions to less than
					0.04 grain/dsef
					12-6-301: limit acid
					mist emissions to no-
					more than 0.15 gram
					per kilogram
					(0.3 lb/ton) of acid
					produced
			S-24:		none
			Condition #13507,		
			part 2		

I. Equipment List (continued)

 ${\bf Table~II-B} \underline{{\bf -Abatement~Devices}}$

		Source(s)	Applicable	Operating	
A- #	Description	Controlled	Requirement	Parameters	Required Efficiency
<u>A-4</u>	Acid Storage Back-	<u>S-3, S-10,</u>	BAAQMD	<u>VOC</u>	<u>Limit hydrocarbon</u>
	Up Vent Activated	<u>S-13,</u>	<u>Condition #13215,</u>	concen-	emissions to 0.37
	Carbon Beds	<u>S-16, S-17, S-</u>	part 2	tration at	<u>lb/hour</u>
		<u>18, S-32</u>		<u>outlet</u>	
			<u>BAAQMD</u>		
			Condition #19267,		
			<u>part 6</u>		
<u>A-5</u>	Acid Storage Back-	<u>A-4</u>	<u>BAAQMD</u>	Minimum	<u>Limit SO₂ emissions</u>
	Up Vent Packed		Condition #19267,	<u>pH of 8.5</u>	to 10 pppmv; limit
	Tower Caustic		part 5		H ₂ SO ₄ emissions to 5
	<u>Scrubber</u>				<u>ppmv</u>
			BAAQMD		<u>Limit SO₂ emissions</u>
			Condition #19267,		to 0.09 lb/hr; limit
			<u>part 6</u>		<u>H₂SO₄ emissions to</u>
					<u>0.014 lb/hr</u>
<u>A-6</u>	Emergency Caustic	<u>S-1</u>	<u>BAAQMD</u>	In operation	<u>Limit SO₂ emissions</u>
	Scrubber System		Condition #20580,	whenever	to 51 ppmv; limit
			part 2	SO ₂ less	$\underline{\text{H}_2\text{SO}_4 \text{ emissions to}}$
				than or	0.3 lb/ton of acid
				equal to 51	<u>produced</u>
				ppmv and	
				H ₂ SO ₄ is	
				less than or	
				equal to 0.3	
				<u>lb/ton of</u>	
				acid_	
				produced	
			BAAQMD	In operation	Limit SO ₃ and/or
			Condition #20580,	whenever	H ₂ SO ₄ emissions to
			part 3	SO ₃ and/or	0.04 grain/dscf
				<u>H₂SO₄ is</u>	
				less than or	
				equal to	
				<u>0.04 grains</u>	
				per dscf of	
				exhaust gas	

I. **Equipment List-(continued)**

Table II-B <u>- Abatement Devices</u>

		Source(s)	Applicable	Operating	
A- #	Description	Controlled	Requirement	Parameters	Required Efficiency
<u>A-33</u>	SCR Emission	<u>S-36</u>	BAAQMD	In operation	<u>None</u>
	Control System		Condition #20509,	whenever S-	
			part 2	<u>36 is</u>	
				<u>operated</u>	
<u>S-1</u>	Sulfuric Acid	<u>S-3, S-10, S-</u>			<u>None</u>
	Manufacturing Plant	13, S-16, S-24,			
		<u>S-32</u>			

Table II-C – Significant Sources

The following source is exempt from the requirement to obtain an authority to construct and permit to operate, but is defined as a significant source pursuant to BAAQMD Regulation 2-6-239.

<u>S-#</u>	<u>Description</u>	Make or Type	Model	Capacity
<u>S-19</u>	East Loading/Unloading Station	Durco	Mark III	<u>200 gpm</u>
	(Sulfuric Acid)			
<u>S-21</u>	South Loading/Unloading	<u>Durco</u>	Mark III	<u>200 gpm</u>
	Station			
<u>S-35</u>	T-303, Sulfuric Acid Storage	unknown	unknown	<u>7,500 gallons</u>
	<u>Tank</u>			

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 wouldwill 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. This section also contains provisions that may apply to temporary sources.

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

- BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board of Directors
- 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

Where an applicable requirement is a SIP requirement, the full language of the SIP requirement is included in Appendix A 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=Ba v+Area+Air+Qualitv+Management+District-Agency-Wide+Provisions.

NOTE:

There are differences between the current BAAQMD rules and the versions of the rules in the SIP. All sources must comply with both versions of a rule until US EPA has reviewed and approved the District's revision of the regulation.

Table III Generally Applicable Requirements

		Federally Enforce_
Applicable	Regulation Title or	able
Requirement	Description of Requirement	(Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (7/9/08/11/3/93)	N
SIP Regulation 1	General Provisions and Definitions (6/28/9911/10/82)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (3/4/09)	<u>N</u>

Final Permit for Facility #: A0023 Expiration Date: 7-01-02

III. Generally Applicable Requirements (continued)

<u>Table III</u> <u>Generally Applicable Requirements</u>

		Federally Enforce_
Applicable	Regulation Title or	able
Requirement	Description of Requirement	(Y/N)
SIP Regulation 2, Rule 1	General Requirements (1/26/99)	<u>Y</u>
BAAQMD 2-1-429	Federal Emissions Statement (12/21/04)	<u>N</u>
SIP Regulation 2-1-429	Federal Emissions Statement (4/3/95)	<u>Y</u>
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 (<u>7/9/08</u> 11/2/94)	N
SIP Regulation 5	Open Burning (<u>9/4/98</u> <u>5/3/84</u>)	Y
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements (12/5/07)	<u>N</u>
BAAQMD-SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/9812/19/90)	<u>N</u> <u>Y</u>
SIP Regulation 6	Particulate Matter and Visible Emissions (6/16/83)	¥
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 2	Organic Compounds – Miscellaneous Operations (7/20/05)	<u>N</u>
SIP Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations	Y
	(3/22/95)	N
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (11/21/0112/20/95)	11
SIP Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (1/2/0411/16/83)	Y
BAAQMD Regulation 8, Rule 4	Organic compounds - General Solvent and Surface Coating Operations (10/16/02)	Y
BAAQMD Regulation 8, Rule 15	Organic Compounds – Emulsified and Liquid Asphalts (6/1/94)	Y
BAAQMD Regulation 8, Rule 40	Organic Compounds - Aeration of Contaminated Soil and Removal of Underground Storage Tanks	<u>N</u>
SIP Regulation 8, Rule 40	(6/15/05) Organic Compounds - Aeration of Contaminated Soil and Removal of Underground Storage Tanks (4/19/01)	Y
BAAQMD Regulation 8, Rule 47	Organic Compounds - Air Stripping and Soil Vapor Extraction Operations (6/15/05)	<u>N</u>

Final Permit for Facility #: A0023 Expiration Date: 7-01-02

III. Generally Applicable Requirements (continued)

<u>Table III</u> <u>Generally Applicable Requirements</u>

		Federally Enforce_
Applicable	Regulation Title or	able
Requirement	Description of Requirement	(Y/N)
SIP Regulation 8, Rule 47	Organic Compounds - Air Stripping and Soil Vapor	<u>Y</u>
	Extraction Operations (4/26/95)	
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products	N
	(12/20/95)	
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products	Y
	(3/22/95)	
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products	N
	(12/20/95 <u>7/17/02</u>)	
SIP Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products	<u>Y</u>
	(2/26/02)	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide	N
	(3/15/95)	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide	<u>Y</u>
	<u>(5/20/92)</u>	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide	¥
	(5/3/84)	
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition,	<u>¥N</u>
	Renovation and Manufacturing (10/7/9812/4/91)	
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance -	N
	Sandblasting (7/11/90)	
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance -	Y
	Sandblasting (9/2/81)	
California Health and Safety Code	Portable Equipment	<u>N</u>
Section 41750 et seq.		
California Health and Safety Code	Air Toxics "Hot Spots" Information and Assessment	<u>N</u>
Section 44300 et seq.	Act of 1987	
California Health and Safety Code	Airborne Toxic Control Measure for Stationary	<u>N</u>
<u>Title 17, Section 93115</u>	Compression Ignition Engines	
California Health and Safety Code	Airborne Toxic Control Measure for Diesel	<u>N</u>
<u>Title 17, Section 93116</u>	Particulate Matter from Portable Engines Rated at 50	
	Horsepower and Greater	
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air	<u>Y</u>
	Pollutants – National Emission Standard for Asbestos	
	(7/20/04)	

Final Permit for Facility #: A0023 Expiration Date: 7-01-02

III. Generally Applicable Requirements (continued)

<u>Table III</u> <u>Generally Applicable Requirements</u>

		Federally Enforce_
Applicable	Regulation Title or	able
Requirement	Description of Requirement	(Y/N)
EPA Regulation 40 CFR 82	Protection of Stratospheric Ozone (4/13/05)	
Subpart F, 40 CFR 82.156	<u>Leak Repair</u>	<u>Y</u>
Subpart F, 40 CFR 82.161	Certification of Technicians	<u>Y</u>
Subpart F, 40 CFR 82.166	Records of Refrigerant	<u>Y</u>

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

found in the regulations themselves.

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

- 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. Additionally, where an applicable requirement is a SIP requirement, the full language of the SIP requirement is included in Appendix A 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

Table IV-A <u>Source-specific Applicable Requirements</u> S-1 SULFURIC ACID MANUFACTURING PROCESS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (3/3/937/9/08)		
1-520	Continuous Emission Monitoring	Y	
1-520.3	SO ₂ from Sulfuric Acid Plants	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Requirements	¥	
1-522.1	Plans and Specifications	Y	
1-522.2	Installation Scheduling	Y	
1-522.3	Performance Testing	Y	
1-522.4	Periods of Non-operation Greater Than 24 Hours	Y	
1-522.5	Calibration	Y	
1-522.6	Accuracy	Y	

IV. Source-Specific Applicable Requirements—(continued)

Table IV-A <u>Source-specific Applicable Requirements</u> S-1 SULFURIC ACID MANUFACTURING PROCESS

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
1-522.7	Excesses	<u>¥N</u>	
1-522.8	Monthly Reports	Y	
1-522.9	Records	Y	
<u>1-523</u>	Parametric Monitoring and Recordkeeping Procedures		
<u>1-523.1</u>	Periods of Non-operation Greater Than 24 Hours	<u>Y</u>	
<u>1-523.2</u>	Periods of Non-operation Exceeding 15 Days	<u>Y</u>	
<u>1-523.3</u>	Violations	<u>N</u>	
<u>1-523.4</u>	Records	<u>Y</u>	
<u>1-523.5</u>	Maintenance and Calibration	<u>N</u>	
1-602	Area and Continuous Emission Monitoring Requirements	<u>NY</u>	
SIP	General Provisions and Definitions (6/28/99)		
Regulation 1			
1-522.7	Excesses	<u>Y</u>	
1-523.3	Violations	<u>Y</u>	
1-523.5	Maintenance and Calibration	<u>Y</u>	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 1	General Provisions and Definitions (11/10/82)		
1-541	Emission Excesses	¥	
1-602	Area and Continuous Emission Monitoring Requirements	¥	
1-604	Opacity Measurements	¥	
BAAQMD	Particulate Matter, General Requirements and Visible Emissions		
Regulation 6.	(<u>12/5/0712/19/90</u>)		
Rule 1			
6- <u>1-</u> 301	Ringelmann Number 1 Limitation	N	
6- <u>1-</u> 305	Visible Particles	<u>¥N</u>	
6- <u>1-</u> 310	Particulate Weight Limitation	<u>¥N</u>	
6- <u>1-</u> 311	General Operations	<u>¥N</u>	
6- <u>1-</u> 320	Sulfuric Acid Manufacturing Plants	<u>¥N</u>	
6- <u>1-</u> 401	Appearance of Emissions	<u> </u>	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
<u>6-301</u>	Ringelmann No. 1 Limitation	<u>Y</u>	
6-305	Visible Particles	<u>Y</u>	

IV. Source-Specific Applicable Requirements—(continued)

Table IV-A **Source-specific Applicable Requirements** S-1 SULFURIC ACID MANUFACTURING PROCESS

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
6-310	Particulate Weight Limitation	<u>Y</u>	
6-311	General Operations	<u>Y</u>	
6-320	Sulfuric Acid Manufacturing Plants	<u>Y</u>	
6-401	Appearance of Emissions	<u>Y</u>	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 6	Particulate Matter and Visible Emissions (6/16/83)		
6-301	Ringelmann Number 1 Limitation (9/5/79)	\mathbf{Y}^{\downarrow}	
BAAQMD	Inorganic Gases - Sulfur Dioxide (3/15/95)		
Regulation 9,			
Rule 1			
9-1-301	Limitations on Ground Level Concentrations	<u>NY</u>	
9-1-309	Emission Limitations for Sulfuric Acid Plants	<u>NY</u>	
9-1-502	Emission Monitoring Requirements	<u>NY</u>	
9-1-601	Sampling and Analysis of Gas Streams	Y	
9-1-603	Averaging Times	Y	
9-1-604	Ground Level Monitoring	Y	
9-1-605	Emission Monitoring	Y	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 9,	Inorganic Gases - Sulfur Dioxide (5/3/84)		
Rule 1			
9-1-301	Limitations on Ground Level Concentrations	¥	
9-1-308.2	Emission Limitations for Sulfuric Acid Plants	¥	
9-1-502	Emission Monitoring Requirements	¥	
BAAQMD	Acid Mist from Sulfuric Acid Plants (12/6/78)	N	
Regulation			
12, Rule 6			
12-6-301	Acid Mist	N	
12-6-501	Production Rate and Hours of Operation	N	
12-6-601	Testing Procedures	N	

This section of the SIP rule has been removed from or revised in the current BAAQMD rule. Nevertheless, the source must comply with this SIP requirement until US EPA has reviewed and approved the District's revision of the regulation.

Final Permit for Facility #: A0023

Expiration Date: 7 01 02

IV. Source-Specific Applicable Requirements—(continued)

Table IV-A Source-specific Applicable Requirements S-1 SULFURIC ACID MANUFACTURING PROCESS

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
40 CFR,	Emissions Guidelines and Compliance Times for Sulfuric Acid	<u>Y</u>	
Part 60,	Production Units (12/19/95)		
Subpart Cd			
<u>Section</u>	Designated Facilities	<u>Y</u>	
<u>60.30d</u>			
<u>Section</u>	Emissions Guidelines	<u>Y</u>	
<u>60.31d</u>			
<u>Section</u>	Compliance Times	<u>Y</u>	
<u>60.32d</u>			
BAAQMD			
Cond #14980			
Part 1	Acid Mist/SO ₃ Annual Source Test (basis: 2-6-409.2, 2-6-501, 40)	Y	
	<u>CFR 60.31d)</u>		
Part 2	Maintenance of equipment (basis: cumulative increase)	<u>Y</u>	

Final Permit for Facility #: A0023 Expiration Date: 7 01 02

IV. Source-Specific Applicable Requirements—(continued)

Table IV-B Source-specific Applicable Requirements S-9 PROCESS AIR HEATER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Inorganic Gases - Sulfur Dioxide (3/15/95)		
Regulation 9,			
Rule 1			
9-1-301	Limitations on Ground Level Concentrations	NY	
9-1-302	General Emission Limitations	Y	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 9,	Inorganic Gaseous Pollutants - Sulfur Dioxide (5/3/84)		
Rule 1			
9-1-301	Limitations on Ground Level Concentrations	\mathbf{Y}^{1}	
BAAQMD	Inorganic Gaseous Pollutants - Hydrogen Sulfide		
Regulation 9,	(<u>10/6/993/17/82</u>)		
Rule 2			
9-2-301	Limitations on Hydrogen Sulfide	N	
9-2-501	Area Monitoring Requirements	N	
BAAQMD	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Industrial, Institutional, and Commercial		
Rule 7	Boilers, Steam Generators, and Process Heaters (7/30/08)		
<u>9-7-301</u>	Emission Limits - Gaseous Fuel	<u>N</u>	
<u>9-7-301.1</u>	Performance Standard, NOx	<u>N</u>	
<u>9-7-301.4</u>	Performance Standard, CO	<u>N</u>	
<u>9-7-403</u>	Initial Demonstration of Compliance	<u>N</u>	
9-7-503	Records	<u>N</u>	
<u>9-7-503.1</u>	§304.2 Records	<u>N</u>	
<u>9-7-503.2</u>	Records, Curtailment	<u>N</u>	
9-7-503.3	§306.3 Records	<u>N</u>	
<u>9-7-503.4</u>	§403 Records and Record Retention	<u>N</u>	
<u>9-7-601</u>	Determination of NOx	<u>N</u>	
9-7-602	Determination of CO and Stack-Gas O ₂	<u>N</u>	
<u>9-7-603</u>	Compliance Determination	<u>N</u>	
<u>9-7-605</u>	Determination of Higher Heating Value	<u>N</u>	
BAAQMD	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
SIP	Monoxide from Industrial, Institutional, and Commercial		
Regulation 9,	Boilers, Steam Generators, and Process Heaters		
Rule 7	(<u>12/15/97⁹/15/93</u>)		
9-7-301	Interim Emission Limits — Gaseous Fuel	<u>Y</u> N	
9-7-301.1	Performance Standard, NOx	<u>Y</u> N	

Final Permit for Facility #: A0023

Expiration Date: 7 01 02

IV. Source-Specific Applicable Requirements—(continued)

Table IV-B **Source-specific Applicable Requirements** S-9 PROCESS AIR HEATER

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
9-7-301.2	Performance Standard, CO	<u>Y</u> N	
9-7-403	Initial Compliance Demonstration	<u>Y</u> N	
9-7-502	Modified Maximum Heat Input	<u>Y</u> N	
9-7-503	Records	<u>Y</u> N	
9-7-503.1	§304.2 Records	<u>Y</u> N	
9-7-503.2	Records, Curtailment	<u>Y</u> N	
9-7-503.3	§306.3 Records	<u>Y</u> N	
9-7-503.4	§403 Records and Record Retention	<u>Y</u> N	
9-7-601	Determination of NOx	<u>Y</u> N	
9-7-602	Determination of CO and Stack-Gas O ₂	<u>Y</u> N	
9-7-603	Compliance Determination	<u>Y</u> N	
9-7-605	Determination of Higher Heating Value	<u>Y</u> N	
40 CFR 63	National Emission Standards for Hazardous Air Pollutants for		
Subpart B	Source Categories: General Provisions; and Requirements for		
	Control Technology Determinations for Major Sources in		
	Accordance with Clean Air Act Sections, Section 112(g) and		
	112(j); Final Rule		
63.52	Approved process for new and existing affected sources.	<u>Y</u>	
63.52(a)	Sources subject to section 112(j) as of the section 112(j) deadline	<u>Y</u>	
63.52(a)(1)	Submit an application for Title V permit revision	<u>Y</u>	
63.52(e)	Permit application review	<u>Y</u>	
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of	<u>Y</u>	
	63.53(b) for Combustion Turbines	_	
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Organic Liquids Distribution	<u>Y</u>	
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Site Remediation	Y	
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of	<u>Y</u>	
	63.53(b) for Process Heaters		

Final Permit for Facility #: A0023

Expiration Date: 7 01 02

IV. Source-Specific Applicable Requirements—(continued)

Table IV-B **Source-specific Applicable Requirements** S-9 PROCESS AIR HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Reciprocating Internal Combustion Engines	<u>Y</u>	
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Process Heaters (that burn hazardous waste)	<u>Y</u>	
63.52(h)	Enhanced monitoring	<u>Y</u>	
63.52(h)(i)	MACT emission limitations	<u>Y</u>	
63.52(h)(i)(1)	Compliance with all requirements applicable to affected sources, including compliance date for affected sources	<u>Y</u>	
63.53	Application content for case-by-case MACT determination	<u>Y</u>	
63.53(a)	Part 1 MACT application	<u>Y</u>	
63.53(b) 40 CFR 63	Part 2 MACT application National Emission Standards for Hazardous Air Pollutants for	<u>Y</u>	
Subpart DDDDD	Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters		
63.7540	Demonstration of Continuous Compliance with Work Practice Standards	<u>Y</u>	<u>3/21/2014</u>
63.7540(a)(1 0)	Work Practice Standards (for Annual Tune-Up)	<u>Y</u>	3/21/2014
63.7550	Reporting Requirements	Y	3/21/2014
<u>63.7550(b)</u>	Annual Compliance Report Requirement for Units Subject Only to a Requirement to Conduct an Annual Tune-Up	Y	3/21/2014
63.7555	Recordkeeping Requirements	<u>Y</u>	3/21/2014
63.7560	Record Retention Requirements	<u>Y</u>	3/21/2014
Table 3	Work Practice Standards (for One-Time Energy Assessment)	<u>Y</u>	3/21/2014

IV. Source-Specific Applicable Requirements—(continued)

Table IV-B **Source-specific Applicable Requirements** S-9 PROCESS AIR HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD			
Condition			
#7934			
part 1	Allowed Fuels Specified (basis: cumulative increase)	Y	
part 2	Annual Fuel Use Limit (basis: NOx offsets, cumulative increase)	Y	
part 3	Record Retention Requirement (basis: cumulative increase)	Y	

This section of the SIP rule has been removed from or revised in the current BAAQMD rule. Nevertheless, the source must comply with this SIP requirement until US EPA has reviewed and approved the District's revision of the regulation.

Table IV-C Source-specific Applicable Requirements S-13 ALKYLATION ACID STORAGE TANK #16

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD			
Condition			
#2051			
part 1	Abatement Requirement (basis: cumulative increase)	Y	

IV. Source-Specific Applicable Requirements—(continued)

Table IV-D Source-specific Applicable Requirements S-14 GASOLINE DISPENSING FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD- Regulation 8, Rule 7		(1/14)	Date
8-7-112	Phase II Exemptions	¥	
8-7-112.7	Exemption - Older Facilities with Low Annual Throughput	¥	
8-7-113	Tank Gauging and Inspection Exemption	¥	
8-7-114	Stationary Tank Testing Exemption	¥	
8-7-301	Phase I Requirements	¥	
8-7-301.1	Requirement for CARB Phase I System	¥	
8-7-301.2	Installation of Phase I Equipment per CARB Requirements	¥	
8-7-301.3	Submerged Fill Pipes	¥	
8-7-301.4	P-V Valves on All Open Vent Pipes	¥	
8-7-301.5	Maintenance of Phase I Equipment per Manufacturers Guidelines	¥	
8-7-301.6	Leak-Free, Vapor Tight	¥	
8-7-301.7	— Poppetted Drybreaks	¥	
8-7-301.10	Minimum vapor recovery rate prerequisite for modification	<u>¥</u>	
8-7-301.11	— CARB-Certified Spillbox	<u>¥</u>	
8-7-301.12	Permanently plugged drain valve	<u>¥</u>	
8-7-301.13	Annual Vapor tightness test	<u>¥</u>	
8-7-303	Topping Off	¥	
8-7-304	Certification Requirements	¥	
8-7-308	Operating Practices	¥	
8-7-312	Removal of Gasoline	¥	
8-7-401	Equipment Installation and Modification	¥	
8-7-404	Certification of New Installations	¥	
8-7-501	Burden of Proof	¥	
8-7-502	Right of Access	¥	
8-7-503.1	Record keeping Requirements	¥	
BAAQMD-	Annual Fuel Throughput Limit	¥	
Condition-	(basis: BAAQMD Regulation 8-7-112.7)		
#708, part 1			

IV. Source-Specific Applicable Requirements—(continued)

Table IV-<u>ED</u> Source-specific Applicable Requirements S-15 STARTUP AIR HEATER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Inorganic Gases - Sulfur Dioxide (3/15/95)		
Regulation 9,			
Rule 1			
9-1-301	Limitations on Ground Level Concentrations	<u>NY</u>	
9-1-302	General Emission Limitations	Y	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 9,	Inorganic Gaseous Pollutants - Sulfur Dioxide (5/3/84)		
Rule 1			
9-1-301	Limitations on Ground Level Concentrations	¥¹	
BAAQMD	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9,	Monoxide from Industrial, Institutional, and Commercial		
Rule 7	Boilers, Steam Generators, and Process Heaters (7/30/08)		
<u>9-7-301</u>	Emission Limits - Gaseous Fuel	<u>N</u>	
<u>9-7-301.1</u>	Performance Standard, NOx	<u>N</u>	
9-7-301.4	Performance Standard, CO	<u>N</u>	
9-7-403	Initial Demonstration of Compliance	<u>N</u>	
9-7-503	Records	<u>N</u>	
9-7-503.1	<u>§304.2 Records</u>	<u>N</u>	
9-7-503.2	Records, Curtailment	<u>N</u>	
<u>9-7-503.3</u>	§306.3 Records	<u>N</u>	
<u>9-7-503.4</u>	§403 Records and Record Retention	<u>N</u>	
<u>9-7-601</u>	<u>Determination of NOx</u>	<u>N</u>	
<u>9-7-602</u>	Determination of CO and Stack-Gas O ₂	<u>N</u>	
<u>9-7-603</u>	Compliance Determination	<u>N</u>	
9-7-605	Determination of Higher Heating Value	<u>N</u>	
BAAQMD	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
SIP	Monoxide from Industrial, Institutional, and Commercial		
Regulation 9,	Boilers, Steam Generators, and Process Heaters		
Rule 7	(9/15/93 <u>12/15/97</u>)		
9-7-301	Emission Limits - Gaseous Fuel	<u>Y</u> N	
9-7-301.1	Performance Standard, NOx	<u>Y</u> N	
9-7-301.2	Performance Standard, CO	<u>Y</u> N	

IV. Source-Specific Applicable Requirements—(continued)

Table IV-ED Source-specific Applicable Requirements S-15 STARTUP AIR HEATER

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
9-7-403	Initial Compliance Demonstration	<u>Y</u> N	
9-7-502	Modified Maximum Heat Input	YN	
9-7-503	Records	Y N	
9-7-503.1	§304.2 Records	<u>Y</u> N	
9-7-503.2	Records, Curtailment	<u>Y</u> N	
9-7-503.3	§306.3 Records	<u>Y</u> N	
9-7-503.4	§403 Records and Record Retention	<u>Y</u> N	
9-7-601	Determination of NOx	<u>Y</u> N	
9-7-602	Determination of CO and Stack-Gas O ₂	<u>Y</u> N	
9-7-603	Compliance Determination	<u>Y</u> N	
9-7-605	Determination of Higher Heating Value	<u>Y</u> N	
40 CFR 63	National Emission Standards for Hazardous Air Pollutants for		
Subpart B	Source Categories: General Provisions; and Requirements for		
Suppart B	Control Technology Determinations for Major Sources in		
	Accordance with Clean Air Act Sections, Section 112(g) and		
	112(j); Final Rule		
63.52	Approved process for new and existing affected sources.	<u>Y</u>	
63.52(a)	Sources subject to section 112(j) as of the section 112(j) deadline	<u>Y</u>	
63.52(a)(1)	Submit an application for Title V permit revision	<u>Y</u>	
63.52(e)	Permit application review	Y	
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of	<u>Y</u>	
	63.53(b) for Combustion Turbines		
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of	<u>Y</u>	
	63.53(b) for Organic Liquids Distribution		
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of	<u>Y</u>	
60.50(.)(1)	63.53(b) for Site Remediation	37	
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of	<u>Y</u>	
63 52(a)(1)	63.53(b) for Process Heaters Submit a Part 2 MACT application meeting the requirements of	V	
63.52(e)(1)	63.53(b) for Reciprocating Internal Combustion Engines	<u>Y</u>	
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of	<u>Y</u>	
00.02(0)(1)	63.53(b) for Process Heaters (that burn hazardous waste)		

IV. Source-Specific Applicable Requirements—(continued)

Table IV-ED Source-specific Applicable Requirements S-15 STARTUP AIR HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.52(h)	Enhanced monitoring	<u>Y</u>	Dute
63.52(h)(i)	MACT emission limitations	<u>Y</u>	
63.52(h)(i)(1)	Compliance with all requirements applicable to affected sources, including compliance date for affected sources	<u>Y</u>	
63.53	Application content for case-by-case MACT determination	<u>Y</u>	
63.53(a)	Part 1 MACT application	<u>Y</u>	
63.53(b)	Part 2 MACT application	<u>Y</u>	
40 CFR 63 Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters		
63.7540	Demonstration of Continuous Compliance with Work Practice Standards	<u>Y</u>	3/21/2014
63.7540(a)(1 0)	Work Practice Standards (for Annual Tune-Up)	Y	3/21/2014
63.7550	Reporting Requirements	<u>Y</u>	3/21/2014
63.7550(b)	Annual Compliance Report Requirement for Units Subject Only to a Requirement to Conduct an Annual Tune-Up	<u>Y</u>	3/21/2014
63.7555	Recordkeeping Requirements	<u>Y</u>	3/21/2014
63.7560	Record Retention Requirements	<u>Y</u>	3/21/2014
Table 3	Work Practice Standards (for One-Time Energy Assessment)	Y	3/21/2014
BAAQMD Condition #7606			
part 1	Allowed Fuels Specified; Annual Fuel Use Limit (basis: BACT NOx offsets, cumulative increase)	Y	
part 2	Annual Fuel Use Limit (basis: NOx offsets, cumulative increase)	<u>Y</u>	
part <u>3</u> 2	Exhaust NOx Concentration Limit (basis: NOx offsets, NOx BACT, cumulative increase)	Y	

IV. Source-Specific Applicable Requirements—(continued)

Table IV-ED Source-specific Applicable Requirements S-15 STARTUP AIR HEATER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
part <u>43</u>	Exhaust CO Concentration Limit (basis: CO BACT, cumulative	Y	
	increase)		
part <u>5</u> 4	Record Retention Requirement (basis: NOx offsets, cumulative	Y	
	increase)		

Table IV-FE Source-specific Applicable Requirements S-16 ALKYLATION ACID STORAGE TANK #13

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD			
Condition			
#13215			
part 1	Annual Throughput Limit (basis: cumulative increase)	Y	
part 2	Abatement Requirement (basis: cumulative increase)	Y	
part 3	Abatement Requirement (basis: cumulative increase)	Y	
part 4	Record Retention Requirement (basis: cumulative increase)	Y	

Table IV-GF Source-specific Applicable Requirements

S-17 RAILCAR LOADING/UNLOADING STATION (SULFURIC/ALKYLATION ACID)

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective

Final Permit for Facility #: A0023

Expiration Date: 7 01 02

IV. Source-Specific Applicable Requirements—(continued)

Requirement	Description of Requirement	(Y/N)	Date
BAAQMD			
Condition			
#12051			
part 1	Allowable Materials Specified (basis: cumulative increase)	Y	
part 2	Abatement Requirement (basis: cumulative increase)	Y	
part 3	Record Retention Requirement (basis: cumulative increase)	Y	

Table IV-HG Source-specific Applicable Requirements S-18 TRUCK UNLOADING STATION (ALKYLATION ACID)

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD			
Condition			
#12052			
part 1	Allowable Materials Specified (basis: cumulative increase)	Y	
part 2	Abatement Requirement (basis: cumulative increase)	Y	

IV. Source-Specific Applicable Requirements—(continued)

Table IV-I<u>H</u> <u>Source-specific Applicable Requirements</u> S-24 ELECTRONIC GRADE SULFURIC ACID MANUFACTURING PROCESS

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	General Provisions and Definitions (7/9/08)		
Regulation 1			
1-520	Continuous Emission Monitoring	Y	
1-520.3	SO ₂ from Sulfuric Acid Plants	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Requirements	¥	
1-522.1	Plans and Specifications	Y	
1-522.2	Installation Scheduling	Y	
1-522.3	Performance Testing	Y	
1-522.4	Periods of Inoperation Greater Than 24 Hours	Y	
1-522.5	Calibration	Y	
1-522.6	Accuracy	Y	
1-522.7	Excesses	<u>¥N</u>	
1-522.8	Monthly Reports	Y	
1-522.9	Records	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP	General Provisions and Definitions (6/28/99)		
Regulation 1			
1-522.7	Excesses	<u>Y</u>	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 1	General Provisions and Definitions (11/10/82)		
1-541	Emission Excesses	¥	
1-602	Area and Continuous Emission Monitoring Requirements	¥	
SIP 1-604	Opacity Measurements	¥	
BAAQMD	Particulate Matter, General Requirements and Visible Emissions		
Regulation 6	(<u>12/5/07</u> 12/19/90)		
Rule 1			
6- <u>1-</u> 301	Ringelmann Number 1 Limitation	N	
6- <u>1-</u> 305	Visible Particles	<u>N</u> ¥	
6- <u>1-</u> 310	Particulate Weight Limitation	 <u>N</u> ¥	
6- <u>1-</u> 311	General Operations	 <u>N</u> ¥	
6- <u>1-</u> 320	Sulfuric Acid Manufacturing Plants	 <u>N</u> ¥	
6- <u>1-</u> 401	Appearance of Emissions	 <u>NY</u>	

IV. Source-Specific Applicable Requirements—(continued)

Table IV-IH Source-specific Applicable Requirements

S-24 ELECTRONIC GRADE SULFURIC ACID MANUFACTURING PROCESS

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
SIP	Particulate Matter and Visible Emissions (9/4/98)	<u>Y</u>	
Regulation 6			
<u>6-301</u>	Ringelmann No. 1 Limitation	<u>Y</u>	
6-305	Visible Particles	<u>Y</u>	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-320	Sulfuric Acid Manufacturing Plants	<u>-</u> <u>Y</u>	
6-401	Appearance of Emissions	<u>-</u> Y	
SIP	PROVISIONS NO LONGER IN CURRENT RULE	_	
Regulation 6	Particulate Matter and Visible Emissions (6/16/83)		
6-301	Ringelmann Number 1 Limitation (9/5/79)	Y ¹	
BAAQMD	Inorganic Gases - Sulfur Dioxide (3/15/95)	_	
Regulation 9,	3 , 3		
Rule 1			
9-1-301	Limitations on Ground Level Concentrations	<u>Y</u> N	
9-1-309	Emission Limitations for Sulfuric Acid Plants	<u>Y</u> N	
9-1-502	Emission Monitoring Requirements	<u>Y</u> N	
9-1-601	Sampling and Analysis of Gas Streams	Y	
9-1-603	Averaging Times	Y	
9-1-604	Ground Level Monitoring	Y	
9-1-605	Emission Monitoring (2/17/82)	Y	
SIP	PROVISIONS NO LONGER IN CURRENT RULE		
Regulation 9,	Inorganic Gases - Sulfur Dioxide (5/3/84)		
Rule 1			
9-1-301	Limitations on Ground Level Concentrations (5/20/92)	¥	
9-1-309	Emission Limitations for New Sulfuric Acid Plants (2/16/83)	¥	
9-1-502	Emission Monitoring Requirements (3/17/82)	¥	
BAAQMD	Acid Mist From Sulfuric Acid Plants (12/6/78)		
Regulation 12, Rule 6			
12, Kule 0 12-6-301	Acid Mist	N	
12-6-501	Production Rate and Hours of Operation	N N	
12-6-601	Testing Procedures	N N	
40 CFR,	Emissions Guidelines and Compliance Times for Sulfuric Acid	<u>Y</u>	
Part 60,	Production Units (12/19/95)	<u>*</u>	
Subpart Cd			

IV. Source-Specific Applicable Requirements—(continued)

Table IV-IH Source-specific Applicable Requirements

S-24 ELECTRONIC GRADE SULFURIC ACID MANUFACTURING PROCESS

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Section	Designated Facilities	<u>Y</u>	
<u>60.30d</u>			
Section	Emissions Guidelines	<u>Y</u>	
<u>60.31d</u>			
Section	Compliance Times	<u>Y</u>	
<u>60.32d</u>			
BAAQMD			
Condition			
#13507			
part 1	Annual Throughput Limit (basis: cumulative increase)	Y	
part 2	Abatement Requirement (basis: SO ₂ BACT, PM10 BACT, cumulative increase)	Y	
part 3	Record Retention Requirement (basis: cumulative increase)	Y	

comply with this SIP requirement until US EPA has reviewed and approved the District's revision of the regulation.

Table IV-JI **Source-specific Applicable Requirements** S-32 ALKYLATION ACID/SULFURIC ACID TANK

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD			
Condition			
#13889			
part 1	Abatement Requirement (basis: cumulative increase)	Y	
part 2	Annual Throughput Limit (basis: cumulative increase)	Y	
part 3	Record Retention Requirement (basis: cumulative increase)	Y	

This section of the SIP rule has been removed from or revised in the current BAAQMD rule. Nevertheless, the source must comply with this SIP requirement until US EPA has reviewed and approved the District's revision of the regulation.

Final Permit for Facility #: A0023

Expiration Date: 7 01 02

IV. Source-Specific Applicable Requirements—(continued)

Table IV-J

Source-specific Applicable Requirements

S-2 SULFURIC ACID STORAGE TANK, S-5 SULFURIC ACID STORAGE TANK, S-11 SULFURIC ACID STORAGE TANK, S-28 SULFURIC ACID STORAGE TANK, S-29 SULFURIC ACID STORAGE TANK, S-30 SULFURIC ACID STORAGE TANK, S-31 SULFURIC ACID

STORAGE TANK

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	<u>(Y/N)</u>	<u>Date</u>
None			

Table IV-K **Source-specific Applicable Requirements** S-3 ALKYLATION ACID STORAGETANK, S-10 ALKYLATION ACID STORAGE TANK

		<u>Federally</u>	<u>Future</u>
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	<u>(Y/N)</u>	<u>Date</u>
BAAQMD			
Condition			
<u>#19267</u>			
part 1	Abatement Requirement (basis: cumulative increase)	<u>Y</u>	
part 4	Recordkeeping Requirement (basis: Reg. 2-6-501)	<u>N</u>	

Table IV-L Source-specific Applicable Requirements S-8 New Sulfur Melting Pit

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	<u>(Y/N)</u>	<u>Date</u>
<u>None</u>			

Final Permit for Facility #: A0023 Expiration Date: 7 01 02

IV. Source-Specific Applicable Requirements—(continued)

Table IV-M Source-specific Applicable Requirements S-20 Truck Loading/Unloading Station, S-22 Sulfur Unloading Station

		<u>Federally</u>	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	<u>(Y/N)</u>	<u>Date</u>
None			

Table IV-N Source-specific Applicable Requirements S-34 CAUSTIC PUMP DIESEL ENGINE

		<u>Federally</u>	Future
<u>Applicable</u>	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	<u>(Y/N)</u>	<u>Date</u>
BAAQMD	Particulate Matter, General Requirements (12/5/07)		
Regulation 6, Rule			
1			
<u>6-1-303</u>	Ringelmann Number 2 Limitation	<u>N</u>	
<u>6-1-303.1</u>	Ringelmann Number 2 Limitation	<u>N</u>	
<u>6-1-305</u>	<u>Visible Particles</u>	<u>N</u>	
<u>6-1-310</u>	Particulate Weight Limitation	<u>N</u>	
<u>6-1-310.3</u>	Heat Transfer Operations	<u>N</u>	
<u>6-1-401</u>	Appearance of Emissions	<u>N</u>	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			
<u>6-303</u>	Ringelmann Number 2 Limitation	<u>Y</u>	
<u>6-303.1</u>	Ringelmann Number 2 Limitation	<u>Y</u>	
<u>6-305</u>	<u>Visible Particles</u>	<u>Y</u>	
<u>6-310</u>	Particulate Weight Limitation	<u>Y</u>	
<u>6-310.3</u>	Heat Transfer Operations	<u>Y</u>	
<u>6-401</u>	Appearance of Emissions	<u>Y</u>	
BAAQMD			
Regulation 9, Rule	<u>Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)</u>		
1			
<u>9-1-301</u>	<u>Limitations on Ground Level Concentrations</u>	<u>Y</u>	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	<u>Y</u>	

Final Permit for Facility #: A0023 Expiration Date: 7 01 02

IV. Source-Specific Applicable Requirements—(continued)

Table IV-N Source-specific Applicable Requirements S-34 CAUSTIC PUMP DIESEL ENGINE

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	<u>(Y/N)</u>	<u>Date</u>
BAAQMD	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		
Regulation 9, Rule	Monoxide from Stationary Internal Combustion Engines		
<u>8</u>	<u>(7/25/07)</u>		
9-8-330	Emergency Standby Engines, Hours of Operation	<u>N</u>	
9-8-502	Recordkeeping	<u>N</u>	
<u>9-8-502.1</u>	Monthly records of usage	<u>N</u>	
<u>9-8-530</u>	Emergency Standby and Low Usage Engines, Monitoring and	<u>N</u>	
	Recordkeeping		
CCR,Title 17,	ATCM for Stationary Compression Ignition Engines		
<u>Section 93115</u>			
<u>93115.5</u>	Fuel Requirements	<u>N</u>	
<u>93115.6</u>	ATCM for Stationary CI Engines – Emergency Standby Diesel-	<u>N</u>	
	Fueled CI Engine (>50 bhp) Operating Requirements and Emission		
	<u>Standards</u>		
93115.6(b)	In-Use Emergency Standby Diesel-Fueled CI Engine (> 50 bhp)	<u>N</u>	
	Operating Requirements and Emission Standards		
93115.6(b)(3)	Emission and operation standards	<u>N</u>	
93115.6(b)(3)(A)	<u>Diesel PM Standard and Hours of Operation Limitations</u>	<u>N</u>	
93115.6(b)(3)(A)	General Requirements	<u>N</u>	
<u>(1)</u>			
93115.6(b)(3)(A)	20 hours/yr for maintenance & testing	<u>N</u>	
(1)(a)			
93115.10(e)(1)	Monitoring Equipment	<u>N</u>	
93115.10(g)	Reporting Requirements for Emergency Standby Engines	<u>N</u>	
93115.11	ATCM for Stationary CI Engines – Compliance Schedule for	<u>N</u>	
	Owners or Operators of Three or Fewer Engines (>50 bhp) Located		
	within a District		
93115.11(a)	Compliance by 1/1/06 for engines complying by reducing hours of	<u>N</u>	
02115.15	operation Control of the control of		
93115.15	Severability	<u>N</u>	
BAAOMD			
Condition #20581			

Expiration Date: 7 01 02

IV. Source-Specific Applicable Requirements—(continued)

Table IV-N Source-specific Applicable Requirements S-34 CAUSTIC PUMP DIESEL ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
part 1	Applicability of BAAQMD Regulations 6-1, 9-1, and 9-8 (basis:	<u>Y</u>	
	Reg. 6-1, Reg. 9-1, Reg. 9-8)		
part 2	Fuel Sulfur Content Limit (basis: cumulative increase)	<u>Y</u>	
part 3	NOx Emission Limit (basis: cumulative increase)	<u>Y</u>	
part 4	CO Emission Limit (basis: cumulative increase)	<u>Y</u>	
part 5	POC Emission Limit (basis: cumulative increase)	<u>Y</u>	
part 6	PM10 Emission Limit (basis: cumulative increase)	<u>Y</u>	
part 7	Limit on Total Annual Hours of Operation (basis: Reg. 2-5)	<u>N</u>	
part 8	Supplier Certification for each delivery stating sulfur content	<u>N</u>	
	(basis: recordkeeping)		
part 9	Non-resettable totalizing counter (basis: recordkeeping, Reg. 9-8-	<u>N</u>	
	<u>530)</u>		
<u>part 10</u>	Recordkeeping (basis: recordkeeping)	<u>N</u>	

Table IV-O Source-specific Applicable Requirements S-36 NATURAL GAS FIRED IC ENGINE

		Federally	<u>Future</u>
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	<u>(Y/N)</u>	<u>Date</u>
BAAQMD	Particulate Matter, General Requirements(12/5/07)		
Regulation 6,			
Rule 1			
<u>6-1-303</u>	Ringelmann Number 2 Limitation	<u>N</u>	
<u>6-1-303.1</u>	Ringelmann Number 2 Limitation	<u>N</u>	
<u>6-1-305</u>	<u>Visible Particles</u>	<u>N</u>	
<u>6-1-310</u>	Particulate Weight Limitation	<u>N</u>	
<u>6-1-401</u>	Appearance of Emissions	<u>N</u>	
SIP	Particulate Matter and Visible Emissions (9/4/98)		
Regulation 6			

Final Permit for Facility #: A0023 Expiration Date: 7 01 02

IV. Source-Specific Applicable Requirements—(continued)

Table IV-O Source-specific Applicable Requirements S-36 NATURAL GAS FIRED IC ENGINE

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	<u>Description of Requirement</u>	<u>(Y/N)</u>	<u>Date</u>
<u>6-303</u>	Ringelmann Number 2 Limitation	<u>Y</u>	
<u>6-303.1</u>	Ringelmann Number 2 Limitation	<u>Y</u>	
<u>6-305</u>	<u>Visible Particles</u>	<u>Y</u>	
<u>6-310</u>	Particulate Weight Limitation	<u>Y</u>	
<u>6-401</u>	Appearance of Emissions	<u>Y</u>	
BAAQMD	<u>Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)</u>		
Regulation 9,			
Rule 1			
<u>9-1-301</u>	<u>Limitations on Ground Level Concentrations</u>	<u>Y</u>	
<u>9-1-302</u>	General Emission Limitation	<u>Y</u>	
BAAQMD	Nitrogen Oxides and Carbon Monoxide from Stationary Internal		
Regulation 9,	Combustion Engines (7/25/07)		
Rule 8			
<u>9-8-301</u>	Emission Limits - Spark-Ignited Engines Powered by Fossil Derived	<u>N</u>	
	<u>Fuels</u>		
<u>9-8-502</u>	Recordkeeping	<u>N</u>	
9-8-502.1	Monthly records of usage	<u>N</u>	
BAAQMD			
Condition			
<u>#20509</u>			
part 1	Allowable Fuels Specified (basis: cumulative increase, BACT)	<u>Y</u>	
part 2	Abatement Requirement (basis: cumulative increase, BACT)	<u>Y</u>	
part 3	NOx, CO, POC Emission Limits (basis: cumulative increase)	<u>Y</u>	
part 4	Initial Source Test Requirement (basis: cumulative increase, BACT,	<u>Y</u>	
	Regulation 9-8-501)		
part 5	Record Retention Requirement (basis: BACT, cumulative increase, Regulation 9-8-530)	<u>N</u>	

Expiration Date: 7 01 02

V. SCHEDULE OF COMPLIANCE

The permit holder shall continue to comply with all applicable requirements <u>ofcited in</u> this permit. The permit holder shall also comply with applicable requirements that become effective during the term of this permit<u>on a timely basis</u>.

VI. PERMIT CONDITIONS

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

A. Source Specific Permit Conditions

Condition #708

For S-14 Gasoline Dispensing Facility

1. Pursuant to Regulation 8-7-112.7, the owner/operator shall ensure that the this facility's annual gasoline throughput shall does not exceed 60,000 gallons. (Otherbasis: Regulation 8-7-112.7)

Condition #2051

For S-13 Alkylation Acid Storage Tank #13

1. The owner/operator shall ensure that S-13 Alkylation Acid Storage Tank is maintained shall be operated in a gas-tight condition and is vented to the S-1 decomposition furnaces. Whenever the S-1 decomposition chamber is not available, due to either planned or unplanned circumstances, the owner/operator shall ensure that S-13 is vented to A-4 Acid Storage Tanks Back-up Vent Activated Carbon Beds and A-5 Acid Storage Tanks Back-up Vent Packed Tower Caustic Scrubber. (basis: cumulative increase)

Condition #7606

For S-15 Startup Air Heater

- 1. The owner/operator shall ensure that Startup Air Heater S-15 shall burns only natural gas. (basis: BACT)
- 2. The owner/operator shall ensure that Nnatural gas usage at S-15 does shall not exceed five million (5,000,000) standard cubic feet during any consecutive 12-month period. (Basis: NOx offsets, cumulative increase)
- 3. The owner/operator shall ensure that NOx emissions from S-15 shall do not exceed 66 ppmv at 3% O2 on a dry basis, at any firing rate, except during the first fifteen minutes of start up of the S-15 Air Preheater. (basis: NOx offsets, NOx BACT, cumulative increase)
- 4. The owner/operator shall ensure that CO emissions from S-15 shall do not exceed 50 ppmv at 3% O2 on a dry basis, at any firing rate, except during the first fifteen minutes of start up of the S-15 Air Preheater. (basis: CO BACT, cumulative increase)
- 5. The owner/operator of S-15 shall maintain monthly records of natural gas usage at S-15 in a District approved log. These records shall be kept on site for a minimum of five years from the date of entry and shall be made available to

IVI. Applicable Requirements—Permit Conditions(continued)

District personnel upon request. (basis: cumulative increase, BAAQMD Regulation 2-6-501)

Condition #7934

For S-9 Process Air Heater

- 1. The owner/operator shall ensure that the Direct Fired Air Heater S-9 may burns only either Natural Gas or Refinery Make Gas (RMG). (basis: cumulative increase)
- 2. The <u>owner/operator shall ensure that the combined</u>-usage of Natural Gas-and-RMG at S-9 shall does not exceed 61.3 million cubic feet during any consecutive 12-month period. (basis: NOx offsets, cumulative increase)
- 3. The owner/operator of S-9 shall maintain monthly records of natural gas and—RMG-usage at S-9 in a District approved log for a minimum of five years from the date of entry. These records shall be kept on site and made available to district personnel upon request. (basis: cumulative increase, BAAQMD Regulation 2-6-501)

Condition #12051

For S-17 Railcar Loading/Unloading Station (Sulfuric/Alkylation Acid)

- 1. The S-17 Rail Car Loading/Unloading Station may be used to transfer:
 - (a) Sulfuric Acid (no more than 99% H2SO4 by weight) from storage tanks into rail cars and from rail cars into storage tanks, or
 - (b) Alkylation Acid from rail cars into storage tanks and from storage tanks into rail cars.

The owner/operator of S-17 shall obtain a Change of Permit Conditions from the District before performing any other type of transfer operation at S-17. (basis: cumulative increase)

2. During all transfers of alkylation acid from rail cars into storage tanks, the Alkylation Acid Storage Tanks (S-3, S-10, and S-13) the owner/operator shall ensure that S-17 is shall be vented to the composition furnaces of the Sulfuric Acid Plant (S-1). During all transfers of alkylation acid from storage tanks into rail cars, the owner/operator shall ensure that S-17 the rail cars shall be vented to the decomposition furnaces of S-1. Whenever the S-1 decomposition chamber is not available due to planned or unplanned circumstances, the owner/operator shall ensure that S-17 is vented to A-4 Acid Storage Tanks

IVI. Applicable Requirements Permit Conditions(continued)

<u>Nent Packed Tower Caustic Scrubber.</u> <u>Alkylation acid may not be transferred</u> <u>when the Sulfuric Acid Plant (S-1) is shut down.</u> (basis: cumulative increase)

3. The owner/operator of S-17 shall maintain daily records (summarized on a monthly basis) in a District approved log of the amount of alkylation acid loaded into rail cars at S-17. These records shall be kept on site for minimum of five years and shall be made available to District personnel upon request. (basis: cumulative increase, BAAQMD Regulation 2-6-501)

Condition #12052

For S-18 Truck Unloading Station (Alkylation Acid)

- 1. The owner/operator shall ensure that Tthe S-18 Alkylation Acid Unloading Station may be is only used only to transfer alkylation Acid from tank trucks into storage tanks. The owner/operator of S-18 shall obtain a Change of Permit Conditions from the District before performing any other type of transfer operation at S-18. (basis: cumulative increase)
- 2. During all transfers of alkylation acid from tank trucks into storage tanks, the owner/operator shall ensure that Alkylation Acid Storage Tanks (S-3, S-10, and S-13) S-18-shall be is vented to the decomposition furnaces of the Sulfuric Acid Plant (S-1). Whenever the S-1 decomposition chamber is not available due to planned or unplanned circumstances the owner/operator shall ensure that S-18 is vented to A-4 Acid Storage Tanks Back-up Vent Activated Carbon Beds and A-5 Acid Storage Tanks Back-up Vent Packed Tower Caustic Scrubber. The owner/operator shall ensure that Alkylation acid may is not be transferred when the Sulfuric Acid Plant is shut down. (basis: cumulative increase)

Condition #13215

For S-16 Alkylation Acid Tank #13

- 1. The owner/operator shall ensure that Tthe throughput of alkylation acid at S-16 shall does not exceed 146,000 tons in any consecutive twelve-month period. (basis: cumulative increase)
- 2. The owner/operator shall maintain S-16 shall be operated in a gas-tight condition and ensure that S-16 is vented to the S-1 Decomposition Chambers. Whenever the S-1 decomposition chamber is not available due to planned or unplanned circumstances, the owner/operator shall ensure that S-16 is vented to A-4 Acid Storage Tanks Back-up Vent Activated Carbon Beds and A-5 Acid Storage Tanks Back-up Vent Packed Tower Caustic Scrubber. (basis:

IVI. Applicable Requirements Permit Conditions(continued)

cumulative increase)

- 3. The owner/operator shall ensure that S-16 shall be is abated by A-1 (SO2 Abatement Facility) and A-2 (Mist Eliminator). (basis: cumulative increase)
- 4. The owner/operator of S-16 shall maintain monthly records of throughputs at S-16 in a District-approved log. These records shall be retained on-site for a minimum of five years from the date of entry and made available to District personnel upon request. (basis: cumulative increase, BAAQMD Regulation 2-6-501)

Condition #13507

For S-24 Electronic Grade Sulfuric Acid Manufacturing Process

- 1. The owner/operator shall ensure that the production rate of electronic grade sulfuric acid from S-24 shall does not exceed 15,000 tons during any consecutive 12-month period. (basis: cumulative increase)
- 2. The owner/operator shall ensure that tThe EGSA Process (S-24) shall be is vented to the properly maintained and properly operated S-1 Sulfuric Acid Plant (upstream of the SO₂ to SO₃ Converter) during all times that S-24 is operating. The owner/operator shall ensure that Eemissions from the S-1 Sulfuric Acid Plant shall be are vented to the properly maintained and properly operated A-1 Sulfur Dioxide Abatement System and A-2 Mist Eliminator. (basis: SO₂ BACT, PM10 BACT, cumulative increase)
- 3. To confirm compliance with Condition #1, the owner/ operator of S-24 shall maintain monthly records of the amount of electronic grade sulfuric acid produced at S-24. These records shall be kept on site for a minimum of five years from the date of entry and shall be made available to District personnel upon request. (basis: cumulative increase, BAAQMD Regulation 2-6-501)

Condition #13889

For S-32 Alkylation Acid/Sulfuric Acid Storage Tank #14

1. The owner/operator shall maintain S-32 Acid Tank shall be operated in gas tight condition and ensure that S-32 is shall be vented to the S-1 Sulfuric Acid Plant upstream of the Decomposition Chambers during all times that whenever S-32 contains spent alkylation acid. Whenever the S-1 decomposition chamber is not available, due to planned or unplanned circumstances, and the tank contains spent alkylation acid, the owner/operator shall ensure that S-32 is vented to A-4 Acid Storage Tanks Back-up Vent Activated Carbon Beds and A-5 Acid Storage Tanks Back-up Vent Packed Tower Caustic Scrubber. (basis:

IVI. Applicable Requirements—Permit Conditions(continued)

cumulative increase)

- 2. The owner/operator shall ensure that Tthe total throughput of spent alkylation acid at S-32 shall does not exceed 219,000 tons during any consecutive 12 month period. (basis: cumulative increase)
- 3. To confirm compliance with Condition #2, the owner/operator shall maintain monthly records of spent alkylation acid throughput at S-32 in a District approved log. These records shall be kept on site for a minimum of five years from the date of entry and shall be made available to District personnel upon request. (basis: cumulative increase, BAAQMD Regulation 2-6-501)

Condition #14980

For S-1 Sulfuric Acid Manufacturing Process

1. In order tTo demonstrate compliance with BAAQMD Regulation 6-1-320, Sulfuric Acid Manufacturing Plants, BAAQMD Regulation 12-6-301, Acid Mist, and 40 CFR 60.31d, the owner/operator shall perform an annual source test at the exhaust from the A-1, Sulfur Dioxide Abatement Unit. The owner/operator shall obtain approval for all test procedures from the District's Source Test Section at least 7 days before conducting any tests. The results of this annual source test shall be submitted to the District within 30 days of conducting the test. The source test data and the summarized results shall be kept on site for at least five years after the test date. (basis: BAAQMD-Regulation 2 6 409.2, 2 6 501)

(basis: BAAOMD Regulation 2-6-409.2, 2-6-501, 40 CFR 60.31d)

2. The owner/operator shall properly maintain all equipment in good operation conditions. (basis: Cumulative increase)

Condition #19267

For Acid Storage Tanks Back-up Vent Scrubbing System consisting of A-4 Acid Storage Tanks Back-up Vent Activated Carbon Beds
A-5 Acid Storage Tanks Back-up Vent Packed Tower Caustic Scrubber

1. The owner/operator shall maintain S-3 and S-10 (Storage Tank #12 and #11, respectively) in a gas-tight condition and ensure that S-3 and S-10 are vented to the S-1 decomposition chamber. Whenever the S-1 decomposition chamber is

IVI. Applicable Requirements Permit Conditions(continued)

not available, due to planned or unplanned circumstances, the owner/operator shall ensure that S-3 and S-10 are vented to A-4 Acid Storage Tanks Back-up Vent Activated Carbon Beds and A-5 Acid Storage Tanks Back-up Vent Packed Tower Caustic Scrubber. Note: S-13, S-16 and S-32, Storage Tanks #16, #13, and #14, respectively, are covered by conditions 2051, 13215 and 13889. (basis: Cumulative increase)

- 2. The owner/operator shall perform a District approved source test (sulfuric acid and SO₂) with 60 days of start-up, in accordance with the District's Manual of Procedures. The owner/operator of the shall notify the Manager of the District of the District's Source Test Section at least seven (7) days prior to the test, to provide the District staff the option of observing the testing. With 45 days of test completion, a comprehensive report of the test results shall be submitted to the manager of the Source Test Section for review and disposition. (basis: Regulation 2-1-403)
- 3. Within 30 days of the start up of the A-4 Acid Storage Tanks Back-up Vent
 Activated Carbon Beds and A-5 Acid Storage Tanks Back-up Vent Packed
 Tower Caustic Scrubber, the owner/operator shall submit a Process Flow
 Diagram or suitably detailed sketch that shows the vent streams of the plant,
 including those abated by A-4 Acid Storage Tanks Back-up Vent Activated
 Carbon Beds and A-5 Acid Storage Tanks Back-up Vent Packed Tower Caustic
 Scrubber, those vent streams flowing to the A-3 Oleum Vent System, and the
 vent streams of all storage tank and truck loading/unloading sources. (basis:
 Cumulative increase)
- 4. The owner/operator shall monitor and record the following key operating parameters. The owner/operator shall record these parameters upon initial startup of the system and at least weekly thereafter. For operational times less than a week, the owner/operator shall record the parameters at start-up and prior to shutdown. In any case the system must be started up, tested, and the parameters recorded quarterly. The owner/operator shall monitor and record the following parameters:
 - a. The hydrocarbon concentration at the outlet of A-4 and/or A-5. The hydrocarbon concentration must be monitored with a District approved hydrocarbon detector.
 - b. The circulating caustic liquor pH to A-5 packed tower.
 - c. Throughput of acids for S-3, S-10, S-13, S-16 & S-32 on monthly basis with indication of emission destination (A-4/A-5 or S-1 Decomposition Chamber).

IVI. Applicable Requirements Permit Conditions (continued)

- d. Date when the A-4 activated carbon canisters are changed. These records must be maintained and kept on-site for at least 5 years and made available to the APCO upon request. (basis: Recordkeeping 2-6-501)
- 5. The owner/operator shall maintain at least a pH 8.5 or higher at the circulating inlet to A-5 packed tower scrubber. The pH of the caustic scrubber liquor may be changed if the owner/operator can demonstrate that a lower pH is sufficient to remove sulfur dioxide to less than 10 ppm or sulfuric acid gases to less than 5 ppm at the stack outlet. (basis: Cumulative increase)
- 6. The owner/operator of A-4 Acid Storage Tanks Back-up Vent Activated Carbon Beds and A-5 Acid Storage Tanks Back-up Vent Packed Tower Caustic Scrubber shall not allow more than 0.37 lb/hr of hydrocarbon emissions, 0.09 lb/hr of SO₂ emissions, or 0.014 lb/hr of H₂SO₄ emissions into the atmosphere from A-4 Acid Storage Tanks Back-up Vent Activated Carbon Beds or A-5 Acid Storage Tanks Back-up Vent Packed Tower Caustic Scrubber. (Basis: cumulative increase)

Condition #20509

For S-36 Natural Gas Fired IC Engine

- 1. The owner/operator of S-36 Generator shall fire the engine exclusively with natural gas at a rate not to exceed 13.7 MMBtu/hr (HHV). (basis: Cumulative Increase, BACT)
- 2. The owner/operator shall not operate the engine unless NOx, CO and POC emissions are abated by the properly functioning A-33 NSCR unit. (basis: Cumulative Increase, BACT)
- 3. The owner/operator of S-36 shall ensure that the engine emissions do not exceed the following limits:

NOx 0.15 g/bhp-hr

CO 0.6 g/bhp-hr

POC 0.15 g/bhp-hr

(basis: Cumulative Increase, BACT)

4. To demonstrate compliance with part 3, the owner/operator shall measure the NOx and CO concentration from the S-36 engine. Measurements may be made using a District-approved source test, or using hand-held portable NOx and CO monitors. The owner/operator shall ensure that testing is executed in accordance with the following schedule:

IVI. Applicable Requirements Permit Conditions(continued)

- a) The initial source test shall occur within 30 days of startup or longer with written approval from the District. The owner/operator may submit a request detailing why an extension should be granted.
- b) If using a hand-held monitor, subsequent testing shall occur at least once per consecutive 6-month period, following startup.
- c) If using a District-approved source test, subsequent testing shall occur at least once per consecutive 24-month period, following startup.

Hand-held portable monitors shall be operated, maintained and calibrated in accordance with manufacturer guidelines. All source testing shall be done in accordance with the District's Manual of Procedures. The facility shall receive approval from the District's Source Test Manager for installation of test ports and source testing procedures. The results shall be delivered to the District no later than 30 days from the date of the source test.

(basis: Cumulative Increase, BACT, Regulation 9-8-501)

- 5. The owner/operator shall retain the following records on-site for a minimum of two years from the date of entry and make them available for inspection by District staff upon request.
 - a) NOx and CO concentration measurements taken as per part 4
 - b) b) Any source test records

(basis: BACT, Cumulative Increase, Reg. 9-8-530:Record keeping)

Condition #20580

For A-6 Emergency Caustic Scrubber System

- 1. The owner/operator shall only operate A-6 scrubber during emergency or upset conditions, planned shutdowns, or when the equipment upstream of the main blowers changes from vacuum operation to positive pressure.
- 2. The owner/operator shall operate A-6 emergency caustic scrubber so that the emissions of sulfur dioxide do not exceed 51 ppmv, at zero excess air, dry, and the acid mist emissions do not exceed 0.3 pounds per ton of sulfuric acid produced. (Basis: Cumulative emissions, 12-6-301)
- 3. The owner/operator shall operate A-6 emergency caustic scrubber so that the emissions of sulfur trioxide or sulfuric acid, expressed as 100% sulfuric acid, do not exceed a concentration of 0.04 grains per dscf of exhaust gas volume.

 (Basis: 6-320)

IVI. Applicable Requirements Permit Conditions (continued)

- 4. The owner/operator shall monitor and record all key operating parameters required to verify compliance. Parameters shall be recorded upon initial start-up of the system and at least twice an hour thereafter. In any case the system must be started up, tested, and the parameters recorded quarterly. The following parameters shall be monitored and recorded:
 - a. The nature of the emergency event and the duration the A-6 abatement system was placed in service.
 - b. The gas flowrate to the abatement system, either by direct measurement or by District approved engineering calculations.
 - c. The concentration of SO₂ in the gas stream to the abatement system, either by direct measurement or by District approved engineering calculations.
 - d. The pressure drop across the venturi scrubber.
 - e. The concentration of SO₂ leaving the abatement system, either by direct measurement or by District approved engineering calculations.
 - f. The circulating caustic solution pH to A-6 packed tower.
 - g. The circulating caustic solution flowrate to A-6 packed tower in GPM.
 - h. The absorbing tower performance, including gas load, liquid load, percent of flood and abatement efficiency.
 - i. Date and quantity of all materials added to or removed from liquid surge section, acidulation tank, or any other part of the abatement system. These records must be maintained and kept on-site for at least 5 years and made available to the APCO upon request. (Basis: Recordkeeping 2-6-501)

Condition #20581

For S-34 Caustic Pump Diesel Engine

- 1. The owner/operator shall operate the S-34 engine when the requirements of the following regulations are met: Regulation 9, Rule 1 ("Sulfur Dioxide"), Regulation 6, Rule 1 ("Particulate and Visible Emissions"), and Regulation 9, Rule 8 ("NOx and CO from Stationary Internal Combustion Engines"). [Basis: Regulation 9, Rule 1 and 8; Regulation 6, Rule 1]
- 2. The owner/operator shall operate the S-34 engine when liquid fuel contains less than 0.05 % Sulfur by weight. [Basis: Cumulative Increase]
- 3. The owner/operator shall operate the S-34 engine when the total NOx emissions remain at or below 5.4 gm/BHP-hr. [Basis: Cumulative Increase]
- 4. The owner/operator shall operate the S-34 engine when the total CO emissions remain at or below 1.0 gm/BHP-hr. [Basis: Cumulative Increase]

Plant Name: General Chemical Corporation Permit for Site #: A0023

Expiration Date: 7 01 02

IVI. Applicable Requirements—Permit Conditions(continued)

- 5. The owner/operator shall operate the S-34 engine when the total POC emissions remain at or below 0.60 gm/BHP-hr. [Basis: Cumulative Increase]
- 6. The owner/operator shall operate the S-34 engine when the total PM-10 emissions remain at or below 0.6 gm/BHP-hr. [Basis: Cumulative Increase]
- 7. The owner/operator shall operate the S-34 engine for no more than 123 hours in any consecutive 12 month period. [Basis: Regulation 2-5]
- 8. In order to determine compliance with Part 2 above, the owner/operator of the S-34 engine shall obtain a supplier certification for each fuel delivery stating the sulfur content. [Basis: Recordkeeping]
- 9. The owner/operator shall operate the S-34 engine when equipped with an operating non-resettable totalizing counter that records hours of operation.

 [Basis: Recordkeeping, Regulation 9-8-530]
- 10. The owner/operator shall maintain the following monthly records in a District-approved log for at least 5 years and shall be made available to the District upon request:
 - 1) Total hours of operation for S-34
 - 2) Fuel usage at S-34
 - 3) For each emergency operation, the nature of the emergency condition. [Basis: Recordkeeping]

B. Facility-wide Permit Conditions

None

VII. APPLICABLE EMISSION-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, eitherusing 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

<u>Applicable Limits and Compliance Monitoring Requirements</u>

S-1 Sulfuric Acid Manufacturing Process

Type of Limit Pollutant	Emission Limit Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD	<u>NY</u>		ground level		N	
	Regulation			concentrations shall			
	9-1-301			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			

VIII. Applicable **Emission** Limits & Compliance Monitoring Requirements (continued)

Table VII-A Applicable Limits and Compliance Monitoring Requirements S-1 Sulfuric Acid Manufacturing Process

Type of Limit Pollutant	Emission Limit Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	SIP 9 1 301	¥		sO2 emissions shall- not result in ground- level SO2- concentrations- exceeding state or federal ambient air- quality standards		И	
SO2	SIP 9-1- 308.2	¥		gaseous emissions- from any source at an- H2SO4 plant shall not- exceed 300 ppmv @- 12% oxygen	SIP 9-1-502	E	CEM
SO ₂	BAAQMD Regulation 9-1-309	<u>NY</u>		gaseous emissions from any source at an H_2SO_4 plant shall not exceed 300 ppm @ 12% oxygen	BAAQMD Regulation 9-1-502	С	СЕМ
Sulfuric Acid mist	BAAQMD Regulation 12-6-301	N		gaseous emissions from an H2SO4 production unit shall not exceed 0.15 g/kg (0.3 lb/ton) of acid produced	BAAQMD Cond <u>ition</u> #14980 <u>, part 1</u>	P/A	Source test
	40 CFR 60.31d	<u>Y</u>		0.5 lb/ton of sulfuric acid produced	BAAQMD Condition #14980, part 1	<u>P/A</u>	Source test
SO3 and H2SO4	BAAQMD 6- <u>1-</u> 320	¥ <u>N</u>		0.04 grain/dscf	BAAQMD Condition #14980, part 1	N <u>P/A</u>	Source Test
TSP <u>Opaci</u>	BAAQMD 6- <u>1-</u> 301	<u>¥N</u>		Ringelmann No. 1		N	

Expiration Date: 7 01 02

VIII. Applicable Emission-Limits & Compliance Monitoring Requirements (continued)

Table VII-A <u>Applicable Limits and Compliance Monitoring Requirements</u> S-1 Sulfuric Acid Manufacturing Process

Type of Limit Pollutant	Emission Limit Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>FP</u>	BAAQMD	<u>¥N</u>		0.15 grain/dscf		N	
	6- <u>1-</u> 310						
<u>FP</u>	BAAQMD	<u>¥N</u>		36.5 lb/hr		N	
	6- <u>1-</u> 311						
	SIP 6-301	¥		Ringelmann No. 1		N	

VIII. Applicable **Emission** Limits & Compliance Monitoring Requirements (continued)

Table VII-B Applicable Limits and Compliance Monitoring Requirements S-9 Process Air Heater

	Citation		Future		Monitoring	Monitoring	
Type of	of Limit	FE	Effective		Requirement	Frequency	Monitoring
<u>Limit</u>	Emission-	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре
Pollutant	Limit						
	Citation						
NOx	BAAQMD	N		emissions shall not		N	
	Regulation			exceed 30 ppmv, dry			
	9-7-301.1			@ 3% oxygen			
CO	BAAQMD	N		emissions shall not		N	
	Regulation			exceed 400 ppmv, dry			
	9-7-301.2			@ 3% oxygen			
NOx, CO,	BAAQMD-	¥		fuel consumption shall	BAAQMD	P/M	monthly-
VOC,	Condition-			not exceed 61.3	Condition-		records
PM10	# 7934			million cubic feet / 12	# 7934		
	part 2			month period	part 3		
H_2S	BAAQMD	N		GLC ³ of 0.06 ppm		N	
	9-2-301			min. average, or 0.03			
				ppm 60 min. average			
SO_2	9-1-301	<u>NY</u>		GLC ³ of 0.5 ppm for 3		N	
				min or 0.25 ppm for			
				60 min or 0.05 ppm			
				for 24 hours			
	9-1-302	Y		300 ppm (dry)		N	
	SIP	¥		Federal std: GLC ³ of		N	
	9-1-301			140 ppb, 24-hr			
				average, once/yr and			
				30 ppb, annual			
				average			
				State std: GLC ³ of 40			
				ppb, 24-hr average,			
				and 250 ppb, 1 hr			
				average			
NOx, CO,	BAAQMD	<u>Y</u>		fuel consumption shall	BAAQMD	<u>P/M</u>	<u>monthly</u>
VOC,	Condition			not exceed 61.3	Condition		<u>records</u>
<u>PM10</u>	<u>#7934</u>			million cubic feet / 12	<u>#7934</u>		
	part 2			month period	part 3		

³Ground Level Concentration

VIII. Applicable Emission-Limits & Compliance Monitoring Requirements (continued)

_Table VII-C Applicable Limits and Compliance Monitoring Requirements S-14 Gasoline Dispensing Facility

Type of Limit	<u>Citation</u> of Limit	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
	Emission-	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
	Limit-						
Pollutant	Citation						
VOC	BAAQMD-	¥		95% recovery of		N	
	Regulation			gasoline vapors			
	8-7-301.2						
	BAAQMD	¥		gasoline throughput		<u>NP</u>	
	Condition			shall not exceed			
	#708			60,000 gallons per			
	part 1			year			

Table VII-DC <u>Applicable Limits and Compliance Monitoring Requirements</u> S-15 Startup Air Heater

Type of Limit	Citation of Limit Emission Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Pollutant	Citation						
NOx	BAAQMD-	N		emissions shall not-		N	
	Regulation			exceed 30 ppmv @ 3%			
	9-7-301.1			Q2			
NOx	BAAQMD	Y		emissions shall not		N	
	Condition			exceed 66 ppmv			
	#7606						
	part 3						
CO	BAAQMD-	N		emissions shall not		N	
	Regulation			exceed 400 ppmv @			
	9-7-301.2			3% O2			

Expiration Date: 7 01 02

VIII. Applicable Emission-Limits & Compliance Monitoring Requirements (continued)

Table VII-DC <u>Applicable Limits and Compliance Monitoring Requirements</u> S-15 Startup Air Heater

Type of Limit	Citation of Limit Emission Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Pollutant	Citation						
CO	BAAQMD	Y		emissions shall not		N	
	Condition			exceed 50 ppmv			
	#7606						
	part 4						
СО	BAAQMD Condition #7606 part 4	Y		Emissions shall not exceed 50 ppmv		N	
NOx, CO,	BAAQMD	Y		fuel consumption shall	BAAQMD	P/M	monthly
VOC,	Condition			not exceed 5 million	Condition		records
PM10	#7606			cubic feet / 12 month	#7606		
	part 2			period	part 2		
SO_2	9-1-301	<u>NY</u>		GLC ³ of 0.5 ppm for 3		N	
				min or 0.25 ppm for 60			
				min or 0.05 ppm for 24			
				hours			
	9-1-302	Y		300 ppm (dry)		N	
	SIP	¥		Federal std: GLC ³ of		N	
	9-1-301			140 ppb, 24-hr			
				average, once/yr and 30 ppb, annual average			
				State std: GLC ³ of 40			
				ppb, 24-hr average,			
				and 250 ppb, 1 hr			
				average			

VIII. Applicable **Emission** Limits & Compliance Monitoring Requirements (continued)

Table VII-ED **Applicable Limits and Compliance Monitoring Requirements** S-16 Alkylation Acid Storage Tank #13

Type of Limit	Citation of Limit Emission	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	Limit	1/11	Dute	Emission Emit	Citation	(170/11)	1390
Pollutant	Citation						
VOC,	BAAQMD	Y		throughput shall not	BAAQMD	P/M	monthly
PM10	Condition			exceed 146,000 ton	Condition		records
	#13215,			per 12 month period	#13215		
	part 1				part 4		

VIII. Applicable Emission-Limits & Compliance Monitoring Requirements (continued)

Table VII-FE

<u>Applicable Limits and Compliance Monitoring Requirements</u>
S-24 Electronic Grade Sulfuric Acid Manufacturing Process

Type of	Citation		Future		Monitoring	Monitoring	_
<u>Limit</u>	of Limit	FE	Effective		Requirement	Frequency	Monitoring
	Emission-	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре
	Limit-						
Pollutant	Citation						
SO_2	BAAQMD	<u>NY</u>		ground level	BAAQMD	N	Compliance
	Regulation			concentrations shall	Regulation		with 9-1-309
	9-1-301			not exceed: 0.5 ppm	9-1-501		ensures
				for 3 consecutive			compliance
				minutes AND 0.25			with 9-1-301
				ppm averaged over 60			at this facility
				consecutive minutes			
				AND 0.05 ppm			
				averaged over 24			
				hours			
	SIP 9-1-	¥		SO2 emissions shall		N	
	301			not result in ground			
				level SO2			
				concentrations-			
				exceeding state or			
				federal ambient air			
				quality standards			
SO2	SIP 9-1-	¥		gaseous emissions	SIP 9-1-502	€	CEM
	308.2			from any source at an			
				H2SO4 plant shall			
				not exceed 300 ppmv			
				@ 12% oxygen			
	BAAQMD	<u>NY</u>		gaseous emissions	BAAQMD	С	CEM
	Regulation			from any source at an	Regulation		
	9-1-309			H ₂ SO ₄ plant shall not	9-1-502		
				exceed 300 ppmv @			
				12% oxygen			
	BAAQMD	Y		production shall not	Condition	P/M	monthly
	Condition			exceed 15,000 ton/12	#13507 part 3		records
	#13507,			month period			
	part 1						

Expiration Date: 7 01 02

VIII. Applicable **Emission** Limits & Compliance Monitoring Requirements (continued)

Table VII-FE **Applicable Limits and Compliance Monitoring Requirements** S-24 Electronic Grade Sulfuric Acid Manufacturing Process

Type of Limit	Citation of Limit Emission	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Pollutant	Limit- Citation						
Sulfuric acid mist	BAAQMD Regulation 12-6-301	Y		gaseous emissions from an H_2SO_4 production unit shall		N	
				not exceed 0.15 g/kg (0.3 lb/ton) of acid produced			
TSP <u>Opaci</u>	BAAQMD 6- <u>1-</u> 301	<u>¥N</u>		Ringelmann No. 1		N	
<u>FP</u>	BAAQMD 6- <u>1-</u> 310	<u>¥N</u>		0.15 grain/dscf		N	
<u>FP</u>	BAAQMD 6- <u>1-</u> 311	<u>¥N</u>		2.75 lb/hr		N	
	SIP 6-301	¥		Ringelmann No. 1		N	
SO ₃ and H ₂ SO ₄	BAAQMD 6- <u>1-</u> 320	<u>¥N</u>		0.04 grain/dscf		N	

Table VII-GF **Applicable Limits and Compliance Monitoring Requirements** S-32 Alkylation Acid / Sulfuric Acid Storage Tank #14

Type of Limit Pollutant	Citation of Limit Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC,	BAAQMD	Y		alkylation acid	BAAQMD	P/M	monthly
PM10	Condition	1		throughput shall not	Condition	1 / 141	records
	#13889			exceed 219,000 ton	#13889		
	part 2			per 12 month period	part 3		

Expiration Date: 7 01 02

VIII. Applicable Emission-Limits & Compliance Monitoring Requirements (continued)

Table VII - G

Applicable Limits and Compliance Monitoring Requirements S-2 Sulfuric Acid Storage Tank, S-5 Sulfuric Acid Storage Tank, S-11 Sulfuric Acid Storage Tank, S-28 Sulfuric Acid Storage Tank, S-29 Sulfuric Acid Storage Tank, S-30 Sulfuric Acid Storage Tank, S-31 Sulfuric Acid Storage Tank

			<u>Future</u>		Monitoring	Monitoring	
Type of	Citation of	<u>FE</u>	Effective		Requirement	Frequency	Monitoring
<u>Limit</u>	<u>Limit</u>	<u>Y/N</u>	<u>Date</u>	<u>Limit</u>	Citation	(P/C/N)	Type
None							

Table VII - H **Applicable Limits and Compliance Monitoring Requirements** S-3 Alkylation Acid Storage Tank, S-10 Alkylation Acid Storage Tank

ı				Future		Monitoring	Monitoring	
ı	Type of	Citation of	<u>FE</u>	Effective		<u>Requirement</u>	Frequency	Monitoring
Ĺ	<u>Limit</u>	<u>Limit</u>	<u>Y/N</u>	<u>Date</u>	<u>Limit</u>	<u>Citation</u>	(P/C/N)	<u>Type</u>
	None None							

Table VII - I Applicable Limits and Compliance Monitoring Requirements S-8 New Sulfur Melting Pit

			<u>Future</u>		Monitoring	Monitoring	
Type of	Citation of	<u>FE</u>	Effective		Requirement	Frequency	Monitoring
<u>Limit</u>	<u>Limit</u>	<u>Y/N</u>	Date	<u>Limit</u>	Citation	(P/C/N)	Type
None							

Table VII - J Applicable Limits and Compliance Monitoring Requirements S-13 Alkylation Acid Storage Tank #16

Expiration Date: 7 01 02

VIII. Applicable **Emission** Limits & Compliance Monitoring Requirements (continued)

			<u>Future</u>		Monitoring	Monitoring	
Type of	Citation of	<u>FE</u>	Effective		<u>Requirement</u>	Frequency	Monitoring
<u>Limit</u>	<u>Limit</u>	<u>Y/N</u>	<u>Date</u>	<u>Limit</u>	<u>Citation</u>	(P/C/N)	<u>Type</u>
<u>None</u>							

Table VII - K

Applicable Limits and Compliance Monitoring Requirements S-17 Railcar Loading/Unloading Station (Sulfuric/Alkylation Acid)

			<u>Future</u>		Monitoring	Monitoring	
Type of	Citation of	<u>FE</u>	Effective		Requirement	Frequency	Monitoring
<u>Limit</u>	<u>Limit</u>	<u>Y/N</u>	<u>Date</u>	<u>Limit</u>	Citation	(P/C/N)	Type
None							

Table VII - L

Applicable Limits and Compliance Monitoring Requirements

S-18 Truck Unloading Station (Alkylation Acid)

			<u>Future</u>		Monitoring	Monitoring	
Type of	Citation of	<u>FE</u>	Effective		Requirement	Frequency	Monitoring
<u>Limit</u>	<u>Limit</u>	<u>Y/N</u>	Date	<u>Limit</u>	Citation	(P/C/N)	Type
None							

Table VII - M

Applicable Limits and Compliance Monitoring Requirements S-20 Truck Loading/Unloading Station, S-22 Sulfur Unloading Station

			Future		Monitoring	Monitoring	
Type of	Citation of	<u>FE</u>	Effective		Requirement	Frequency	Monitoring
<u>Limit</u>	<u>Limit</u>	<u>Y/N</u>	<u>Date</u>	<u>Limit</u>	<u>Citation</u>	(P/C/N)	<u>Type</u>
None							

VIII. Applicable Emission-Limits & Compliance Monitoring Requirements (continued)

<u>Table VII – N</u> <u>Applicable Limits and Compliance Monitoring Requirements</u> <u>S-34 CAUSTIC PUMP DIESEL ENGINE</u>

			Future		Monitoring	Monitoring	
Type of	Citation of	<u>FE</u>	Effective		Requirement	Frequency	Monitoring
<u>Limit</u>	<u>Limit</u>	<u>Y/N</u>	<u>Date</u>	<u>Limit</u>	<u>Citation</u>	<u>(P/C/N)</u>	<u>Type</u>
<u>Opacity</u>	BAAQMD	<u>N</u>		> Ringelmann No. 2 for no		<u>N</u>	
	<u>6-1-303.1</u>			more than 3 minutes in any			
				<u>hour</u>			
<u>Opacity</u>	<u>SIP</u>	<u>Y</u>		> Ringelmann No. 2 for no		<u>N</u>	
	<u>6-303.1</u>			more than 3 minutes in any			
				<u>hour</u>			
<u>FP</u>	BAAQMD	<u>N</u>		0.15 grain/dscf		<u>N</u>	
	<u>6-1-310</u>						
<u>FP</u>	SIP	<u>Y</u>		0.15 grain/dscf		<u>N</u>	
	<u>6-310</u>						
<u>Fuel</u>	BAAQMD	<u>Y</u>		0.05% sulfur by weight	BAAQMD	<u>P</u>	<u>Fuel</u>
<u>Sulfur</u>	Condition				<u>Condition</u>		Certification
<u>Content</u>	<u>#20581,</u>				<u>#20581,</u>		
	part 2				<u>part 9</u>		
<u>Hours of</u>	<u>BAAQMD</u>	<u>N</u>		20 hours/yr for maintenance	<u>BAAQMD</u>	<u>C</u>	<u>Totalizing</u>
<u>Operation</u>	<u>9-8-330</u>			and testing	<u>9-8-530</u>		<u>Counter</u>
Hours of	BAAQMD	<u>N</u>		20 hours/yr for maintenance	<u>BAAQMD</u>	<u>M</u>	Records
Operation	<u>9-8-330</u>			and testing	9-8-520.1 &		
					<u>9-8-530</u>		
Hours of	CCR, Title	<u>N</u>		20 hours/yr for maintenance	CCR, Title	<u>C</u>	<u>Totalizing</u>
<u>Operation</u>	17, Section			and testing	17, Section		<u>Counter</u>
	<u>93115.</u>				93115.10(e)		
	6(b)(3)(A)				<u>(1)</u>		
	<u>(1)(a)</u>						
Hours of	CCR, Title	<u>N</u>		20 hours/yr for maintenance	CCR, Title	<u>M</u>	Records
<u>Operation</u>	17, Section			and testing	17, Section		
	<u>93115.</u>				93115.10(g)		
	<u>6(b)(3)(A)</u>						
	<u>(1)(a)</u>						

VIII. Applicable Emission Limits & Compliance Monitoring Requirements (continued)

<u>Table VII – N</u> <u>Applicable Limits and Compliance Monitoring Requirements</u> <u>S-34 Caustic Pump Diesel Engine</u>

True of	Citation of	מוסו	<u>Future</u>		<u>Monitoring</u>	Monitoring	Monitoring
Type of Limit	Citation of Limit	<u>FE</u> <u>Y/N</u>	Effective Date	Limit	Requirement Citation	Frequency (P/C/N)	Monitoring Type
			Date		Citation		<u>Type</u>
<u>NOx</u>	BAAQMD	<u>Y</u>		<u>5.4 g/bhp-hr</u>		<u>N</u>	
	<u>Condition</u>						
	<u>#20581,</u>						
	part 3						
<u>CO</u>	BAAQMD	<u>Y</u>		1.0 g/bhp-hr		<u>N</u>	
	Condition						
	<u>#20581,</u>						
	part 4						
<u>POC</u>	BAAQMD	<u>Y</u>		<u>0.6 g/bhp-hr</u>		<u>N</u>	
	Condition						
	<u>#20581,</u>						
	part 5						
<u>PM10</u>	BAAQMD	<u>Y</u>		0.6 g/bhp-hr		<u>N</u>	
	Condition						
	<u>#20581,</u>						
	<u>part 6</u>						
Hours of	BAAQMD			Restricted operation	BAAQMD		Totalizing
Operation	Condition				Condition		Counter
	<u>#20581,</u>				<u>#20581,</u>		
	part 7				<u>part 10</u>		

<u>Table VII – O</u> <u>Applicable Limits and Compliance Monitoring Requirements</u> <u>S-36 NATURAL GAS-FIRED IC ENGINE</u>

Type of Limit	Citation of Limit	<u>FE</u> <u>Y/N</u>	Future Effective Date	<u>Limit</u>	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-303.1	<u>N</u>		> Ringelmann No. 2 for no more than 3 minutes in any hour		<u>N</u>	

Expiration Date: 7 01 02

VIII. Applicable **Emission** Limits & Compliance Monitoring Requirements (continued)

Table VII – O **Applicable Limits and Compliance Monitoring Requirements** S-36 NATURAL GAS-FIRED IC ENGINE

Type of Limit	Citation of Limit	<u>FE</u> <u>Y/N</u>	Future Effective Date	<u>Limit</u>	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	<u>SIP</u> 6-303.1	Y		> Ringelmann No. 2 for no more than 3 minutes in any hour		N	
<u>FP</u>	BAAQMD 6-1-310	<u>N</u>		0.15 grain/dscf		<u>N</u>	
<u>FP</u>	<u>SIP</u> 6-310	<u>Y</u>		0.15 grain/dscf		<u>N</u>	
NOx	BAAQMD Condition #20509, part 3	<u>Y</u>		<u>0.15 g/bhp-hr</u>		<u>P</u>	
CO	BAAQMD Condition #20509, part 3	Y		0.6 g/bhp-hr		<u>P</u>	
POC	BAAQMD Condition #20509, part 3	<u>Y</u>		<u>0.15 g/bhp-hr</u>		<u>P</u>	

VIII. TEST METHODS

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

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of
6- <u>1-</u> 301		Visible Emissions; or US EPA Method 9
BAAQMD	Ringelmann No. 2 Limitation	Manual of Procedures, Volume I, Evaluation of
6-1-303		Visible Emissions; or US EPA Method 5,
<u> </u>		Determination of Particulate Matter Emissions
		<u>from Stationary Sources</u>
BAAQMD	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15,
6- <u>1-</u> 310		Particulates Sampling or US EPA Method 5,
		Determination of Particulate Matter Emissions
		<u>from Stationary Sources</u>
BAAQMD	General Operations	Manual of Procedures, Volume IV, ST-15,
6- <u>1-</u> 311		Particulates Sampling or US EPA Method 5,
		Determination of Particulate Matter Emissions
		<u>from Stationary Sources</u>
BAAQMD	Sulfuric Acid Manufacturing	Manual of Procedures, Volume IV, ST-20,
6- <u>1-</u> 320	Plants	Sulfur Dioxide, Sulfur Trioxide and Sulfuric
		Acid Mist
BAAQMD	Gasoline Vapor Recovery	BAAQMD Manual of Procedures, Volume IV,
Regulation		ST-36
8-7-301.2		
BAAQMD	Ground Level SO ₂	BAAQMD Manual of Procedures, Volume VI,
Regulation 9-1-301		Section 1
BAAQMD	General Emission Limitation	Manual of Procedures, Volume IV, ST-19A,
9-1-302		Sulfur Dioxide, Continuous Sampling; or ST-
		19B, Total Sulfur Oxides Integrated Sample
<u>BAAQMD</u>	Fuel Burning (Liquid and Solid	Manual of Procedures, Volume III, Method 10,
<u>9-1-304</u>	<u>Fuels</u>)	<u>Determination of Sulfur in Fuel Oil</u>
SIP 9-1-301	Ground Level SO2	BAAQMD Manual of Procedures, Volume VI,
		Section 1
SIP 9-1-308	SO2 Emission Point	BAAQMD Manual of Procedures, Volume V
		(CEM Policy and Procedures)
BAAQMD	SO ₂ Emission Point	BAAQMD-Manual of Procedures, Volume V
Regulation 9-1-309		(CEM Policy and Procedures)
SIP 9-1-309	SO2 Emission Point	BAAQMD Manual of Procedures, Volume V
		(CEM Policy and Procedures)
BAAQMD	Acid Mist Emission Point	40 CFR 60, Appendix Aa, Method 8.
Regulation		Determination of Sulfuric Acid Mist and Sulfur
12-6-301		Dioxide Emissions from Stationary Sources

VIII. Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Regulation 9-7-301.1	NOx Concentration Limit	BAAQMD-Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Regulation 9-7-301.2	CO Concentration Limit	BAAQMD Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
40 CFR 60.31d	Emissions Guidelines	40 CFR 60, Appendix A, Method 8, Determination of Sulfuric Acid Mist and Sulfur Dioxide Emissions from Stationary Sources
BAAQMD Condition #7606, part 2	NOx Concentration Limit	BAAQMD Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling
BAAQMD Condition #7606, part 3	CO Concentration Limit	BAAQMD Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling

IX. PERMIT SHIELD

Pursuant to District Regulations 2-6-233 and 2-6-409.12, the federally enforceable regulations and/or standards cited in the following table[s] do not apply are not applicable to the source or group of sources identified at the top of the table[s]. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the regulatory and/or statutory provisions cited, as long as the reasons listed below remain valid for the source or group of sources covered by this shield.

Table IX-A S-1 Sulfuric Acid Manufacturing Process

Citation	Title or Description
	(Reason not applicable)
SIP BAAQMD 9-1-	General Emission Limitation
302	(Source is subject to Section 9-1-309)
SIP BAAQMD 6-	Opacity Limitation
302	(SIP regulations do not require opacity monitoring for this source)
40 CFR 60.82	Standards of Performance for Sulfuric Acid Plants
	(Source constructed prior to 8/17/71 and not modified as defined by 40 CFR 60.14
	since 8/17/71)
40 CFR 60.83	Standards of Performance for Sulfuric Acid Plants
	(Source constructed prior to 8/17/71 and not modified as defined by 40 CFR 60.14
	since 8/17/71)

Table IX-B S-24 Sulfuric Acid Manufacturing Process

Citation	Title or Description
	(Reason not applicable)
SIP BAAQMD	General Emission Limitation
9-1-302	(Source is subject to Section 9-1-309)
SIP BAAQMD	Opacity Limitation
6-302	(SIP regulations do not require opacity monitoring for this source)
40 CFR 60.82	Standards of Performance for Sulfuric Acid Plants
	(Source is not Sulfuric Acid Manufacturing as defined by 60.81(a))
40 CFR 60.83	Standards of Performance for Sulfuric Acid Plants
	(Sources is not Sulfuric Acid Manufacturing as defined by 60.81(a))

Table IX-C Facility-Wide

Citation	Title or Description (Reason not applicable)
SIP BAAQMD 6-	Opacity Limitation
302	(SIP regulations do not require opacity monitoring for these sources)

X. Revision History

Initial Title V Permit Issuance: July 1, 1997

Expiration Date: 7 01 02

GLOSSARY

ACT

Federal Clean Air Act

APCO

Air Pollution Control Officer

ARB

Air Resources Board

BAAQMD

Bay Area Air Quality Management District

Best Available Control Technology

BARCT

Best Available Retrofit Control Technology

The underlying authority that allows the District to impose requirements.

C5

An Organic chemical compound with five carbon atoms

C6

An Organic chemical compound with six carbon atoms

CAA

The federal Clean Air Act

CAAQS

California Ambient Air Quality Standards

CAPCOA

California Air Pollution Control Officers Association

CEOA

California Environmental Quality Act

CEM

A "continuous emission monitor" is a monitoring device that provides a continuous direct measurement of some pollutant (e.g. NOx concentration) in an exhaust stream.

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.

Expiration Date: 7 01 02

X. Glossary -(continued)

CO

Carbon Monoxide

CO_2

Carbon Dioxide

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

Dry Standard Cubic Feet

dscm

Dry Standard Cubic Meter

E 6, E 9, E 12

Very large or very small number values are commonly expressed in a form called scientific notation, which consists of a decimal part multiplied by 10 raised to some power. For example, 4.53 ± 6 equals $(4.53) \times (10^6) = (4.53) \times (10 \times 10 \times 10 \times 10 \times 10 \times 10) = 4.530,000$. Scientific notation is used to express large or small numbers without writing out long strings of zeros.

EPA

The federal Environmental Protection Agency.

Excluded

Not subject to any District Regulations.

Federally Enforceable, FE

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

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

FR

Federal Register

GDF

Final Permit for Facility #: A0023 Expiration Date: 7 01 02

X. Glossary -(continued)

Gasoline Dispensing Facility

GLM

Ground Level Monitor

grains

1/7000 of a pound

Graphitic

Made of graphite.

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 both 40 CFR Part 63, and District Regulation 2, Rule 5.

H_2S

Hydrogen Sulfide

H₂SO₄

Sulfuric Acid

Hg

Mercury

HHV

Higher Heating Value. The quantity of heat evolved as determined by a calorimeter where the combustion products are cooled to 60F and all water vapor is condensed to liquid.

LHV

Lower Heating Value. Similar to the higher heating value (see HHV) except that the water produced by the combustion is not condensed but retained as vapor at 60F.

Long ton

2200 pounds

Major Facility

A facility with potential emissions of regulated air pollutants greater than or equal to 100 tons per year, greater than or equal to 10 tons per year of any single hazardous air pollutant, and/or greater than or equal to 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity 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

Expiration Date: 7 01 02

X. Glossary (continued)

The District's Manual of Procedures.

MSDS

Material Safety Data Sheet

NA

Not Applicable

NAAQS

National Ambient Air Quality Standards

NESHAPs

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

NMHC

Non-methane Hydrocarbons

NMOC

Non-methane Organic Compounds (Same as NMHC)

NOx

Oxides of nitrogen.

NSPS

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

NSR

New Source Review. A federal program for preconstruction review and permitting of new and modified sources of air pollutants for which the District is classified "non-attainment". Mandated by Title I of the Clean Air Act and implemented by 40 CFR Parts 51 and 52 as well as District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

O₂

The chemical name for naturally-occurring oxygen gas.

Offset Requirement

A New Source Review requirement to provide federally enforceable emission offsets at a specified ratio for the emissions from a new or modified source and any pre-existing cumulative increase minus any on site contemporaneous emission reduction credits. The offsets requirement applies to emissions of POC, NOx, PM10, and SO₂.

Phase II Acid Rain Facility

Expiration Date: 7 01 02

X. Glossary -(continued)

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.

Permit Shield

A provision in an operating permit issued under Title V of the federal Clean Air Act as amended in 1990 that identifies federally enforceable requirements that do not apply to a source or group of sources. Once such provisions are put under a permit shield, enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the regulatory and/or statutory provisions cited.

POC

Precursor Organic Compounds

PM10

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

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 Ambient Air Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

RMG

Refinery Make Gas

SCR

A "selective catalytic reduction" unit is an abatement device that reduces NOx concentrations in the exhaust stream of a combustion device. SCRs utilize a catalyst, which operates at a specific temperature range, and injected ammonia to promote the conversion of NOx compounds to nitrogen gas.

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.

SO_2

Sulfur dioxide

SO_3

Sulfur trioxide

THC

Total Hydrocarbons (NMHC + Methane)

therm

X. Glossary -(continued)

100,000 British Thermal Unit

Title V

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

TRMP

Toxic Risk Management Plan

TRS

"Total reduced sulfur" is a measure of the amount of sulfur-containing compounds in a gas stream, typically a fuel gas stream, including, but not limited to, hydrogen sulfide. The TRS content of a fuel gas determines the concentration of SO2 that will be present in the combusted fuel gas, since sulfur compounds are converted to SO2 by the combustion process.

TSP

Total Suspended Particulate

TVP

True Vapor Pressure

VOC

Volatile Organic Compounds

Units of Measure:

bbl	=	barrel of liquid (42 gallons)
bhp	=	brake-horsepower
BTU	=	British Thermal Unit
C	=	degrees Celsius
F	=	degrees Fahrenheit
$f^3 =$	cubic f	eet
g	=	grams
gal	=	gallon
gpm	=	gallons per minute
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
m^2	=	square meter
min	=	minute

X. Glossary -(continued)

M = thousand

Mg = mega-gram, one thousand grams $\mu g = micro-gram$, one millionth of a gram

MM = million
mm = millimeter
MM BTU= million BTU

mm Hg = millimeters of Mercury (pressure)

MW = megawatts

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

Symbols:

< = less than
> = greater than

< = less than or equal to > = greater than or equal to

Final Permit for Facility #: A0023 Expiration Date: 7 01 02

XII. APPENDIX A - STATE IMPLEMENTATION PLAN

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

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