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TITLE V FEDERAL OPERATING PERMIT
AND
SMAQMD RULE 201 PERMIT TO OPERATE

ISSUED TO:

THE PROCTER & GAMBLE MANUFACTURING COMPANY
8201 FRUITRIDGE ROAD
SACRAMENTO, CA 95826

PLANT SITE LOCATION:
8201 FRUITRIDGE ROAD
SACRAMENTO, CA 95826

PERMIT NO:
TV2008-02-01

DATE PERMIT ISSUED:
APRIL 30, 2009

DATE PERMIT EXPIRES:
APRIL 30, 2014

RESPONSIBLE OFFICIAL:
BURNELL BLANCHARD
PLANT MANAGER
(916) 383-3800

CONTACT PERSON:
ALFREDO NIETO
ENVIRONMENTAL MANAGER
(916) 381-9851

NATURE OF BUSINESS: SYNTHETIC ORGANIC CHEMICAL MANUFACTURING

STANDARD INDUSTRIAL CLASSIFICATION (SIC): 2869

LARRY GREENE
AIR POLLUTION CONTROL OFFICER

BY: _____
ADY R. SANTOS
AIR QUALITY ENGINEER

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I. PERMIT SUMMARY

This permit shall serve as a conditional permit to operate pursuant to SMAQMD Rule 201(General Permit Requirements) and SMAQMD Rule 207 (Title V - Federal Operating Permit Program). Requirements identified in the permit as non-federally enforceable are not enforceable by the U.S. EPA. However, they are enforceable by the Sacramento Metropolitan Air Quality Management District (SMAQMD).

The application for this air quality Permit to Operate was evaluated for compliance with SMAQMD, State, and Federal air quality rules and regulations. The following listed rules are those that were found to be applicable at the time of permit review, based on the information submitted with the Title V permit application. Future changes in prohibitory rules may establish more stringent requirements that may, at the local level, supersede the conditions listed here. For Title V purposes however, the federally enforceable requirements are those found in the Title V permit. Federally enforceable provisions of the Title V permit do not change until the Title V permit is revised.

Citation	Description	Rule Date	Federally Enforceable?
SMAQMD Rule 101	General Provisions and Definitions	09/03/98	Yes
SMAQMD Rule 102	Circumvention	11/29/83	Yes
SMAQMD Rule 103	Exceptions	11/29/83	Yes
SMAQMD Rule 104	General Conformity	11/03/94	Yes
SMAQMD Rule 105	Emission Statement	04/20/93	Yes
SMAQMD Rule 108	Minor Violation	10/01/98	No
SMAQMD Rule 201	General Permit Requirements (SIP approved)	11/20/84	Yes
SMAQMD Rule 201	General Permit Requirements (Not SIP approved)	08/24/06	No
SMAQMD Rule 202	New Source Review (SIP approved)	11/20/84	Yes
SMAQMD Rule 202	New Source Review (Not SIP approved)	02/24/05	No
SMAQMD Rule 204	Emission Reduction Credits	09/05/96	No
SMAQMD Rule 207	Title V – Federal Operating Permit Program (Not SIP approved but the rule is applicable as part of U.S. EPA approval of the SMAQMD Title V Program)	04/26/01	Yes
SMAQMD Rule 301	Permit Fees – Stationary Source (Not SIP approved but Title V fees in the rule is applicable as part of U.S. EPA approval of the SMAQMD Title V Program)	07/02/07	Yes (Title V provisions only)
SMAQMD Rule 306	Air Toxics Fees	03/27/03	No
SMAQMD Rule 401	Ringelmann Chart	04/19/83	Yes
SMAQMD Rule 402	Nuisance	08/03/77	No

I. PERMIT SUMMARY

Citation	Description	Rule Date	Federally Enforceable?
SMAQMD Rule 403	Fugitive Dust	11/29/83	Yes
SMAQMD Rule 404	Particulate Matter	11/20/84	Yes
SMAQMD Rule 405	Dust and Condensed Fumes	11/29/83	Yes
SMAQMD Rule 406	Specific Contaminants	11/29/83	Yes
SMAQMD Rule 407	Open Burning	06/04/98	Yes
SMAQMD Rule 411	Boiler NOx (SIP approved)	02/02/95	Yes
SMAQMD Rule 411	Boiler NOx (Not SIP approved)	08/23/07	No
SMAQMD Rule 420	Sulfur Content of Fuels	11/29/83	Yes
SMAQMD Rule 441	Organic Solvents	11/29/83	Yes
SMAQMD Rule 442	Architectural Coatings (SIP approved)	09/05/96	Yes
SMAQMD Rule 442	Architectural Coatings (Not SIP approved)	05/24/01	No
SMAQMD Rule 443	Leaks from Synthetic Organic Chemical and Polymer Manufacturing	09/05/96	Yes
SMAQMD Rule 447	Organic Liquid Loading	04/02/98	Yes
SMAQMD Rule 460	Adhesives and Sealants	11/30/00	No
SMAQMD Rule 464	Organic Chemical Manufacturing Operations	07/23/98	Yes
SMAQMD Rule 466	Solvent Cleaning	09/25/08	No
SMAQMD Rule 602	Breakdown Conditions: Emergency Variance	11/29/83	No
SMAQMD Rule 701	Emergency Episode Plan	05/27/99	Yes
SMAQMD Rule 801	New Source Performance Standards	06/28/01	Yes
SMAQMD Rule 901	General Requirements	06/02/75	No
SMAQMD Rule 902	Asbestos	10/01/98	No
40 CFR 60, Subpart VV	Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry	10/18/83	Yes
40 CFR 60, Subpart NNN	Standards of Performance for Volatile Organic Compound (VOC) Emissions from Synthetic Organic Chemical Manufacturing Industry (SOCMI) Distillation Operations	06/29/90	Yes
40 CFR 60. Subpart RRRR	Standards of Performance for Volatile Organic Compound (VOC) Emissions from Synthetic Organic Chemical Manufacturing Industry (SOCMI) Reactor Processes	08/31/93	Yes

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Citation	Description	Rule Date	Federally Enforceable?
40 CFR 61, Subpart M	National Emission Standard for Asbestos	04/05/84	Yes
40 CFR 61, Subpart V	National Emission Standards for Equipment Leaks (Fugitive Emission Sources)	06/06/84	Yes
40 CFR 63, Subpart F	National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry	04/22/94	Yes
40 CFR 63, Subpart Q	National Emission Standard for Hazardous Air Pollutants for Industrial Cooling Towers	09/08/84	Yes
40 CFR 63, Subpart EEEE	National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)	02/03/04	Yes
40 CFR 63, Subpart FFFF	National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing	11/10/03	Yes
40 CFR 82, Subpart F	Protection of Stratospheric Ozone – Recycling and Emissions Reduction	01/31/94	Yes

II. FACILITY DESCRIPTION

The Procter & Gamble Manufacturing Company (P&G) Sacramento site is a complex industrial facility with many emission units and fugitive sources. It processes oils, such as coconut and palm kernel oil, to make a number of products. Products include fatty alcohol, glycerine, fatty acids, and fatty esters. Incoming oil is converted into methyl esters and glycerine. The glycerine is processed to remove some of the residual fatty materials and water. Crude esters are sent to distillation where methyl ester is separated into various fractions. Distilled esters are hydrogenated into fatty alcohol. The resulting crude alcohol is distilled and separated into various fractions. Another process in the plant converts fatty esters into fatty acids. This involves both reaction and purification steps. The plant sometimes processes intermediates shipped to and from other plants. The site contains emission sources generated from the oleochemical process as well as miscellaneous support equipment.

P&G uses two centrifuge systems (each consisting of a centrifuge, slurry tank and effluent tank) to separate catalyst from fatty alcohol. Air, methanol vapor, and small amounts of entrained fatty alcohol are pulled from each tank under a slight vacuum, combined in a single vent header, and drawn through the methanol absorber. The methanol absorber consists of a packed-column unit where the methanol is absorbed by temperature-controlled water. The resulting alcohol/methanol/water mixture is pumped to an oil/water separator to recover the fatty alcohol. The methanol/water mixture is then recovered back into the manufacturing process.

III. ADMINISTRATIVE REQUIREMENTS – FEDERALLY ENFORCEABLE

A. TITLE V PERMIT MODIFICATIONS AND RENEWAL

1. The owner or operator of the stationary source shall submit to the Air Pollution Control Officer a complete Title V permit application for renewal no later than April 30, 2013 (12 months prior to the expiration date of the Title V permit). **[SMAQMD Rule 207, Section 301.4]**

2. The owner or operator of the stationary source shall submit to the Air Pollution Control Officer a complete Title V permit application for any minor Title V permit modification. The application shall be submitted after receiving any required preconstruction permit from the SMAQMD but before commencing operation associated with the Minor Title V permit modification. **[SMAQMD Rule 207, Section 301.6]**

3. The owner or operator of the stationary source shall submit to the Air Pollution Control Officer a complete Title V permit application for any significant Title V permit modification. The application shall not be submitted prior to receiving any required preconstruction permit from the SMAQMD but no later than twelve months after commencing an operation associated with the significant Title V permit modification. Where an existing federally enforceable Title V permit condition would prohibit such change in operation or the stationary source is not required to obtain a preconstruction permit, the owner or operator must obtain a Title V permit modification before commencing operation. **[SMAQMD Rule 207, Section 301.7]**

4. The applicant shall submit to the Air Pollution Control Officer timely updates to the Title V application as new requirements become applicable to the source. **[SMAQMD Rule 207, Section 302.1]**

5. The applicant shall submit to the Air Pollution Control Officer any additional information necessary to correct any incorrect information in the Title V permit application upon becoming aware of such incorrect submittal or if the applicant is notified by the Air Pollution Control Officer of such incorrect submittal. **[SMAQMD Rule 207, Section 302.2]**

6. The applicant shall submit to the Air Pollution Control Officer any additional information relating to the Title V application within 30 days if such information is requested in writing by the Air Pollution Control Officer. **[SMAQMD Rule 207, Section 302.3]**

7. The stationary source shall not operate after the time that it is necessary to submit a timely and complete Title V application except in compliance with this Title V permit. Prior to a final permitting action, the stationary source shall not be in violation and shall not be subject to enforcement action for operating without a Title V permit to operate if the stationary source has complied with all of the following requirements: **[SMAQMD Rule 207, Section 303.1]**
   a. The applicant has submitted to the Air Pollution Control Officer a complete Title V permit application in a timely manner required pursuant to SMAQMD Rule 207, Section 301;

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b. The applicant continues to submit to the Air Pollution Control Officer timely updates to the Title V permit application required to SMAQMD Rule 207, Section 302.1;
c. The applicant submits to the Air Pollution Control officer any additional information required pursuant to SMAQMD Rule 207, Sections 302.2 and 302.3; and
d. The Title V permit has not been cancelled, suspended, or terminated.

8. Title V permit expiration terminates the stationary source's right to operate unless a timely and complete Title V permit application for renewal has been submitted and the stationary source complies with Sections 303.1(a), (b), (c), and (d) of SMAQMD Rule 207, in which case the existing Title V permit will remain in effect until the Title V permit renewal has been issued or denied. **[SMAQMD Rule 207, Section 303.2]**

9. Any Title V application form, report, or compliance certification submitted pursuant to a federally enforceable requirement in this permit shall contain certification by a responsible official. 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. **[SMAQMD Rule 207, Section 304]**

10. This Title V permit shall have a five-year fixed term from the date of issuance. The Title V permit shall have a new five-year fixed term from the date of final action on reopening if the responsible official chooses to submit to the SMAQMD a complete Title V application for renewal upon reopening of the Title V permit pursuant to Sections 411 or 412 of SMAQMD Rule 207, and the Title V permit is renewed according to the administrative procedures listed in Sections 401 through 408 of Rule 207. **[SMAQMD Rule 207, Section 306]**

B. SMAQMD (LOCAL) AUTHORITY TO CONSTRUCT AND PERMIT TO OPERATE

11. Any person building, erecting, altering or replacing any article, machine, equipment or other contrivance, the use of which may cause, eliminate, reduce, or control the issuance of air contaminants, shall first obtain authorization for such construction from the Air Pollution Control Officer as specified in SMAQMD Rule 201, Section 403. An authority to construct shall remain in effect until a permit to operate the equipment is granted or denied or the application is canceled. An authority to construct shall expire two years from the date of issuance. If a written request to extend the authority to construct is received by the Air Pollution Control Officer prior to the expiration of the authority to construct, an extension may be granted for two years if the Air Pollution Control Officer determines that: (1) a good faith effort to complete the project has been made, and (2) the parameters of the project remain the same as in the initial application. **[SMAQMD Rule 201, Section 301]**

12. Any person operating an article, machine, equipment or other contrivance, the use of which may cause, eliminate, reduce, or control the issuance of air contaminants, shall first obtain a written permit from the Air Pollution Control Officer. No permit to operate

III. ADMINISTRATIVE REQUIREMENTS – FEDERALLY ENFORCEABLE

or use shall be granted either by the Air Pollution Control Officer or the SMAQMD Hearing Board for any article, machine, equipment or contrivance, the use of which may cause, eliminate, reduce, or control the issuance of air contaminants, constructed or installed without authorization as required by SMAQMD Rule 201, Section 301, until the information required is presented to the Air Pollution Control Officer and such article, machine, equipment or contrivance, the use of which may cause, eliminate, reduce, or control the issuance of air contaminants, is altered, if necessary, and made to conform to the standards set forth in SMAQMD Rule 201, Section 303,or elsewhere in the Rules and Regulations of the SMAQMD, and in the California Health and Safety Code. **[SMAQMD Rule 201, Section 302]**

C. PAYMENT OF FEES

13. The fee for (1) the issuance of an initial Title V operating permit, (2) the renewal and/or inspection of a Title V operating permit, (3) the modification of a Title V operating permit or (4) an administrative Title V permit amendment shall be based on the actual hours spent by the SMAQMD staff in evaluating the application and processing the operating permit. The fee shall be assessed in accordance with the hourly rate established in Section 308.12 of SMAQMD Rule 301. **[SMAQMD Rule 207 Section 305.7 and Rule SMAQMD 301 Section 313]**

14. After the provisions for granting permits as set forth in SMAQMD Rule 207 have been complied with, the permittee will be notified by mail of the fee due and payable and the date the fee is due. If the fee is not paid by the specified due date, the fee shall be increased by one half the amount and the applicant/permittee shall be notified by mail of the increased fee. If the increased fee is not paid within 30 days after notice the application/permit will be canceled/revoked and the applicant/permittee will be notified by mail. **[SMAQMD Rule 207, Section 305.7 & SMAQMD Rule 301, Section 401]**

D. COMPLIANCE

15. The permittee must comply with all conditions of the Title V permit. **[SMAQMD Rule 207, Section 305.1(k)(1)]**

16. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the Title V permit. **[SMAQMD Rule 207, Section 305.1(k)(2)]**

17. This Title V permit may be modified, revoked, reopened, and reissued, or terminated for cause. **[SMAQMD Rule 207, Section 305.1(k)(3)]**

18. The permittee shall furnish to the Air Pollution Control Officer, within a reasonable time, any information that the Air Pollution Control Officer may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit pursuant to SMAQMD Rule 207, Section 411, or to determine compliance with this Title V permit. Upon request, the permittee shall also furnish to the Air Pollution Control

III. ADMINISTRATIVE REQUIREMENTS – FEDERALLY ENFORCEABLE

Officer copies of records required to be kept by conditions of this permit or, for information claimed to be confidential, the permittee may furnish such records directly to the U.S. EPA along with a claim of confidentiality. **[SMAQMD Rule 207, Section 305.1(k)(4)]**

19. Noncompliance with any federally enforceable requirement in this Title V permit is grounds for Title V permit termination, revocation and reissuance, modification, enforcement action, or denial of the Title V permit renewal application. Any violation of the Title V permit shall also be a violation of SMAQMD Rule 207. **[SMAQMD Rule 207, Section 305.1(k)(5)]**

20. A pending Title V permit action or notification of anticipated noncompliance does not stay any permit condition. **[SMAQMD Rule 207, Section 305.1(k)(6)]**

21. This Title V permit does not convey any property rights of any sort, or any exclusive privilege. **[SMAQMD Rule 207, Section 305.1(k)(7)]**

E. INSPECTION AND ENTRY

22. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Air Pollution Control Officer or an authorized representative to perform all of the following: **[SMAQMD Rule 207, Section 413.1]**
    a. Enter upon the stationary source's premises where this source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
    b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Title V permit;
    c. Inspect at reasonable times, the stationary source, equipment (including monitoring and air pollution control equipment), practices and operations regulated or required under this Title V permit; and
    d. As authorized by the Federal Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the Title V permit conditions or applicable federal requirements.

F. SCHEDULE OF COMPLIANCE AND PROGRESS REPORTS

23. If the facility is required to submit a schedule of compliance to remedy violations, the schedule of compliance shall contain: **[SMAQMD Rule 207, Section 413.2]**
    a. A description of the compliance status of the stationary source with respect to all applicable requirements; and
        (1) For applicable requirements with which the source is in compliance, a statement that the source will continue to comply with such requirements.
        (2) For applicable requirements that will become effective during the Title V term, a statement that the source will meet such requirements on a timely basis. A more detailed schedule may be required by the applicable requirements.

III. ADMINISTRATIVE REQUIREMENTS – FEDERALLY ENFORCEABLE

(3) For applicable requirements for which the source is not in compliance at the time of Title V permit issuance, a narrative description of how the source will achieve compliance with such requirements and a schedule of remedial measures, including an enforceable sequence of actions with milestones leading to compliance. The narrative and schedule shall resemble and be at least as stringent as that contained in any judicial consent decree or administrative order to which the stationary source is subject. Any such narrative and schedule shall be supplemental to, and shall not sanction noncompliance with the applicable requirements on which it is based.

b. A schedule for the submission of certified progress reports no less frequently than every six months.

24. If the permitee is required to submit certified progress reports to the Air Pollution Control Officer on any schedule of compliance in the Title V permit, the certified progress reports shall be submitted at least every six months or more frequently if required by an applicable requirement. The progress reports shall be certified by the responsible official consistent with SMAQMD Rule 207, Section 304 and shall contain all of the following: **[SMAQMD Rule 207, Section 413.3]**
    a. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones, or compliance are achieved; and
    b. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measures adopted.

G. ANNUAL COMPLIANCE CERTIFICATION REPORTS

25. The permittee shall submit to the Air Pollution Control Officer and EPA on an annual basis, unless required more frequently by additional applicable federal requirements such as Section 114(a)(3) and 504(b) (42 U.S.C. Sections 7414(a)(3) and 7661c(b)) of the Federal Clean Air Act, a certification of compliance by the responsible official with all terms and conditions contained in the Title V permit, including emission limitations, standards, and work practices. The compliance certification shall include the following: **[SMAQMD Rule 207, Section 413.4]**
    a. The identification of each term or condition of this Title V permit that is the basis of the certification;
    b. The compliance status and whether compliance was continuous or intermittent;
    c. The method(s) used for determining the compliance status of the source, currently, and over the compliance period;
    d. Such other facts the Air Pollution Control Officer may require to determine the compliance status of the source; and
    e. In accordance with SMAQMD Rule 207, Section 305, a method for monitoring the compliance status of the stationary source with its emission limitations, standards, and work practices.

26. The compliance certification reporting period for this permit shall be January 1 through December 31. The report shall be submitted by January 30 of each year. **[SMAQMD Rule 207, Section 305.6**

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H. SEMI-ANNUAL MONITORING REPORTS

27. The permittee shall submit reports of any required monitoring at least every six months. All instances of deviations from Title V permit conditions must be clearly identified in such reports. **[SMAQMD Rule 207, Section 501.1]**

28. The monitoring reporting periods for this permit shall be for the six-month periods of January 1 through June 30 and July 1 through December 31. The monitoring reports shall be submitted by July 30 and January 30 of each year respectively. **[SMAQMD Rule 207, Section 501.1]**

29. All required monitoring data and support information required by a federally enforceable applicable requirement must be kept by the stationary source for a period of five years from the date of the monitoring sample, measurement, report or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the federally enforceable applicable requirement in the Title V permit. **[Rule 207 Section 502.3]**

I. ANNUAL EMISSION STATEMENT

30. The owner or operator of the stationary source which emits twenty-five (25) tons or more per year of either oxides of nitrogen or volatile organic compounds shall, annually, provide the SMAQMD with a written emission statement showing actual emissions of volatile organic compounds and oxides of nitrogen from that source. **[SMAQMD Rule 105, Section 301.1]**

31. The emission statement shall be in a form provided by the Air Pollution Control Officer, and shall contain the following information: **[SMAQMD Rule 105, Section 301.2]**
    a. Information contained in the California Air Resources Board's Emission Inventory Turn Around Document as described in Instructions for the Emission Data System Review and Update Report (August, 1991);
    b. Actual emissions of volatile organic compounds and oxides of nitrogen, in tons per year, for the calendar year prior to the preparation of the emission statement;
    c. Information regarding any seasonal or diurnal peaks in the emission of affected pollutants; and
    d. Certification by a responsible official of the company that the information contained in the emission statement is accurate to the best knowledge of the individual certifying the emission statement.

32. Annual Emission Inventory Survey forms shall be submitted to the SMAQMD no later than March 15 of each calendar year. **[SMAQMD Rule 105, Section 301.3]**

III. ADMINISTRATIVE REQUIREMENTS – FEDERALLY ENFORCEABLE

33. The owner or operator of any source subject to this section may comply with the provisions of this section by satisfying either of the following requirements: **[SMAQMD Rule 105, Section 301.4]**
    a. Once the owner or operator of a source that is regulated by this rule submits an Annual Emission Inventory Survey Form (by March 15), the SMAQMD will prepare an emission statement for certification by the responsible official. The responsible official must certify the emission statement and return it to the District within 30 days of receipt; or
    b. If the owner or operator believes that the information in the emission statement provided by the SMAQMD is not correct, the owner or operator may revise the emissions information, using a form and methodology approved by the Air Pollution Control Officer. The revised emission information shall be returned to the Air Pollution Control Officer within 30 days of receipt of the emissions statement provided by the District, and the responsible official shall certify that the revised emission information is accurate, to the best knowledge of the individual certifying the statement.

J. EMERGENCY EPISODE PLAN

34. The operator of the stationary source or a combination of stationary and mobile sources shall have on file an emergency episode abatement plan approved by the Air Pollution Control Officer. Whenever a new permit to operate is approved by the District, and whenever a modification to an existing permit to operate is approved, pursuant to SMAQMD Rule 202-*New Source Review*, the Air Pollution Control Officer may require the operator to file an addendum to the approved plan. **[SMAQMD Rule 701, Section 301]**

35. The Air Pollution Control Officer will review emergency episode abatement plans and approve only such plans that the Air Pollution Control Officer determines will effectively reduce affected air pollutant emission levels during a declared stage 1, 2 or 3 episode. The plans shall include, but not be limited to, facility and abatement action information indicated in SMAQMD Rule 701, Sections 301.3 and 301.4. **[SMAQMD Rule 701, Section 301]**
    a. Facility Information:
        (1) Name and location of the facility
        (2) Number of Employees
        (3) Employee vehicles:
            (a) Number
            (b) Total average daily commute mileage
        (4) Fleet vehicles:
            (a) Number of vehicles and type of fuel used in each vehicle
            (b) Total average daily mileage of each type
        (5) Stationary source:
            (a) Type of equipment that emits air pollutants and number of units of each type.

III. ADMINISTRATIVE REQUIREMENTS – FEDERALLY ENFORCEABLE

(b) Total potential emissions of each affected pollutant in pounds per operating day from each type of equipment including any significant variations occurring seasonally or differences in emissions on weekends and holidays. If available, this data may be supplied from District records.

(6) Procedures for briefing employees regarding the abatement plan requirements:
- (a) Procedures for notifying employees and individuals responsible for emissions curtailment action to be taken.
- (b) Where applicable, a procedure for limiting strenuous activities by students.
- (c) The job titles and telephone numbers of the episode action coordinator and alternate.
- (d) The job title and telephone number of the official responsible for implementation of the plan.
- (e) Other information as required by the Air Pollution Control Officer.

b. Abatement Actions
(1) Direct Emissions
- (a) Identification of equipment for which emissions are to be curtailed at each episode stage and expected reduction of emissions of each pollutant in pounds per operating day.
- (b) Time required to accomplish the emissions curtailment at each episode stage.
- (c) Reduction in fuel oil, natural gas, and electrical consumption expected at each episode stage.

(2) Indirect Emissions
- (a) Measures to be implemented at each episode stage to reduce public travel to the facility.
- (b) An estimate of the reduction in vehicle trips to the facility at each episode stage.
- (c) Procedure for encouraging voluntary carpools at each episode stage
- (d) Measures to be implemented at each episode stage to reduce employee use of company owned or fleet vehicles.

36. The operator or episode action coordinator shall prepare and submit a report of the abatement plan's effectiveness when implemented in response to a stage 1, stage 2 or stage 3 episode, within 60 days of a request by the Air Pollution Control Officer. Such report shall include the following information, as applicable: **[SMAQMD Rule 701, Section 302]**
- a. An estimate of the reduction in vehicle trips, and the basis for the estimate.
- b. An estimate of the stationary source affected pollutant emission reductions, expressed in pounds per day, and the basis for the estimate.
- c. Identification of problems encountered in implementing the abatement plan.
- d. Comments on the effectiveness of the abatement plan actions implemented.
- e. Recommendations for improved effectiveness.

III. ADMINISTRATIVE REQUIREMENTS – FEDERALLY ENFORCEABLE

K. EMERGENCIES

37. The permittee shall notify the Air Pollution Control Officer of any occurrence which constitutes an emergency as defined in Rule 207, Section 212 as soon as reasonable possible , but no later than one hour after its detection. If the emergency occurs when the Air Pollution Control Officer cannot be contacted, the report of the emergency shall be made at the commencement of the next regular working day. The notification shall identify the time, specific location, equipment involved, and to the extent known, the cause(s) of the occurrence. **[SMAQMD Rule 207, Section 501.2]**

38. The permittee shall report within 24 hours of detection any other deviations from the Title V permit conditions not attributable to an emergency. **[SMAQMD Rule 207, Section 501.3]**

L. ACCIDENTAL RELEASES

39. If subject to Section 112(r) of the Clean Air Act and 40 CFR Part 68, the permittee shall register and submit to the EPA the required data related to the risk management plan (RMP) for reducing the probability of accidental releases of any regulated substances listed pursuant to Section 112(r)(3) of the CAA as amended in 68.130. The list of substances, threshold quantities and accident prevention regulations promulgated under Part 68 do not limit in any way the general duty provisions under Section 112(r)(1). **[40 CFR 68]**

40. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall comply with the requirements of Part 68 no later than the latest of the following dates as provided in 68.10(a): **[40 CFR 68]**
    a. June 21, 1999;
    b. Three years after the date on which a regulated substance is first listed under 68.130; or
    c. The date on which a regulated substance is first present above a threshold quantity in a process.

41. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall submit any additional relevant information requested by any regulatory agency necessary to ensure compliance with the requirements of 40 CFR Part 68. **[40 CFR 68]**

42. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall annually certify compliance with all applicable requirements of Section 112(r) as part of the annual compliance certification as required by Section 413.4 of Rule 207. **[40 CFR 68]**

M. SEVERABILITY

43. If any provision, clause, sentence, paragraph, section, or part of these conditions for any reason is judged to be unconstitutional or invalid, such judgment shall not affect or

III. ADMINISTRATIVE REQUIREMENTS – FEDERALLY ENFORCEABLE

invalidate the remainder of these conditions. **[SMAQMD Rule 207, Section 305.1(j)]**

IV. ADMINISTRATIVE REQUIREMENTS – LOCAL (NON-FEDERALLY ENFORCEABLE)

A. APPLICABILITY

44. The requirements outlined in this section pertain to the SMAQMD Rule 201 Permit to Operate and are not part of the Title V permit. **[SMAQMD Rule 207, Section 305.2]**

B. LOCAL PERMIT RENEWAL:

45. Permits to operate issued pursuant to SMAQMD Rule 201 shall be renewed annually on April 4th upon payment of the permit renewal fee established pursuant to SMAQMD Rule 301. **[SMAQMD Rule 201, Section 305]**

C. SMAQMD (LOCAL) PERMIT RENEWAL FEES AND AIR TOXICS FEES

46. Every holder of a SMAQMD Rule 201 Permit to Operate shall pay a fee for the annual permit renewal. The permit renewal fee shall be the total of: **[SMAQMD Rule 301, Section 303]**
    a. The Permit Renewal Fee indicated by the appropriate schedule of SMAQMD Rule 301, Section 308; and
    b. The calculated fee for the total tons of each pollutant emitted during the prior calendar year as indicated by the table in SMAQMD Rule 301, Section 303.2. The minimum fee shall be that for one ton per year. The total tons of each pollutant shall be the actual emission rounded up to the next whole ton.

47. On an annual basis, each stationary source shall pay a fee based on its facility classification and categorization, as specified in SMAQMD Rule 306, Section 301.1. **[SMAQMD Rule 306, Section 301]**

D. PERMIT POSTING

48. Legible copies of all SMAQMD Rule 201 Permits to Operate shall be maintained on the premises with the equipment. **[SMAQMD Rule 201, Section 401]**

E. EQUIPMENT OPERATION:

49. The equipment shall be properly maintained. **[SMAQMD Rule 201, Section 405]**

50. This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26, Part 4, Chapter 3, of the Health and Safety Codes of the State of California or the Rules and Regulations of the SMAQMD. **[SMAQMD Rule 201, Section 405]**

IV. ADMINISTRATIVE REQUIREMENTS – LOCAL (NON-FEDERALLY ENFORCEABLE)

F. EQUIPMENT BREAKDOWNS – EMERGENCY VARIANCE:

51. The permittee shall notify the Air Pollution Control Officer of any occurrence which constitutes a breakdown condition as defined in SMAQMD Rule 602, Section 201 as soon as reasonably possible, but no later than one hour after its detection. If the breakdown occurs when the Air Pollution Control Officer cannot be contacted, the report of breakdown shall be made at the commencement of the next regular working day. The notification shall identify the time, specific location, equipment involved, and to the extent known the cause(s) of the occurrence. **[SMAQMD Rule 602, Section 301.1 and 301.2]**

52. Upon notification of the breakdown condition, the Air Pollution Control Officer shall investigate the breakdown condition in accordance with uniform written procedures and guidelines relating to logging of initial reports on appropriate forms, investigation, and enforcement follow-up. If the occurrence does not constitute a breakdown condition, the Air Pollution Control Officer may take appropriate enforcement action. **[SMAQMD Rule 602, Section 301.3]**

53. An occurrence which constitutes a breakdown condition, and which persists only until the end of the production run or 24 hours, whichever is sooner (except for continuous air pollution monitoring equipment, for which the period shall be 96 hours) shall constitute a violation of any applicable emission limitation or restriction prescribed by these Rules and Regulations; however, the Air Pollution Control Officer may elect to take no enforcement action if the owner or operator demonstrates to his satisfaction that a breakdown condition exists and the following requirements are met: **[SMAQMD Rule 602, Section 302.1]**
    a. The notification required in Section 301.1 of Rule 602 is made;
    b. Immediate appropriate corrective measures are undertaken and compliance is achieved, or the process is shutdown for corrective measures before commencement of the next production run or within 24 hours, whichever is sooner (except for continuous air pollution monitoring equipment for which the period shall be 96 hours). If the owner or operator elects to shut down rather than come into immediate compliance, (s)he must nonetheless take whatever steps are possible to minimize the impact of the breakdown within the 24 hour period; and
    c. The breakdown does not interfere with the attainment and maintenance of any national ambient air quality standard.

54. An occurrence which constitutes a breakdown condition shall not persist longer than the end of the production run or 24 hours, whichever is sooner (except for continuous air pollution monitoring equipment, for which the period shall be 96 hours), unless an emergency variance has been obtained. **[SMAQMD Rule 602, Section 302.2]**

55. If the breakdown condition will either require more than 24 hours to correct or persists longer than the end of the production run (except for continuous air pollution monitoring

IV. ADMINISTRATIVE REQUIREMENTS – LOCAL (NON-FEDERALLY ENFORCEABLE)

equipment, for which the period shall be 96 hours) the owner or operator may, in lieu of shutdown, request the Air Pollution Control Officer to commence the emergency variance procedure set forth in Section 304 of SMAQMD Rule 602. **[SMAQMD Rule 602, Section 303]**

56. No emergency variance shall be granted unless the chairperson of the Hearing Board or other designated member(s) of the Hearing Board finds that: **[SMAQMD Rule 602, Section 304.2]**
    a. The occurrence constitutes a breakdown condition;
    b. Continued operation is not likely to create an immediate threat or hazard to public health or safety;
    c. The requirements for a variance set forth in California Health & Safety Code Sections 42352 and 42353 have been met; and
    d. The continued operation in a breakdown condition will not interfere with the attainment or maintenance of the national ambient air quality standards.

57. At any time after an emergency variance has been granted, the Air Pollution Control Officer may request for good cause that the chairperson or designated member(s) reconsider and revoke, modify or further condition the variance. The procedures set forth in Rule 602, SMAQMD Section 304.1 shall govern any further proceedings conducted under this section. **[SMAQMD Rule 602, Section 304.3]**

58. An emergency variance shall remain in effect only for as long as necessary to repair or remedy the breakdown condition, but in no event after a properly noticed hearing to consider an interim or 90 day variance has been held, or 15 days from the date of the subject occurrence, whichever is sooner. **[SMAQMD Rule 602, Section 304.4]**

59. Within one week after a breakdown condition has been corrected, the owner or operator shall submit a written report to the Air Pollution Control Officer on forms supplied by the Air Pollution Control Officer describing the causes of the breakdown, corrective measures taken, estimated emissions during the breakdown and a statement that the condition has been corrected, together with the date of correction and proof of compliance. The Air Pollution Control Officer may, at the request of the owner or operator for good cause, extend up to 30 days the deadline for submittal of the report described in this subsection. **[SMAQMD Rule 602, Section 401]**

60. The burden of proof shall be on the owner or operator of the source to provide sufficient information to demonstrate that a breakdown did occur. If the owner or operator fails to provide sufficient information, the Air Pollution Control Officer shall undertake appropriate enforcement action. **[SMAQMD Rule 602, Section 401.1]**

61. Any failure to comply, or comply in a timely manner, with the reporting requirements established in Sections 301.1 and 401 of SMAQMD Rule 602 shall constitute a separate violation of this rule. **[SMAQMD Rule 602, Section 401.2]**

IV. ADMINISTRATIVE REQUIREMENTS – LOCAL (NON-FEDERALLY ENFORCEABLE)

62. It shall constitute a separate violation of this rule for any person to file with the Air Pollution Control Officer a report which falsely, or without probable cause, claims that an occurrence is a breakdown condition. **[SMAQMD Rule 602, Section 401.3]**

V. FACILITY-WIDE STANDARDS – FEDERALLY ENFORCEABLE

A. CIRCUMVENTION

63. A person shall not build, erect, install, or use any article, machine, equipment, or other contrivance, the use of which, without resulting in a reduction in the total release of air contaminants into the atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Part 3, Division 26 of the Health and Safety Code of the State of California or of these Rules and Regulations. This rule shall not apply to cases in which the only violation involved is of Section 41700 of the Health and Safety Code of the State of California. **[SMAQMD Rule 102, Section 301]**

64. If air contaminants from a single source operation are emitted through two or more emission points, the total emitted quantity of any air contaminant limited in this regulation cannot exceed the quantity which would be the allowable emission through a single emission point; the total emitted quantity of any such air contaminant shall be taken as the product of the highest concentration measured in any of the emission points and the combined exhaust gas volume from all emission points, unless the person responsible for the source operation establishes, to the satisfaction of the Air Pollution Control Officer, the correct total emitted quantity. **[SMAQMD Rule 102, Section 302]**

65. If air contaminants from two or more source operations are combined prior to emission and there are adequate and reliable means reasonably susceptible to confirmation and use by the Air Pollution Control Officer for establishing a separation of the components of the combined emission to indicate the nature, extent, quantity and degree of emission arising from each such source operation, then all of the applicable prohibitions shall apply to each such source operation separately. **[SMAQMD Rule 102, Section 303]**

66. If air contaminants from two or more source operations are combined prior to emission, and the combined emissions cannot be separated according to the requirements of Section 303 of this rule, then all applicable prohibitions shall be applied to the combined emission as if it originated in a single source operation, subject to the most stringent limitations and requirements placed by these prohibitions on any of the source operations whose air contaminants are so combined. **[SMAQMD Rule 102, Section 304]**

B. RINGELMANN CHART

67. Except as otherwise provided in SMAQMD Rule 401, Section 100, a person shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant, other than uncombined water vapor, for a period or periods aggregating more than three minutes in any one hour which is:
    a. As dark or darker in shade as that designated No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines, or
    b. Of such opacity as to obscure a human observer's view, or a certified calibrated in-stack opacity monitoring system to a degree equal to or greater than does smoke described in ‘A’ above. **[SMAQMD Rule 401]**

V. FACILITY-WIDE STANDARDS – FEDERALLY ENFORCEABLE

C. FUGITIVE DUST

68. A person shall take every reasonable precaution not to cause or allow the emissions of fugitive dust from being airborne beyond the property line from which the emission originates, from any construction, handling or storage activity, or any wrecking, excavation, grading, clearing of land or solid waste disposal operation. Reasonable precautions shall include, but are not limited to:
    a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the construction of roadways or the clearing of land.
    b. Application of asphalt, oil, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which can give rise to airborne dusts;
    c. Other means approved by the Air Pollution Control Officer. **[SMAQMD Rule 403, Section 301]**

D. PARTICULATE MATTER

69. Except as otherwise provided in SMAQMD Rule 406, a person shall not discharge into the atmosphere from any source particulate matter in excess of 0.23 grams per dry standard cubic meter (0.1 grains per dry standard cubic foot). **[SMAQMD Rule 404, Section 301]**

70. A person shall not discharge into the atmosphere in any one hour from any source whatsoever dust or condensed fumes in total quantities in excess of the amount shown in the following table:

    To use the following table, take the process weight per hour as such is defined below. Then find this figure on the table, opposite which is the maximum number of kilograms or pounds of contaminants which may be discharged into the atmosphere in any one hour. As an example, if "A" has a process which emits contaminant into the atmosphere and which process takes 3 hours to complete, divide the weight of all materials in the specific process, in this example, 7500 kg, by 3, giving a process weight per hour of 2500 kg. The table shows that "A" may not discharge more than 3.13 kg in any hour during the process. Where the process weight per hour falls between figures in the left hand column, the exact weight or permitted discharge may be interpolated. **[SMAQMD Rule 405, Section 301]**

V. FACILITY-WIDE STANDARDS – FEDERALLY ENFORCEABLE

Process Weight Per Hour		Maximum Discharge Rate Allowed for the Solid Particulate Matter (Aggregate Discharged From all Points of Discharge)		Process Weight Per Hour		Maximum Discharge Rate Allowed for the Solid Particulate Matter (Aggregate Discharged from all Points of Discharge)	
kg/hr	lb/hr	kg/hr	lb/hr	kg/hr	lb/hr	kg/hr	lb/hr
136	300	.51	1.12	3864	8500	4.11	9.04
159	350	.56	1.23	4091	9000	4.25	9.36
182	400	.61	1.34	4318	9500	4.40	9.67
205	450	.65	1.44	4545	10000	4.55	10.0
227	500	.70	1.54	5455	12000	4.73	10.4
273	600	.79	1.73	6364	14000	4.91	10.8
318	700	.86	1.90	7273	16000	5.09	11.2
364	800	.94	2.07	8182	18000	5.23	11.5
409	900	1.01	2.22	9091	20000	5.36	11.8
455	1000	1.08	2.38	13636	30000	5.91	13.0
545	1200	1.21	2.66	18182	40000	6.32	13.9
636	1400	1.33	2.93	22727	50000	6.68	14.7
727	1600	1.45	3.19	27273	60000	6.95	15.3
818	1800	1.56	3.43	31818	70000	7.23	15.9
909	2000	1.66	3.66	36364	80000	7.45	16.4
1136	2500	1.91	4.21	40909	90000	7.68	16.9
1364	3000	2.15	4.72	45455	100000	7.86	17.3
1591	3500	2.36	5.19	90909	200000	9.27	20.4
1818	4000	2.56	5.64	136634	300000	10.23	22.5
2045	4500	2.76	6.07	181818	400000	10.95	24.1
2273	5000	2.95	6.49	227273	500000	11.55	25.4
2500	5500	3.13	6.89	272727	600000	12.09	26.6
2727	6000	3.30	7.27	318182	700000	12.55	27.6
2955	6500	3.47	7.64	363636	800000	12.91	28.4
3182	7000	3.64	8.00	409091	900000	13.32	29.3
3409	7500	3.80	8.36	454545 or more	1000000 or more	13.64	30.0

E. SPECIFIC CONTAMINANTS

71. A person shall not discharge into the atmosphere from any single source of emission whatsoever sulfur compounds in any state or combination thereof exceeding in concentration at the point of discharge: sulfur compounds, calculated as sulfur dioxide (SO_2): 0.2% by volume, except as otherwise provided in SMAQMD Rule 420. **[SMAQMD Rule 406, Section 301]**

V. FACILITY-WIDE STANDARDS – FEDERALLY ENFORCEABLE

72. A person shall not discharge into the atmosphere from any single source of emission whatsoever, combustion contaminants in any state or combination thereof exceeding in concentration at the point of discharge: 0.23 grams per dry standard cubic meter (0.1 grains per dry standard cubic foot) of gas calculated to 12% of carbon dioxide (CO_2) at standard conditions except that 0.69 grams per dry standard cubic meter (0.3 grains per dry standard cubic foot) of gas calculated to 12% of carbon dioxide (CO_2) at standard conditions shall be applied to incinerators rated less than or equal to 100 pounds per hour capacity and installed before July 1, 1978. In measuring the combustion contaminants from other than pathological incinerators used to dispose of combustible refuse by burning, the carbon dioxide (CO_2) produced by combustion of any liquid or gaseous fuels shall be excluded from the calculation to 12% carbon dioxide (CO_2). **[SMAQMD Rule 406, Section 302]**

F. OPEN BURNING

73. A person shall not burn, allow to be burned, or maintain any open outdoor fire for the purpose of burning refuse or organic waste at any time. **[SMAQMD Rule 407, Section 303]**

G. SULFUR CONTENT OF FUELS

74. A person shall not burn any gaseous fuel containing sulfur compounds in excess of 1.14 grams per cubic meter (50 grains per 100 cubic feet) of gaseous fuel, calculated as hydrogen sulfide at standard conditions, or any liquid fuel or solid fuel having a sulfur content in excess of 0.5% by weight. **[SMAQMD Rule 420, Section 301]**

H. ORGANIC SOLVENTS

75. A person shall not discharge into the atmosphere more than 18 kilograms (39.7 pounds) of organic materials in any one day, nor more than 3.6 kilograms (7.9 pounds) in any one hour, from any article, machine, equipment or other contrivance used under conditions other than described in SMAQMD Rule 441, Section 301 for employing, or applying, any photochemically reactive solvent, as defined in Section 203, or material containing such photochemically reactive solvent, unless said discharge has been reduced by at least 85%. Emissions of organic materials into the atmosphere resulting from air or heated drying of products for the first 12 hours after their removal from any article, machine, equipment, or other contrivance described in this section shall be included in determining compliance with this section. Emissions resulting from baking, heat-curing, or heat-polymerizing as described in SMAQMD Rule 443, Section 301 shall be excluded from determination of compliance with this section. Those portions of any series of articles, machines, equipment or other contrivances designed for processing for a continuous web, strip, or wire which emits organic materials and using operations described in this section shall be collectively subject to compliance with this section. **[SMAQMD Rule 441, Section 302]**

V. FACILITY-WIDE STANDARDS – FEDERALLY ENFORCEABLE

76. A person shall not discharge into the atmosphere more than 1350 kilograms (2,970 pounds) of organic materials in any one day, nor more than 200 kilograms (441 pounds) in any one hour, from any article, machine, equipment or other contrivance in which any non-photochemically reactive organic solvent or any material containing such solvent is employed or applied, unless said discharge has been reduced by at least 85%. Emissions of organic materials into the atmosphere resulting from air or heated drying of products for the first 12 hours after their removal from any article, machine, equipment, or other contrivance described in this section shall be included in determining compliance with this section. Emissions resulting from baking, heat-curing, or heat-polymerizing as described in SMAQMD Rule 441, Section 301 shall be excluded from determination of compliance with this section. Those portions of any series of articles, machines, equipment, or other contrivance designed for processing a continuous web, strip or wire which emits organic materials and using operations described in this section shall be collectively subject to compliance with this section. **[SMAQMD Rule 441, Section 303]**

77. A person shall not, during any one day, dispose of a total of more than 5 liters (1.3 gallons) of any photochemically reactive solvent, as defined in Rule 443, Section 203 or of any material containing more than 5 liters (1.3 gallons) of any such photochemically reactive solvent by any means which will permit the evaporation of such solvent into the atmosphere. **[SMAQMD Rule 441, Section 304]**

I. ARCHITECTURAL COATINGS

78. Except as provided in SMAQMD Rule 442, Sections 302, 303, 308, and 309, no person shall solicit for application or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Rule 442, Section 301. **[SMAQMD Rule 442, Section 301]**

79. All architectural coating containers used to apply the contents therein to a surface directly from the container by pouring, siphoning, brushing, rolling, padding, ragging, or other means shall be closed when not in use. These architectural coating containers include, but are not limited to, drums, buckets, cans, pails, trays or other application containers. Containers of any VOC-containing materials used for thinning and cleanup shall also be closed when not in use. **[SMAQMD Rule 442, Section 304]**

80. No person who applies or solicits for application any architectural coating shall apply a coating that is thinned to exceed the applicable VOC limit specified in Rule 442, Section 301. **[SMAQMD Rule 442, Section 305]**

81. Effective January 1, 2004, no person shall apply or solicit the application of any rust preventative coating for industrial use, unless such a rust preventative coating complies with the industrial maintenance VOC limit specified in SMAQMD Rule 442, Section 301. **[SMAQMD Rule 442, Section 306]**

V. FACILITY-WIDE STANDARDS – FEDERALLY ENFORCEABLE

82. Notwithstanding the provisions of SMAQMD Rule 442, Section 301 and 305, a person or facility may add up to 10 percent by volume of VOC to a lacquer to avoid blushing of the finish during days with relative humidity greater than 70 percent and temperature below 65 degrees Fahrenheit, at the time of application, provided the coating contains acetone and no more than 550 grams of VOC per liter of coating, less water and exempt compounds, prior to the addition of VOC. **[SMAQMD Rule 442, Section 308]**

83. The permittee shall keep a record of all architectural coatings purchased that are not clearly labeled as complying with the VOC content limits contained in SMAQMD Rule 442. Compliance in these cases can be determined by maintaining records of the manufacturer's certifications or by Material Safety Data Sheets (MSDS) that demonstrate compliance with the VOC limits of SMAQMD Rule 442. **[SMAQMD Rule 442 and Rule 207 Section 305]**

J. ASBESTOS

84. Unless otherwise exempt from the survey and notification requirements, prior to any work commencing or any disturbance of Regulated Asbestos Containing Material (RACM), an owner or operator shall conduct a survey in accordance with SMAQMD Rule 902, Section 401 and the Air Pollution Control Officer shall be notified in accordance with SMAQMD Rule 902, Sections 402 or 403, of all renovations or demolitions not exempt from SMAQMD Rule 902. **[SMAQMD Rule 902, Section 301.1]**

85. The owner or operator of any facility where nonscheduled renovation operations are expected to occur may meet the requirements of SMAQMD Rule 902, Section 402 as follows: **[SMAQMD Rule 902, Section 403]**
    a. Estimate, based on past operating experience, the amount of RACM to be disturbed during the calendar year because of the routine failure of equipment.
    b. Submit a plan form 10 working days prior to the calendar year for which the plan applies.
    c. The plan only covers the minimum amount of RACM removal necessary to correct the routine failure of equipment.

86. RACM shall be removed from any facility subject to this rule before any activity occurs that would disturb the RACM or that would preclude access to such materials for subsequent removal. Removal of RACM which is encased in concrete or other similar structural materials is not required prior to demolition, but such material shall be adequately wetted whenever exposed during demolition. RACM must be disposed of pursuant to SMAQMD Rule 902, Sections 301.7 and 303. **[SMAQMD Rule 902, Section 301.2]**

87. The facility shall comply with all other applicable requirements of SMAQMD Rule 902 including, but not limited to, work environment, wetting requirements, posting, on-site representative, and waste disposal associated for any demolition or renovation

V. FACILITY-WIDE STANDARDS – FEDERALLY ENFORCEABLE

disturbing RACM. **[SMAQMD Rule 902, Sections 301.3-303]**

88. There shall be no visible emissions to the outside air from the spray-on application of asbestos-containing materials used to insulate or fireproof equipment and machinery, except as provided in SMAQMD Rule 902, Section 312. Spray-on materials used to insulate or fireproof buildings, structures, pipes, and conduits shall contain less than 1 percent asbestos as determined according to the method specified in SMAQMD Rule 902, Section 501.2. **[SMAQMD Rule 902, Section 306]**

89. Molded insulating materials which are friable and wet-applied insulating materials which are friable after drying, and which are installed or reinstalled after May 31, 1989, shall contain no commercial asbestos. The provisions of this paragraph do not apply to insulating materials which are spray applied. Such materials are regulated under SMAQMD Rule 902, Section 306. **[SMAQMD Rule 902, Section 307]**

K. TITLE VI REQUIREMENTS (PROTECTION OF STRATOSPHERIC OZONE)

90. Persons opening appliances containing CFCs for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156. **[40 CFR 82, Subpart F]**

91. Equipment used during the maintenance, service, repair, or disposal of appliances containing CFCs must comply with the standards for recycling and recovery equipment pursuant to 40 CFR, § 82.158. **[40 CFR 82, Subpart F]**

92. Persons performing maintenance, service, repair or disposal of appliances containing CFCs must be certified by an approved technician certification program pursuant to 40 CFR, § 82.161. **[40 CFR 82, Subpart F]**

VI. FACILITY-WIDE STANDARDS – LOCAL (NON-FEDERALLY ENFORCEABLE)

A. NUISANCE

93. A person shall not discharge from any source whatsoever such quantities of air contaminants or other materials which cause injury, detriment, nuisance or annoyance to any considerable number of persons or the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause or have natural tendency to cause injury or damage to business or property. (California Health & Safety Code, Section 41700) **[SMAQMD Rule 402, Section 301]**

B. ADHESIVES AND SEALANTS

94. A person shall not apply a material that has a VOC content, as applied (as determined per SMAQMD Rule 460, Section 502.1) in excess of the limits listed in Section 301. For a low solids material, the VOC content shall be calculated based on grams per liter of material or pounds per gallon of material including water and exempt compounds. For all other materials, the VOC content shall be calculated in grams per liter or pounds per gallon, less water and exempt compounds. **[SMAQMD Rule 460, Section 301]**

95. No person shall use an aerosol adhesive unless the adhesive complies with the VOC limit specified in SMAQMD Rule 460, Section 302.2, Table 7 in percent by weight as determined by Sections 403 and 502.2. **[SMAQMD Rule 460, Section 302.2]**

96. Materials used for surface preparation, cleaning, or stripping shall not exceed the VOC content and the VOC composite vapor pressure limits specified in SMAQMD Rule 460, Section 303.1, Table 8. The VOC content of the material as applied shall be determined pursuant to Section 502.1. The composite partial pressure shall be determined using Section 502.9. **[SMAQMD Rule 460, Section 303.1]**

97. A person applying any surface preparation solvent, cleanup solvent, or any stripper must use one of the following methods: **[SMAQMD Rule 460, Section 303.2]**
    a. Wipe cleaning
    b. Non-propellant spray bottles or containers
    c. An enclosed gun cleaner as defined by SMAQMD Rule 460, Section 224
    d. Soaking application equipment parts in a closed container provided that the container does not exceed five gallons in size and the container is kept tightly covered at all times except when accessing the container.

98. Closed containers shall be used for the disposal of all VOC-containing cloth, sponges, papers, or other materials used for solvent cleaning. **[SMAQMD Rule 460, Section 303.3]**

99. All VOC-materials shall be stored in closed containers when not in use. **[SMAQMD Rule 460, Section 303.4]**

VI. FACILITY-WIDE STANDARDS – LOCAL (NON-FEDERALLY ENFORCEABLE)

100. A person shall not apply any adhesive or sealant product except as follows: **[SMAQMD Rule 460, Section 305]**
    a. Hand application.
    b. Dip coat.
    c. Flow coat.
    d. Brush or roll coat.
    e. Electrodeposition.
    f. Electrostatic spray.
    g. High-volume low-pressure (HVLP) application equipment.
    h. Low-volume low-pressure (LVLP) application equipment.
    i. Aerosol cans.
    j. For contact adhesives only: airless sprayers, air-assisted airless sprayers, and air-atomized sprayers.
    k. Any other equivalent method approved in writing by the Air Pollution Control Officer and submitted to and approved by the United States Environmental Protection Agency.

101. No person shall solicit, require the use of, or specify the application of any material subject to this rule, if the use or application would violate this rule. The prohibition in this section shall also apply to all written or oral contracts under the terms of which any such product or solvent is to be applied within the District. **[SMAQMD Rule 460, Section 307]**

VI. FACILITY-WIDE STANDARDS – LOCAL (NON-FEDERALLY ENFORCEABLE)

102. The following records shall be continuously maintained on-site for the most recent five-year period and shall be made available to the Air Pollution Control Officer upon request. Quarterly records shall be made available within 30 days following the close of the preceding quarter. **[SMAQMD Rule 460, Section 501]**

Frequency	Information to be Recorded
At all times	List of currently used materials including: a. Material type by name/code/manufacturer and the appropriate category as designated by the material categories in SMAQMD Rule 460, Sections 301, 302, and 303 b. Actual VOC content of the materials in SMAQMD Rule 460, Section 301 as applied excluding water and exempt compounds c. Actual VOC content of aerosol adhesives listed in SMAQMD Rule 460, Section 302 in percent by weight d. Actual VOC content of the cleaning material listed in SMAQMD Rule 460, Section 303.1, as applied, including water and exempt compounds e. VOC composite partial vapor pressure for materials listed in SMAQMD Rule 460, Section 303.1 if applicable. The VOC composite partial vapor pressure shall be calculated pursuant to Sections 405 and 502.9. f. Actual mixing ratio for the material as applied g. The information listed under SMAQMD Rule 460, Section 408.1 through 408.4 shall be maintained and made available to the Air Pollution Control Officer upon request
Daily	a. For noncompliant materials: Records regarding the use, including the lack of use, of each material type by name/code/manufacturer and the total applied volume in gallons b. Records of usage of aerosol cleaning solvents exempt pursuant to Rule 460, Section 110.10 in ounces

VI. FACILITY-WIDE STANDARDS – LOCAL (NON-FEDERALLY ENFORCEABLE)

Frequency	Information to be Recorded
Monthly	a. Records of total applied volume in gallons for each material (including thinners, reducers, hardeners, retarders, catalysts, and cleaning materials), specified by material type as listed in SMAQMD Rule 460, Sections 301 and 303.1. b. For stationary sources exempt pursuant to SMAQMD Rule 460, Section 110.12, record of all materials used (including thinners, reducers, hardeners, retarders, and catalysts) in gallons. The annual usage in gallons per year shall also be calculated from the monthly usage records in order to verify the exemption in section 110.10. c. Records of total applied volume for each material exceeding the VOC limits specified in SMAQMD Rule 460, Section 301 and 303.1 by name/code/manufacturer, and material type. d. For each type of aerosol adhesive listed in SMAQMD Rule 460, Section 302, the following records shall be kept (1) Records of percent by weight (2) Size of the aerosol container in ounces (3) Number of containers used e. Records of usage of ethyl acetate cleaning solvent exempt pursuant to SMAQMD Rule 460, Section 110.10 in gallons. The daily usage records shall be calculated based on the calendar month period by dividing the total number of gallons used per calendar month by the number of days in the calendar month.

VI. FACILITY-WIDE STANDARDS – LOCAL (NON-FEDERALLY ENFORCEABLE)

C. SOLVENT CLEANING

103. Except as otherwise provided in SMAQMD Rule 466, Section 110, a person shall not perform solvent cleaning unless the solvent has a VOC content, as applied (as determined per Section 502.1) equal to or less than the applicable VOC limit in the table below. The VOC content shall be calculated based on grams per liter of solvent or pounds per gallon of solvent including water and exempt compounds. This condition does not apply to cleaning operations specifically subject to requirements under SMAQMD Rule 460-*Adhesives and Sealants* or SMAQMD Rule 464-*Synthetic Organic Chemical Manufacturing Operations*. **[SMAQMD Rule 466, Section 301.1]**

Solvent Cleaning Activity	VOC Content grams/liter (lb/gal)	
	Prior to 9/25/2009	**Effective 9/25/2009**
General (wipe cleaning, maintenance cleaning)	50 (0.42)	25 (0.21)
Product Cleaning During Manufacturing Process or Surface Preparation for Coating, Adhesive, Sealants, or Ink Application		
General	50 (0.42)	25 (0.21)
Electrical Apparatus Components and Electronic Components	500 (4.2)	100 (0.83)
Medical Devices and Pharmaceuticals	800 (6.7)	800(6.7)
Platelets	800 (6.7)	800 (6.7)
Repair and Maintenance Cleaning		
General	50 (0.42)	25 (0.21)
Electrical Apparatus Components and Electronic Components	900 (7.5)	100 (0.83)
Medical Devices and Pharmaceuticals		
General Work Surfaces	600 (5.0)	600 (5.0)
Tools, Equipment, and Machinery	800 (6.7)	800 (6.7)
Platelets	800 (6.7)	800 (6.7)
Architectural Coating Application Equipment		
Water-Based Coatings		
Enclosed Gun Cleaner		
No Enclosed Gun Cleaner	No Limit	25 (0.21)
Solvent-Based Coatings	50 (0.42)	25 (0.21)
Enclosed Gun Cleaner		
No Enclosed Gun Cleaner, Cleaning at Jobsite	No Limit	25 (0.21)
	300 (2.5)	25 (0.21)
No Enclosed Gun Cleaner, Cleaning not at Jobsite	50 (0.42)	25 (0.21)
Sterilization of Food Manufacturing and Processing Equipment	No Limit	200 (1.68)

VI. FACILITY-WIDE STANDARDS – LOCAL (NON-FEDERALLY ENFORCEABLE)

104. Except as otherwise provided in SMAQMD Rule 466, Section 110, a person shall not perform solvent cleaning unless one of the following cleaning devices or methods is used. This condition does not apply to cleaning operations specifically subject to requirements under SMAQMD Rule 460-*Adhesives and Sealants* or SMAQMD Rule 464-*Synthetic Organic Chemical Manufacturing Operations*. **[SMAQMD Rule 466, Section 302]**
    a. Wipe cleaning;
    b. Cleaning within closed containers or by using hand held spray bottles from which solvents are applied without a propellant-induced force;
    c. Using cleaning equipment which has a solvent container that is closed during cleaning operations, except when depositing and removing objects to be cleaned, and is closed during non-operation with the exception of maintenance and repair to the cleaning equipment itself;
    d. Using remote reservoir degreaser, non-vapor degreaser, or vapor degreaser used pursuant to the provisions of SMAQMD Rule 454- Degreasing Operations;
    e. Using solvent flushing methods where the cleaning solvent is discharged into a container which is closed except for solvent collection openings and, if necessary, openings to avoid excessive pressure buildup inside the container. The discharged solvent from the equipment must be collected into containers without atomizing into the open air. The solvent may be flushed through the system by air or hydraulic pressure, or by pumping;
    f. Using an enclosed gun cleaner for cleaning of application equipment, except as listed in SMAQMD Rule 466, Section 302.7 or by using a solvent that contains 50 grams per liter or less VOCs for cleaning of spray guns if no enclosed gun cleaner is used;
    g. Using solvents that comply with the VOC limits in Section 301 and cleaning methods in SMAQMD Rule 466, Section 302.5 for cleaning of application equipment used to apply architectural coatings at the jobsite; or
    h. Cleaning of spray gun nozzles by soaking in solvent provided the container (not to exceed five (5) gallons in size) is kept tightly covered at all times except when accessing the container.

105. Except as otherwise provided in SMAQMD Rule 466, Section 110, all solvents shall be stored in closed containers when not in use. The container shall be: **[SMAQMD Rule 466, Section 303.1]**:
    a. Nonleaking, and
    b. Nonabsorbent.

    This condition does not apply to cleaning operations specifically subject to requirements under SMAQMD Rule 460-*Adhesives and Sealants* or SMAQMD Rule 464-*Synthetic Organic Chemical Manufacturing Operations*.

106. Except as otherwise provided in SMAQMD Rule 466, Section 110, all spent solvents shall be disposed of properly. Spent cleanup solvents may be classified as hazardous waste. The owner or operator shall obtain approval from applicable local, state, or federal water pollution control agency prior to disposing of spent solvents into the sewer or storm drain systems. This condition does not apply to cleaning operations specifically subject to requirements under SMAQMD Rule 460-*Adhesives and Sealants*

VI. FACILITY-WIDE STANDARDS – LOCAL (NON-FEDERALLY ENFORCEABLE)

or SMAQMD Rule 464-*Synthetic Organic Chemical Manufacturing Operations*. **[SMAQMD Rule 466, Section 303.2]**

107. Except as otherwise provided in SMAQMD Rule 466, Section 110, the following records shall be continuously maintained on-site for the most recent three-year period (Prior to 9/25/2010) and shall be made available to the Air Pollution Control Officer upon request. Effective 9/25/2010, such records shall be maintained on-site for a continuous five-year period. This condition does not apply to cleaning operations specifically subject to requirements under SMAQMD Rule 460-*Adhesives and Sealants* or SMAQMD Rule 464-*Synthetic Organic Chemical Manufacturing Operations*. **[SMAQMD Rule 466, Section 501]**

Frequency	Information to be Recorded
At all times	List of all solvents currently used and/or stored onsite including: a. Cleaning solvent type by name/code/manufacturer b. Actual VOC content of cleaning solvents listed in SMAQMD Rule 466, Section 301, as applied including water and exempt compounds. c. Actual mixing ratio for the cleaning solvent applied. d. For all solvents currently used and/or stored onsite: Product data sheet containing all information required by SMAQMD Rule 466, Section 405.
Daily	a. Records of total applied volume in gallons per day of solvents for cleaning of sterilization ink indicating equipment b. Records of total volume in ounces of aerosol products used
Monthly	a. Record of total applied volume in gallons for each cleaning solvent used; and b. Record of solvent cleaning activity associated with each solvent used.

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

A. EQUIPMENT DESCRIPTION:

A1) SMAQMD PERMIT NO. 20733

STORAGE TANK FARM CONSISTING OF THE FOLLOWING:

1. LIQUID NITROGEN STORAGE TANK AND REFRIGERATION SYSTEM
2. FIRE FIGHTING WATER STORAGE TANK, OPEN TOP
3. FOUR (4) SPOTS FOR CRUDE VEGETABLE OIL OFFLOADING FROM TANKER TRUCKS
4. TANK 827, 208 GALLONS, WATER
5. TANK 451, 15,062 GALLONS, FATTY ACID DISTILLATE, VENTED TO ATMOSPHERE
6. TANK 452, 15,062 GALLONS, FATTY ALCOHOL, VENTED TO ATMOSPHERE
7. TANK 453, 8,388 GALLONS, FATTY ALCOHOL, VENTED TO ATMOSPHERE
8. TANK 462, 9,264 GALLONS, GLYCERINE, VENTED TO ATMOSPHERE
9. TANK 463, 9,264 GALLONS, ESTERS, VENTED TO ATMOSPHERE
10. TANK 464, 9,264 GALLONS, FOOTS/BOTTOMS, VENTED TO ATMOSPHERE
11. TANK 465, 10,000 GALLONS, FAT TRAP SKIMS, VENTED TO ATMOSPHERE
12. TANK 468, 3,087 GALLONS, ESTERS, VENTED TO ATMOSPHERE
13. TANK 440, 230,691 GALLONS, FATTY ALCOHOL, VENTED TO ATMOSPHERE
14. TANK 445, 80,840 GALLONS, FATTY ALCOHOL, VENTED TO ATMOSPHERE
15. TANK 441, 233,866 GALLONS, FATTY ALCOHOL, VENTED TO ATMOSPHERE
16. TANK 442, 229,571 GALLONS, FATTY ALCOHOL, VENTED TO ATMOSPHERE
17. TANK 431, 234,603 GALLONS, FATTY ALCOHOL, VENTED TO ATMOSPHERE
18. TANK 411, 229,571 GALLONS, ESTERS, VENTED TO ATMOSPHERE
19. TANK 401, 227,975 GALLONS, ESTERS, VENTED TO ATMOSPHERE
20. TANK 402, 227,975 GALLONS, ESTERS, VENTED TO ATMOSPHERE
21. TANK 412, 232 148 GALLONS, ESTERS, VENTED TO ATMOSPHERE
22. TANK 430, 223,374 GALLONS, ESTERS, VENTED TO ATMOSPHERE
23. TANK 420, 223,374 GALLONS, ESTERS, VENTED TO ATMOSPHERE
24. TANK 422, 229,571 GALLONS, ESTERS, VENTED TO ATMOSPHERE
25. TANK 421, 232,148 GALLONS, ESTERS, VENTED TO ATMOSPHERE
26. TANK 413, 79,472 GALLONS, ESTERS, VENTED TO ATMOSPHERE
27. TANK 414, 79,383 GALLONS, ESTERS, VENTED TO ATMOSPHERE
28. TANK 423, 79,533 GALLONS, ESTERS, VENTED TO ATMOSPHERE
29. TANK 425, 79,533 GALLONS, ESTERS, VENTED TO ATMOSPHERE
30. TANK 454, 32,542 GALLONS, ESTERS, VENTED TO ATMOSPHERE
31. TANK 404, 79,772 GALLONS, ESTERS, VENTED TO ATMOSPHERE
32. TANK 403, 79,772 GALLONS, ESTERS, VENTED TO ATMOSPHERE
33. TANK 405, 80,909 GALLONS, ESTERS, VENTED TO ATMOSPHERE
34. TANK 406, 8,388 GALLONS, ESTERS, VENTED TO ATMOSPHERE
35. TANK 443, 80,819 GALLONS, ESTERS, VENTED TO ATMOSPHERE
36. TANK 433, 79,533 GALLONS, ESTERS, VENTED TO ATMOSPHERE
37. TANK 450, 19,417 GALLONS, ESTERS, VENTED TO ATMOSPHERE
38. TANK 410, 523,661 GALLONS, ESTERS, VENTED TO ATMOSPHERE

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

39. TANK 471, 205,717 GALLONS, VEGETABLE OIL, VENTED TO ATMOSPHERE
40. TANK 461, 208,530 GALLONS, VEGETABLE OIL, VENTED TO ATMOSPHERE
41. TANK 470, 208,530 GALLONS, VEGETABLE OIL, VENTED TO ATMOSPHERE
42. TANK 460, 212,150 GALLONS, VEGETABLE OIL, VENTED TO ATMOSPHERE
43. TANK 444, 80,819 GALLONS, ESTERS, VENTED TO ATMOSPHERE
44. TANK 409, 312,363 GALLONS, VEGETABLE OIL, VENTED TO ATMOSPHERE
45. TANK 408, 385,657 GALLONS, FATTY ALCOHOL, VENTED TO ATMOSPHERE
46. TANK 407, 381,979 GALLONS, FATTY ALCOHOL, VENTED TO ATMOSPHERE
47. TANK 446, 99,417 GALLONS, GLYCERINE, VENTED TO ATMOSPHERE
48. TANK 434, 79,533 GALLONS, FATTY ALCOHOL, VENTED TO ATMOSPHERE
49. TANK 426, 79,533 GALLONS, FATTY ALCOHOL, VENTED TO ATMOSPHERE
50. TANK 424, 79,533 GALLONS, FATTY ALCOHOL, VENTED TO ATMOSPHERE
51. TANK 432, 229,571 GALLONS, FATTY ALCOHOL, VENTED TO ATMOSPHERE
52. TANK 480, 186,501 GALLONS, ESTERS, VENTED TO ATMOSPHERE
53. TANK 466, 20,467 GALLONS, SODIUM HYDROXIDE, VENTED TO ATMOSPHERE
54. TANK 467, 20,467 GALLONS, SODIUM HYDROXIDE, VENTED TO ATMOSPHERE

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

55. **A2) SMAQMD PERMIT NO. 18397**

PHYSICALLY REFINED OIL PROCESS CONSISTING OF THE FOLLOWING:

1. ACID MIXER
2. DEGUMMING REACTOR
3. VACUUM BLEACHER
4. PRECOAT TANK
5. FILTERS
6. SPENT EARTH DUMPSTERS
7. DEODORIZER
8. FATTY ACID SCRUBBING VESSEL
9. EJECTOR CONDENSATE TANK
10. DISCHARGE PUMP
11. COOLING WATER SYSTEM
12. BLEACHING EARTH SILO VENTING TO BAGHOUSE
13. ACTIVATED CARBON SILO VENTING TO BAGHOUSE

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

A3) SMAQMD PERMIT NO. 20162

METHYL ESTER & GLYCERINE MANUFACTURING PROCESS CONSISTING OF:

1. SODIUM METHOXIDE CATALYST MAKING PROCESS
   - A) METHANOL ANALYSIS TANK
   - B) SODIUM METHOXIDE INTERCHANGE
   - C) SODIUM METHOXIDE ANALYSIS TANKS
   - D) SODIUM METHOXIDE PUMP
   - E) SODIUM METHOXIDE COLUMN
   - F) SODIUM METHOXIDE REBOILER
   - G) DRY METHANOL FINAL CONDENSER
2. ESTER MAKING, FLASHING, WASHING AND DRYING PROCESS
   - A) ESTERIFICATION 1^{ST}, 2^{ND} AND 3^{RD} SETTLER MIXERS
   - B) ESTERIFICATION REACTOR
   - C) ESTERIFICATION 1^{ST}, 2^{ND} AND 3^{RD} SETTLERS
   - D) ESTER PUMP
   - E) ESTER FLASH INTERCHANGERS
   - F) ESTER FLASH PREHEATER
   - G) ESTER FLASH TANK
   - H) ESTER FLASH COOLER
   - I) ESTER FLASH PUMP
   - J) ESTER WASH WATER COOLER
   - K) FOUR (4) ESTER WASH COLUMNS
   - L) ESTER DRYER
   - M) ESTER DRYER PUMP
   - N) ESTER DRYER CONDENSER
   - O) ESTER DRYER VACUUM SYSTEM
   - P) ESTER DRYER METHANOL CONDENSER
   - Q) ESTER DRYER CONDENSATE PUMP
3. LIGHT CUT ESTER FRACTIONATION PROCESS
   - A) LIGHT CUT ESTER PREHEATER
   - B) LIGHT CUT ESTER STILL
   - C) LIGHT CUT ESTER CONDENSER
   - D) LIGHT CUT ESTER VENT CONDENSER
   - E) SINGLE STAGE EJECTOR
   - F) LIGHT CUT ESTER PUMPS
   - G) LIGHT CUT ESTER PRODUCT COOLER
   - H) LIGHT CUT ESTER REBOILER
   - I) LIGHT CUT ESTER POT PUMPS
4. INTERMEDIATE ESTER FRACTIONATION PROCESS
   - A) INTERMEDIATE ESTER STILL
   - B) INTERMEDIATE ESTER CONDENSER
   - C) INTERMEDIATE ESTER VENT CONDENSER

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

D) HEAVY CUT ESTER DISTILLATE PUMP
E) INTERMEDIATE ESTER DISTILLATE PUMP
F) INTERMEDIATE ESTER COOLER
G) INTERMEDIATE ESTER REBOILER
H) INTERMEDIATE ESTER POT PUMPS
I) THREE (3) ESTER BOTTOMS TANKS
J) ESTER BOTTOMS TO REFINERY TANKS
K) TWO (2) ESTER FEED TO REFINERY TANKS
L) ESTER SCALE TANK
M) TWO (2) ESTER SWING TANKS
N) WCE BOTTOMS TANKS

5. ESTER FRACTIONATION PROCESS
   A) ESTER STILL
   B) ESTER CONDENSER
   C) ESTER VENT CONDENSER
   D) ESTER DISTILLATE RECEIVER
   E) ESTER DISTILLATE PUMP
   F) ESTER COOLER
   G) ESTER REBOILER
   H) ESTER POT PUMPS
   I) FIVE (5) ESTER TO SCALE TANKS
   J) THREE (3) ESTERS TO HFA
   K) ESTER TO HFA TANK
   L) TWO (2) ESTERS TO LCFA TANKS
   M) FOUR (4) ESTERS TO LCFA/SCALES TANKS
6. METHANOL CONCENTRATOR PROCESS
   A) METHANOL CONCENTRATOR FEE/BOTTOMS INTERCHANGER
   B) METHANOL CONCENTRATOR
   C) METHANOL CONCENTRATOR BOTTOM PUMP
   D) METHANOL CONCENTRATOR REBOILER
7. METHANOL RECOVERY/DRYING PROCESS
   A) ESTER VENT SEAL TANK
   B) METHANOL DRYER FEED TANK
   C) METHANOL DRYER FEED PUMP
   D) METHANOL DRYER INTERCHANGER
   E) METHANOL DRYER PUMP
   F) METHANOL DRYER
   G) WET VENT CONDENSER
   H) WET VENT FINAL STORAGE
   I) METHANOL STORAGE TANK
   J) METHANOL CONDENSER
   K) METHANOL DISTILLATE TANK
   L) METHANOL DISTILLATE PUMP

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

8. GLYCERINE COLUMN PROCESS
   - A) DRY GLYCERINE TANK
   - B) DRY GLYCERINE FEED PUMP
   - C) GLYCERINE COLUMN
   - D) GLYCERINE COLUMN PUMP
   - E) GLYCERINE COLUMN REBOILER
   - F) GLYCERINE INTERCHANGER
   - G) GLYCERINE BOTTOMS COOLER

9. GLYCERINE ACIDULATION AND NEUTRALIZATION PROCESS
   - A) GLYCERINE ACIDULATION MIXER
   - B) GLYCERINE ACIDULATION REACTOR/SETTLER
   - C) ACIDULATED GLYCERINE PUMP
   - D) DILUTE CAUSTIC PUMP
   - E) GLYCERINE NEUTRALIZATION MIXER
   - F) ACIDULATED SOAPSTONE SURGE TANK
   - G) ACIDULATED SOAPSTONE SURGE PUMP

10. GLYCERINE CONCENTRATION FEED TANK
    - A) GLYCERINE EVAPORATOR FEED TANK
    - B) GLYCERINE EVAPORATOR
    - C) GLYCERINE EVAPORATOR REBOILER
    - D) GLYCERINE EVAPORATOR PUMP
    - E) GLYCERINE PRODUCT PUMP
    - F) GLYCERINE EVAPORATOR CONDENSER
    - G) GLYCERINE EVAPORATOR CONDENSER PUMP
    - H) 3-STAGE EJECTOR
    - I) GLYCERINE TO SHIPMENT TANK

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

A4) SMAQMD PERMIT NO. 20505

FATTY ACIDS MANUFACTURING PROCESS CONSISTING OF:

1. SULFURIC ACID PROCESS
   - A) ACID UNLOADING
   - B) ACID STORAGE TANKS
   - C) LIGHT CUT FATTY ACID PUMP
   - D) FOOTS ACID PUMP
2. FOOTS ACIDULATION PROCESS
   - A) STATIC MIXER
   - B) FRIST STAGE FOOTS SETTLING TANK
   - C) SECOND STAGE FOOTS SETTLING TANK
   - D) FOOTS ACID WATER TANK
   - E) FOOTS ACID WATER TANK
   - F) FIRST, SECOND AND THIRD STAGE NEUTRALIZATION TANKS
3. LIGHT CUT FATTY ACIDS MANUFACTURING
   - A) BATCH REACTOR
   - B) SOAP TRANSFER PUMP
   - C) SOAP SURGE TANK
   - D) SOAP FEED PUMP
   - E) FATTY ACID SOAP COOLER
   - F) STATIC MIXER
4. LIGHT CUT FATTY ACIDS WASHING AND DRYING
   - A) LCFA WASH COLUMN
   - B) WASH COLUMN BOTTOMS PUMP
   - C) DRYER FEED PUMP
   - D) DRYER FEED PREHEATER
   - E) LCFA DRYER
   - F) LCFA DRYER STILL FEED PUMP
   - G) DRYER CONDENSER
   - H) DRYER EJECTOR CONDENSER
   - I) DRYER CONDENSATE POT
   - J) DRYER CONDENSATE POT PUMP
5. LIGHT CUT FATTY ACIDS STILL
   - A) FATTY ACID STILL
   - B) FATTY ACID STILL REBOILER PUMP
   - C) STILL REBOILER
   - D) LCFA STILL CONDENSER
   - E) FATTY ACID STILL EJECTOR SYSTEM
   - F) FATTY ACID EJECTOR VENT CONDENSER
   - G) FATTY ACID DISTILLATE RECEIVER
   - H) FATTY ACID PRODUCT COOLER

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

6. LIGHT CUT FATTY ACID STRIPPER
   - A) LCFA STRIPPER FEED/BOTTOMS INTERCHANGER
   - B) LCFA BRINE STRIPPER
   - C) LCFA STRIPPER BOTTOMS PUMP
   - D) LCFA STRIPPER OVERHEADS CONDENSER
   - E) LCFA STRIPPER NEUTRALIZATION TANK
   - F) LCFA STRIPPER CONDENSATE PUMP
   - G) LCFA STRIPPER CONDENSATE FILTERS

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

A5) SMAQMD PERMIT NO. 20165

FATTY ALCOHOL MANUFACTURING PROCESS CONSISTING OF:

1. BOTTOMS WASHING/COOLING PROCESS
   - A) ESTER BOTTOMS SURGE TANK
   - B) ESTER BOTTOMS SURGE TANK PUMP
   - C) ALCOHOL BOTTOMS SURGE TANK
   - D) ALCOHOL BOTTOMS WASH WATER HEATER
   - E) ALCOHOL BOTTOMS WASH COLUMN
   - F) ALCOHOL BOTTOMS WASH COLUMN FEED PUMP
   - G) WASHED ALCOHOL BOTTOMS SURGE TANK
   - H) ALCOHOL BOTTOMS RECYCLE PUMP
   - I) REWORK ALCOHOL HFA
   - J) REWORK SCALE TANK
2. CATALYST SLURRY MAKING PROCESS
   - A) CATALYST MIX TANK
   - B) CATALYST BOOSTER PUMP
   - C) CATALYST EDUCTOR
   - D) CATALYST FEED SYSTEM
   - E) CATALYST HOPPER
   - F) DUST CONTROL SYSTEM WITH FAN
3. CATALYST FEED PROCESS
   - A) CATALYST FEED TANK
   - B) CATALYST BOOSTER PUMP
   - C) ESTER FEED TANK
   - D) ESTER BOOSTER PUMP
   - E) ESTER PREHEATER
4. HIGH PRESSURE HYDROGENATION PROCESS
   - A) CATALYST HIGH PRESSURE FEED PUMPS
   - B) HYDROGEN HEATERS
   - C) ONE-STAGE RECYCLE COMPRESSOR
   - D) FIVE-STAGE COMPRESSOR
   - E) CRUDE SEPARATOR
   - F) HYDROGEN/OVERHEADS INTERCHANGER
   - G) ESTER/CRUDE INTERCHANGER
5. PRESSURE LET DOWN PROCESS
   - A) BOILING WATER COOLING
   - B) OVERHEADS COOLING WATER COOLER
   - C) OVERHEADS SEPARATOR
   - D) OVERHEADS BLOWDOWN TANK
   - E) CRUDE COOLING WATER COOLER
   - F) CRUDE BLOWDOWN TANK

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

G) CENTRIFUGAL SEPARATOR
H) SOUTH HYDROGEN VENT SEAL TANK

6. CRUDE FILTRATION PROCESS
   A) CRUDE FILTER FEED TANK
   B) CRUDE FILTER FEED PUMPS
   C) DISPOSAL FILTER FEED PUMP
   D) CRUDE POLISH FILTERS
7. CATALYST DISPOSAL PROCESS
   A) TWO (2) DISPOSAL FILTERS
   B) TWO (2) DISPOSAL FILTER SHOCK TANKS
   C) DISPOSAL SHOCK PUMP
   D) TWO (2) DISPOSAL FILTER SURGE TANK
   E) DISPOSAL FILTER SURGE PUMP
8. OVERHEADS FILTRATION
   A) OVERHEADS FILTER FEED TANK
   B) OVERHEADS FILTER FEED PUMP
   C) OVERHEADS FILTER
   D) OVERHEADS FILTER SURGE TANK
   E) OVERHEADS FILTER SURGE PUMP
   F) OVERHEADS POLISH FILTERS
9. METHANOL STRIPPING
   A) STRIPPER OVERHEADS FEED TANK
   B) STRIPPER OVERHEADS FEED PUMP
   C) CROSS FLOW FILTERS TANK
   D) CROSS FLOW FILTER BACKFLASH PUMPS
   E) STRIPPER CRUDE FEED PUMP
   F) STRIPPER FEED POLISH FILTERS
   G) STRIPPER TWO-BAR HEATER
   H) STRIPPER TEN-BAR HEATER
   I) METHANOL STRIPPER
10. SCAVENGER DISTILLATION
    A) SCAVENGER STILL
    B) SCAVENGER REBOILER
    C) SCAVENGER STILL PUMPS
    D) SCAVENGER CONDENSER
    E) SCAVENGER DISTILLATE RECEIVER
    F) SCAVENGER DISTILLATE PUMP
    G) SCAVENGER VENT CONDENSER
    H) SCAVENGER VACUUM EJECTRO
11. FRACTIONATED ALCOHOL PRODUCTION
    A) STILL
    B) REBOILER

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

C) STILL PUMPS
D) CONDENSER
E) DISTILLATE RECEIVER
F) DISTILLATE PUMP
G) COOLER
H) VENT CONDENSER
I) VACUUM EJECTORS
J) ALCOHOL REWORK TANK
K) ALCOHOL SCALE TANK
L) FIVE (5) ALCOHOL SCALE TANKS
M) FOUR (4) BACK-UP ALCOHOL SCALES TANK

12. STEARYL STILL

A) STEARYL STILL
B) STEARYL BOILING WATER CONDENSER
C) STEARYL COLD WATER CONDENSER
D) STEARYL DISTILLATE RECEIVER
E) STEARYL EJECTOR SYSTEM
F) STEARYL TOPPING PUMP
G) STEARYL TOPPING COOLER
H) STEARYL PRODUCT PUMP
I) STEARYL PRODUCT COOLER
J) STEARYL BOTTOMS PUMP
K) STEARYL REBOILER

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B. EMISSION LIMITS

108. The specified emission units shall not exceed the throughput or production limits, or the ROC emission limits, listed in the following tables. Emission limits have been rounded to the whole pound with the exception of values less than 10, which have been rounded to one-tenth of a pound. **[SMAQMD Rule 207, Section 305.1]**:

B1) SMAQMD PERMIT NO. 20733
STORAGE TANK FARM

EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
NONE	FIRE FIGHTING WATER TANK	NOT PART OF PROCESS	NO LIMIT	NO LIMIT	0
NONE	FOUR (4) SPOTS FOR CRUDE VEGETABLE OIL UNLOADING FROM TANKER TRUCKS	LIQUID TRANSFER	NO LIMIT	NO LIMIT	0
NONE	TANK 827	STORAGE TANK	NO LIMIT	NO LIMIT	0
1100	TANK 451	STORAGE TANK	5,000,000	NO LIMIT	0
1101	TANK 452	STORAGE TANK	1,250,000	NO LIMIT	1.3
1102	TANK 453	STORAGE TANK	6,756,705	NO LIMIT	0.5
1103	TANK 462	STORAGE TANK	1,250,000	NO LIMIT	2.3
1104	TANK 463	STORAGE TANK	1,689,176	NO LIMIT	3.2
1105	TANK 464	STORAGE TANK	4,299,721	NO LIMIT	0.3
1106	TANK 465	STORAGE TANK	583,534	NO LIMIT	0
1107	TANK 468	STORAGE TANK	1,689,176	NO LIMIT	1.3
1108	TANK 440	STORAGE TANK	5,750,000	NO LIMIT	2.1

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B1) SMAQMD PERMIT NO. 20733
STORAGE TANK FARM

EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
1109	TANK 445	STORAGE TANK	72,500,000	NO LIMIT	1.9
1110	TANK 441	STORAGE TANK	72,500,000	NO LIMIT	2.8
1111	TANK 442	STORAGE TANK	72,500,000	NO LIMIT	2.8
1112	TANK 431	STORAGE TANK	72,500,000	NO LIMIT	2.8
1113	TANK 411	STORAGE TANK	8,000,000	NO LIMIT	42
1114	TANK 401	STORAGE TANK	5,000,000	NO LIMIT	2
1115	TANK 402	STORAGE TANK	4,000,000	NO LIMIT	1.6
1116	TANK 412	STORAGE TANK	5,000,000	NO LIMIT	0.1
1117	TANK 430	STORAGE TANK	15,000,000	NO LIMIT	4.7
1118	TANK 420	STORAGE TANK	5,000,000	NO LIMIT	1
1119	TANK 422	STORAGE TANK	5,000,000	NO LIMIT	1.3
1120	TANK 421	STORAGE TANK	4,606,844	NO LIMIT	30
1121	TANK 413	STORAGE TANK	4,299,721	NO LIMIT	44
1122	TANK 414	STORAGE TANK	10,000,000	NO LIMIT	25
1123	TANK 423	STORAGE TANK	10,000,000	NO LIMIT	0.3
1124	TANK 425	STORAGE TANK	5,835,336	NO LIMIT	0.5

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B1) SMAQMD PERMIT NO. 20733
STORAGE TANK FARM

EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
1125	TANK 454	STORAGE TANK	2,364,847	NO LIMIT	0
1126	TANK 404	STORAGE TANK	5,000,000	NO LIMIT	17
1127	TANK 403	STORAGE TANK	10,000,000	NO LIMIT	35
1128	TANK 405	STORAGE TANK	5,528,213	NO LIMIT	32
1129	TANK 406	STORAGE TANK	1,873,450	NO LIMIT	6
1130	TANK 443	STORAGE TANK	8,000,000	NO LIMIT	0
1131	TANK 433	STORAGE TANK	8,000,000	NO LIMIT	0.3
1132	TANK 450	STORAGE TANK	500,000	NO LIMIT	0.3
1133	TANK 410	STORAGE TANK	20,000,000	NO LIMIT	158
1134	TANK 471	STORAGE TANK	138,000,000	NO LIMIT	57
1135	TANK 461	STORAGE TANK			
1137	TANK 470	STORAGE TANK			
1138	TANK 460	STORAGE TANK			
1136	TANK 444	STORAGE TANK	2,000,000	NO LIMIT	0
1139	TANK 409	STORAGE TANK	5,000,000	NO LIMIT	9.4
1140	TANK 408	STORAGE TANK	72,500,000	NO LIMIT	9.7

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B1) SMAQMD PERMIT NO. 20733 STORAGE TANK FARM					
EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
1141	TANK 407	STORAGE TANK	72,500,000	NO LIMIT	12
1142	TANK 446	STORAGE TANK	20,000,000	NO LIMIT	0
1143	TANK 434	STORAGE TANK	15,000,000	NO LIMIT	5.3
1144	TANK 426	STORAGE TANK	15,000,000	NO LIMIT	1.3
1145	TANK 424	STORAGE TANK	15,000,000	NO LIMIT	1.3
1146	TANK 432	STORAGE TANK	3,000,000	NO LIMIT	0.1
1167	TANK 480	STORAGE TANK	4,250,000	NO LIMIT	14
1406	TANK 466	STORAGE TANK	NO LIMIT	NO LIMIT	0
1407	TANK 467	STORAGE TANK	NO LIMIT	NO LIMIT	0
TOTAL ROC EMISSIONS (Storage Tank Farm)					**533**

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B2) SMAQMD PERMIT NO. 18397 PHYSICALLY REFINED OIL PROCESS					
EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
1061	TANK 541	PROCESS TANK	147,500,000	NO LIMIT	5.1
1062	TANK 551	PROCESS TANK	147,500,000	NO LIMIT	5.1
1080	TANK 566	PROCESS TANK	147,500,000	NO LIMIT	201
1080.1	TANK 7566	PROCESS TANK	147,500,000	NO LIMIT	98
1172	BLEACHER VACUUM SYSTEM	PROCESS TANK	NO LIMIT	NO LIMIT	31
1173	DEODORIZER VACUUM SYSTEM	PROCESS TANK	NO LIMIT	NO LIMIT	32
1174	BLEACHER	PROCESS TANK	147,500,000	NO LIMIT	0
1175	TWO (2) BLEACHING FILTERS	FILTER	147,500,000	NO LIMIT	0
1300	BLEACHED OIL TANK	PROCESS TANK	147,500,000	NO LIMIT	0
1301	DEAERATION TANK	PROCESS TANK	147,500,000	NO LIMIT	0
1302	DEODORIZER	PROCESS TANK	147,500,000	NO LIMIT	0
1303	FATTY ACID CONDENSER/ SCRUBBER	PROCESS TANK	10,000,000	NO LIMIT	0
1305	PRECOAT MIX TANK	PROCESS TANK	147,500,000	NO LIMIT	286
1306	DEGUMMING REACTOR	REACTOR	147,500,000	NO LIMIT	0
1307	PHOSPORIC ACID TANK	PROCESS TANK	NO LIMIT	NO LIMIT	0

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B2) SMAQMD PERMIT NO. 18397
PHYSICALLY REFINED OIL PROCESS

EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
1308	EJECTOR CONDENSATE TANK	PROCESS TANK	30,000,000	NO LIMIT	0
1394	FLASH TANK	PROCESS TANK	NO LIMIT	NO LIMIT	0
1399	CONDENSATE SURGE TANK	PROCESS TANK	NO LIMIT	NO LIMIT	0
1425	BLEACHER PRE-CONDENSER	PROCESS TANK	661,474	NO LIMIT	0
1427	OIL VACUUM DRYER CONDENSER	CONDENSER & PROCESS VENT	5,000,000	NO LIMIT	0
1428	REFINED OIL DRYER	DRYER	5,000,000	NO LIMIT	0
1429	REFINED OIL SURGE TANK	PROCESS TANK	5,000,000	NO LIMIT	0.1
TOTAL ROC EMISSIONS (Physically Refined Oil Process)					**658**

EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE PM10 EMISSIONS	
				LB/DAY	LB/QUARTER
1410 & 1168	BLEACHING EARTH SILO & BAGHOUSE	SOLIDS STORAGE	1,800,000	0.120	265
1411 & 1169	ACTIVATED CARBON SILO & BAGHOUSE	SOLIDS STORAGE	200,000	0.015	33
1426	COOLING TOWER	HEAT TRANSFER	3,737,500,000	NO LIMIT	67
TOTAL PM10 EMISSIONS (Physically Refined Oil Process)					**365**

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B3) SMAQMD PERMIT NO. 20162 METHYL ESTER & GLYCERINE MANUFACTURING PROCESS					
EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
NONE	OVERHEAD (FIN FAN) CONDENSER	CONDENSER	NO LIMIT	NO LIMIT	0
NONE	GLYCERINE EVAPORATOR	EVAPORATOR	22,727,070	NO LIMIT	0
NONE	ESTERS BOILING WATER CONDENSER	PROCESS TANK	NO LIMIT	NO LIMIT	0
NONE	ESTERS BOILING WATER CONDENSER CONDENSATE TANK	PROCESS TANK	NO LIMIT	NO LIMIT	0
NONE	ESTERS COLDWATER CONDENSER	PROCESS TANK	NO LIMIT	NO LIMIT	0
1002	TANK 671	PROCESS TANK	5,000,000	NO LIMIT	136
1004	TANK 672	PROCESS TANK	120,200,000	NO LIMIT	104
1005	TANK 673	PROCESS TANK	120,000,000	NO LIMIT	105
1006	TANK 607	PROCESS TANK	138,750,000	NO LIMIT	202
1007	TANK 724	PROCESS TANK	138,750,000	NO LIMIT	762
1007.1	TANK 726	PROCESS TANK	120,200,000	NO LIMIT	202
1008	TANK 725 AKA TANK 605	PROCESS TANK	120,200,000	NO LIMIT	732
1010	TANK 595	PROCESS TANK	145,000,000	NO LIMIT	177
1010.1	TANK 596	PROCESS TANK	145,000,000	NO LIMIT	169

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B3) SMAQMD PERMIT NO. 20162 METHYL ESTER & GLYCERINE MANUFACTURING PROCESS					
EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
1012	ESTER DRYER	DRYER	138,230,000	NO LIMIT	903
1019	TANK 532	REACTOR	26,250,000	NO LIMIT	12
1020	GLYCERINE EVAPORATOR CONDENSER	PROCESS VENT	6,750,000	NO LIMIT	1,104
1021	TANK 554	PROCESS TANK	23,000,000	NO LIMIT	21
1022	TANK 567	PROCESS TANK	4,500,000	NO LIMIT	0.3
1041	ESTER EJECTOR CONDENSATE TANK	PROCESS TANK & PROCESS VENT	6,000,000	NO LIMIT	7.9
1067	TANK 521	PROCESS TANK	10,000,000	NO LIMIT	1
1070	TANK 531	PROCESS TANK	5,000,000	NO LIMIT	0
1071	TANK 544	PROCESS TANK	26,250,000	NO LIMIT	0
1072	TANK 545	PROCESS TANK	26,250,000	NO LIMIT	0
1077	BOTTOMS FROM CENTRIFUGE	PROCESS TANK	500,000	NO LIMIT	0
1093	TANK 609	PROCESS TANK	10,000,000	NO LIMIT	2.9
1304	TANK 542	PROCESS TANK	NO LIMIT	NO LIMIT	0
1310	TANK 606	PROCESS TANK	40,000,000	NO LIMIT	0
1311	ESTER FLASH TANK	PROCESS TANK	15,000,000	NO LIMIT	0

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B3) SMAQMD PERMIT NO. 20162
METHYL ESTER & GLYCERINE MANUFACTURING PROCESS

EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
1313	ESTERS DISTILLATE RECEIVER	PROCESS TANK	20,000,000	NO LIMIT	0
1314	ESTERS STILL DISTILLATE RECEIVER	PROCESS TANK	6,000,000	NO LIMIT	0
1316	ESTERS STILL DISTILLATE RECEIVER	PROCESS TANK	120,200,000	NO LIMIT	0
1317	ESTERS STILL	DISTILLATION COLUMN	30,000,000	NO LIMIT	0
1318	ESTERS STILL AKA TANK 638	DISTILLATION COLUMN	120,200,000	NO LIMIT	0
1319	ESTERS STILL	DISTILLATION COLUMN	105,000,000	NO LIMIT	0
1320	ATMOSPHERIC FLASH TANK	PROCESS TANK	NO LIMIT	NO LIMIT	0
1375	TANK 601	PROCESS TANK	5,000,000	NO LIMIT	0
1376	TANK 582	PROCESS TANK (OUT OF SERVICE)	0	0	0
1377	TANK 588	PROCESS TANK	7,000,000	NO LIMIT	0
1378	GLYCERINE COLUMN	DISTILLATION COLUMN	33,750,000	NO LIMIT	0
1380	TANK 578	PROCESS TANK	250,000	NO LIMIT	0
1381	TANK 576	PROCESS TANK	125,000	NO LIMIT	0
1382	TANK 572	PROCESS TANK	14,625,000	NO LIMIT	0
1383	TANK 573	PROCESS TANK	14,625,000	NO LIMIT	0

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B3) SMAQMD PERMIT NO. 20162 METHYL ESTER & GLYCERINE MANUFACTURING PROCESS					
EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
1384	TANK 592	PROCESS TANK	30,000,000	NO LIMIT	0
1385	TANK 593	PROCESS TANK	30,000,000	NO LIMIT	0
1386	TANK 594	PROCESS TANK	30,000,000	NO LIMIT	0
1387	TANK 584	PROCESS TANK	30,000,000	NO LIMIT	0
1388	TANK 597	PROCESS TANK	15,000,000	NO LIMIT	0
1389	TANK 577	PROCESS TANK	100,000,000	NO LIMIT	0
1390	TANK 583	PROCESS TANK	2,500,000	NO LIMIT	0
1391	TANK 547	PROCESS TANK	NO LIMIT	NO LIMIT	0
1392	TANK 512	PROCESS TANK	1,000,000	NO LIMIT	0.2
1393	TANK 522	PROCESS TANK (OUT OF SERVICE)	0	0	0
1396	TANK 500	PROCESS TANK	1,000,000	NO LIMIT	1.8
1397	TANK 501	PROCESS TANK	1,000,000	NO LIMIT	1.8
1400	OIL SKIMS SURGE TANK – TANK 8920	PROCESS TANK	373,750,000	NO LIMIT	0
1401	OIL COALESCER	PROCESS TANK	373,750,000	NO LIMIT	0.1
1402	ACID WATER TANK	PROCESS TANK	12,500,000	NO LIMIT	0

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B3) SMAQMD PERMIT NO. 20162 METHYL ESTER & GLYCERINE MANUFACTURING PROCESS					
EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
1408	TANK 548	PROCESS TANK	NO LIMIT	NO LIMIT	0
1409	SODIUM METHYLATE COLUMN – TANK 587	DISTILLATION COLUMN	7,000,000	NO LIMIT	0
1412	TANK 568	PROCESS TANK	14,500,000	NO LIMIT	0
1415	TANK 574	PROCESS TANK	14,500,000	NO LIMIT	0
1418	TANK 602	PROCESS TANK	143,750,000	NO LIMIT	0
1421	TANK 603	PROCESS TANK	143,750,000	NO LIMIT	0
1430	ESTER BOTTOMS CENTRIFUGE	CENTRIFUGE	5,000,000	NO LIMIT	0
1430.1	ESTER BOTTOMS CENTRIFUGE	CENTRIFUGE	5,000,000	NO LIMIT	0
1435	METHANOL DRYER	DRYER	75,000,000	NO LIMIT	0
1436	METHANOL CONDENSER	CONDENSER	90,000,000	NO LIMIT	0
1437	ESTER WASH COLUMN (EAST)	PROCESS TANK	50,000,000	NO LIMIT	0
1437.1	ESTER WASH COLUMN (NORTH)	PROCES TANK	40,000,000	NO LIMIT	0
1437.2	ESTER WASH COLUMN (SOUTH)	PROCESS TANK	30,000,000	NO LIMIT	0
1437.3	NEW ESTER WASH COLUMN	PROCESS TANK	120,000,000	NO LIMIT	0

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B3) SMAQMD PERMIT NO. 20162 METHYL ESTER & GLYCERINE MANUFACTURING PROCESS					
EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
1438	ESTER REACTOR	REACTOR	143,750,000	NO LIMIT	0
1439	ESTER FLASH AIR-COOLED CONDENSER AND CONDENSATE RECEIVER	CONDENSER	15,000,000	NO LIMIT	0
TOTAL ROC EMISSIONS (Methyl Ester & Glycerine Mfg Process)					**4,645**

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B4) SMAQMD PERMIT NO. 20505 FATTY ACIDS MANUFACTURING PROCESS					
EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
NONE	OVERHEAD AIR-COOLED CONDENSER	CONDENSER	NO LIMIT	NO LIMIT	0
NONE	TANK 239	PROCESS TANK	NO LIMIT	NO LIMIT	0
1053	LCFA STILL EJECTORS CONDENSER	PROCESS VENT	2,875,000	NO LIMIT	0
1054	TANK 210	PROCESS TANK	21,805,728	NO LIMIT	49
1055	LCFA DRYER VACUUM CONDENSER – TANK 290	PROCESS VENT	1,875,000	NO LIMIT	0.3
1084	TANK 238	PROCESS TANK	15,000,000	NO LIMIT	65
1085	TANK 220	PROCESS TANK	14,200,000	NO LIMIT	3.5
	TANK 221	PROCESS TANK	14,200,000	NO LIMIT	3.5
	TANK 222	PROCESS TANK	14,200,000	NOLIMIT	3.5
1086	TANK 230	PROCESS TANK	14,200,000	NO LIMIT	2.1
1087	TANK 231	PROCESS TANK	14,200,000	NO LIMIT	2.1
1088	TANK 236	PROCESS TANK	14,200,000	NO LIMIT	2.2
1089	TANK 237	PROCESS TANK	14,200,000	NO LIMIT	2.2
1090	TANK 5006	PROCESS TANK	14,200,000	NO LIMIT	2.2
1091	TANK 5007	PROCESS TANK	14,200,000	NO LIMIT	2.2

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B4) SMAQMD PERMIT NO. 20505 FATTY ACIDS MANUFACTURING PROCESS					
EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
1398	FATTY ACID CONDENSATE KNOCKOUT POT	PROCESS TANK	NO LIMIT	NO LIMIT	0
1403	TANK 201	PROCESS TANK	50,000,000	NO LIMIT	0
1404	FATTY ACIDS BATCH REACTOR – TANK 202	REACTOR	50,000,000	NO LIMIT	0
1405	LCFA NEUTRALIZATION STRIPPER TANK	PROCESS TANK	15,000,000	NO LIMIT	0
1431	FATTY ACIDS BRINE STRIPPER	PROCESS TANK	66,240,000	NO LIMIT	0
1432	FATTY ACIDS STILL	PROCESS TANK	15,000,000	NO LIMIT	0
1433	TANK 211	PROCESS TANK	18,000,000	NO LIMIT	0
1434	TANK 287	PROCESS TANK	15,000,000	NO LIMIT	0
TOTAL ROC EMISSIONS (Fatty Acids Mfg Process)					**138**

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B5) SMAQMD PERMIT NO. 20165 FATTY ALCOHOL MANUFACTURING PROCESS					
EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
NONE	WATER TANK	PROCESS TANK	NO LIMIT	NO LIMIT	0
NONE	HYDROGEN RECYCLE KNOCKOUT DRUM	PROCESS TANK	NO LIMIT	NO LIMIT	0
NONE	HYDROGEN RECYCLE SEPARATOR	PROCESS TANK	NO LIMIT	NO LIMIT	0
NONE	BOILING WATER COOLER – NORTH & SOUTH	PROCESS TANK	NO LIMIT	NO LIMIT	0
NONE	OVERHEADS COLD WATER COOLER – NORTH	PROCESS TANK	NO LIMIT	NO LIMIT	0
NONE	OVERHEADS COLD WATER COOLER – SOUTH	PROCESS TANK	NO LIMIT	NO LIMIT	0
NONE	CRUDE BOILING WATER COOLER – NORTH	PROCESS TANK	NO LIMIT	NO LIMIT	0
NONE	CRUDE COLD WATER COOLER – NORTH & SOUTH	PROCESS TANK	NO LIMIT	NO LIMIT	0
NONE	(2) HYDROGEN COMPRESSORS	COMPRESSORS	NO LIMIT	NO LIMIT	0
NONE	HYDROGEN TANK	PROCESS TANK (NOT IN SERVICE)	0	0	0

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B5) SMAQMD PERMIT NO. 20165 FATTY ALCOHOL MANUFACTURING PROCESS					
EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
NONE	ELECTRIC HYDROGEN HEATER	HEATER	NO LIMIT	NO LIMIT	0
NONE	WATER TANK	PROCESS TANK	NO LIMIT	NO LIMIT	0
NONE	WATER TANK	PROCESS TANK	NO LIMIT	NO LIMIT	0
NONE	1ST MIDDLE CUT ALCOHOL BOILING WATER CONDENSER	CONDENSER	78,750,000	NO LIMIT	0
NONE	FATTY ALCOHOL BOILING WATER CONDENSER	CONDENSER	NO LIMIT	NO LIMIT	0
NONE	METHANOL STRIPPER COLUMN	DISTILLATION COLUMN	0	0	0
NONE	(2) WELL WATER ZEOLITE SOFTENER TANKS	PROCESS TANK	NO LIMIT	NO LIMIT	0
NONE	WELL WATER DEAERATOR TANK	PROCESS TANK	NO LIMIT	NO LIMIT	0
NONE	WELL WATER (5) LA SOFTENER TANKS	PROCESS TANK	NO LIMIT	NO LIMIT	0
NONE	WELL WATER BREAK TANK	PROCESS TANK	NO LIMIT	NO LIMIT	0
NONE	WELL WATER SALT TANK	PROCESS TANK	NO LIMIT	NO LIMIT	0

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B5) SMAQMD PERMIT NO. 20165 FATTY ALCOHOL MANUFACTURING PROCESS					
EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
1000	TANK 653	PROCESS TANK	15,000,000	NO LIMIT	51
1001	TANK 663	PROCESS TANK	15,000,000	NO LIMIT	60
1009	TANK 661	PROCESS TANK	6,142,459	NO LIMIT	9.6
1016	TANK 611	PROCESS TANK	10,000,000	NO LIMIT	0.3
1027	TANK 666	PROCESS TANK	49,500,000	NO LIMIT	17
1028	TANK 667	PROCESS TANK	49,500,000	NO LIMIT	17
1029	TANK 656	PROCESS TANK	6,900,000	NO LIMIT	3
1030	ESTER FEED WATER DRAW-OFF TANK	PROCESS TANK	85,995	NO LIMIT	0
1033 & 1033.1	FATTY ALCOHOL STILL EJECTOR CONDENSER	PROCESS VENT	620,448	3	276
1035 & 1035.1	FATTY ALCOHOL STILL EJECTOR CONDENSATE TANK	PROCESS TANK AND PROCESS VENT	725,000	NO LIMIT	0
1037	TANK 767	PROCESS TANK	49,500,000	NO LIMIT	17
1038	TANK 766	PROCESS TANK	49,500,000	NO LIMIT	17
1039	TANK 610	PROCESS TANK	10,000,000	NO LIMIT	0

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B5) SMAQMD PERMIT NO. 20165 FATTY ALCOHOL MANUFACTURING PROCESS					
EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
1043	SOUTH VENT SEAL TANK	PROCESS TANK/PROCESS VENT	NO LIMIT	33	3,036
1045	TANK 665	PROCESS TANK	15,000,000	NO LIMIT	7.1
1046	TANK 655	PROCESS TANK	153,562	NO LIMIT	0.3
1047	HFA FILTER ROOM EXHAUST VENT	PROCESS VENT	NA	12	1,104
1059	SCRAP ALCOHOL TANK	PROCESS TANK	NO LIMIT	NO LIMIT	0
1092	TANK 608	PROCESS TANK	3,750,000	NO LIMIT	0
1094	TANK 614	PROCESS TANK	10,000,000	NO LIMIT	0.1
1095	TANK 615	PROCESS TANK	3,750,000	NO LIMIT	0.6
1096	TANK 613	PROCESS TANK	3,750,000	NO LIMIT	0.6
1154	TANK 612	PROCESS TANK	10,000,000	NO LIMIT	0
1156	THERMAL FLUID TANK	PROCESS TANK	8,000	NO LIMIT	0
1157	THERMAL FLUID (DOWTHERM) CIRCULATION SYSTEM WITH PURGE EJECTOR	PROCESS VENT	30,000	NO LIMIT	0
1160	TANK 651	PROCESS TANK	15,000,000	NO LIMIT	4.3

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B5) SMAQMD PERMIT NO. 20165 FATTY ALCOHOL MANUFACTURING PROCESS					
EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
1161	TANK 650	PROCESS TANK	15,000,000	NO LIMIT	4.3
1162	TANK 659	PROCESS TANK	60,000,000	NO LIMIT	10
1163	TANK 658	PROCESS TANK	60,000,000	NO LIMIT	10
1164	TANK 646	PROCESS TANK	74,750,000	NO LIMIT	679
1165	TANK 662	PROCESS TANK	15,000,000	NO LIMIT	1.1
1166	TANK 652	PROCESS TANK	15,000,000	NO LIMIT	1.1
1315	FLASH TANK AND ESTER/ALCOHOL BOTTOMS COOLER	PROCESS TANK	NO LIMIT	NO LIMIT	0
1321	ESTER SCRAP TANK	PROCESS TANK	12,500	NO LIMIT	0
1322	NORTH CRUDE SEPARATOR	PROCESS TANK	79,750,000	NO LIMIT	0
1323	NORTH OVERHEADS SEPARATOR	PROCESS TANK	30,000,000	NO LIMIT	0
1324	CRUDE BLOWDOWN TANK – NORTH AKA TANK 637	PROCESS TANK	69,250,000	NO LIMIT	0
1325	TANK 636	PROCESS TANK	30,000,000	NO LIMIT	0
1326	SOUTH CRUDE SEPARATOR	PROCESS TANK	79,750,000	NO LIMIT	0
1327	CRUDE BLOWDOWN TANK – SOUTH	PROCESS TANK	69,250,000	NO LIMIT	0

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B5) SMAQMD PERMIT NO. 20165 FATTY ALCOHOL MANUFACTURING PROCESS					
EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
1328	SOUTH OVERHEADS SEPARATOR	PROCESS TANK	30,000,000	NO LIMIT	0
1329	TANK 756	PROCESS TANK	6,900,000	NO LIMIT	0
1330	FATTY ALCOHOL STILL	DISTILLATION COLUMN	113,750,000	NO LIMIT	0
1331	FATTY ALCOHOL STILL DISTILLATE RECEIVER	PROCESS TANK	78,750,000	NO LIMIT	0
1332	FATTY ALCOHOL DISTILLATE RECEIVER	PROCESS TANK	15,000,000	NO LIMIT	0
1333	FATTY ALCOHOL STILL	DISTILLATION COLUMN	35,000,000	NO LIMIT	0
1334	METHANOL DISTILLATE RECEIVER	PROCESS TANK	15,000,000	NO LIMIT	0
1335	FATTY ALCOHOL STILL DISTILLATE RECEIVER	PROCESS TANK	15,000,000	NO LIMIT	0
1336	TANK 649	PROCESS TANK	5,000,000	NO LIMIT	0
1337	FATTY ALCOHOL STILL	DISTILLATION COLUMN	114,500,000	NO LIMIT	0
1338	FATTY ALCOHOL STILL DISTILLATE RECEIVER	PROCESS TANK	1,500,000	NO LIMIT	0

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B5) SMAQMD PERMIT NO. 20165
FATTY ALCOHOL MANUFACTURING PROCESS

EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
1339	FATTY ALCOHOL STILL CATCH TANK	PROCESS TANK	0	0	0
1340	TANK 669	PROCESS TANK	69,250,000	NO LIMIT	0
1341	ALCOHOL BOTTOMS WASH COLUMN	PROCESS TANK	10,000,000	NO LIMIT	0
1342	TANK 668	PROCESS TANK	80,000,000	NO LIMIT	0
1343	TANK 657	PROCESS TANK	38,750,000	NO LIMIT	0
1344	ALCOHOL BOTTOMS FLASH TANK	PROCESS TANK AND PROCESS VENT	10,000,000	NO LIMIT	0
1345	OVERHEAD ALCOHOL SURGE TANK	PROCESS TANK	38,750,000	NO LIMIT	0
1346	TANK 620	PROCESS TANK	150,000	NO LIMIT	0
1347	TANK 660	PROCESS TANK	8,000,000	NO LIMIT	0
1348	TANK 648	PROCESS TANK	60,000,000	NO LIMIT	11
1349	ALCOHOL REMELT TANK	PROCESS TANK	25,000	NO LIMIT	0
1350	FATTY ALCOHOL CONDENSER	CONDENSER	78,750,000	NO LIMIT	0

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B5) SMAQMD PERMIT NO. 20165 FATTY ALCOHOL MANUFACTURING PROCESS					
EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
1351	FATTY ALCOHOL EJECTOR AFTER CONDENSER	CONDENSER	3,000,000	NO LIMIT	0
1352	FATTY ALCOHOL STILL	DISTILLATION COLUMN	25,000,000	NO LIMIT	0
1353	FATTY ALCOHOL PRODUCT COOLER	PROCESS TANK	25,000,000	NO LIMIT	0
1354	FATTY ALCOHOL STILL EJECTOR AFTER CONDENSER	PROCESS VENT	3,000,000	1	92
1355	FATTY ALCOHOL EJECTOR AFTER CONDENSER	PROCESS TANK	4,632,500	NO LIMIT	0
1356	TANK 621	PROCESS TANK	4,000,000	NO LIMIT	0.9
1357	TANK 622	PROCESS TANK	4,000,000	NO LIMIT	0.9
1359	TANK 670	PROCESS TANK	38,750,000	NO LIMIT	663
1360	SLURRY TANK – NORTH	PROCESS TANK	12,000,000	NO LIMIT	0
1361	TANK 645	PROCESS TANK	125,000	NO LIMIT	0
1362	TANK 765	PROCESS TANK	15,000,000	NO LIMIT	0

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B5) SMAQMD PERMIT NO. 20165 FATTY ALCOHOL MANUFACTURING PROCESS					
EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
1363	TANK 769	PROCESS TANK	69,250,000	NO LIMIT	0
1364	TANK 768	PROCESS TANK	69,250,000	NO LIMIT	0
1365	SHOCK TANK	PROCESS TANK	2,500,000	NO LIMIT	0
1366	TANK 770	PROCESS TANK	38,750,000	NO LIMIT	0
1367	MOTT FILTER TUBE STORAGE	PROCESS TANK (NOT PART OF PROCESS)	0	0	0
1368	SLURRY TANK – SOUTH	PROCESS TANK	12,000,000	NO LIMIT	0
1369	TANK 701	PROCESS TANK	230,000,000	NO LIMIT	6.5
1370	TANK 702	PROCESS TANK	230,000,000	NO LIMIT	6.5
1371	TANK 703	PROCESS TANK	230,000,000	NO LIMIT	4.5
1372	TANK 704	PROCESS TANK	500,000	NO LIMIT	8.9
1373	TANK 705	PROCESS TANK	NO LIMIT	NO LIMIT	0
1374	TANK 708	PROCESS TANK	230,000,000	NO LIMIT	7
1395	FAT TRAP SKIMS TANK	PROCESS TANK	500,000	NO LIMIT	0
1423	OVERHEADS BLOWDOWN TANK – SOUTH	PROCESS TANK	30,000,000	NO LIMIT	0
1424	CRUDE FILTER SURGE TANK	PROCESS TANK	75,000,000	NO LIMIT	0

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B5) SMAQMD PERMIT NO. 20165 FATTY ALCOHOL MANUFACTURING PROCESS					
EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
1440	METHANOL STRIPPER COLUMN	DISTILLATION COLUMN	120,000,000	NO LIMIT	0
1441	(4) ALCOHOL REACTORS – NORTH	REACTORS	108,000,000	NO LIMIT	0
1442	(4) ALCOHOL REACTORS – SOUTH	REACTORS	108,000,000	NO LIMIT	0
1443	(2) SWEETLAND FILTER PRESSES	SEPARATOR	77,500,000	NO LIMIT	0
1444	FATTY ALCOHOL REBOILER	PROCESS TANK	500,000,000	NO LIMIT	0
1445	METHANOL STRIPPER CRUDE HEATER	PROCESS TANK	75,000,000	NO LIMIT	0
1446 & 1446.1	NORTH & SOUTH CENTRIFUGES	CENTRIFUGES	79,637,500	NO LIMIT	0
1447	CRUDE (MOTT) FILTER	PROCESS TANK	71,875,000	NO LIMIT	0
1448	CRUDE (MOTT) FILTER	PROCESS TANK	71,875,000	NO LIMIT	0
1449	MOTT DISPOSAL FILTER SHOCK TANK	PROCESS TANK	71,875,000	NO LIMIT	0
1450	MOTT DISPOSAL FILTER SURGE TANK	PROCESS TANK	71,875,000	NO LIMIT	0
1451	SCAVENGER STILL	DISTILLATION COLUMN	140,000,000	NO LIMIT	0

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

B5) SMAQMD PERMIT NO. 20165 FATTY ALCOHOL MANUFACTURING PROCESS					
EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
				LB/DAY	LB/QUARTER
1452	DOWTHERM FLASH TANK	PROCESS TANK	NO LIMIT	NO LIMIT	0
TOTAL ROC EMISSIONS (Fatty Alcohol Mfg Process)					**6,128**

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

109. Fugitive ROC emissions from equipment leaks shall not exceed the following limits: **[SMAQMD Rule 207, Section 305.1]**

EQUIPMENT TYPE	QUANTITY (D)	SERVICE	EMISSION FACTOR (A) (KG/HR/SOURCE)	MAXIMUM ALLOWABLE ROC EMISSIONS (B) (LB/QUARTER)
VALVES	382	GAS	0.000131	242
VALVES	3,101	LIGHT LIQUID	0.000165	2,470
VALVES	3,306	HEAVY LIQUID	0.00023	3,671
PUMP SEALS	79	LIGHT LIQUID	0.00187	713
PUMP SEALS	147	HEAVY LIQUID	0.00210	1,490
AGITATOR SEALS	15	LIGHT LIQUID	0.00187	135
AGITATOR SEALS	65	HEAVY LIQUID	0.00187	587
COMPRESSOR SEALS	0	GAS	0.0894	0
PRESSURE RELIEF VALVES	17	GAS	0.0447	3,669
CONNECTORS	20,768 (C)	ALL	0.0000810	8,122
OPEN-ENDED LINES	901	ALL	0.00150	6,525
TOTAL ROC (FUGITIVE) EMISSIONS				**27,624**

(A) EMISSION FACTORS ARE FROM *PROTOCOL FOR EQUIPMENT LEAK EMISSION ESTIMATES*, EPA-453/R-95-017, NOVEMBER 1995, TABLE 2-5, SOCMI SCREENING RANGES EMISSION FACTORS, <10,000 PPMV (ASSUMING ALL TOC IS ROC).
(B) POTENTIAL TO EMIT IS BASED ON 2,190 HOURS/QUARTER OF OPERATION.
(C) INCLUDES ESTIMATED CONNECTORS IN HEAVY LIQUID SERVICE.
(D) COMPONENT QUANTITY (COUNT AT TIME OF PERMIT RENEWAL) IS THE BASIS FOR THE MAXIMUM ALLOWABLE ROC EMISSIONS (LB/QUARTER). ACTUAL COMPONENT COUNT MAY CHANGE (INCREASE OR DECREASE) DURING THE LIFE OF THE PERMIT. ACTUAL EMISSIONS SHALL BE CALCULATED USING MONITORING RESULTS.

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

110. The stationary source has surrendered emission reduction credits in the following amounts: **[SMAQMD Rule 202, Section 302]**

SMAQMD Permit No.	ERC Certificate No.	Pollutant	Emission Reduction Credits lb/quarter			
			Qtr 1	Qtr 2	Qtr 3	Qtr 4
17440	03-00891	ROC	1,162	1,162	1,162	1,162
17743	03-00890	ROC	17	17	17	17
17566	04-00921	ROC	72	72	72	72
18457	05-00928	ROC	120	120	120	120
18614	05-00930	ROC	4	4	4	4

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

C. EQUIPMENT OPERATION

111. The Physically Refined Oil Process shall not exceed the following process rate: **[SMAQMD Rule 201, Section 302]**

Material	Maximum Allowable Processing Rate lb/quarter
Crude Vegetable Oil	147,500,000

112. All equipment specified in the table below shall comply with either the maximum allowable uncontrolled emission limits or the control requirements: **[SMAQMD Rule 464, Sections 301-304]**

Equipment	Maximum Allowable Uncontrolled ROC Emissions From Device	Control Requirements
Reactor, Distillation Column, Crystallizer, Evaporator or Enclosed Centrifuge	≤15 lb/day	VOC capture and control system with a combined system efficiency ≥85% by weight, and a control efficiency ≥90% by weight
If a VOC capture and control system controls more than two process vents from Reactors, Distillation Columns, Crystallizers, Evaporators or Enclosed Centrifuge	Combined ROC emissions from all process vents reduced to <33 lb/day	Overall combined system efficiency ≥85% by weight, and a control efficiency ≥90% by weight
Centrifuge, Rotary Vacuum Filter or other device having an exposed liquid surface where the liquid contains VOC with a VOC composite partial vapor pressure ≥26 mm of Hg @ 20° C	≤15 lb/day	VOC capture and control system with a combined system efficiency ≥85% by weight, and a control efficiency ≥90% by weight
Dryer or other production equipment exhaust system	a. If ≥330 lb/day b. If <330 lb/day	a. VOC capture and control system with a combined system efficiency ≥85% by weight, and a control efficiency ≥90% by weight b. Reduce ROC emissions to <33 lb/day

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

Equipment	Maximum Allowable Uncontrolled ROC Emissions From Device	Control Requirements
Process Tank containing material with a VOC composite partial vapor pressure >26 mm Hg @ 20°C	≤15 lb/day and closed container, which is kept tightly covered at all times except when accessing the container	VOC capture and control system with a combined system efficiency ≥85% by weight, and a control efficiency ≥90% by weight

113. All equipment specified in the table below shall comply with the control requirements: **[SMAQMD Rule 464, Sections 306 & 307]**

Equipment	Control Requirements
Equipment transferring liquid with a VOC composite vapor pressure >26 mm Hg @ 20°C into any truck, trailer, railroad tank car, or storage tank of 2,000 gallons capacity or greater	Vapor balance system with all of the following components: a. A permanent submerged fill pipe which discharges not more than six inches from the bottom of the tank; and b. a submerged fill pipe which discharges at not more than six inches from the bottom of the tanker truck or railcar; and c. A vapor return line which transfers at least 90% by weight of the displaced VOC vapor from the stationary storage tank being filled back to the mobile or stationary supply tank; and d. A pressure/vacuum relief valve with relief settings of not less than ±0.03 psig. or VOC capture and control system with a combined system efficiency ≥85% by weight and a control efficiency ≥90% by weight or An internal or external floating roof which complies with the procedures described In 40 CFR 63.119 (b), (c), (d), and 63.120.
Storage tanks with a capacity >40,000 gallons	Compliance With SMAQMD Rule 446-*Storage Of Petroleum Products*

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

Equipment	Control Requirements
Storage tanks with a capacity >55 gallons and ≤40,000 gallons containing material with a VOC composite partial vapor pressure of >78 mm Hg @ 20°C	Pressure/vacuum valve with a minimum pressure setting of 0.03 psi and a minimum vacuum setting of 0.03 psi, or an equivalent control method permitted under SMAQMD Rule 201-*General Permit Requirements*, on all vents of any storage tank
Storage tanks with a capacity ≤ 55 gallons containing material with a VOC composite partial vapor pressure of >78 mm Hg @ 20°C	Closed container which is kept tightly covered at all times except when accessing the container

114. All wastewater-handling equipment shall comply with the equipment standards specified in the table below. The standards apply to equipment handling wastewater with a VOC concentration of ≥500 ppmw and a flow rate of ≥1 liter/minute, or with a VOC concentration of ≥10,000 ppmw at any flow rate, at the point of determination. **[SMAQMD Rule 464, Section 305]**

Equipment	Equipment Standards
Wastewater tank not used for wastewater mixing, heating, or treating with an exothermic reaction	Fixed Roof
Wastewater tank used for wastewater mixing, heating, or treating with an exothermic reaction	Fixed roof and closed-vent system routing VOC to a control device with a control efficiency ≥90% by weight or External floating roof or fixed roof with internal floating roof complying with 40 CFR 63.119 (b), (c), (d), and 63.120.
Container with a capacity ≥112 gallons	Cover and submerged fill pipe
Surface impoundment	Cover and closed-vent system routing VOC to a control device with a control efficiency ≥90% by weight

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

Equipment	Equipment Standards
Individual drain system	Cover and closed-vent system routing VOC to a control device with a control efficiency ≥90% by weight or Solid, vapor-tight, full contact fixed cover which totally encloses the liquid contents. The cover opening shall be closed and sealed except when the opening is being used for inspection, maintenance, or wastewater sampling.
Oil-water separator	Fixed roof and closed-vent system routing VOC to a control device with a control efficiency ≥90% by weight or External floating roof or fixed roof with internal floating roof complying with 40 CFR 63.119 (b), (c), (d), and 63.120 or Solid, vapor-tight, full contact fixed cover which totally encloses the liquid contents. The cover opening shall be closed and sealed except when the opening is being used for inspection, maintenance, or wastewater sampling or Solid, sealed, gasketed fixed cover which totally encloses the liquid contents. The cover opening shall be closed and sealed except when the opening is being used for inspection, maintenance, or wastewater sampling and may include a pressure/ vacuum valve
Safety device venting to the atmosphere on wastewater tank, cover, closed-vent system, or control device	Designed and operated to be closed and sealed at all times except when an unplanned and non-routine event requires that the device open for the purpose of preventing physical damage or permanent deformation to the equipment in accordance with good engineering and safety practices for handling flammable, combustible, explosive, or other hazardous materials

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

115. The facility shall use closed containers for the storage and disposal of cloth, paper, or sponges used for solvent cleanup. **[SMAQMD Rule 464, Section 308.1]**

116. The facility shall store fresh and spent cleanup materials in closed containers. **[SMAQMD Rule 464, Section 308.2]**

117. The facility shall not use a cleanup material to perform in-line solvent cleaning of process units and pipings unless either: **[SMAQMD Rule 464, Section 308.3]**
    a. The emissions are vented to a VOC capture and control system which has a combined system efficiency of at least 85% by weight and a control efficiency of at least 90% by weight; or
    b. The solvent complies with a VOC content limit of 200 grams per liter and a vapor pressure limit of less than 45 mm Hg @ 68°F.

118. Except for laboratory equipment cleaning exempt pursuant to SMAQMD Rule 464, Section 115, the facility shall not use a solvent to perform maintenance solvent cleaning, including but not limited to mechanical parts and work areas, unless the solvent complies with a VOC content limit of 50 grams/liter (0.42 pounds/gallon). **[SMAQMD Rule 464, Section 308.4]**

119. The facility shall not use any affected device or flange, as defined in SMAQMD Rule 443, Sections 201 and 208, in the process for handling volatile organic compounds unless such affected device or flange does not allow the volatile organic compound being handled to leak into the atmosphere. **[SMAQMD Rule 443, Section 301.1]**

120. Each affected device, as defined in SMAQMD Rule 443, Section 201, located at the end of a pipe or line containing volatile organic compounds shall be sealed with a blind flange, plug, or cap when not in use, except for any of the following: **[SMAQMD Rule 443, Section 301.2]**
    a. Valves on product sampling lines
    b. Safety pressure relief valves
    c. Bleeder valves in double block and bleeder valve systems
    d. Water drain valve
    e. Loading spouts

121. The facility shall not use chromium-based water treatment chemicals in the Physically Refine Oil Process cooling tower. **[40 CFR 63.402]**

VII. SYNTHETIC ORGANIC CHEMICAL MANUFACTURING EQUIPMENT (SMAQMD PERMIT NOS. 20733, 18397, 20162, 20505 & 20165) – FEDERALLY ENFORCEABLE STANDARDS

D. MONITORING

122. Each affected device or flange handling volatile organic compounds shall be inspected for leaks according to the following schedule: **[SMAQMD Rule 443, Section 302, Rule 464, Section 305, & Rule 202, Section 301]**

Affected Device	Service	Leak Definition	Inspection Frequency	Inspection Method
Pressure Relief Devices	Gas	Improper reseat	Within 24-Hours after Over-Pressure Relief	Visual or Manual
Pumps	Light Liquid	Visible leak	Weekly	Visual
Pumps	All Liquid	500 ppmv as Methane	Quarterly	Portable hydrocarbon detection instrument measured 1 cm from the source
Compressors	Gas	500 ppmv as Methane	Quarterly	Portable hydrocarbon detection instrument measured 1 cm from the source
Valves, Flanges, Pressure Relief Devices, Connections, And Miscellaneous Devices	All	100 ppmv as Methane	Quarterly (A)	Portable hydrocarbon detection instrument measured 1 cm from the source

(A) Quarterly inspections of valves may be reduced to annual inspections if less than 2% of valves associated with the process unit are found to be leaking for five consecutive quarterly inspections. Quarterly inspections must be resumed if during the annual inspections more than 2% of the valves are found to be leaking.

123. Each affected device or flange which has been discovered to be leaking shall be affixed with a weatherproof, brightly colored, readily visible tag bearing the date the leak was discovered. The tag shall remain in place until the leaking affected device or flange is repaired, reinspected, and found to be in compliance with the requirements of SMAQMD Rule 443. **[SMAQMD Rule 443, Section 301.3]**

124. Inaccessible affected devices and flanges shall be exempt from the requirements of Condition 122, provided: **[SMAQMD Rule 443, Section 304]**
    a. The number of inaccessible affected devices and flanges subject to the previous condition does not exceed 5% of the total number of affected devices or flanges associated with a process unit subject to SMAQMD Rule 443, Section 302, and
    b. A list of the inaccessible devices and flanges, including location, subject to this

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condition is made available to the Air Pollution Control Officer upon request, and

c. The reason why the affected device or flange is inaccessible is provided with the list prepared pursuant to SMAQMD Rule 443, Section 304.2, and

d. The inaccessible affected devices or flanges are inspected annually.

125. Each affected device or flange shall be repaired within two working days after detection of such leak, except as provided in SMAQMD Rule 443, Section 303.2. The repairs shall be such that there is a no leak condition. **[SMAQMD Rule 443, Section 303.1]**

126. For each essential affected device or flange, as defined in SMAQMD Rule 443, Section 206, found to be leaking that cannot be brought into compliance with Section 303.1, the following actions shall be taken: **[SMAQMD Rule 443, Section 303.2]**

    a. If, after efforts to repair in accordance with SMAQMD Rule 443, Section 303.1 without shutting down are completed and the leak rate is less than 10 drops per minute, or the detectable hydrocarbon concentration is less than 10,000 ppm (expressed as methane), but more than the leak definition value as measured within 1 centimeter of the source, all of the following actions shall be taken:

        (1) Within two working days of discovery of non-repairability, the air pollution control officer shall be given notice of the date the essential affected device or flange will be repaired.

        (2) Within two working days of repair, the air pollution control officer shall be notified of the date of repair.

        (3) Inspection of such essential affected device or flange shall be made monthly until such essential affected device or flange is returned to a no leak condition.

        (4) Repairs to bring such affected device or flange to a no leak condition shall be completed at the next process turnaround or plant shutdown or within six months, whichever is the shorter length of time.

    b. If, after efforts to repair in accordance with SMAQMD Rule 443, Section 303.1 without shutting down are completed and the leak rate is 10 drops per minute or greater, or appearance of a visible mist continues, or the detectable hydrocarbon emissions are 10,000 ppm (expressed as methane) or greater, measured within 1 centimeter of the source, one of the following actions shall be taken:

        (1) Leak minimization repairs shall be made within two (2) days which reduces the leakage rate to the rate stated in SMAQMD Rule 443, Section 303.2(a) and such essential affected device shall be subject to the provisions of section 303.2(a), or

        (2) The emissions from the leak shall be reduced by 90% within two (2) working days by the use of an emission control device, as determined by the methods specified in sections 501.3 and 501.4, or

        (3) A petition for a variance shall be filed in accordance with SMAQMD Rule 602-*Breakdown Conditions, Emergency Variance*.

127. The facility will be exempt from the provisions of SMAQMD Rule 602-*Breakdown Conditions, Emergency Variance*, if complying with conditions 127, 128(a), 128(b)(1),

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and 128(b)(2). **[SMAQMD Rule 443, Section 443, Section 303.3]**

128. Any leak originally identified by the Air Pollution Control Officer shall constitute a violation of SMAQMD Rule 443. **[SMAQMD Rule 443, Section 401]**

129. Unless otherwise stated, the performance tests for demonstrating compliance with the requirements of this permit to operate shall be the following: **[SMAQMD Rule 443, Section 501 & SMAQMD Rule 464, Section 502]**
    a. **VOC Mass Emission Rate and Control Efficiency:** Except where otherwise specified, the VOC mass emission rate and control efficiency shall be determined in accordance with EPA Method 18, 25, or 25A; EPA Method 1 or 1A; EPA Method 2, 2A, 2B, or 2C; EPA Method 3; and EPA Method 4 (whichever combination is most applicable).
    b. **Capture/Collection Efficiency:** Capture/collection efficiency shall be determined by using EPA *Guidelines for Developing Capture Efficiency Protocols*, 55 Federal Register 26865, June 29, 1990. Individual collection efficiency test runs subject to the EPA technical guidelines shall be determined by:
        (1) EPA Methods 204, 204A, 204B, 204C, 204E, and/or 204F; or
        (2) The South Coast Air Quality Management District "Protocol for Determining Volatile Organic Compound (VOC) Capture Efficiency; or
        (3) Any other method approved in writing by the EPA, the California Air Resources Board, and the Air Pollution Control Officer.
    c. **VOC Concentration in Wastewater:** The total VOC concentration in wastewater shall be determined in accordance with EPA Method 305 or 25D.
    d. **Vapor Pressure:** Vapor pressure of a VOC shall be determined in accordance with ASTM Method D2879-86, or may be obtained from the most current edition of standard reference texts, including but not limited to:
        (1) *The Vapor Pressure of Pure Substances*, Boublik, Fried, and Hala; Elsevier Scientific Publishing Company, New York.
        (2) *Perry's Chemical Engineer's Handbook*, McGraw-Hill Book Company.
        (3) *CRC Handbook of Chemistry and Physics*, Chemical Rubber Publishing Company
        (4) *Lange's Handbook of Chemistry,* John Dean, editor, McGraw-Hill Book Company.
    e. **VOC Content:** VOC weight percent of process fluids shall be determined by ASTM Method E-168, E-169, E-260, or EPA Method 24.
    f. **Leak Detection:** EPA Method 21 shall be used to determine the existence of a leak.
    g. **Determination of Exempt Perfluorocarbon Compounds:** If any of the perfluorocarbons are being claimed as exempt compounds, the person making the claim must state in advance which compounds are present, and the EPA-approved test method used to make the determination of these compounds.

130. The facility shall notify the Air Pollution Control Officer at least one week in advance of the date and time of any fugitive emissions monitoring performed for the purposes of

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satisfying Condition 124. **[SMAQMD Rule 201, Section 405]**

131. The following devices shall be inspected for leaks according to the following schedule: **[SMAQMD Rule 464, Section 305]**

Device	Leak Definition	Inspection Frequency	Inspection Method
Wastewater Individual Drain System Covers	500 ppmv as Methane	Semi-annual	Portable hydrocarbon detection instrument measured 1 cm from the source
Wastewater Oil-Water Separator Covers	500 ppmv as Methane	Semi-annual	Portable hydrocarbon detection instrument measured 1 cm from the source

132. For wastewater individual drain system covers and wastewater oil-water separator covers, any emission leak greater than 500 ppmv must be reported to the Air Pollution Control Officer as soon as reasonably possible, but no later than one hour after its detection. If the Air Pollution Control Officer cannot be contacted, the report shall be made at the commencement of the next business day. The leak shall be repaired within 15 calendar days. The facility will be exempt from the provisions of SMAQMD Rule 602-*Breakdown Conditions, Emergency Variance*, if complying with this condition. **[SMAQMD Rule 464, Section 305]**

133. The facility shall perform the following source testing at least once during each calendar year, under the following conditions: **[SMAQMD Rule 207, Section 305 (f)(4])**

a. VOC mass emissions shall be determined for the following emission points:

Emission Unit Source ID	Emission Point Name	Test Method
1012	Ester Dryer	EPA Methods 1-4 & EPA Method 18 or Method 25
1043	South Vent Seal Tank	EPA Methods 1-4 & EPA Method 18 or Method 25
1047	Filter Room Exhaust Vent	EPA Methods 1-4 & EPA Method 18 or Method 25
1020 & 1020.1	Glycerine Evaporator	EPA Methods 1-4 & EPA Method 18 or Method 25

b. For the above streams that are known by the owner or operator to contain methanol, VOC mass emissions shall be calculated by one of the following methods:

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(1) If Method 25 is performed, methanol shall also be measured using either Method 18 or Method 305. A molecular weight of 32 shall be used for methanol and a molecular weight of 16 shall be used for non-methanol VOC in all calculations.

(2) If Method 18 is performed, VOC mass emissions shall be calculated using the individual molecular weights of each VOC identified in the analysis. Unidentified or tentatively identified compounds shall be accounted for in the calculation using the best data available from the laboratory.

c. A source test plan shall be submitted to the Air Pollution Control Officer for written approval at least 30 days before the scheduled date of the source test. The source testing required by this condition shall not be performed without prior approval of the SMAQMD. The source test plan should include, but not be limited to, the proposed operating conditions during the source test, the specific protocol being used, and a description of all sampling and analytical procedures to be used.

d. Source tests shall be performed between May 15 and September 30 of any calendar year.

e. Source test runs shall coincide with the worst-case operating scenario approved by the SMAQMD. For batch processes or equipment venting batch processes, the duration of test runs shall be the time from the start to the completion of the batch cycle, unless the test run is conducted under an absolute or hypothetical worst case scenario as described in SMAQMD Rule 464, Section 412.3. For a batch cycle or test period greater than 3 hours, a single test run conducted over the duration of the batch cycle or test period used for the emission determination. For batch cycles or test periods less than or equal to three hours, testing shall include, at a minimum, 3 one-hour runs.

f. The Air Pollution Control Officer shall be notified at least seven days prior to the actual source test date and start time.

g. A written source test report shall be submitted to the Air Pollution Control Officer within 60 days after completion of the source test.

E. RECORDKEEPING

134. The facility shall recalculate the total resource effectiveness (TRE) index value for the stearyl still and scavenger still whenever process changes are made, according to 40 CFR 60.664(e). Examples of process changes include changes in production capacity, feedstock type, or catalyst type, or whenever there is a replacement, removal, or addition of recovery equipment. The TRE shall be recalculated based on test data, or on best engineering estimates of the effects of the change to the recovery system. **[40 CFR 60.664(f)]**

a. Where the recalculated TRE is less than or equal to 1.0, the facility shall notify the Air Pollution Control Officer within 1 week of the recalculation and shall conduct a performance test according to the methods and procedures required by 40 CFR 60.664 in order to determine compliance with 40 CFR 60.662(a). Performance tests must be conducted as soon as possible after the process

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change but no later than 180 days from the time of the process change.

b. Where the initial TRE index value is greater than 8.0 and the recalculated TRE value is less than or equal to 8.0 but greater than 1.0, the facility shall conduct a performance test in accordance with 40 CFR 60.8 and 40 CFR 60.664 and shall comply with 40 CFR 60.663-665. Performance tests shall be conducted as soon as possible after the process change but no later than 180 days from the time the time of the process change.

135. The facility shall recalculate the total resource effectiveness (TRE) index value for the ester reactor, north HFA fatty alcohol reactors, and south HFA fatty alcohol reactors still whenever process changes are made, according to 40 CFR 60.704(e). Examples of process changes include changes in production capacity, feedstock type, or catalyst type, or whenever there is a replacement, removal, or addition of recovery equipment. The TRE shall be recalculated based on test data, or on best engineering estimates of the effects of the change to the recovery system. **[40 CFR 60.704(f)]**

1. Where the recalculated TRE is less than or equal to 1.0, the facility shall notify the Air Pollution Control Officer within 1 week of the recalculation and shall conduct a performance test according to the methods and procedures required by 40 CFR 60.704 in order to determine compliance with 40 CFR 60.702(a) or (b). Performance tests must be conducted as soon as possible after the process change but no later than 180 days from the time of the process change.
2. Where the initial TRE index value is greater than 8.0 and the recalculated TRE value is less than or equal to 8.0 but greater than 1.0, the facility shall conduct a performance test in accordance with 40 CFR 60.8 and 40 CFR 60.704 and shall comply with 40 CFR 60.703-7055. Performance tests shall be conducted as soon as possible after the process change but no later than 180 days from the time the time of the process change.

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136. The following records shall be continuously maintained on-site for the most recent five-year period and shall be made available to the air pollution control officer upon request. Quarterly records shall be made available within 30 days following the close of the preceding quarter. **[SMAQMD Rule 207, Section 502.3]**

Frequency	Information to be Recorded
At all times	a. Changes in production capacity, feedstock type, or catalyst type, or any replacement, removal, or addition of recovery equipment, distillation unit, or reactor for the Stearyl Still, Scavenger Still, Ester Reactor, North HFA Fatty Alcohol Reactors, and South HFA Fatty Alcohol Reactors b. Any recalculation of the Total Resource Effectiveness (TRE) index value for the Stearyl Still, Scavenger Still, Ester Reactor, North HFA Fatty Alcohol Reactors, and South HFA Fatty Alcohol Reactors c. Source test reports d. Annual wastewater reports e. Fugitive emission monitoring reports Including (1) Identity of each affected device, flange, wastewater individual drain cover, and wastewater oil-water separator cover (2) Date of inspection (3) Leak rate f. When a leak is detected during fugitive emission monitoring: (1) Identity of each affected device, flange, wastewater individual drain cover, and wastewater oil-water separator cover (2) Date of detection of leak (3) Leak rate (4) Date of repair (5) Leak rate after repair (6) Date when leak free (7) Date when affected device or flange returns to regular inspection schedule (8) For wastewater individual drain system covers and oil-water separator covers, date and time leak reported to the Air Pollution Control Officer
Daily	a. Types and amounts of organic compounds used and produced by each organic chemical manufacturing process unit. b. Amount of wastewater received, managed, or treated by each wastewater management unit.

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Frequency	Information to be Recorded
Quarterly	a. Quantity of crude vegetable oil processed (lb/quarter) b. The total throughput of each device listed in Condition 110 (lb/quarter). For process tanks containing materials with a VOC composite vapor pressure of less than 26 mm Hg @ 20°C, engineering calculations may be used to determine throughput. For process tanks containing materials with a VOC composite vapor pressure greater than or equal to 26 mm Hg @ 20°C, the throughput shall be measured by instrumentation. The instrumentation may be located at the process tank or another upstream or downstream location that is in series with the process tank.

F. REPORTING

137. The facility shall submit a wastewater report to the Air Pollution Control Officer annually by February 1st. The report shall identify and quantify each wastewater stream at the point of determination, as defined in SMAQMD Rule 464, Section 217, discharged from an organic chemical manufacturing process unit. Information data and supporting test results, records or calculations on location, source of wastewater, VOC concentration as determined pursuant to SMAQMD Rule 464, Section 502.3 or using owner knowledge of the wastewater, and annual average flow rate shall be submitted for each wastewater stream. Examples of information that could constitute knowledge include material balances, records of chemical purchases, process stoichiometry, or previous test results provided the results are still representative of current operating practices at the process unit(s). One of the following methods shall be used to determine flow rate:
    a. Use the maximum annual production capacity of the process unit, knowledge of the process, and mass balance information to estimate annual average wastewater flow rate.
    b. Select the highest annual average flow rate of wastewater from historical records representing the most recent year of operation.
    c. Measure the flow rate of the wastewater at the point of determination during conditions that are representative of average wastewater generation rates. Notwithstanding the provisions of this condition, the Air Pollution Control Officer may require testing pursuant to SMAQMD Rule 464, Section 502.3 to determine the VOC concentration. **[SMAQMD Rule 464, Section 406]**

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G. FUTURE EFFECTIVE REQUIREMENTS

Effective May 9, 2009, the following requirements, among other standards and compliance provisions, under 40 CFR 63 Subpart FFFF – National Emission Standards for Hazardous Air Pollution: Miscellaneous Organic Chemical Manufacturing shall be enforceable:

Storage Tanks **[40 CFR 63.2470]**

138. For Group 1 storage tanks with capacity ≥10,000 gallons and stored material true vapor pressure of total HAP ≥76.6 kpa (≥11.11 psi): reduce total HAP emissions by ≥95% by weight or to ≤20 ppmv of total organic compounds (TOC) or organic HAP by venting emissions through a closed vent system to any combination of control devices.

139. For Group 1 storage tanks with capacity ≥10,000 gallons and stored material true vapor pressure of total HAP <76.6 kpa (<11.11 psi): either comply with the floating roof requirements in 40 CFR 63 Subpart WW – *National Emission Standards for Storage Vessels (Tanks)*, except as specified in 40 CFR 63.2470; or reduce total HAP emissions by ≥95% by weight or to ≤20 ppmv of total organic compounds (TOC) or organic HAP by venting emissions through a closed vent system to any combination of control devices.

Continuous Process Vent **[40 CFR 63.2455]**

140. For Group 1 continuous process vent, reduce emissions of total organic HAP by ≥98% by weight or to an outlet process concentration ≤20 ppmv as organic HAP or TOC by venting emissions through a closed-vent system to any combination of control devices.

141. For Group 2 continuous process vent: when devices such as absorbers or condensers are used to maintain the total resource effectiveness (TRE) level to >1.9 but ≤5.0, comply with the requirements in Section 993, 40 CFR 63 Subpart SS – *National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System of Process*.

Batch Process Vent **[40 CFR 63.2460]**

142. For collective uncontrolled organic HAP emissions for all Group 1 batch process vents ≥10,000 lb/year: either reduce collective uncontrolled organic HAP emissions from the sum of all batch process vents within the process by ≥98% by weight by venting emissions through one or more closed-vent systems to any combination of control devices; or reduce collective uncontrolled organic HAP emissions from the sum of all batch process vents within the process by ≥95% by weight by venting emissions through one or more closed-vent systems to any combination of recovery devices or a biofilter, or comply with the requirements of 40 CFR 63 Subpart WW for any process tank.

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Transfer Racks **[40 CFR 63.2475]**

143. For Group 1 transfer rack that loads more than 0.17 million gallons/year (0.65 million liters/year) of liquids containing organic HAP with a weighted average partial pressure ≥1.5 psia: reduce emissions of total organic HAP by ≥98% by weight or to an outlet concentration ≤20 ppmv as organic HAP or TOC by venting emissions through a closed-vent system to any combination of control devices; or

144. Use a vapor balancing system designed and operated to collect organic HAP vapors displaced from tank trucks and railcars during loading and route the collected HAP vapors to the storage tank from which the liquid being loaded originated or to another storage tank connected by a common carrier.

Equipment Leaks **[40 CFR 63.2480]**

145. For all equipment that is in organic HAP service, as defined in **40 CFR 63 Subpart FFFF**: comply with the requirements of 40 CFR 63 Subpart UU – *National Emission Standards for Equipment Leaks Control Level*, except as specified in 40 CFR 63.2480(b) and (d); or comply with the requirements of 40 CFR 63 Subpart H – *National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks,* except as specified in 40 CFR 63.2480(b) and (d); or comply with the requirements of 40 CFR 65 Subpart F – *Equipment Leaks*, except as specified in 40 CFR.2480(c) and (d).

VIII. APC METHANOL ABSORBER (SMAQMD PERMIT NO. 11664) – FEDERALLY ENFORCEABLE STANDARDS

A. EQUIPMENT DESCRIPTION

METHANOL ABSORBER UNIT CONSISTING OF:

(2) TWO (2) ENCLOSED CENTRIFUGES IN THE FILTER ROOM, VENTED TO APC METHANOL ABSORBER
(3) METHANOL ABSORBER COLUMN, VENTED TO METHANOL ABSORBER OVERHEADS TANK
(4) METHANOL ABSORBER OVERHEADS TANK, VENTED TO THE ATMOSPHERE
(5) METHANOL ABSORBER BOTTOMS TANK, 2,275 GALLONS, METHANOL ABSORBER BOTTOMS, VENTED TO ATMOSPHERE
(6) CATALYST EDUCTOR MIXER SYSTEM, VENTED TO APC METHANOL ABSORBER

B. EMISSION LIMITS

146. The specified emission units shall not exceed the throughput or production limits, or the VOC emission limits, listed in the following tables. Emission limits have been rounded to the whole pound with the exception of values less than 10, which have been rounded to one-tenth of a pound. **[SMAQMD Rule 207, Section 305.1]**:

APC METHANOL ABSORBER (SMAQMD PERMIT 11664)						
EMISSION SOURCE ID	EMISSIONS UNIT NAME	SOCMI DEVICE TYPE	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS		
				LB/HR	LB/DAY	LB/QTR
NONE	METHANOL ABSORBER COLUMN	SCRUBBER	N/A	NO LIMIT	NO LIMIT	0
1056	METHANOL ABSORBER OVERHEADS TANK	PROCESS TANK	773	1.4 (A)	33.6	3,091
1057	METHANOL ABSORBER BOTTOMS TANK	PROCESS TANK	11,056,426	NO LIMIT	NO LIMIT	0.5

(A) THREE-HOUR ROLLING AVERAGE.

VIII. APC METHANOL ABSORBER (SMAQMD PERMIT NO. 11664) – FEDERALLY ENFORCEABLE STANDARDS

C. EQUIPMENT OPERATION

147. The catalyst eductor mixer system shall vent to the APC methanol absorber. **[SMAQMD Rule 201, Section 405]**

148. The APC methanol absorber shall be fully functional and in operation whenever either or both of the centrifuges are operating. **[SMAQMD Rule 201, Section 405]**

149. The APC methanol absorber shall have a minimum water flow rate of 2,000 lb/hr when in operation. **[SMAQMD Rule 201, Section 405]**

150. The effluent water temperature of the APC methanol absorber shall not exceed 100º Fahrenheit. **[SMAQMD Rule 201, Section 405]**

151. Suitable instrumentation shall be provided to monitor and record on an hourly basis, the flow rate and temperature of the water to the APC methanol absorber. **[SMAQMD Rule 201, Section 405]**

152. The airflow through the APC methanol absorber shall not exceed 495 CFM. **[SMAQMD Rule 201, Section 405]**

D. MONITORING

153. The facility shall perform the following source testing at least once during each calendar year, under the following conditions: **[SMAQMD Rule 207, Section 305 (f)(4)]**
    a. VOC mass emissions shall be determined for the following emission point:

Emission Unit Source ID	Emission Point Name	Test Method
1056	Methanol Absorber Overheads Tank	EPA Methods 1-4 & EPA Method 18 or EPA Method 25 and EPA Method 308

    b. VOC mass emissions shall be calculated by one of the following methods:
        (1) If Method 25 is performed, methanol shall also be measured using either Method 18 or Method 305. A molecular weight of 32 shall be used for methanol and a molecular weight of 16 shall be used for non-methanol VOC in all calculations.
        (2) If Method 18 is performed, VOC mass emissions shall be calculated using the individual molecular weights of each VOC identified in the analysis. Unidentified or tentatively identified compounds shall be accounted for in the calculation using the best data available from the laboratory.

VIII. APC METHANOL ABSORBER (SMAQMD PERMIT NO. 11664) – FEDERALLY ENFORCEABLE STANDARDS

c. A source test plan shall be submitted to the Air Pollution Control Officer for written approval at least 30 days before the scheduled date of the source test. The source testing required by this condition shall not be performed without prior approval of the SMAQMD. The source test plan should include, but not be limited to, the proposed operating conditions during the source test, the specific protocol being used, and a description of all sampling and analytical procedures to be used.

d. Source tests shall be performed between May 15 and September 30 of any calendar year.

e. Source test runs shall coincide with the worst-case operating scenario approved by the SMAQMD. For batch processes or equipment venting batch processes, the duration of test runs shall be the time from the start to the completion of the batch cycle, unless the test run is conducted under an absolute or hypothetical worst case scenario as described in SMAQMD Rule 464, Section 412.3. For a batch cycle or test period greater than 3 hours, a single test run conducted over the duration of the batch cycle or test period used for the emission determination. For batch cycles or test periods less than or equal to three hours, testing shall include, at a minimum, three, 1-hour runs.

f. The Air Pollution Control Officer shall be notified at least seven days prior to the actual source test date and start time.

g. A written source test report shall be submitted to the Air Pollution Control Officer within 60 days after completion of the source test.

E. RECORDKEEPING

154. The following records shall be continuously maintained on-site for the most recent five-year period and shall be made available to the air pollution control officer upon request. **[SMAQMD Rule 207, Section 502.3]**

Frequency	Information to be Recorded
At all times	a. Source test reports b. Approved methanol absorber Operation and Maintenance Plan c. Records specified in approved methanol absorber Operation and Maintenance Plan
Continuous	a. Water flow rate b. Water temperature

IX. THERMAL FLUID HEATER (SMAQMD PERMIT NO. 17566) – FEDERALLY ENFORCEABLE STANDARDS

A. EQUIPMENT DESCRIPTION

THERMAL FLUID (DOWTHERM) HEATER, FOSTER WHEELER, MODEL AV-5125-A, 32 MMBTU/HR HEAT INPUT RATING, NATURAL GAS-FIRED

Application: Heating of thermal fluid to operate stills

B. EMISSION LIMITS

155. The heater shall not emit: **[SMAQMD Rule 411, Section 301]**
    a. Nitrogen oxides (NOx) in excess of 9 ppmvd, corrected to 3% O_2 and
    b. Carbon monoxide (CO) in excess of 50 ppmvd, corrected to 3% O_2.

156. Emissions from the heater shall not exceed the following limits: **[SMAQMD Rule 202, Section 410.2]**

THERMAL FLUID (DOWTHERM) HEATER (SMAQMD PERMIT NO. 17566)		
Pollutant	**Emission Factor (A) lb/mmcf**	**Maximum Allowable Emissions (B) lb/quarter**
ROC	5.5	389
NOx	10.9	770
SOx	0.6	42
PM10	7.6	537
CO	36.9	2,607

(A) Emission factors for ROC, SOx and PM10 are from AP-42, Tables 1.4-1 ~ 1.4-2, *Emission Factors from Natural Gas Combustion*, pg 1.4-5 ~ 1.4-6 (7/98), except for NOx and CO which are based on 9 ppmvd @ 3% o_2 and 50 ppmvd @ 3% o_2, respectively.

(B) Emissions are based on a maximum fuel usage of 32,000 cubic feet/hour, 24 hours/day and 92 days/quarter.

157. Emission reduction credits for ROC have been surrendered by P&G in accordance with the emission offset requirements. **[SMAQMD Rule 202, Section 302.4]**

SMAQMD Permit No.	**Emission Reduction Credit**		
	Certificate No.	**Pollutant**	**lb/year (tons/year)**
17566	04-00921	ROC	288 (0.14)

IX. THERMAL FLUID HEATER (SMAQMD PERMIT NO. 17566) – FEDERALLY ENFORCEABLE STANDARDS

C. EQUIPMENT OPERATION

158. The heater shall be fired on natural gas only. **[SMAQMD Rule 201, Section 405]**

D. MONITORING

159. A source test for NOx and CO shall be performed once every calendar year to demonstrate compliance with the emissions limits in Condition No. 155. The source test shall be conducted in accordance with the following conditions: **[SMAQMD Rule 207, Section 305 (f)(4)]**
    a. Submit a source test plan to the Air Pollution Control Officer for approval at least 30 days before the source test is to be performed.
    b. Notify the Air Pollution Control Officer at least 7 days prior to the source test date.
    c. During the source test, operate the heater at a firing rate that is as close as physically possible to the unit's rated heat input capacity.
    d. Submit the source test report to the Air Pollution Control Officer within 60 days of the source test date.

160. Test methods to be used for the source test shall be those specified in **SMAQMD Rule 411, Section 501** – NOx from Boilers, Process Heaters and Steam Generators.
    a. Oxides of Nitrogen – ARB Method 100 or EPA Method 7E
    b. Carbon Monoxide – ARB Method 100 or EPA Method 10
    c. Stack Gas Oxygen – ARB Method 100 or EPA Method 3A
    d. Carbon Dioxide – ARB Method 100 or EPA Method 3A

E. RECORDKEEPING

161. The following records shall be continuously maintained on-site for the most recent five-year period and shall be made available to the air pollution control officer upon request. **[SMAQMD Rule 207, Section 502.3]**

Frequency	Information to Be Recorded
At all times	Source test reports

F. FUTURE EFFECTIVE REQUIREMENTS

162. Upon notification by the SMAQMD, the source shall submit a Part 2 permit application for the affected boiler or heater in order to comply with either of the following requirements: **[CAA Section 112(j)]**
    a. Case-by-case maximum achievable control technology (MACT) standards established by the SMAQMD in accordance with the CAA Section 112(j) provision; or
    b. Amended standards promulgated in 40 CFR 63 Subpart DDDDD – *National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and*

IX. THERMAL FLUID HEATER (SMAQMD PERMIT NO. 17566) – FEDERALLY ENFORCEABLE STANDARDS

Institutional Boilers and Process Heaters.

X. HYDROGEN HEATER (SMAQMD PERMIT NO. 18614) – FEDERALLY ENFORCEABLE STANDARDS

A. EQUIPMENT DESCRIPTION

THERMAL FLUID HEATER, FOSTER WHEELER, MODEL UNKNOWN, 4.85 MMBTU/HR HEAT INPUT RATING, NATURAL GAS-FIRED

Application: Process heater

B. EMISSION LIMITS

163. The heater shall not emit: **[SMAQMD Rule 411, Section 301]**
    a. Nitrogen oxides (NOx) in excess of 30 ppmvd, corrected to 3% O_2 and
    b. Carbon monoxide (CO) in excess of 100 ppmvd, corrected to 3% O_2.

164. Emissions from the heater shall not exceed the following limits: **[SMAQMD Rule 202, Section 410.2]**

HYDROGEN HEATER (SMAQMD PERMIT NO. 18614)		
Pollutant	**Emission Factor (A) lb/mmcf**	**Maximum Allowable Emissions (B) lb/quarter**
ROC	5.5	59
NOx	36.4	390
SOx	0.6	6
PM10	7.6	81
CO	74	792

(A) Emission factors for ROC, SOx and PM10 are from AP-42, Tables 1.4-1 ~ 1.4-2, *Emission Factors from Natural Gas Combustion*, pg 1.4-5 ~ 1.4-6 (7/98), except for NOx and CO which are based on the Rule 411 standard and manufacturer's guarantee of 30 ppmvd @ 3% o_2 and 100 ppmvd @ 3% o_2, respectively.
(B) Emissions are based on a maximum fuel usage of 4,850 cubic feet/hour, 24 hours/day and 92 days/quarter.

165. Emission reduction credits for ROC have been surrendered by P&G in accordance with the emission offset requirements. **[SMAQMD Rule 202, Section 302.4]**

SMAQMD Permit No.	**Emission Reduction Credit**		
	Certificate No.	**Pollutant**	**lb/year (tons/year)**
18614	05-00930	ROC	16 (0.0008)

X. HYDROGEN HEATER (SMAQMD PERMIT NO. 18614) – FEDERALLY ENFORCEABLE STANDARDS

C. EQUIPMENT OPERATION

166. The heater shall be fired on natural gas only. **[SMAQMD Rule 201, Section 405]**

D. MONITORING

167. An initial source test was performed on the hydrogen heater in November 2006. The source test results demonstrated compliance with the emission limits in Condition No. 163. **[SMAQMD Rule 411, Section 403.4]**

E. RECORDKEEPING

168. No recordkeeping is required for the fuel usage of the hydrogen heater because the maximum allowable emissions are based on the heat input capacity, 24 hours/day and 92 days/quarter.

F. FUTURE EFFECTIVE REQUIREMENTS

169. Upon notification by the SMAQMD, the source shall submit a Part 2 permit application for the affected boiler or heater in order to comply with either of the following requirements: **[CAA Section 112(j)]**
    a. Case-by-case maximum achievable control technology (MACT) standards established by the SMAQMD in accordance with the CAA Section 112(j) provision; or
    b. Amended standards promulgated in 40 CFR 63 Subpart DDDDD – *National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters*.

XI. APC METHANOL KNOCKOUT DRUM (SMAQMD PERMIT NO. 16534) – FEDERALLY ENFORCEABLE STANDARDS

A. EQUIPMENT DESCRIPTION

APC METHANOL ABSORBER (KNOCKOUT DRUM) VENTING TO THE FIRE PIT STACK

B. EMISSIONS LIMIT

170. The APC methanol knockout drum shall vent to the fire pit stack and shall not otherwise vent to the atmosphere. **[SMAQMD Rule 201, Section 405]**

C. EQUIPMENT OPERATION

171. The APC methanol knockout drum shall operate whenever any of its inputs are operating. **[SMAQMD Rule 201, Section 405]**

172. The minimum inlet water flow rate to the APC methanol knockout drum shall be 8.0 gallons per minute. **[SMAQMD Rule 201, Section 405]**

173. The APC methanol knockout drum shall be equipped with a flow meter capable of measuring the inlet water flow rate with an accuracy of +/- 0.5 gallons/minute. The readout of the flow meter shall be easily accessible to operating personnel. **[SMAQMD Rule 201, Section 405]**

174. The maximum inlet water temperature of the APC methanol knockout drum shall not exceed 80° Fahrenheit when operating. **[SMAQMD Rule 201, Section 405]**

175. The APC methanol knockout drum shall be equipped with a temperature gauge capable of measuring the inlet water temperature immediately prior to entering the equipment. The readout of the temperature gauge shall be easily accessible to operating personnel. **[SMAQMD Rule 201, Section 405]**

176. Routine maintenance of the APC methanol knockout drum shall be performed in accordance with the latest approved operation and maintenance plan entitled, *Knockout Drum & Scrubber Operation and Maintenance Plan*. **[SMAQMD Rule 464, Section 404]**

XI. APC METHANOL KNOCKOUT DRUM (SMAQMD PERMIT NO. 16534) – FEDERALLY ENFORCEABLE STANDARDS

D. RECORDKEEPING

177. The following records shall be continuously maintained on-site for the most recent five-year period and shall be made available to the Air Pollution Control Officer upon request. **[SMAQMD Rule 207, Section 502.3]**

Frequency	Information to be Recorded
At all times	a. Knockout drum & scrubber Operation and Maintenance Plan b. Records specified in knockout drum & scrubber Operation and Maintenance Plan
Continuous	a. Water flow to knockout drum & scrubber (gallons/min) b. Water temperature

XII. FIRE PIT STACK WITH APC WATER SPRAY (SMAQMD PERMIT NO. 16564) – FEDERALLY ENFORCEABLE STANDARDS

A. EQUIPMENT DESCRIPTION

FIRE PIT STACK WITH APC WATER SPRAY

B. EMISSION LIMITS

178. Emissions from the fire pit stack shall not equal or exceed the following limits: **[SMAQMD Rule 202, Section 410.2]**

FIRE PIT STACK (SMAQMD PERMIT NO. 16564)		
Pollutant	**Maximum Allowable Emissions**	
	lb/day (A)	**lb/quarter (B)**
ROC	33	3,036

(A) Emission limit is from SMAQMD Rule 464, Section 303.2.
(B) Emission is based on 92 days/quarter of operation.

C. EQUIPMENT OPERATION

179. The APC water spray system shall operate whenever any of the inputs to the fire pit are operating. **[SMAQMD Rule 201, Section 405]**

180. The minimum inlet water flow rate to the APC water spray shall be 4.0 gallons per minute. **[SMAQMD Rule 201, Section 405]**

181. The APC water spray shall be equipped with a flow meter capable of measuring the inlet water flow rate with an accuracy of +/- 0.5 gallons/minute. The readout of the flow meter shall be easily accessible to operating personnel. **[SMAQMD Rule 201, Section 405]**

182. The maximum inlet water temperature of the APC water spray shall not exceed 80° Fahrenheit when operating. **[SMAQMD Rule 201, Section 405]**

183. The APC water spray shall be equipped with a temperature gauge capable of measuring the inlet water temperature immediately prior to entering the equipment. The readout of the temperature gauge shall be easily accessible to operating personnel. **[SMAQMD Rule 201, Section 405]**

184. Routine maintenance of the APC water spray shall be performed in accordance with the latest approved Operation and Maintenance Plan entitled, *Water Spray System to Control Emissions from the Fire Pit.* **[SMAQMD Rule 464, Section 404]**

XII. FIRE PIT STACK WITH APC WATER SPRAY (SMAQMD PERMIT NO. 16564) – FEDERALLY ENFORCEABLE STANDARDS

D. MONITORING

185. The facility perform the following source testing at least once during each calendar year, under the following conditions: **[SMAQMD Rule 207, Section 305 (f)(4])**
    a. VOC mass emissions shall be determined for the following emission point:

Emission Unit Source ID	Emission Point Name	Test Method
1018	Fire Pit Stack	EPA Methods 1-4 & EPA Method 18 or EPA Method 25 and EPA Method 305

    b. VOC mass emissions shall be calculated by one of the following methods:
        (1) If Method 25 is performed, methanol shall also be measured using either Method 18 or Method 305. A molecular weight of 32 shall be used for methanol and a molecular weight of 16 shall be used for non-methanol VOC in all calculations.
        (2) If Method 18 is performed, VOC mass emissions shall be calculated using the individual molecular weights of each VOC identified in the analysis. Unidentified or tentatively identified compounds shall be accounted for in the calculation using the best data available from the laboratory.
    c. A source test plan shall be submitted to the Air Pollution Control Officer for written approval at least 30 days before the scheduled date of the source test. The source testing required by this condition shall not be performed without prior approval of the SMAQMD. The source test plan should include, but not be limited to, the proposed operating conditions during the source test, the specific protocol being used, and a description of all sampling and analytical procedures to be used.
    d. Source tests shall be performed between May 15 and September 30 of any calendar year.
    e. Source test runs shall coincide with the worst-case operating scenario approved by the SMAQMD. For batch processes or equipment venting batch processes, the duration of test runs shall be the time from the start to the completion of the batch cycle, unless the test run is conducted under an absolute or hypothetical worst case scenario as described in SMAQMD Rule 464, Section 412.3. For a batch cycle or test period greater than 3 hours, a single test run conducted over the duration of the batch cycle or test period used for the emission determination. For batch cycles or test periods less than or equal to three hours, testing shall include, at a minimum, three, 1-hour runs.
    f. The Air Pollution Control Officer shall be notified at least seven days prior to the actual source test date and start time.
    g. A written source test report shall be submitted to the Air Pollution Control Officer within 60 days after completion of the source test.

XII. FIRE PIT STACK WITH APC WATER SPRAY (SMAQMD PERMIT NO. 16564) – FEDERALLY ENFORCEABLE STANDARDS

E. RECORDKEEPING

186. The following records shall be continuously maintained on-site for the most recent five-year period and shall be made available to the air pollution control officer upon request. **[SMAQMD Rule 202, Section 410.2]**

Frequency	Information to be Recorded
At all times	a. Fire pit water spray Operation & Maintenance record b. Records Specified in Fire Pit Water Spray Operation & Maintenance Record c. Source test reports
Continuous	a. Water flow rate to APC Water Spray System b. Water temperature of APC water spray inlet

XIII. NORTH VENT SEAL TANK (SMAQMD PERMIT NO. 16567) – FEDERALLY ENFORCEABLE STANDARDS

A. EQUIPMENT DESCRIPTION

NORTH VENT SEAL TANK

B. EMISSION LIMITS

187. Emissions from the North Vent Seal Tank shall not exceed the following limits: **[SMAQMD Rule 202, Section 410.2]**

NORTH VENT SEAL (SMAQMD PERMIT NO. 16567)		
Pollutant	**Maximum Allowable Emissions**	
	lb/day (A)	**lb/quarter (B)**
ROC	9.9	920

(A) ROC BACT applicability level.
(B) Emission is based on 92 days/quarter of operation.

188. The facility has surrendered emission reduction credits in the following amounts: **[SMAQMD Rule 202, Section 302]**

SMAQMD Permit No.	**Emission Reduction Credit**		
	Certificate No.	**Pollutant**	**lb/year (tons/year)**
16567	93-00065	ROC	1,956 (0.98)
	00-00841	ROC	156 (0.08)

C. MONITORING

189. The facility shall perform the following source testing at least once during each calendar year, under the following conditions: **[SMAQMD Rule 207, Section 305 (f)(4)]**
    a. VOC mass emissions shall be determined for the following emission point:

Emission Unit Source ID	**Emission Point Name**	**Test Method**
1048	North Vent Seal Tank	EPA Methods 1-4 & EPA Method 18 or EPA Method 25 and EPA Method 305

XIII. NORTH VENT SEAL TANK (SMAQMD PERMIT NO. 16567) – FEDERALLY ENFORCEABLE STANDARDS

b. VOC mass emissions shall be calculated by one of the following methods:
   (1) If Method 25 is performed, methanol shall also be measured using either Method 18 or Method 305. A molecular weight of 32 shall be used for methanol and a molecular weight of 16 shall be used for non-methanol VOC in all calculations.
   (2) If Method 18 is performed, VOC mass emissions shall be calculated using the individual molecular weights of each VOC identified in the analysis. Unidentified or tentatively identified compounds shall be accounted for in the calculation using the best data available from the laboratory.

c. A source test plan shall be submitted to the Air Pollution Control Officer for written approval at least 30 days before the scheduled date of the source test. The source testing required by this condition shall not be performed without prior approval of the SMAQMD. The source test plan should include, but not be limited to, the proposed operating conditions during the source test, the specific protocol being used, and a description of all sampling and analytical procedures to be used.

d. Source tests shall be performed between May 15 and September 30 of any calendar year.

e. Source test runs shall coincide with the worst-case operating scenario approved by the SMAQMD. For batch processes or equipment venting batch processes, the duration of test runs shall be the time from the start to the completion of the batch cycle, unless the test run is conducted under an absolute or hypothetical worst case scenario as described in SMAQMD Rule 464, Section 412.3. For a batch cycle or test period greater than 3 hours, a single test run conducted over the duration of the batch cycle or test period used for the emission determination. For batch cycles or test periods less than or equal to three hours, testing shall include, at a minimum, three, 1-hour runs.

f. The Air Pollution Control Officer shall be notified at least seven days prior to the actual source test date and start time.

g. A written source test report shall be submitted to the Air Pollution Control Officer within 60 days after completion of the source test.

XIV. APC METHANOL SCRUBBERS (SMAQMD PERMIT NO. 12609) – FEDERALLY ENFORCEABLE STANDARDS

A. EQUIPMENT DESCRIPTION

APC METHANOL SCRUBBER SYSTEM (PORTABLE) CONSISTING OF TWO (2) PACKED-BED SCRUBBERS, 65-GALLON CAPACITY EACH, VENTING EMISSIONS FROM THE TRANSFER OF METHANOL INTO RAIL CARS

B. EMISSION LIMITS

190. The emissions from the portable methanol scrubbers shall not exceed the following limits: **[SMAQMD Rule 202, Section 410.2]**

APC METHANOL SCRUBBER [SMAQMD PERMIT NO. 12609)		
Pollutant	**Emission Factor (A) lb/1000 gallons methanol**	**Maximum Allowable Emission (B) lb/quarter**
ROC	0.08	18

(A) Emission factor is the emissions limit for bulk terminals from SMAQMD Rule 447.
(b) Emission is based on 1,500,000 pounds/quarter of methanol transferred and a methanol density of 6.63 lb/gallon.

C. EQUIPMENT OPERATION

191. The maximum amount of methanol (as 100% methanol) transferred into the rail cars shall not exceed 1,500,000 pounds/quarter. **[SMAQMD Rule 201, Section 405]**

192. The scrubbers shall have a continuous flow of water whenever they are in operation. **[SMAQMD Rule 201, Section 405]**

193. All equipment associated with the loading operation shall be maintained to be leak free and vapor tight. **[SMAQMD Rule 201, Section 405]**

D. RECORDKEEPING

194. The following records shall be continuously maintained on site for the most recent five-year period and shall be made available to the Air Pollution Control Officer upon request. Quarterly and yearly records shall be made available for inspection within 30 days of the end of the previous quarter or year respectively. **[SMAQMD Rule 202, Section 410.2]**

XIV. APC METHANOL SCRUBBERS (SMAQMD PERMIT NO. 12609) – FEDERALLY ENFORCEABLE STANDARDS

Frequency	Information to be Recorded
Whenever methanol is transferred into rail	a. Date of methanol transfer b. Amount of methanol transferred (pounds)
Quarterly	Quantity of methanol transferred into rail cars (lb/quarter)

XV. HEATER - PHYSICALLY REFINED OIL PROCESS (SMAQMD PERMIT NO. 13589) – FEDERALLY ENFORCEABLE STANDARDS

A. EQUIPMENT DESCRIPTION:

HEATER - PHYSICALLY REFINED OIL PROCESS, GTS ENERGY, MODEL NUK600, ID NO. G-4952, 3.75 MMBTU/HR HEAT INPUT RATING, NATURAL GAS-FIRED

B. EMISSION LIMITS:

195. Emissions from the heater shall not exceed the following limits: **[SMAQMD Rule 202, Section 410.2]**

PROP HEATER (SMAQMD PERMIT NO. 13589)		
Pollutant	**Emission Factor (A) lb/mmcf**	**Maximum Allowable Emissions (B) lb/quarter**
ROC	5	40
NOx	36.4	295
SOx	0.6	5
PM10	12.0	97
CO	74	599

(A) Emission factors for ROC, SOx and PM10 are from AP-42, Tables 1.4-1 ~ 1.4-3, *Emission Factors from Natural Gas Combustion*, pg 1.4-5 ~ 1.4-6 (10/96). Emission factors for NOx and CO are based on 30 ppm and 100 ppm @ 3% O_2, respectively.

(B) Emissions are based on a maximum fuel usage of 3,750 cubic feet/hour, 24 hours/day and 92 days/quarter.

C. EQUIPMENT OPERATION

196. The heater shall be fired on natural gas only. **[SMAQMD Rule 201, Section 405]**

D. FUTURE EFFECTIVE REQUIREMENTS

197. Upon notification by the SMAQMD, the source shall submit a Part 2 permit application for the affected boiler or heater in order to comply with either of the following requirements: **[CAA Section 112(j)]**
    a. Case-by-case maximum achievable control technology (MACT) standards established by the SMAQMD in accordance with the CAA Section 112(j) provision; or
    b. Amended standards promulgated in 40 CFR 63 Subpart DDDDD – *National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters*.

XVI. APC BAGHOUSE (SMAQMD PERMIT NO. 13590) – FEDERALLY ENFORCEABLE STANDARDS

A. EQUIPMENT DESCRIPTION

APC BAGHOUSE, 780 ACFM, SERVING THE FILTER COATING OPERATION OF THE PHYSICALLY REFINED OIL PROCESS

B. EMISSION LIMITS

198. Emissions from the APC baghouse shall not exceed the following limits: **[SMAQMD Rule 202, Section 410.2]**

APC BAGHOUSE (SMAQMD PERMIT NO. 13590)			
Pollutant	**Location**	**Emission Factor (A) lb/hour**	**Maximum Allowable Emission (B) lb/quarter**
PM10	Filter aid bag dump baghouse	0.067	148

(A) PM 10 emission factor is based on a grain loading of 0.01 gr/scf and 780 ACFM.
(B) Emission is based on maximum rated capacity, 24 hours/day and 92 days/quarter.

C. EQUIPMENT OPERATION

199. The APC baghouse shall operate at all times when necessary to prevent fugitive dust from being emitted from the filter aid coating process. **[SMAQMD Rule 201, Section 405]**

200. The APC baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be properly maintained and easily accessible to the operator. The manufacturer's recommended pressure differential range shall be posted next to the gauge. The baghouse shall be operated within the recommended range. **[SMAQMD Rule 201, Section 405]**

201. Particulate matter collected by the baghouse shall be disposed of in a manner that prevents re-entertainment of the material into the atmosphere. **[SMAQMD Rule 201, Section 405]**

202. The bag/filter cartridge cleaning frequency shall be according to the manufacturer's specifications. **[SMAQMD Rule 201, Section 405]**

XVII. APC ROTOCLONE (SMAQMD PERMIT NO. 16252) – FEDERALLY ENFORCEABLE STANDARDS

A. EQUIPMENT DESCRIPTION

APC ROTOCLONE, AMERICAN AIR FILTER, MODEL TYPE W ROTOCLONE, 4,800 ACFM, 4 GPM WATER FLOW, VENTING SPENT BLEACHING EARTH DUMP HOPPERS, DUCTWORK AND DUMPSTER ENCLOSURE

B. EMISSION LIMITS

203. Emissions from the APC Rotoclone shall not exceed the following limit:

APC ROTOCLONE (SMAQMD PERMIT NO. 16252)			
Pollutant	**Location**	**Emission Factor lb/ton transferred**	**Maximum Allowable Emission (A) lb/quarter**
PM10	APC Rotoclone	1.92	130

(A) Emission is based on a maximum spent earth production rate of 6.0 tons/day and 92 days/quarter.

C. EQUIPMENT OPERATION

204. The APC Rotoclone shall operate at all times when necessary to prevent fugitive dust from being emitted from the spent bleaching earth dump operation. **[SMAQMD Rule 201, Section 405]**

205. When operating, the water flow rate to the APC Rotoclone shall be 4.0 gallons/minute. **[SMAQMD Rule 201, Section 405]**

206. The Rotoclone water feed line shall be equipped with a flow meter including a readout easily accessible to operating personnel. **[SMAQMD Rule 201, Section 405]**

207. The handling of collected material shall be in such a manner to prevent reentrainment into the atmosphere. **[SMAQMD Rule 201, Section 405]**

XVIII. STANDBY IC ENGINE (SMAQMD PERMIT NO. 13852) – FEDERALLY ENFORCEABLE STANDARDS

A. EQUIPMENT DESCRIPTION

IC ENGINE, STANDBY, DETROIT DIESEL, MODEL DDFP-04AT, SERIAL NO. 4A-282677, 209 BHP @ 1900 RPM, DIESEL-FUELED, DRIVING AN EMERGENCY FIRE PUMP

B. EMISSION LIMITS

208. Emissions from the standby IC engine shall not exceed the following limits: **[SMAQMD Rule 202, Section 410.2]**

IC ENGINE, STANDBY (SMAQMD PERMIT NO. 13852)			
Pollutant	**Emission Factor (A) g/h-hr**	**Maximum Allowable Emissions (B)**	
		lb/quarter	**lb/year**
ROC	1.0	92	92
NOx	14	1,290	1,290
SOx	0.1645	15	15
PM10	1.0	92	92
CO	3.03	279	279

(A) Emission factors are from AP-42, Table 3.3-2, *Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines*, pg 3.3-6 (1/95), except for SOx which is based on 0.05% sulfur by weight in the fuel.
(B) Emissions are based on 209 HP, 200 hours/quarter and 200 hours/year of operation.

C. EQUIPMENT OPERATION

209. The IC engine shall operate only for the following purposes and shall not operate more than the following hours: **[SMAQMD Rule 201, Section 405]**

Type of Operational Hours	**Maximum Allowable Operation**	
	hours/quarter	**hours/year**
Maintenance Purposes (A)	40	40
All Operations – Maintenance and Emergency (B)	200	200

(A) Maintenance purposes is defined as: The operation of the IC engine/fire pump in order to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 – *Standard for Inspection, Testing, and Maintenance of Water-based Fire Protection Systems (2002 Edition or the most current edition*

XVIII. STANDBY IC ENGINE (SMAQMD PERMIT NO. 13852) – FEDERALLY ENFORCEABLE STANDARDS

approved by the ARB Executive Officer), or when required by the District to verify compliance with the applicable rules and regulations.

(B) Emergency is defined as: An occurrence when water is required to be pumped for fire fighting purposes or when the fire suppression system is required to be pressurized due to an unforeseeable drop in water pressure.

210. The IC engine shall be equipped with a non-resetting hour meter, with a minimum display capability of 9,999 hours, to ensure compliance with the operating limits. **[SMAQMD Rule 201, Section 405]**

211. Upon request of the Air Pollution Control Officer or designee, once each year, during daylight hours, the IC engine shall be run at maximum anticipated load, from a cold start condition, for observation of compliance with opacity limitations. **[SMAQMD Rule 201, Section 405]**

212. The IC engine shall be fueled with a CARB diesel fuel, or an alternative diesel fuel that meets the requirements of the verification procedure (as codified in **Title 13, CCR, Sections 2700 – 2710**), or an alternative fuel, or CARB diesel fuel used with fuel additives that meets the requirements of the verification procedure, or any combination of fuels listed in this condition.

D. RECORDKEEPING

213. The following records shall be continuously maintained on-site for the most recent five-year period and shall made available to the Air Pollution Control Officer upon request. Monthly, quarterly and yearly records shall be made available within 30 days of the end of the reporting period. **[SMAQMD Rule 202, Section 410.2]**

Frequency	Information to be Recorded
When operated	a. Date b. Purpose – Either maintenance (M) or emergency power (E) for firefighting purposes including pressure drop in the fire suppression system. c. Number of hours of operation.
Monthly	d. Total number of hours of operation for each operating mode (hours/month).
Quarterly	e. Total number of hours of operation for each operating mode (hours/quarter).
Yearly	f. Total number of hours of operation for each operating mode (hours/year).

XVIII. STANDBY IC ENGINE (SMAQMD PERMIT NO. 13852) – FEDERALLY ENFORCEABLE STANDARDS

Frequency	Information to be Recorded
All fuel deliveries	g. Retain fuel purchase records that account for all fuel purchased for use in the IC engine. Fuel purchase records shall include: 1) Identification of type of fuel (i.e. CARB diesel, alternative diesel. etc) 2) Quantity of fuel purchased 3). Date of fuel purchase 4) Signature of person receiving fuel 5) Signature of fuel provider indicating that fuel was delivered

XIX. WASTEWATER COLLECTION AND TREATMENT SYSTEM (SMAQMD PERMIT NO. 17487) – FEDERALLY ENFORCEABLE REQUIREMENTS

A. EQUIPMENT DESCRIPTION:

WASTEWATER COLLECTION AND TREATMENT SYSTEM

B. EMISSION LIMITS

214. Emissions from the facility wastewater collection and treatment system shall not exceed the following limit: **[SMAQMD Rule 202, Section 410.2]**

WASTEWATER COLLECTION & TREATMENT SYSTEM (SMAQMD PERMIT NO. 17487)	
Pollutant	**Maximum Allowable Emission lb/quarter**
ROC	2,038 (A)

(A) Emission is calculated using the U.S. EPA Water Wastewater Treatment model, applying a 95% control efficiency for covered or hard-piped wastewater streams.

C. EQUIPMENT OPERATION

215. The refinery fat trap and HFA fat trap shall each comply with the requirements listed in Condition 220 for wastewater oil-water separators. **[SMAQMD Rule 201, Section 405]**

216. The coconut unloading sump, tank sump pump, fatty acid sump, sump to the north of the mechanical shop, foots sump, grit well, myron sump, still sump, sump at the east end of the HFA fat trap, and distillation sump shall each comply with the requirements listed in Condition 220 for wastewater tanks. **[SMAQMD Rule 201, Section 405]**

217. Wastewater discharges from the deodorizer separator, methanol dryer, condensate level pot, north vent seal tank, south vent seal tank, and ester ejector shall be into individual drain systems complying with the requirements of Condition 220. **[SMAQMD Rule 201, Section 405]**

218. All wastewater-handling equipment (even if not specifically listed in Conditions 217 thru 219) shall comply with the equipment standards specified in the table below. The equipment standards apply to wastewater handling equipment with a wastewater VOC concentration of greater than or equal to 500 ppmw and a flow rate of greater than or equal to one liter/minute, or with a VOC concentration of greater than or equal to 10,000 ppmw at any flow rate. **[SMAQMD Rule 464, Section 305]**

XIX. WASTEWATER COLLECTION AND TREATMENT SYSTEM (SMAQMD PERMIT NO. 17487) – FEDERALLY ENFORCEABLE REQUIREMENTS

Equipment	Equipment Standards
Wastewater tank not used for mixing, heating, or treating with an exothermic reaction	Fixed roof
Wastewater tank used for mixing, heating, or treating with an exothermic reaction	Fixed roof and closed-vent system routing VOC to a control device with a control efficiency of at least 90% by weight or External floating roof or fixed roof with internal floating roof complying with 40 CFR 63.119 (B-D) and 63.120
Container with a capacity greater than or equal to 112 gallons	Submerged fill pipe
Surface impoundment	Cover and closed-vent system routing VOC to a control device with a control efficiency of at least 90% by weight
Individual drain system	Cover and closed-vent system routing VOC to a control device with a control efficiency of at least 90% by weight or Solid, full contact fixed cover which totally encloses the liquid contents. The cover openings shall be closed and sealed except when the opening is being used for inspection, maintenance or wastewater sampling. or Hard pipe with no headspace open to the atmosphere

XIX. WASTEWATER COLLECTION AND TREATMENT SYSTEM (SMAQMD PERMIT NO. 17487) – FEDERALLY ENFORCEABLE REQUIREMENTS

Equipment	Equipment Standards
Oil-water separator	Fixed roof or closed-vent system routing VOC to a control device with a control efficiency of at least 93% by weight or External floating roof or fixed roof with internal floating roof complying with 40 CFR 63.119 (B-D) and 63.120 or Solid, full contact fixed cover which totally enclosed the liquid contents. The cover openings shall be closed and sealed except when opening is being used for inspection, maintenance or wastewater sampling.
Safety device venting to the atmosphere on wastewater tank, cover, closed vent system, or control device	Designed and operated to be sealed at all times except when an unplanned and non-routine event requires that the device open for the purpose of preventing physical damage or permanent deformation to the equipment in accordance with good engineering and safety practices for handling flammable, combustible, explosive, or other hazardous materials

D. MONITORING

219. The following devices (including those specifically listed in Conditions 215 thru 217) shall be inspected for leaks according to the following schedule: **[SMAMQD Rule 443, Section 302]**

Device	Leak Definition	Inspection Frequency	Inspection Methods
Wastewater oil-water separator covers	500 ppmv as methane	Semi-annual	Portable hydrocarbon detection instrument measured 1 cm from the source (EPA Method 21)

XIX. WASTEWATER COLLECTION AND TREATMENT SYSTEM (SMAQMD PERMIT NO. 17487) – FEDERALLY ENFORCEABLE REQUIREMENTS

Device	Leak Definition	Inspection Frequency	Inspection Methods
Wastewater tank covers	500 ppmv as methane	Semi-annual	Portable hydrocarbon detection instrument measured 1 cm from the source (EPA Method 21)
Wastewater individual drain system covers	500 ppmv as methane	Semi-annual	Portable hydrocarbon detection instrument measured 1 cm from the source (EPA Method 21)

E. REPORTING

220. Any emission leak greater than 500 ppm (expressed as methane) that is discovered pursuant to the inspections required in Condition 221 shall be reported to the Air Pollution Control Officer as soon as reasonably possible, but no later then one hour after detection. If the Air Pollution Control Officer cannot be contacted, the report shall be made at the commencement of the next working day. The leak shall be repaired within 15 calendar days.

221. By February 1st of each calendar year, the facility shall submit an annual wastewater report to the Air Pollution Control Officer. The wastewater reports shall be continuously maintained on site for the most recent 5-year period and shall be made available to the Air Pollution Control Officer upon request. The report shall identify and quantify each wastewater stream at the point where the wastewater exists in the process. Information, data, and supporting test results, records and calculation on location, source and wastewater, and annual flow rate shall be submitted for each wastewater stream.

XIX. WASTEWATER COLLECTION AND TREATMENT SYSTEM (SMAQMD PERMIT NO. 17487) – FEDERALLY ENFORCEABLE REQUIREMENTS

F. RECORDKEEPING

222. The following records shall be continuously maintained on-site for the most recent five-year period and shall be made available to the air pollution control officer upon request. **[SMAQMD Rule 202, Section 410.2]**

Frequency	Information to be Recorded
At all times	a. Source test reports b. Monitoring reports c. Wastewater reports

G. FUTURE EFFECTIVE REQUIREMENTS

Effective May 9, 2009, the following requirements, among other standards and compliance provisions, under 40 CFR 63 Subpart FFFF – National Emission Standards for Hazardous Air Pollution: Miscellaneous Organic Chemical Manufacturing, shall be enforceable:

Wastewater Stream **[40 CFR 63.2485]**

223. For process wastewater stream and liquid streams in open systems, comply with the requirements in Sections 63.132 through 63.148 and 63.149, 40 CRF 63 Subpart G – *National Emission Standards from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations and Wastewater*, except as specified in 40 CFR 63.2485.

224. For maintenance wastewater stream, comply with the requirements in Section 63.105, 40 CFR 63 Subpart F – *National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry*.

XX. HEATER, DOWTHERM #2 – (SMAQMD PERMIT NO. 18457) – FEDERALLY ENFORCEABLE REQUIREMENTS

A. EQUIPMENT DESCRIPTION

HEATER (DOWTHERM #2), SUPERIOR COMPANIES, MODEL ULN-16, 9.9 MMBTU/HR HEAT INPUT RATING, NATURAL GAS-FIRED

Application: Process heater in the ester distillation process.

B. EMISSION LIMITS

225. The heater shall not emit **[SMAQMD Rule 411, Section 301]**
    a. Nitrogen oxides (NOx) in excess of 15 ppmvd, corrected to 3% O_2 and
    b. Carbon monoxide (CO) in excess of 50 ppmvd, corrected to 3% O_2.

226. Emissions from the heater shall not exceed the following limits: **[SMAQMD Rule 202, Section 410.2]**

HEATER, DOWTHERM #2 (SMAQMD PERMIT NO. 18457)		
Pollutant	**Emission factor (A) lb/mmcf**	**Maximum Allowable Emissions (B) lb/quarter**
ROC	5.5	120
NOx	18.2	398
SOx	0.6	13
PM10	7.6	166
CO	37	809

(A) Emission factors for ROC, SOx and PM10 are from AP-42, Tables 1.4-1 ~ 1.4-2, *Emission Factors from Natural Gas Combustion*, pg 1.4-5 ~ 1.4-6 (7/98), except for NOx and CO which are based on the manufacturer's guarantee of 15 ppmvd @ 3% o_2 and 50 ppmvd @ 3% o_2, respectively.
(b) Emissions are based on a maximum fuel usage of 9,900 cf/hour, 24 hours/day and 92 days/quarter.

227. Emission reduction credits for ROC have been surrendered by P&G in accordance with the emission offset requirements. **[SMAQMD Rule 202, Section 302.4]**

SMAQMD Permit No.	**Emission Reduction Credit**		
	Certificate No.	**Pollutant**	**lb/year (tons/year)**
18457	05-00928	ROC	480 (0.24)

XX. HEATER, DOWTHERM #2 – (SMAQMD PERMIT NO. 18457) – FEDERALLY ENFORCEABLE REQUIREMENTS

C. EQUIPMENT OPERATION

228. The heater shall be fired on natural gas only. **[SMAQMD Rule 201, Section 405]**

D. MONITORING

229. A source test for NOx and CO shall be performed once every second calendar year to demonstrate compliance with the emissions limits in Condition No. 225. Additionally, the source test shall be conducted in accordance with the following conditions: **[SMAQMD Rule 207, Section 305 (f)(4)]**
    a. Submit a source test plan to the Air Pollution Control Officer for approval at least 30 days before the source test is to be performed.
    b. Notify the Air Pollution Control Officer at least 7 days prior to the source test date.
    c. During the source test, operate the heater at a firing rate that is as close as physically possible to the unit's rated heat input capacity.
    d. Submit the source test report to the Air Pollution Control Officer within 60 days of the source test date.

230. Test methods to be used for the source test shall be those specified in **SMAQMD Rule 411, Section 501** – NOx from Boilers, Process Heaters and Steam Generators.
    a. Oxide of Nitrogen – ARB Method 100 or EPA Method 7E
    b. Carbon Monoxide – ARB Method 100 or EPA Method 10
    c. Stack Gas Oxygen – ARB Method 100 or EPA Method 3A
    d. Carbon Dioxide – ARB Method 100 or EPA Method 3A

E. RECORDKEEPING

231. No recordkeeping shall be required for the fuel usage of the heater because maximum allowable emissions are based on the maximum heat input capacity, 24 hours/day and 92 days/quarter.

F. FUTURE EFFECTIVE REQUIREMENTS

232. Upon notification by the SMAQMD, the source shall submit a Part 2 permit application for the affected boiler or heater in order to comply with either of the following requirements: **[CAA Section 112(j)]**
    a. Case-by-case maximum achievable control technology (MACT) standards established by the SMAQMD in accordance with the CAA Section 112(j) provision; or
    b. Amended standards promulgated in 40 CFR 63 Subpart DDDDD – *National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters*.

XXI. APC SCRUBBER – (SMAQMD PERMIT NO. 20123) – FEDERALLY ENFORCEABLE REQUIREMENTS

A. EQUIPMENT DESCRIPTION

APC SCRUBBER, MAKE UNKNOWN, VERTICAL, COUNTERFLOW PACKED BED, 1'-6" DIAMETER x 31'-0" HIGH, PROCESS FLOWRATE – 43 DSCFM, SCRUBBING LIQUID – WATER, SCRUBBING LIQUID FLOWRATE – 7 GPM

INLET – PROCESS VENTS FROM NORTH HFA AND ALCOHOL DISTILLATION
OUTLET – NORTH VENT SEAL TANK (SMAQMD PERMIT NO. 16567)

B. EQUIPMENT OPERATION

233. The APC Scrubber shall be operated and maintained in accordance with the operation and maintenance plan as required in SMAQMD Permit No. 20123.

C. RECORDKEEPING

234. The following records shall be continuously maintained on-site for the most recent five-year period and shall be made available to the air pollution control officer upon request. **[SMAQMD Rule 202, Section 410.2]**

Frequency	Information to be Recorded
At all times	a. The APC Scrubber Operation and Maintenance Plan b. Records specified in the approved Operations and Maintenance Plan

XXII. APC SCRUBBER – (SMAQMD PERMIT NO. 20993) – FEDERALLY ENFORCEABLE REQUIREMENTS

A. EQUIPMENT DESCRIPTION

APC SCRUBBER, DUALL, MODEL ET-100, TWO-STAGE, 100 ACFM GAS FLOWRATE, 5 HP, CONSISTING OF:
(1) EDUCTOR VENTURI
(2) COLLECTOR TANK
(3) MIST ELIMINATOR & PACKED BED

INLET – PROCESS VENT FROM DEGUMMING REACTOR (SMAQMD PERMIT NO. 18397)
OUTLET – VENTS TO ATMOSPHERE

B. EMISSION LIMITS

235. Emissions from the APC Scrubber shall not exceed the following limit:

APC SCRUBBER (SMAQMD PERMIT NO. 20993)	
Pollutant	**Maximum Allowable Emissions (A) lb/quarter**
ROC	2

(A) Emissions are based on an inlet process rate of 164 lb/quarter and a removal efficiency of 99%.

C. EQUIPMENT OPERATION

236. The APC Scrubber shall operate whenever the physically refined oil process (degumming reactor) is operational.

D. RECORDKEEPING

237. No recordkeeping shall be required.

XXIII. FUTURE APPLICABLE REQUIREMENTS – (SMAQMD AUTHORITY TO CONSTRUCT PERMIT NOS. 20164 / 21601) – FEDERALLY ENFORCEABLE REQUIREMENTS

SMAQMD AUTHORITY TO CONSTRUCT PERMIT NO. 20164 / 21601

A. EQUIPMENT DESCRIPTION

APC THERMAL OXIDIZER, BAKER FURNACE, MODEL SX 2500, HEAT INPUT RATING – 6.0 MMBTU/HR, 10 HP BLOWER

KNOCKOUT DRUM, 5' DIA x 8'-6" H, 1,250 GALLONS CAPACITY, 60 PSIG DESIGN PRESSURE

[AKA SOUTH THERMAL OXIDIZER (STO), SERVING ALCOHOL DISTILLATION]

B. EMISSION LIMITS

238. Combustion emissions from the APC Thermal Oxidizer shall not exceed the following limits: **[SMAQMD Rule 202, Section 410.2]**

APC THERMAL OXIDIZER (SMAQMD A/C PERMIT NO. 20164)		
Pollutant	**Emission Factor (A) lb/mmcf**	**Maximum Allowable Emissions (B) lb/quarter**
ROC	5.5	73
NOx	36.4	482
SOx	0.6	8
PM10	7.6	101
CO	84	1,113

(A) Emission factors are from AP-42, Tables 1.4-1 ~ 1.4-2, *Emission Factors from Natural Gas Combustion*, pg 1.4-5 ~ 1.4-6 (7/98), except for NOx which is based on 30 ppmvd @ 3% O_2.

(B) Emissions are based on a maximum fuel usage of 6,000 cubic feet/hour, 24 hours/day and 92 days/quarter.

239. Emission reduction credits for ROC have been surrendered by P&G in accordance with the emission offset requirements. **[SMAQMD Rule 202, Section 302.4]**

SMAQMD Permit No.	Emission Reduction Credit		
	Certificate No.	**Pollutant**	**lb/year (tons/year)**
20164	07-01035	ROC	292 (0.15)

XXIII. FUTURE APPLICABLE REQUIREMENTS – (SMAQMD AUTHORITY TO CONSTRUCT PERMIT NOS. 20164 / 21601) – FEDERALLY ENFORCEABLE REQUIREMENTS

C. EQUIPMENT OPERATION

240. The APC Thermal Oxidizer shall demonstrate a control device efficiency for total reactive organic compound (ROC) on a mass basis according to the following limit: **[SMAQMD Rule 201, Section 405]**

Control Equipment	Control Device Efficiency %
APC Thermal Oxidizer – STO (A/C 20164)	95

241. Within thirty (30) days after establishing the process definitions for the operation of the APC Thermal Oxidizer, submit an Operation and Maintenance Plan to the Air Pollution Control Officer for approval. The Operation and Maintenance Plan shall include the following information: **[SMAQMD Rule 201, Section 405]**
    a. Operation and maintenance procedure to demonstrate continuous operation of the emission control device during periods of emissions-producing operations.
    b. Operation of the emission control device may be shut down or bypassed only for the following reasons:
        (1) During startup, shutdown or malfunction as defined in the Operation and Maintenance Plan and/or Startup, Shutdown, Malfunction Plan.
        (2) During periods when the emission control device is being tested, or preparing to be tested, by introducing a load of known mass flow rate, known as “spiking”.
    c. The plan shall include key operating parameters such as temperature, pressure, and/or flow rate.
    d. Records to be maintained to monitor these operation and maintenance procedures.

242. The APC Thermal Oxidizer shall be fired on natural gas only. **[SMAQMD Rule 201, Section 405]**

D. MONITORING

243. An initial source test shall be performed on the APC Thermal Oxidizer within sixty (60) days from equipment startup, to demonstrate compliance with the control efficiency requirements in Condition No. 240. A compliance source test may subsequently be required, at the discretion of the SMAQMD, to verify compliance with the limit in Condition No. 245. Additionally, the source test shall be conducted in accordance with the following conditions: **[SMAQMD Rule 207, Section (f)(4)]**
    a. Submit a source test plan to the Air Pollution Control Officer for approval at least 30 days before the source test is to be performed.
    b. Notify the Air Pollution Control Officer at least 7 days prior to the source test date if the date has changed from that approved in the source test plan.

XXIII. FUTURE APPLICABLE REQUIREMENTS – (SMAQMD AUTHORITY TO CONSTRUCT PERMIT NOS. 20164 / 21601) – FEDERALLY ENFORCEABLE REQUIREMENTS

c. Submit the source test report within 60 days of the source test date.
d. Sample ports and test platforms, where necessary, shall be constructed per applicable EPA and OSHA requirements.

E. RECORDKEEPING

244. No recordkeeping shall be required for the fuel usage of the thermal oxidizer because maximum allowable emissions are based on the maximum heat input capacity, 24 hours/day and 92 days/quarter.

F. FUTURE EFFECTIVE REQUIREMENTS

245. Effective **May 9, 2009**, the APC Thermal Oxidizer shall demonstrate a control device efficiency for total organic hazardous air pollutants (HAP) on a mass basis equal to or greater than the following limit: **[40 CFR 63.2470 & Table 4]**

Control Equipment	Control Device Efficiency %
APC Thermal Oxidizer – STO (A/C 21601)	95

XXIV. FUTURE APPLICABLE REQUIREMENTS – (SMAQMD AUTHORITY TO CONSTRUCT PERMIT NOS. 20166 / 21602) – FEDERALLY ENFORCEABLE REQUIREMENTS

SMAQMD AUTHORITY TO CONSTRUCT PERMIT NO. 20166 / 21602

A. EQUIPMENT DESCRIPTION

APC THERMAL OXIDIZER, BAKER FURNACE, MODEL SX 2500, HEAT INPUT RATING – 6.0 MMBTU/HR, 10 HP BLOWER

[AKA NORTH THERMAL OXIDIZER (NTO), SERVING THE METHYL ESTER/GLYCERINE & FATTY ACID PROCESSES]

B. EMISSION LIMITS

246. Combustion emissions from the APC Thermal Oxidizer shall not exceed the following limits: **[SMAQMD Rule 202, Section 410.2]**

APC THERMAL OXIDIZER (SMAQMD A/C PERMIT NO. 20166)		
Pollutant	**Emission Factor (A) lb/mmcf**	**Maximum Allowable Emissions (B) lb/quarter**
ROC	5.5	73
NOx	36.4	482
SOx	0.6	8
PM10	7.6	101
CO	84	1,113

(A) Emission factors are from AP-42, Tables 1.4-1 ~ 1.4-2, *Emission Factors from Natural Gas Combustion*, pg 1.4-5 ~ 1.4-6 (7/98), except for NOx which is based on 30 ppmvd @ 3% O_2.

(B) Emissions are based on a maximum fuel usage of 6,000 cubic feet/hour, 24 hours/day and 92 days/quarter.

247. Emission reduction credits for ROC have been surrendered by P&G in accordance with the emission offset requirements. **[SMAQMD Rule 202, Section 302.4]**

SMAQMD Permit No.	**Emission Reduction Credit**		
	Certificate No.	**Pollutant**	**lb/year (tons/year)**
20166	07-01036	ROC	292 (0.15)

XXIV. FUTURE APPLICABLE REQUIREMENTS – (SMAQMD AUTHORITY TO CONSTRUCT PERMIT NOS. 20166 / 21602) – FEDERALLY ENFORCEABLE REQUIREMENTS

C. EQUIPMENT OPERATION

248. The APC Thermal Oxidizer shall demonstrate a control device efficiency for total reactive organic compound (ROC) on a mass basis according to the following limit: **[SMAQMD Rule 201, Section 405]**

Control Equipment	Control Device Efficiency %
APC Thermal Oxidizer – NTO (A/C 20166)	95

249. Within thirty (30) days after establishing the process definitions for the operation of the APC Thermal Oxidizer, submit an Operation and Maintenance Plan to the Air Pollution Control Officer for approval. The Operation and Maintenance Plan shall include the following information: **[SMAQMD Rule 201, Section 405]**
    a. Operation and maintenance procedure to demonstrate continuous operation of the emission control device during periods of emissions-producing operations.
    b. Operation of the emission control device may be shut down or bypassed only for the following reasons:
        (1) During startup, shutdown or malfunction as defined in the Operation and Maintenance Plan and/or Startup, Shutdown, Malfunction Plan.
        (2) During periods when the emission control device is being tested, or preparing to be tested, by introducing a load of known mass flow rate, known as “spiking”.
    c. The plan shall include key operating parameters such as temperature, pressure, and/or flow rate.
    d. Records to be maintained to monitor these operation and maintenance procedures.

250. The APC Thermal Oxidizer shall be fired on natural gas only. **[SMAQMD Rule 201, Section 405]**

D. MONITORING

251. An initial source test shall be performed on the APC Thermal Oxidizer within sixty (60) days from equipment startup, to demonstrate compliance with the control efficiency requirements in Condition No. 248. A compliance source test may subsequently be required, at the discretion of the SMAQMD, to verify compliance with the limit in Condition No. 253. Additionally, the source test shall be conducted in accordance with the following conditions: **[SMAQMD Rule 207, Section (f)(4)]**
    a. Submit a source test plan to the Air Pollution Control Officer for approval at least 30 days before the source test is to be performed.
    b. Notify the Air Pollution Control Officer at least 7 days prior to the source test date if the date has changed from that approved in the source test plan.

XXIV. FUTURE APPLICABLE REQUIREMENTS – (SMAQMD AUTHORITY TO CONSTRUCT PERMIT NOS. 20166 / 21602) – FEDERALLY ENFORCEABLE REQUIREMENTS

c. Submit the source test report within 60 days of the source test date.
d. Sample ports and test platforms, where necessary, shall be constructed per applicable EPA and OSHA requirements.

E. RECORDKEEPING

252. No recordkeeping shall be required for the fuel usage of the thermal oxidizer because maximum allowable emissions are based on the maximum heat input capacity, 24 hours/day and 92 days/quarter.

F. FUTURE EFFECTIVE REQUIREMENTS

253. Effective **May 9, 2009**, the APC Thermal Oxidizer shall demonstrate a control device efficiency for total organic hazardous air pollutants (HAP) on a mass basis equal to or greater than the following limit: **[40 CFR 63.2455 & Table 1 and 63.2455 & Table 2]**

Control Equipment	Control Device Efficiency %
APC Thermal Oxidizer – NTO (A/C 21602)	98

XXV. INSIGNIFICANT EMISSIONS UNITS

INSIGNIFICANT EMISSIONS UNITS

256. The following systems are considered insignificant emissions units and are not subject to equipment-specific requirements. However, these units are required to comply with all applicable general requirements.

Equipment Description	Basis for the Exemption
Storm Pond	Section 103.17 of SIP approved Rule 201, and Section 122 of the version of Rule 201 approved with the Title V program.
Plant Transportation Vehicles	Section 103.1 of SIP approved Rule 201, and Section 111.1 of the version of Rule 201 approved with the Title V program.
Portable Engines, < 50 hp	Section 103.2 of SIP approved Rule 201, and Section 112.1 of the version of Rule 201 approved with the Title V program.
Small Combustion Equipment, <1MMBtu	Section 103.6 of SIP approved Rule 201, and Section 112.2 of the version of Rule 201 approved with the Title V program.
Miscellaneous Storage and Transfer Equipment, <100 gal	Section 103.10 of SIP approved Rule 201, and Section 117 of the version of Rule 201 approved with the Title V program.
Laboratory	Section 103.14 of SIP approved Rule 201, and Section 120 of the version of Rule 201 approved with the Title V program.
Repairs & Maintenance	Section 103.16 of SIP approved Rule 201, and Section 121 of the version of Rule 201 approved with the Title V program.
Degreaser < 100 gal	Section 103.17 of SIP approved Rule 201, and Section 118.3 of the version of Rule 201 approved with the Title V program.
Three (3) Cooling Towers	Section 122 of SIP approved Rule 201.
Process Cooling Water System	Section 232 of SIP approved Rule 464.