



South Carolina Department of Health
and Environmental Control

Part 70 Air Quality Permit

Rhodia, Inc.
2151 King Street Extension
Charleston, SC 29405

In accordance with the provisions of the Pollution Control Act, Sections 48-1-50(5) and 48-1-110(a), and the 1976 Code of Laws of South Carolina, as amended, Regulation 61-62, the above named permittee is hereby granted permission to discharge air contaminants into the ambient air. The Bureau of Air Quality authorizes the operation of this facility and its applicable equipment specified herein in accordance with valid construction permits, and the plans, specifications, and other information submitted in the Title V permit application received on January 30, 2006, as amended.

This permit is subject to and conditioned upon the terms, limitations, standards, and schedules contained in or specified on the 58 pages, with the accompanying attachments, of this permit.

Permit Number: TV-0560-0011
Issue Date: April 29, 2008

Effective Date: July 1, 2008
Expiration Date: June 30, 2013

Director, Engineering Services Division
Bureau of Air Quality

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PART 1.0 GENERAL INFORMATION

A. APPLICABLE PERMIT DATES

ISSUE DATE : April 29, 2008
EFFECTIVE DATE : July 1, 2008
EXPIRATION DATE : June 30, 2013
RENEWAL APPLICATION DUE : December 31, 2012

B. FACILITY INFORMATION

ENVIRONMENTAL CONTACT : Lonnie Gleaton
CONTACT TELEPHONE NUMBER : 843-740-5228
CONTACT FAX NUMBER: : 843-740-5224
INTERNET E-MAIL ADDRESS : Lonnie.Gleaton@us.rhodia.com
FACILITY LOCATION : 2151 King Street Extension, Charleston
COUNTY : Charleston
SIC CODE(S) : 2869
NAICS CODE(S) : 325199
AFS CODE : 4501900011

C. FACILITY MAILING ADDRESS

FACILITY NAME : Rhodia, Inc.
ADDRESS : 2151 King Street Extension
CITY, STATE, ZIP : Charleston, SC 29405

D. FACILITY BILLING ADDRESS

FACILITY BILLING NAME : Rhodia, Inc.
ADDRESS : 2151 King Street Extension
CITY, STATE, ZIP : Charleston, SC 29405

PART 2.0 APPLICABILITY [SC Regulation 61-62.70.3(a)]

Condition Number	Condition
2.1	<p>The following sources are subject to permitting requirements of Part 70:</p> <ol style="list-style-type: none"> 1. Any major source; 2. Any source, including an area source, subject to a standard, limitation, or other requirement under Section 111 of the Clean Air Act (Act); 3. Any source, including an area source, subject to a standard or other requirement under Section 112 of the Act, except that a source is not required to obtain a permit solely because it is subject to regulations or requirements under Section 112(r) of the Act; 4. Any affected source under the Title IV Acid Rain Program; 5. Any source in a source category designated by the Administrator of the US Environmental Protection Agency (US EPA) (Administrator) pursuant to this Section; and 6. Any source listed in SC Regulation 61-62.70.3(a) that is exempt from the requirement to obtain a permit under SC Regulation 61-62.70.3(b) may opt to apply for a permit under this Part 70 program.
2.2	<p>The following source categories are exempted from the obligation to obtain a Part 70 permit, but are not exempted from other SC Department of Health and Environmental Control (Department) and US EPA requirements [SC Regulation 61-62.70.3(b)(4)]:</p> <ol style="list-style-type: none"> 1. All sources and source categories that would be required to obtain a permit solely because they are subject to 40 CFR 60, Subpart AAA - Standards of Performance for New Residential Wood Heaters; and 2. All sources and source categories that would be required to obtain a permit solely because they are subject to 40 CFR 61, Subpart M - National Emission Standard for Hazardous Air Pollutants for Asbestos, Section 61.145, Standard for Demolition and Renovation.
2.3	<p>Any person that operates or proposes to operate a particular source or installation may submit a request in writing that the Department make a determination as to whether a particular source or installation is subject to the permit requirements of Part 70. The request must contain such information as is believed sufficient for the Department to make the requested determination. The Department may request any additional information that it needs for purposes of making the determination. [SC Regulation 61-62.70.3(e)]</p>

PART 3.0 GENERAL CONDITIONS

This part describes conditions and provisions applicable to all Part 70 sources. Specific source category conditions and requirements are contained in Part 5.0 of this permit.

A. PERMIT ISSUANCE [SC Regulation 61-62.70.7(a)(1)]

Condition Number	Condition
3.A.1	A Title V operating permit does not excuse any facility from the preconstruction permitting requirements under SC Regulation 61-62.1.

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Condition Number	Condition
3.A.2	<p>A permit, permit modification, or renewal may be issued only if the following conditions have been met:</p> <ol style="list-style-type: none"> 1. The Department has received a complete application for a permit, permit modification, or permit renewal; 2. Except for modifications qualifying for minor permit modification procedures under SC Regulation 61-62.70.7(e)(2) and (3) the Department has complied with the requirements for public participation under SC Regulation 61-62.70.7(h); 3. The Department has complied with the requirements for notifying and responding to affected States under SC Regulation 61-62.70.8(b); 4. The conditions of the permit provide for compliance with all applicable requirements and the requirements of Part 70; and 5. The Administrator has received a copy of the proposed permit and any notices required under SC Regulation 61-62.70.8(a) and (b), and has not objected to issuance of the permit under SC Regulation 61-62.70.8(c) within the required time frame.

B. PERMIT RENEWAL AND EXPIRATION [SC Regulation 61-62.70.7(c)]

Condition Number	Condition
3.B.1	Permits being renewed are subject to the same procedural requirements, including those for public participation, affected State and US EPA review, that apply to initial permit issuance; and
3.B.2	Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with SC Regulation 61-62.70.5(a)(1)(iii), 62.70.5(a)(2)(iv), and 62.70.7(b). In this case, the permit shall not expire until the renewal permit has been issued or denied. All terms and conditions of the permit including any permit shield that may be granted pursuant to SC Regulation 61-62.70.6(f) shall remain in effect until the renewal permit has been issued or denied.

C. SEVERABILITY [SC Regulation 61-62.70.6(a)(5)]

Condition Number	Condition
3.C.1	The provisions of this permit are severable, and if any provision of this permit, or application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

D. FEE ASSESSMENT AND PAYMENT [SC Regulation 61-62.70.6(a)(7)]

Condition Number	Condition
3.D.1	The owners or operators of Part 70 sources shall pay fees to the Department consistent with the fee schedule approved pursuant to South Carolina Regulation 61-62.70.9.

E. SUBMITTAL OF INFORMATION [SC Regulation 61-62.70.6(a)(6)(v)]

Condition Number	Condition
3.E.1	The permittee shall furnish to the Department, within a reasonable time, any information that the Department may request, in writing, to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Department copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. The Department may also request that the permittee furnish such records directly to the Administrator along with a claim of confidentiality.

F. PUBLIC PARTICIPATION [SC Regulation 61-62.70.7(h)]

Condition Number	Condition
3.F.1	Except for modifications qualifying for minor permit modification procedure, all permit proceedings, including initial permit issuance, significant modifications, and renewals, shall provide adequate procedures for public notice including offering an opportunity for public comment and hearing on the draft permit. These procedures shall meet all requirements of SC Regulation 61-62.70.7(h).

G. PERMIT REOPENING [SC Regulation 61-62.70.7(f)]

Condition Number	Condition
3.G.1	The permit may be modified, revoked, reopened and reissued, or terminated for cause by the Department. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [SC Regulation 61-62.70.6(a)(6)(iii)].
3.G.2	<p>This permit shall be reopened and revised under any of the following circumstances:</p> <ol style="list-style-type: none"> 1. Additional applicable requirements under the Act become applicable to a major Part 70 source with a remaining permit term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement unless the regulation specifically provides for a longer compliance period. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to SC Regulation 61-62.70.7(c)(1)(ii). 2. Additional requirements, including excess emission requirements, become applicable to an affected source under the acid rain program. Excess emissions offset plans shall be deemed to be incorporated into this permit upon approval by the Administrator. 3. The Department or US EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit. 4. The Administrator or the Department determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

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Condition Number	Condition
3.G.3	Proceedings to reopen and issue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopening shall be as expeditious as practicable. Reopenings shall not be initiated before a notice of such intent is provided to the Part 70 source by the Department at least thirty (30) days in advance of the date that the permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

H. TEMPORARY SOURCES [SC Regulation 61-62.70.6(e)]

Condition Number	Condition
3.H.1	The Department may issue a single permit authorizing emissions from similar operations by the same source owner or operator at multiple temporary locations. The operation must be temporary and involve at least one change in location during the term of the permit. No sources subject to Title IV of the Act shall be permitted as a temporary source. Permits for temporary sources shall include all requirements of SC Regulation 61-62.70.6(e).

I. EMERGENCY PROVISIONS [SC Regulation 61-62.70.6(g)(3)]

Condition Number	Condition
3.I.1	In the case of an emergency, as defined in SC Regulation 61-62.70.6(g), the permittee shall demonstrate an affirmative defense of emergency through properly signed, contemporaneous operating logs, or other relevant evidence that: <ol style="list-style-type: none"> 1. An emergency occurred and that the permittee can identify the cause(s) of the emergency; 2. The permitted facility was at the time being properly operated; and 3. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
3.I.2	Additionally, the permittee shall submit verbal notification of the emergency to the Department within twenty-four (24) hours of the time when emission limitations were exceeded, followed by written notifications within thirty (30) days. This notice fulfills the requirement of SC Regulation 61-62.70.6(a)(3)(iii)(B). This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
3.I.3	This provision is in addition to any emergency or upset provision contained in any applicable requirement. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

J. PROPERTY RIGHTS [SC Regulation 61-62.70.6(a)(6)(iv)]

Condition Number	Condition
3.J.1	This permit does not convey any property rights of any sort, or any exclusive privilege.

K. ECONOMIC INCENTIVES, MARKETABLE PERMITS, EMISSION TRADING [SC Regulation 61-62.70.6(a)(8)]

Condition Number	Condition
3.K.1	No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.

L. TITLE IV SOURCES [SC Regulation 61-62.70.6(a)(4)]

Condition Number	Condition
3.L.1	Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be incorporated into the permit and shall be enforceable by the Administrator. [SC Regulation 61-62.70.6(a)(1)(ii)]
3.L.2	The permittee is prohibited from emissions exceeding any allowances that the source lawfully holds under Title IV of the Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by a source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowances shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Act.

M. ADMINISTRATIVE PERMIT AMENDMENTS [SC Regulation 61-62.70.7(d)(3)]

Condition Number	Condition
3.M.1	An administrative permit amendment as defined in SC Regulation 61-62.70.7(d) can be made by the Department consistent with the following: <ol style="list-style-type: none"> 1. The Department shall take no more than sixty (60) days from receipt of a request for an administrative permit amendment to take final action on such request, and may incorporate such changes without providing notice to the public or affected States provided that it designates any such permit revisions as having been made pursuant to this paragraph. 2. The Department shall submit a copy of the revised permit to the Administrator. 3. The source may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request, except transfer/ownership which must comply with SC Regulation 61-62.1, Section II(M).

N. MINOR PERMIT MODIFICATIONS [SC Regulation 61-62.70.7(e)(2)]

Condition Number	Condition
3.N.1	Minor permit modifications can be made by the Department in accordance with SC Regulation 61-62.70.7(e)(2)(i). An application requesting the use of minor permit modification procedures shall meet the requirements of SC Regulation 61-62.70.5(c) and shall include items as specified in SC Regulation 61-62.70.7(e)(2)(ii).

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Condition Number	Condition
3.N.2	The Department may modify the procedure outlined in SC Regulation 61-62.70.7(e)(2) to process groups of a source's applications for certain modifications eligible for minor permit modification processing. Group processing of minor permit applications will proceed as outlined in SC Regulation 61-62.70.7(e)(3).

O. SIGNIFICANT MODIFICATION PROCEDURES [SC Regulation 61-62.70.7(e)(4)]

Condition Number	Condition
3.O.1	Significant permit modification procedures shall be used for applications requesting permit modifications listed in SC Regulation 61-62.70.7(e)(4)(i). Significant permit modifications shall meet all requirements of Part 70, including those for applications, public participation, review by affected States, and review by US EPA, as they apply to permit issuance and permit renewal.

P. DUTY TO COMPLY [SC Regulation 61-62.70.6(a)(6)(i)]

Condition Number	Condition
3.P.1	The permittee must comply with all of the conditions of this permit. Any permit noncompliance constitutes a violation of the SC Pollution Control Act and/or the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of permit renewal application.

Q. INSPECTION AND ENTRY [SC Regulation 61-62.70.6(c)(2)]

Condition Number	Condition
3.Q.1	<p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Department or an authorized representative to perform the following:</p> <ol style="list-style-type: none"> 1. Enter upon the permittee's premises where a Part 70 source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit. 2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. 3. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit. 4. As authorized by the Act and/or the SC Pollution Control Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

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R. COMPLIANCE REQUIREMENTS [SC Regulation 61-62.70.6(c)(5)]

Condition Number	Condition								
3.R.1	Consistent with SC Regulations 61-62.70.6(a)(3), 61-62.70.6(a)(3)(iii)(A), and 61-62.70.6(c)(5), this permit contains compliance certification, testing, monitoring, reporting, and record keeping requirements sufficient to assure compliance with the terms and conditions of this permit. Any submitted document (including reports) shall contain a certification by a responsible official that meets the requirements of SC Regulation 61-62.70.5(d).								
3.R.2	The responsible official shall certify, annually, compliance with the conditions of this permit as required under SC Regulation 61-62.70.6(c). The compliance certification shall include the following: <ol style="list-style-type: none"> 1. The identification of each term or condition of the permit that is the basis of the certification. 2. The identification of the method(s) or means used for determining the status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the method or means designated in 61-62.70.6(c)(5)(iii)(B). The certification shall identify each deviation and take it into account in the compliance certification. 3. The status of compliance with the terms and conditions of the permit for the period covered by the certification. 4. Such other facts as the Department may require to determine the compliance status of the source. 								
3.R.3	All compliance certifications shall be sent to the United States Environmental Protection Agency (US EPA) and the South Carolina Department of Health and Environmental Control - Bureau of Air Quality (SC DHEC - BAQ) at the following addresses: <table style="margin-left: auto; margin-right: auto; border: none;"> <tr> <td style="text-align: center; padding: 5px;">US EPA, Region 4</td> <td style="text-align: center; padding: 5px;">SC DHEC - BAQ</td> </tr> <tr> <td style="text-align: center; padding: 5px;">Air Enforcement Branch</td> <td style="text-align: center; padding: 5px;">Technical Management Section</td> </tr> <tr> <td style="text-align: center; padding: 5px;">61 Forsyth Street</td> <td style="text-align: center; padding: 5px;">2600 Bull Street</td> </tr> <tr> <td style="text-align: center; padding: 5px;">Atlanta, GA 30303</td> <td style="text-align: center; padding: 5px;">Columbia, SC 29201</td> </tr> </table>	US EPA, Region 4	SC DHEC - BAQ	Air Enforcement Branch	Technical Management Section	61 Forsyth Street	2600 Bull Street	Atlanta, GA 30303	Columbia, SC 29201
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Air Enforcement Branch	Technical Management Section								
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3.R.4	Unless elsewhere specified within this permit, all reports required under this permit shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality, at the address listed below, <table style="margin-left: auto; margin-right: auto; border: none;"> <tr> <td style="text-align: center; padding: 5px;">SC DHEC - BAQ</td> </tr> <tr> <td style="text-align: center; padding: 5px;">Technical Management Section</td> </tr> <tr> <td style="text-align: center; padding: 5px;">2600 Bull Street</td> </tr> <tr> <td style="text-align: center; padding: 5px;">Columbia, SC 29201</td> </tr> </table>	SC DHEC - BAQ	Technical Management Section	2600 Bull Street	Columbia, SC 29201				
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3.R.5	Reporting required in this permit, shall be submitted in a timely manner as directed in Part 6.0 of this permit.								

S. RECORD KEEPING REQUIREMENTS [SC Regulation 61-62.70.6(a)(3)(ii)]

Condition Number	Condition
3.S.1	<p>The permittee shall comply, where applicable, with the following monitoring/support information collection and retention record keeping requirements:</p> <ol style="list-style-type: none"> 1. Records of required monitoring information that include the following: <ol style="list-style-type: none"> a. The date, place as defined in the permit, and time of sampling or measurements; b. The date(s) analyses were performed; c. The company or entity that performed the analyses; d. The analytical techniques or methods used; e. The results of such analyses; and f. The operating conditions as existing at the time of sampling or measurement; 2. Retention of records of all required monitoring data and support information for a period of at least 5 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 permit.

T. SCHEDULE OF COMPLIANCE [SC Regulation 61-62.70.5(c)(8)]

Condition Number	Condition
3.T.1	<p>The permittee shall submit a compliance schedule that contains the following for all Part 70 sources that are not in compliance with all applicable rules:</p> <ol style="list-style-type: none"> 1. A description of the source's compliance status and where appropriate a compliance schedule with respect to all applicable requirements as follows: <ol style="list-style-type: none"> a. For applicable requirements with which the source is in compliance, a statement that during the permit term the source will continue to comply with such requirements. b. For applicable requirements that will become effective during the permit term, a statement that the source will meet such requirements on a timely basis, unless a more detailed schedule is expressly required by the applicable requirement. c. A schedule of compliance for sources that are not in compliance with all applicable requirements at the time of permit issuance. This schedule shall include a narrative description of how the source will achieve compliance with such requirements, a schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance with all applicable requirements for which the source will be in noncompliance at the time of permit issuance. This compliance schedule shall be at least as stringent as that contained in any judicial consent decree or administrative order to which the source is subject. Any such schedule of compliance shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. 2. A schedule for submission of certified progress reports no less frequently than every six (6) months for sources required to have a schedule of compliance to remedy a violation. Progress reports shall meet the requirements of SC Regulation 61-62.70.6(c)(4)(i) and (ii). 3. The compliance plan content requirements specified in this paragraph shall apply and be included in the acid rain portion of a compliance plan for an affected source, except as specifically superseded by regulations promulgated under Title IV of the Act with regard to the schedule and method(s) the source will use to achieve compliance with acid rain emissions limitations.

U. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE [SC Regulation 61-62.70.6(a)(6)(ii)]

Condition Number	Condition
3.U.1	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 this permit.

V. OPERATIONAL FLEXIBILITY [SC Regulation 61-62.70.7(e)(5)]

Condition Number	Condition
3.V.1	Changes under the Clean Air Act, Section 502(b)(10), are changes that contravene an express permit term. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. A permitted facility is authorized to make section 502(b)(10) changes within its facility without requiring a permit revision, if the changes are not modifications under any provision of Title I of the Act and the changes do not exceed the emissions allowable under this permit. The permitted facility shall provide the Administrator and the Department written notification as required by SC Regulation 61-62.70.7(e)(5) at least seven (7) days prior to such changes.

PART 4.0 FACILITY WIDE REQUIREMENTS

Condition Number	Condition
4.1	In accordance with SC Regulation 61-62.1, Section II, the permittee must comply with all applicable Air Quality statutes and regulations of the United States and the State of South Carolina. This permit does not relieve the permittee from compliance with applicable local laws, ordinances, and regulations such as, but not exclusive to zoning, building permits, and other programs regulated by entities other than the Bureau of Air Quality.
4.2	Air dispersion modeling (or other method) has demonstrated that this facility's operation will not interfere with the attainment and maintenance of any state or federal ambient air standard. Any changes in the parameters used in the air dispersion modeling may require a review by the facility to determine continuing compliance with these standards. These potential changes include any decrease in stack height, decrease in stack velocity, increase in stack diameter, decrease in stack exit temperature, increase in building height or building additions, increase in emission rates, decrease in distance between stack and property line, changes in vertical stack orientation, and installation of a rain cap that impedes vertical flow. Parameters that are not required in the determination will not invalidate the demonstration if they are modified. The emission rates used in the determination are listed in Attachment A of this permit. Higher emission rates may be administratively incorporated into Attachment A of this permit provided a demonstration using these higher emission rates shows the attainment and maintenance of any state or federal ambient air quality standard or with any other applicable requirement. Variations from the input parameters in the demonstration shall not constitute a violation unless the maximum allowable ambient concentrations identified in the standard are exceeded. This is a State Only enforceable requirement.

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Condition Number	Condition
4.3	The owner/operator shall maintain this facility at or below the emission rates as listed in Attachment A, not to exceed the pollutant limitations of this Part 70 operating permit. Should the facility wish to increase the emission rates listed in Attachment A, not to exceed the pollutant limitations in the body of this permit, it may do so by the administrative process specified in condition 4.2. This is a State Only enforceable requirement.
4.4	A list of equipment which are considered insignificant pursuant to SC Regulation 61-62.70.5(c) has been submitted with your Title V application and reviewed by the Bureau. The list, including source descriptions and citation for insignificant status, is summarized in Attachment B of the permit. Attachment B excludes those activities identified in Part A of the insignificant activities list. Written notification to the Bureau of Air Quality is required for the addition of any new equipment which may meet the definition of insignificant or exempt as described above, excluding those sources listed in Part A of the insignificant activities list.
4.5	In accordance with SC Regulation 61-62.1, Section II(J), for all sources not required to have continuous emissions monitors, any malfunction of air pollution control equipment or system, process upset or other equipment failure which results in discharges of air contaminants lasting for one hour or more and which are greater than those discharges described for normal operation in the permit application shall be reported to the local Environmental Quality Control (EQC) Regional office within twenty-four (24) hours after the beginning of the occurrence. The permittee shall also submit a written report within thirty (30) days of the occurrence. This report shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality (BAQ). The report shall contain as a minimum, the following: the identity of the stack and/or emission point where the excess emissions occurred, the magnitude of excess emissions expressed in the units of the applicable emission limitation and the operating data and calculations used in determining the excess emissions, the time and duration of excess emissions, the identity of the equipment causing the excess emissions, the steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunction, the steps taken to limit the excess emissions, and documentation that control equipment, process equipment, and processes were at all times maintained and operated, to the maximum extent practicable, in a manner that was consistent with good practice for minimizing emissions. This defines the Department's definition of prompt in its relation to the degree of reporting as specified by SC Regulation 61-62.70.6(a)(3)(iii)(B).
4.6	The owners or operators of Part 70 sources shall complete and submit a new updated emissions inventory consistent with the schedule approved pursuant to SC Regulation 61-62.1, Section III. This requirement notwithstanding, an emissions inventory may be required at any time in order to determine the compliance status of any facility.
4.7	The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, Protection of Stratospheric Ozone, Recycling and Emissions Reduction, except as provided for motor vehicle air conditioners (MVACs) in Subpart B. If the permittee performs a service on motor (fleet) vehicles that involves ozone-depleting substance refrigerant in MVACs, the permittee is subject to all applicable requirements of 40 CFR Part 82, Subpart B, Servicing of MVACs.
4.8	The permittee shall comply with the standards of performance for asbestos abatement operations pursuant to 40 CFR Part 61.145 and SC Regulation 61-86.1, including, but not limited to, requirements governing training, licensing, notification, work practice, cleanup, and disposal.
4.9	The permittee shall comply with SC Regulation 61-62.4 "Hazardous Air Pollution Conditions".
4.10	The permittee shall comply with SC Regulation 61-62.2 "Prohibition of Open Burning".
4.11	The permittee shall comply with SC Regulation 61-62.6 "Control of Fugitive Particulate Matter", Section III "Control of Fugitive Particulate Matter Statewide".

Condition Number	Condition
4.12	This facility has processes subject to the provisions of SC Regulation 61-62.63 and 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and FFFF, Miscellaneous Organic Chemicals. Existing affected sources shall comply with the applicable provisions of Subparts A and FFFF no later than the compliance date, unless otherwise noted. Any new affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted.

PART 5.0 EMISSION UNIT REQUIREMENTS

A. EMISSION UNIT DESCRIPTION

TABLE 5.1 EMISSION UNITS		
Unit ID	Unit Description	Control Device Description
01	Organic Specialties Unit/specialty chemical production (OSU)	OSU Packed Column Scrubbers (5)
02	High Temperature Phosphate Unit/specialty chemical production (HTPU)	HTPU Packed Column Scrubber
03	General Purpose Unit/specialty chemical production (GPU)	GPU Packed Column Scrubber
04	Trimethyl Phosphite Unit (Sodium Hypophosphite) (TMPU)	TMPU Process and Building Packed Column Scrubbers
05	RESERVED (Previous equipment has been removed)	N/A
06	Warehouse Unit/truck loading and drumming operation	Warehouse Packed Column Scrubber
07	Halides Unit/specialty chemical production including 110,000 lb/yr RCRA Permitted Treatment Unit	POU and PCU Packed Column Scrubbers (in series)
08	25 Million Btu/hr (600 Hp) Boiler #1	N/A
09	33.4 Million Btu/hr (800 Hp) Boiler #2	N/A
10	BN-1 Storage/product storage and truck loading	BN-1 Storage Packed Column Scrubber
11	Non-Exempt Storage Tanks	TMPU Process and Building Packed Column Scrubbers
12	Phosphogypsum Stack	N/A
13	Briquest Unit/specialty chemical production	Briquest Unit Packed Column Scrubber and Briquest Unit HCl Unloading Station Packed Scrubber (Water) in series with a Venturi Scrubber (Caustic Soda Solution) (One Unit)
14	Thermal Oxidation Unit (TOU)/air stripping to remove residual organics from plant effluent	TOU Oxidizers (2) & Packed Column Scrubbers (2)

N/A = Not Applicable

Table 5.2 - Control Device(s)				
Unit ID	Control Device ID	Description	Installation Date/ Modification Date	Pollutant Controlled
01	F-4182	OSU Train 1 Scrubber (Weak Acid Solution)	8/12/92	HAP, TAPs,

Table 5.2 - Control Device(s)

Unit ID	Control Device ID	Description	Installation Date/ Modification Date	Pollutant Controlled
				VOC
01	F-4013	OSU Train 2 Scrubber (Weak Acid Solution)	8/12/92	HAP, TAP, VOC
01	F-4216	OSU Train 3 & 5 Scrubber (Weak Acid Solution)	8/12/92	HAP, TAP, VOC
01	F-4074	OSU Train 4 & 6 Scrubber (Weak Acid Solution)	8/12/92	HAP, TAP, VOC
01	C202	Packed Scrubber (Weak Acid Solution)	2003	HAP, TAP, VOC
02	C194	HTP Packed Column Scrubber (Caustic Soda Solution)	1979/ mod 1981 Repl 2002	HAP, TAP, VOC
03	C130*	GPU Packed Column Scrubber (Weak Acid Solution)	1981	HAP, TAP, VOC
04	F228	TMPU Process Scrubber (Weak Acid Solution)	1976	HAP, TAP, VOC
04	F229	TMPU Building Scrubber (Weak Acid Solution)	1970	HAP, TAP, VOC
06	F130	Warehouse Packed Column Scrubber (Weak Acid Solution)	1979	HAP, TAP, VOC
07	C130**/C276	POU Packed Column Scrubber (Caustic Soda Solution)/ PCU Packed Column Scrubber (Water)	1971/1990	HAP, TAP
10	F149	BN-1 Storage Packed Column Scrubber (Weak Acid Solution)	1965	HAP, TAP, VOC
13	C930	Briquest Unit Packed Column Scrubber (Caustic Soda Solution)	1990	HAP, TAP, VOC
13	C512	Briquest Unit HCl Unloading Station Packed Scrubber (Water) in series with a Venturi Scrubber (Caustic Soda Solution) (One Unit)	1998	HCl
14	B680, B686	TOU Primary & Backup 11 Million Btu/hr Oxidizers	1991	HAP, TAP, VOC
14	C682, C687	TOU Primary & Backup Scrubber (Caustic Soda Solution)	1991	HAP, TAP, VOC

* Two separate scrubbers have the same assigned identification of C130. This unit will be designated as C130₃ in subsequent portions of this permit to distinguish from the other unit.

** Two separate scrubbers have the same assigned identification of C130. This unit will be designated as C130₇ in subsequent portions of this permit to distinguish from the other unit.

B. GENERIC CONDITIONS

GENERIC CONDITIONS			
Condition Number	Unit ID	Equipment ID	Condition

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GENERIC CONDITIONS			
Condition Number	Unit ID	Equipment ID	Condition
GC1	01-04 06-07 10 13-14	All equipment for which monitoring is required	<p>All gauges shall be readily accessible and easily read by operating personnel and Department personnel (i.e. on ground level or easily accessible roof level). Monitoring parameter readings (i.e., pressure drop readings, etc.) and inspection checks shall be maintained in logs (written or electronic), along with any corrective action taken when deviations occur. Each incidence of operation outside the operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site. Exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place. Reports of these incidences shall be submitted semiannually. If no incidences occurred during the reporting period then a letter shall indicate such.</p> <p>Any alternative method for monitoring control device performance must be preapproved by the Bureau and shall be incorporated into the permit as set forth in SC Regulation 61-62.70.7.</p>
GC2	Any unit for which a source test is specified or requested	All equipment for which a source test is specified or requested	<p>Unless otherwise specified in a condition, the owner or operator shall submit site-specific test plans or a letter which amends a previously approved test plan at least 45 days prior to the proposed test date.</p> <p>Prior to conducting a source test, the owner or operator shall ensure that written notification is submitted to the Department at least two weeks prior to the test date.</p> <p>All source test reports shall be submitted to the Manager of the Source Evaluation Section of the Bureau of Air Quality no later than 30 days after the completion of the on-site testing.</p>
GC3	01-04 06-07 10 13-14	All equipment for which continuous monitoring is required	<p>The owner/operator shall maintain on file all measurements including continuous monitoring system or monitoring device performance measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required in a permanent form suitable for inspection by Department personnel.</p>
GC4	All sources	All sources	<p>Unless elsewhere specified within this permit, all records required to demonstrate compliance with the limits established under this permit shall be maintained on site for a period of at least five (5) years from the date generated and shall be made available to a Department representative upon request.</p>

GENERIC CONDITIONS			
Condition Number	Unit ID	Equipment ID	Condition
GC5	01, 03, 07, 13	Specified Chemicals	<p>It has been determined that emission units ID01 (ethylene oxide and propylene oxide), ID03 (anhydrous ammonia and pentane), ID07 (chlorine, phosphorous trichloride, and phosphorous oxychloride), and ID13 (formaldehyde and anhydrous hydrochloric acid) are subject to SC Regulation 61-62.68, Chemical Accident Prevention Provisions, due to in-process storage or use of regulated substances in quantities above the specified thresholds; therefore, the following must be completed:</p> <ol style="list-style-type: none"> 1. Submittal of a Risk Management Plan (RMP) to the Environmental Protection Agency (EPA) prior to the date the regulated substance is first present above the threshold quantity in a process. 2. Compliance with the Risk Management Program prior to the date the regulated substance is first present above the threshold quantity in a process. 3. Submittal of subsequent revisions/corrections/updates of the RMP in accordance with SC Regulation 61-62.68.190 and 68.195. 4. For Program 1 processes, the owner or operator shall submit along with the RMP the certification statement provided in Section 68.12(b)(4). For all other covered processes, the owner or operator shall submit along with the RMP a single certification that, to the best of the signer's knowledge, information, and belief formed after reasonable inquiry, the information submitted is true, accurate, and complete. <p>If it is determined by the implementing agency (or other delegated authority) that additional relevant information is needed, this facility will be required to submit the information in a timely manner.</p>

(page updated 9/12/08)

C. EMISSION UNIT – LIMITATIONS, MONITORING AND REPORTING [SC Regulation 61-62.1, Section II]; [SC Regulation 61-62.70.6(a)(3)(i)(B)]

Table 5.3 - Unit ID 01 - Organic Specialties Unit/specialty chemical production (OSU)				
Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
OSU Train 1				
F-4187	Train 1 Catalyst Feed Tank	1992	F-4182	01
F-4117	POCl ₃ Feed Tank (vents first through a water scrubber F-4119)	1992	F-4182	01
D-4162	Reactor 1	1992	F-4182	01
D-4164	Reactor 2	1992	F-4182	01
F-4118	PCl ₃ Feed Tank	1992	F-4182	01
F-4233	Steam Condensate Pot	1992	N/A	N/A
F-4113	Feed Tank	1992	F-4182	01
M-4167	Sample Hood	1992	F-4182	01
F-4181	Knock Out Tank	1992	N/A	01

Table 5.3 - Unit ID 01 - Organic Specialties Unit/specialty chemical production (OSU)				
Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
(page updated 9/12/08) F-4180	Expansion Pot	1992	F-4182	01
E-4186	Heat Exchanger	1992	N/A	N/A
E-4165	Heat Exchanger	1992	N/A	N/A
E-4168	Heat Exchanger	1992	N/A	N/A
F-200	32,000 gallon Ethylene Oxide Storage Tank	2003	C202/F-4182	01
F205	EO Scrubber Reaction Tank	2003	C202/F-4182	01
F206	EO Scrubber Feed Tank	2003	C202/F-4182	01
OSU Train 2				
D-4001	Reactor	1992	F-4013	01
F-4048	Knock out Tank	1992	F-4013	01
E-4033	Sample Pot	1992	F-4013	01
F-4009	Collector	1992	F-4013	01
F-4016	Treatment Tank	1992	F-4013	01
F-4103	Catalyst Tank (Shared with OSU Train 4)	1992	F-4013	01
D-4004	Receiver	1992	F-4013	01
E-4029	Heat Exchanger	1992	N/A	N/A
M-4035	Sample Box	1992	F-4013	01
F-4042	Head Tank	1992	N/A	N/A
F-4043	Head Tank	1992	F-4013	01
F-4044	Dump Tank	1992	F-4013	01
M-4041	Sample Hood	1992	F-4013	01
F-4003	Charge Tank	1992	F-4013	01
F-4015	Surge Tank	1992	F-4013	01
E-4017	Heat Exchanger	1992	N/A	N/A
F-4022	Charge Tank	1992	F-4013	01
E-4026	Heat Exchanger	1992	N/A	N/A
E-4006	Heat Exchanger	1992	N/A	N/A
E-4046	Heat Exchanger	1992	N/A	N/A
F-4049	Expansion Tank	1992	N/A	N/A
F-4089	Condensate Tank (Shared with OSU Train 4)	1992	N/A	N/A
F-4012	Knock Out Tank	1992	N/A	01
D-4005	Receiver	1992	F-4013	01
M-4036	OSU Drumming Line	1992	F-4013	01
F-220	32,000 gallon Propylene Oxide Storage Tanks (shared with OSU Trains 3 and 4)	2005	C-202/F-4182	01
OSU Train 3				
F-4191	Feed Tank	1992	F-4216	01
F-4121	Knock Out Tank	1992	F-4182	01

Table 5.3 - Unit ID 01 - Organic Specialties Unit/specialty chemical production (OSU)

Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
D-4192	Reactor	1992	F-4216	01
D-4195	Hold Tank	1992	F-4216	01
M-4212	Filter	1992	F-4216	01
F-4211	Feed Tank	1992	F-4216	01
F-4152	Surge Tank	1992	F-4216	01
F-4124	Recovery Tank	1992	F-4216	01
D-4202	Knock Out Tank	1992	F-4216	01
D-4196	Still	1992	F-4216	01
D-4199	Receiver	1992	F-4216	01
F-4116	Separator	1992	F-4216	01
F-4137	Feed Tank	1992	F-4216	01
F-4139	Hema Storage Tank	1992	F-4216	01
F-4197	Sample Hood	1992	F-4216	01
E-4248	Heat Exchanger	1992	N/A	N/A
E-4247	Heat Exchanger	1992	N/A	N/A
E-4249	Heat Exchanger	1992	N/A	N/A
E-4252	Heat Exchanger	1992	N/A	N/A
E-4253	Heat Exchanger	1992	N/A	N/A
E-4251	Heat Exchanger	1992	N/A	N/A
E-4254	Heat Exchanger	1992	N/A	N/A
D-4255	Heat Exchanger	1992	N/A	N/A
E-4256	Heat Exchanger	1992	N/A	N/A
E-4262	Heat Exchanger	1992	N/A	N/A
F-4225	Hold Tank	1992	F-4216	01
C-4201	Column	1992	F-4216	01
F-4214	Sample Pot	1992	F-4216	01
F-220	32,000 gallon Propylene Oxide Storage Tanks (shared with OSU Trains 2 and 4)	2005	C-202/F-4182	01
E-4257	Heat Exchanger	1992	N/A	N/A
F-4217	Surge Tank	1992	F-4216	01
OSU Train 4				
D-4051	Reactor	1992	F-4074	01
C-4054	Column	1992	F-4074	01
F-4095	Knock Out Tank Pump	1992	F-4074	01
F-4023	Charge Pot	1992	F-4216	01
F-4083	(2 chambers) Reflux Drum	1992	F-4074	01
M-4099	Sample Hood	1992	F-4074	01
D-4056	Receiver	1992	F-4074	01
M-4093	Drum Hood	1992	F-4074	01
F-4111	Storage Tank	1992	F-4074	01

Table 5.3 - Unit ID 01 - Organic Specialties Unit/specialty chemical production (OSU)

Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
(page updated 9/12/08) F-4109	Storage Tank	1992	F-4074	01
D-4057	Receiver	1992	F-4074	01
F-4073	Knock Out Tank	1992	N/A	01
E-4087	Heat Exchanger	1992	N/A	N/A
F-4096	Expansion Tank	1992	N/A	N/A
F-4302	Return Pot	1992	F-4074	01
F-4097	Feed Tank	1992	N/A	N/A
F-4102	Feed Tank	1992	N/A	N/A
F-4089	Condensate Tank (shared with Train 2)	1992	N/A	N/A
E-4063	Heat Exchanger	1992	N/A	N/A
F-4103	Feed Tank (shared with Train 2)	1992	F-4074	01
F-4076	Separator Tank	1992	F-4074	01
F-4092	Sample Hood	1992	F-4074	01
E-4055	Heat Exchanger	1992	F-4074	01
F-4135	Hold Tank	1992	F-4074	01
F-4081	Scrubber Surge Tank	1992	F-4074	01
F-220	32,000 gallon Propylene Oxide Storage Tank (shared with OSU Trains 2 and 3)	2005	C-202/F-4182	01
OSU Train 5				
D-4205	Stripper	1992	F-4216	01
M-4198	Sample Hood	1992	F-4216	01
F-4203	Condensate Collector	1992	F-4216	01
C-4206	Column	1992	F-4216	01
D-4207	Reflux Drum	1992	F-4216	01
D-4208	Receiver	1992	F-4216	01
F-4215	Return Pot	1992	F-4216	01
E-4261	Heat Exchanger	1992	N/A	N/A
E-4258	Heat Exchanger	1992	F-4216	01
D-4218	Knock Out Tank	1992	F-4216	01
F-4213	Knock Out Tank	1992	N/A	01
D-4209	Receiver	1992	F-4216	01
OSU Train 6				
E-4064	Steam Heated Evaporator	1992	F-4074	01
D-4066	Product Tank	1992	F-4074	01
D-4067	Product Tank	1992	F-4074	01
E-4071	Heat Exchanger	1992	F-4013	01
E-4072	Heat Exchanger	1992	F-4074	01
E-4075	Heat Exchanger	1992	F-4013	01
E-4344	Heat Exchanger	1992	N/A	N/A
F-4112	Product Tank (shared with Train 4)	1992	F-4074	01

Table 5.3 - Unit ID 01 - Organic Specialties Unit/specialty chemical production (OSU)

Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
F-4333	Feed Tank (shared with Train 4)	1992	F-4074	01
F-4338	WFE Condensate Collector	1992	F-4074	01
F-4337	Knock Out Tank	1992	F-4074	01
D-4342	Expansion Tank	1992	F-4074	01

N/A = Not Applicable

Table 5.4 - Control Device(s) For Unit ID 01 - Organic Specialties Unit/specialty chemical production (OSU)

Control Device ID	Description	Installation Date/ Modification Date	Pollutant(s) Controlled
F-4182	OSU Train 1 Scrubber (Weak Acid Solution)	8/12/92	HAP, TAPs, VOC
F-4013	OSU Train 2 Scrubber (Weak Acid Solution)	8/12/92	HAP, TAP, VOC
F-4216	OSU Train 3 & 5 Scrubber (Weak Acid Solution)	8/12/92	HAP, TAP, VOC
F-4074	OSU Train 4 & 6 Scrubber (Weak Acid Solution)	8/12/92	HAP, TAP, VOC
C202	Packed Scrubber (Weak Acid Solution)	2003	HAP, TAP, VOC

Conditions For Unit ID 01 - Organic Specialties Unit/specialty chemical production (OSU)

Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
01.1	All	Opacity	<p>Limits/Standards: In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%.</p> <p>Testing: None required.</p> <p>Monitoring/Record Keeping/Reporting/Other: The owner/operator shall conduct quarterly visual inspections on all controlled and uncontrolled sources. For all of these sources, the facility will specify recordkeeping parameters and any surrogate methods of compliance monitoring. Visual inspection is defined as a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for abnormal emissions. A semi-annual report shall include only summary data and any readings outside of the operating range and corrective action taken, or if no readings were outside of the operating range, the facility will submit a summary of compliance.</p> <p>The owner/operator shall continue to operate and maintain pressure drop indicators, flowmeters, conductivity, and pH meters on each scrubber module. Each parameter (except for pH) shall be recorded each shift during source operation and results reported as specified in General Condition GC1. During times when conductivity readings cannot be recorded, the owner/operator shall monitor, record, and report pH readings. Operational ranges for the monitored parameters have been established to provide a reasonable</p>

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Conditions For Unit ID 01 - Organic Specialties Unit/specialty chemical production (OSU)			
Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
			assurance of compliance. These operational ranges for the monitored parameters were derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Bureau.
01.2	01 (Applies to D4205 Stripper when producing EDC)*	VOC	<p>Limits/Standards: The OSU Stripper (train 3) is subject to the provisions of SC Regulation 61-62.60 and 40 CFR 60, Subparts A and VV, New Source Performance Standards for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry (SOCMI) when producing EDC (40CFR60.480). This regulation requires a Leak Detection and Repair Program (LDRP) during the batch production of EDC (40CFR60.489(a)). The stripper area has valves subject to the regulation. The stripper also has pumps with no externally actuated shaft penetrating the pump housing subject to the regulation. This facility shall monitor and repair leaks as specified in the regulation. For pumps in light service, valves in gas/vapor service in light liquid service, and pumps in heavy liquid service, if an instrument reading of 10,000 ppm or higher is measured then a leak is detected.</p> <p>Organic vapor leak detectors shall be installed in each reactor area of the OSU for leak detection. (ID 01)</p> <p>All rupture disk in the OSU shall be vented to the main stack unless specifically exempted by the Department and where possible rupture disk shall be vented to a scrubber. (ID 01)</p> <p>Each reactor in the OSU shall be vented to a separate packed scrubber. (ID 01)</p> <p>Testing: Monthly monitoring per Method 21</p> <p>Monitoring/Record Keeping/Reporting/Other: As specified in 40CFR60.482-7(a), each valve shall be monitored monthly (during EDC production) to detect leaks by the methods specified in 40CFR60.485(b) (Method 21), except as noted in 40CFR63.4827(a). If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.</p> <p>As specified in 40CFR60.482-7(f), any valve that is designated, as described in 40CFR60.486(e)(2), for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of paragraph 40CFR60.482-7(a) if the valve:</p> <ul style="list-style-type: none"> - Has no external actuating mechanism in contact with the process fluid, - Is operated with emissions less than 500 ppm above background as determined by the method specified in 40CFR60.485(c), and - Is tested for compliance with paragraph (f)(2) of this section initially upon designation, annually, and at other times requested by the Administrator. <p>The owner/operator shall keep readily available records of the periods of production of EDC. These records shall be kept for a period of 2 years. (ID 01). The owner or operator shall comply with all applicable provisions of subpart VV including the monitoring, recordkeeping, and reporting requirements as outlined in the following sections: 40CFR60.482-4, 40CFR60.482-8, 40CFR60.483-2, 40CFR60.486, 40CFR60.487. Reports shall be submitted semi-annually. Compliance will be determined</p>

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Conditions For Unit ID 01 - Organic Specialties Unit/specialty chemical production (OSU)			
Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
			<p>by review of records and reports, review of performance tests, and inspection using the methods and procedures in 40CFR60.485.</p> <p>The pumps with no externally actuated shaft penetrating the pump housing are exempted from the routine monitoring of 40CFR60.482-2(a), (c), and (d) if the requirements of 40CFR60.482-2(e) are met. As specified in 40CFR60.482-7(f), any valve that is designated, as described in 40CFR60.486(e)(2), for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the monitoring requirements of 40CFR60.482-7(a) if the requirements of 60.482-7(f) are met.. The facility shall maintain a list of these valves.</p> <p>As specified in 40CFR60.482-7(a) and (b), each valve shall be monitored monthly (during EDC production) to detect leaks by the methods specified in 40CFR60.485(b), except as provided in paragraphs 40CFR60.482-7(f) (No detectable emissions option (<500ppm) as specified in 60.486(e)(2)), (g) (Unsafe to Monitor), and (h) (Difficult to Monitor), 40CFR60.483-1, 2, and 40CFR60.482-1(c) (Valve Monitoring Alternatives). If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.</p> <p>As specified in 40CFR60.482-7(c), any valve for which a leak is not detected for 2 successive months may be monitored the first month of every quarter, beginning with the next quarter, until a leak is detected. If a leak is detected, the valve shall be monitored monthly until a leak is not detected for 2 successive months.</p> <p>As specified in 40CFR60.483-1, an alternative means of monitoring may be elected based on the percent valves leaking. A performance test as specified in paragraph 40CFR60.483-1(c) shall be conducted initially upon designation of the option, annually, and at other times requested by the Administrator. An owner/operator who elects to comply with this alternative standard shall not have an affected facility with a leak percentage greater than 2.0 percent.</p> <p>As specified in 40CFR60.483-2, another alternative means of monitoring may be elected based on the percent valves leaking. After 2 consecutive quarterly leak detection periods with the percent of valves leaking equal to or less than 2.0, an owner or operator may begin to skip 1 of the quarterly leak detection periods for the valves in gas/vapor and light liquid service. After 5 consecutive quarterly leak detection periods with the percent of valves leaking equal to or less than 2.0, an owner or operator may begin to skip 3 of the quarterly leak detection periods for the valves in gas/vapor and light liquid service. If the percent of valves leaking is greater than 2.0, the owner/operator shall comply with the requirements as described in 40CFR60.482-7 but can again elect to use this option.</p> <p>As specified in 40CFR60.482-7(d) When a leak is detected, it shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected, except as provided in 40CFR60.482-9. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. Acceptable reasons for delay of repair are specified in 40CFR60.482.9.</p> <p>As specified in 40CFR60.486, when each leak is detected as specified in 40CFR60.482-7 and 40CFR60.483-2, a weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment. The identification on a valve may be removed after it has been monitored for 2 successive</p>

Conditions For Unit ID 01 - Organic Specialties Unit/specialty chemical production (OSU)																																					
Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions																																		
			<p>months as specified in 40CFR60.482-7(c) and no leak has been detected during those 2 months.</p> <p>When each leak is detected as specified in 40CFR60.482-7 and 40CFR60.483-2, the following information shall be recorded in a log and shall be kept for 2 years in a readily accessible location:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">No.</th> <th style="text-align: center;">Recordkeeping Requirement</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">a</td> <td>Instrument Identification number. Operator Identification number. Equipment Identification number.</td> </tr> <tr> <td style="text-align: center;">b</td> <td>Date leak detected. Dates of each attempt to repair.</td> </tr> <tr> <td style="text-align: center;">c</td> <td>Repair methods used in each attempt to repair the leak.</td> </tr> <tr> <td style="text-align: center;">d</td> <td>“Above 10,000” if the maximum instrument reading measured by methods specified in 60.485(a) after each repair attempt is equal to or greater than 10,000.</td> </tr> <tr> <td style="text-align: center;">e</td> <td>“Repair Delayed” and reason for delay if not repaired within 15 calendar days after discovery of leak.</td> </tr> <tr> <td style="text-align: center;">f</td> <td>Signature of owner or operator (or designate) whose decision it was that the repair could not be effected without a process shutdown.</td> </tr> <tr> <td style="text-align: center;">g</td> <td>Expected date of successful repair of leak if a leak is not repaired within 15 days.</td> </tr> <tr> <td style="text-align: center;">h</td> <td>Dates of process unit shutdowns that occur while the equipment is unrepaired.</td> </tr> <tr> <td style="text-align: center;">i</td> <td>Date of successful repair of the leak.</td> </tr> </tbody> </table> <p>Equipment that is in vacuum service is excluded from the requirements of 40CFR60.482-2 to 40CFR60.482-10 if it is identified as required in 40CFR60.486(e)(5).</p> <p>As specified in 40CFR60.486(e) The following information pertaining to all equipment subject to the requirements in 40CFR60.482-1 to 40CFR60.482-10 shall be recorded in a log that is kept in a readily accessible location:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">No.</th> <th style="text-align: center;">Recordkeeping Requirement</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">a</td> <td>A list of identification numbers for equipment subject to requirements of Subpart VV.</td> </tr> <tr> <td style="text-align: center;">b</td> <td>List of identification numbers for equipment that are designated for no detectable emissions under 40CFR60.482-2(e), 40CFR60.482-3(I) and 40CFR60.482-7(f).</td> </tr> <tr> <td style="text-align: center;">c</td> <td>The designation of equipment as subject to the requirements of 40CFR60.482-2(e), 40CFR60.482-3(I), or 40CFR60.482-7(f) shall be signed by the owner or operator.</td> </tr> <tr> <td style="text-align: center;">d</td> <td>The dates of each compliance test as required in 40CFR60.482-7(f) .</td> </tr> <tr> <td style="text-align: center;">e</td> <td>The background level measured during each compliance test.</td> </tr> <tr> <td style="text-align: center;">f</td> <td>The maximum instrument reading measured at the equipment during each compliance test.</td> </tr> </tbody> </table>	No.	Recordkeeping Requirement	a	Instrument Identification number. Operator Identification number. Equipment Identification number.	b	Date leak detected. Dates of each attempt to repair.	c	Repair methods used in each attempt to repair the leak.	d	“Above 10,000” if the maximum instrument reading measured by methods specified in 60.485(a) after each repair attempt is equal to or greater than 10,000.	e	“Repair Delayed” and reason for delay if not repaired within 15 calendar days after discovery of leak.	f	Signature of owner or operator (or designate) whose decision it was that the repair could not be effected without a process shutdown.	g	Expected date of successful repair of leak if a leak is not repaired within 15 days.	h	Dates of process unit shutdowns that occur while the equipment is unrepaired.	i	Date of successful repair of the leak.	No.	Recordkeeping Requirement	a	A list of identification numbers for equipment subject to requirements of Subpart VV.	b	List of identification numbers for equipment that are designated for no detectable emissions under 40CFR60.482-2(e), 40CFR60.482-3(I) and 40CFR60.482-7(f).	c	The designation of equipment as subject to the requirements of 40CFR60.482-2(e), 40CFR60.482-3(I), or 40CFR60.482-7(f) shall be signed by the owner or operator.	d	The dates of each compliance test as required in 40CFR60.482-7(f) .	e	The background level measured during each compliance test.	f	The maximum instrument reading measured at the equipment during each compliance test.
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Conditions For Unit ID 01 - Organic Specialties Unit/specialty chemical production (OSU)			
Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
			<p>The following information pertaining to all valves subject to the requirements of 40CFR60.482-7(g) shall be recorded in a log that is kept in a readily accessible location:</p> <ul style="list-style-type: none"> a) A list of identification numbers for valves that are designated as unsafe-to-monitor, an explanation for each valve stating why the valve is unsafe-to-monitor, and the plan for monitoring each valve. b) A list of identification numbers for valves that are designated as difficult-to-monitor, an explanation for each valve stating why the valve is difficult-to-monitor, and the schedule for monitoring each valve. <p>The following information shall be recorded for valves complying with 40CFR60.483-2:</p> <ul style="list-style-type: none"> a) A schedule of monitoring. b) The percent of valves found leaking during each monitoring period. <p>Information and data used to demonstrate that a piece of equipment is not in VOC service shall be recorded in a log that is kept in a readily accessible location.</p> <p>Each owner/operator subject to the provisions of this subpart shall submit semiannual reports to the Bureau beginning six months after the initial start up date when producing EDC. The reports shall contain information specified in 40CFR60.487.</p>
01.3	F-200	VOL	<p>Limits/Standards: ID 01, Equip ID F-200: The owner/operator of each storage vessel with a design capacity greater than or equal to 75 m³ which contains a volatile organic liquid (VOL) that, as stored, has a maximum true vapor pressure greater than or equal to 76.6 kPa shall equip each storage vessel with a closed vent system and control device. The closed vent system shall be designed to collect volatile organic vapors (VOC) vapors and gases discharged from the storage vessel and operated with no detectable emissions as indicated by an instrument reading of less than 500 ppm above background and visual inspections, as determined in SC Regulation 61-62.60 and 40 CFR 60, Subpart VV, 40CFR60.485(b). The control device shall be designed and operated to reduce inlet VOC emissions by 95% or greater. [40CFR60.112b(b)(1)]</p> <p>ID 01, Equip ID F-200: The owner/operator of each source that is equipped with a closed vent system and control device as required in 40CFR60.112b(a)(3) is exempt from 40CFR60.8 of the General Provisions. [40CFR60.113b(c)]</p> <p>Testing: Follow procedures specified in the regulation.</p> <p>Monitoring/Record Keeping/Reporting/Other: The owner/operator has submitted for approval an operating plan containing the information listed in 40CFR60.113b(c)(1)(i) and (ii). The owner/operator shall operate the closed vent system and control device and monitor the parameters of the closed system and control device in accordance with the operating plan that has been submitted for approval by the Bureau. [40CFR60.113b(c)] The storage vessel monitoring plan and monitoring data shall be maintained on site.</p>

Table 5.5 - Unit ID 02 - High Temperature Phosphate Unit/specialty chemical production (HTPU)				
Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
D-101	Reactor	1980 / Jan. 1995	C194	02

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Table 5.5 - Unit ID 02 - High Temperature Phosphate Unit/specialty chemical production (HTPU)				
Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
D-201	Storage Tank	1980 / Jan. 1995	C194	02
D-575	Reactor	1980 / Jan. 1995	C194	02
C192	Tower	1980 / Jan. 1995	C194	02
D-609	Reactor	1980 / Jan. 1995	C194	02
C196	Absorber	1980 / Jan. 1995	C194	02
C197	Tower	1980 / Jan. 1995	C194	02
D-107	Reactor	1980 / Jan. 1995	C194	02
E-167	Heat Exchanger	1980 / Jan. 1995	N/A	N/A
D-116A	Feed Tank	1980 / Jan. 1995	C194	02
F-704	Venturi Adsorber	Aug. 1980 / Jan. 1995	C194	02
E-262	Heat Exchanger	Aug. 1980 / Jan. 1995	C194	02
F-702	Overflow Pot	Aug. 1980 / Jan. 1995	C194	02
D-105	Receiver	Aug. 1980 / Jan. 1995	C194	02
D-110	Knock Out Tank	Aug. 1980 / Jan. 1995	C194	02
E-261	Heat Exchanger	Aug. 1980 / Jan. 1995	N/A	N/A
F-203	Collection Tank	Aug. 1980 / Jan. 1995	C194	02
F-651	Storage Tank	Aug. 1980 / Jan. 1995	C194	02
C-705	Carbon Bed	Aug. 1980 / Jan. 1995	C194	02
C-706	Carbon Bed	Aug. 1980 / Jan. 1995	C194	02
F-719	Overflow Pot	Aug. 1980 / Jan. 1995	C194	02
F-303	Blend Tank	Aug. 1980 / Jan. 1995	C194	02
D-117	Charge Tank	Aug. 1980 / Jan. 1995	C194	02
D-109	Receiver	Aug. 1980 / Jan. 1995	C194	02
D-103	Receiver	Aug. 1980 / Jan. 1995	C194	02
D-120	Knock Out Pot	Aug. 1980 / Jan. 1995	C194	02
E-163	Heat Exchanger	Aug. 1980 / Jan. 1995	N/A	N/A
E-165	Heat Exchanger	Aug. 1980 / Jan. 1995	N/A	N/A
E-169	Heat Exchanger	Aug. 1980 / Jan. 1995	N/A	N/A
E-177	Heat Exchanger	Aug. 1980 / Jan. 1995	N/A	N/A
E-263	Heat Exchanger	Aug. 1980 / Jan. 1995	N/A	N/A
E-266	Heat Exchanger	Aug. 1980 / Jan. 1995	N/A	N/A
E-577	Heat Exchanger	Aug. 1980 / Jan. 1995	N/A	N/A
E-640	Heat Exchanger	Aug. 1980 / Jan. 1995	N/A	N/A
E-937	Heat Exchanger	Aug. 1980 / Jan. 1995	N/A	N/A
F-122	Hotwell	Aug. 1980 / Jan. 1995	C194	02
F-125	Surge Tank	Aug. 1980 / Jan. 1995	C194	02
F-126	Surge Tank	Aug. 1980 / Jan. 1995	C194	02
F-204	Sump Tank	Aug. 1980 / Jan. 1995	C194	02
F-305	Storage Tank	Aug. 1980 / Jan. 1995	C194	02
M-672	Sample Hood	Aug. 1980 / Jan. 1995	C194	02

Table 5.5 - Unit ID 02 - High Temperature Phosphate Unit/specialty chemical production (HTPU)				
Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
M-673	Sample Hood	Aug. 1980 / Jan. 1995	C194	02
M-675	Sample Hood	Aug. 1980 / Jan. 1995	C194	02
E-676	Heat Exchanger	Aug. 1980 / Jan. 1995	N/A	N/A
M-674	Sample Hood	Aug. 1980 / Jan. 1995	C194	02
F-209	Collection Tank	Aug. 1980 / Jan. 1995	C194	02
F-121	Separator	Aug. 1980 / Jan. 1995	C194	02
E-162	Heat Exchanger	Aug. 1980 / Jan. 1995	N/A	N/A
E-161	Heat Exchanger	Aug. 1980 / Jan. 1995	N/A	N/A
F-302	Storage Tank	Aug. 1980 / Jan. 1995	C194	02
D-108	Reactor	Aug. 1980 / Jan. 1995	C194	02
D-934	Reactor	Aug. 1980 / Jan. 1995	C194	02
F-938	Storage Tank	Aug. 1980 / Jan. 1995	C194	02
F-601	Quench Tank	Aug. 1980 / Jan. 1995	C194	02
D-602	Storage Tank	Aug. 1980 / Jan. 1995	C194	02
F-582	Storage Tank	Aug. 1980 / Jan. 1995	C194	02
F-308	Storage Tank	Aug. 1980 / Jan. 1995	C194	02
F-205	Collection Tank	Aug. 1980 / Jan. 1995	C194	02
D501	TEP Addition Tank	2005	C194	02

Table 5.6 - Control Device(s) For Unit ID 02 - High Temperature Phosphate Unit/specialty chemical production (HTPU)			
Control Device ID	Description	Installation Date/ Modification Date	Pollutant(s) Controlled
C194	HTP Packed Column Scrubber (Caustic Soda Solution)	1979 / mod 1981	HAP, TAP, VOC

Conditions For Unit ID 02 - High Temperature Phosphate Unit/specialty chemical production (HTPU)			
Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
02.1	All	Opacity	<p>Limits/Standards: In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%.</p> <p>Testing: None required.</p> <p>Monitoring/Record Keeping/Reporting/Other: The owner/operator shall conduct quarterly visual inspections on all controlled and uncontrolled sources. For all of these sources, the facility will specify recordkeeping parameters and any surrogate methods of compliance monitoring. Visual inspection is defined as a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for abnormal emissions. A semi-annual report shall include only summary data and any readings outside</p>

Conditions For Unit ID 02 - High Temperature Phosphate Unit/specialty chemical production (HTPU)			
Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
			<p>of the operating range and corrective action taken, or if no readings were outside of the operating range, the facility will submit a summary of compliance.</p> <p>The owner/operator shall continue to operate and maintain pressure drop indicators, flowmeters, and pH meters on each scrubber module. Each parameter shall be recorded each shift during source operation and results reported as specified in General Condition GC1 of this permit. Operational ranges for the monitored parameters have been established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters were derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Bureau.</p>

Table 5.7 - Unit ID 03 – General Purpose Unit/specialty chemical production (GPU)				
Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
N/A	Sample Hood	1959 / July 1984	C130 ₃	03
M-102	Separator	1959 / July 1984	C130 ₃	03
M-103	Separator	1959 / July 1984	C130 ₃	03
N/A	Process Sump	1959 / July 1984	C130 ₃	03
F-113	Product Tank	1959 / July 1984	C130 ₃	03
F-114	Product Tank	1959 / July 1984	C130 ₃	03
D-400	Reactor	1959 / July 1984	C130 ₃	03
F-106	Wash Tank	1959 / July 1984	C130 ₃	03
F-107	Wash Tank	1959 / July 1984	C130 ₃	03
F-102	Feed Tank	1959 / July 1984	C130 ₃	03
F-103	Feed Tank	1959 / July 1984	C130 ₃	03
M-1	Storage Tank	1959 / July 1984	C130 ₃	03
M-2	Storage Tank	1959 / July 1984	C130 ₃	03
M-3	Storage Tank	1959 / July 1984	C130 ₃	03
M-4	Storage Tank	1959 / July 1984	C130 ₃	03
F-118	Acid Treater	1959 / July 1984	C130 ₃	03
F-120	BN-1 Tank	1959 / July 1984	C130 ₃	03
F-108	Feed Tank	1959 / July 1984	C130 ₃	03
F-109	Surge Tank	1959 / July 1984	C130 ₃	03
F-110	Reaction Tank	1959 / July 1984	C130 ₃	03
F-111	Feed Tank	1959 / July 1984	C130 ₃	03
D-101	Column	1959 / July 1984	C130 ₃	03
D-102	Column	1959 / July 1984	C130 ₃	03
F-112	Receiver	1959 / July 1984	C130 ₃	03

Table 5.7 - Unit ID 03 – General Purpose Unit/specialty chemical production (GPU)

Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
F-117	Recovery Tank	1959 / July 1984	C130 ₃	03
E-109	Condenser	1959 / July 1984	C130 ₃	03
E-105	Condenser	1959 / July 1984	C130 ₃	03
E-106	Condenser	1959 / July 1984	C130 ₃	03
E-115	Condenser	1959 / July 1984	C130 ₃	03
E-116	Condenser	1959 / July 1984	C130 ₃	03
E-103	Vacuum Stripper Reboiler	1959 / July 1984	C130 ₃	03
E-108	Vacuum Stripper Product Cooler	1959 / July 1984	C130 ₃	03
E-111	Hydro Tank Vent Cooler	1959 / July 1984	C130 ₃	03
E-113	Atmospheric Stripper Reboiler	1959 / July 1984	C130 ₃	03
E-118	Ammonia Cooler	1959 / July 1984	C130 ₃	03
E-807	Reactor Recycle Cooler	1959 / July 1984	C130 ₃	03
B-101	Scrubber Fan Blower	1959 / July 1984	C130 ₃	03
M-614	Product Filter (prior permitting must be applied for if used for TEP production at GPU)	2005	C130 ₃	03

Table 5.8 - Control Device(s) For Unit ID 03 – General Purpose Unit/specialty chemical production (GPU)

Control Device ID	Description	Installation Date/ Modification Date	Pollutant(s) Controlled
C130 ₃	GPU Packed Column Scrubber (Weak Acid Solution)	1981	HAP, TAP, VOC

Conditions For Unit ID 03 – General Purpose Unit/specialty chemical production (GPU)			
Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
03.1	All	Opacity	<p>Limits/Standards: In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began on or before December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 40%.</p> <p>Testing: None required.</p> <p>Monitoring/Record Keeping/Reporting/Other: The owner/operator shall conduct quarterly visual inspections on all controlled and uncontrolled sources. For all of these sources, the facility will specify recordkeeping parameters and any surrogate methods of compliance monitoring. Visual inspection is defined as a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for abnormal emissions. A semi-annual report shall include only summary data and any readings outside of the operating range and corrective action taken, or if no readings were outside of the operating range, the facility will submit a summary of compliance.</p> <p>The owner/operator shall continue to operate and maintain pressure drop indicators, flowmeters, conductivity, and pH meters on each scrubber module. Each parameter (except for pH) shall be recorded each shift during source operation and results reported as specified in General Condition GC1 of this permit. During times when conductivity readings cannot be recorded, the owner/operator shall monitor, record, and report pH readings. Operational ranges for the monitored parameters have been established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters were derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Bureau.</p>

Conditions For Unit ID 03 – General Purpose Unit/specialty chemical production (GPU)			
Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
03.2	C130 ₃	VOC and/or Air Toxics	<p>Limits/Standards: The facility’s permit application for this unit specifies the use of the GPU scrubber for controlling VOC and/or air toxics emissions from sources as listed in the permit application and Table 5.7 of this permit. The owner/operator shall operate and maintain the scrubber as required to control emissions of the listed pollutants.</p> <p>Testing: A source test for the GPU scrubber shall be required for VOC and/or air toxics control efficiency to verify efficiencies stated in permit applications within 18 months of the effective date of this permit. Overall control efficiency verification tests will include a demonstration of appropriate capture efficiency by source tests or design evaluations. Sources that exhaust to this control device shall be operating at maximum loading level for the scrubber for the source test. The facility may petition the Department on a case-by-case basis to source test at conditions other than the above specified level. Operation at other than maximum loading level may cause the source operations to be restricted. All test methods must be the most recent versions that are published in the Code of Federal Regulations (40 CFR 60 Appendix A) as in effect on the date of this permit issuance or other methods approved by the Department. Notification, approval of the Site-Specific Test Plan, etc. shall be followed per SC Regulation 62.1, Section IV – Source Tests. Source test methodology must be approved by the Bureau.</p> <p>Calculation of annual emissions for the above specified pollutants from this control device shall be based on the stack test results unless alternate methodology is approved by the Bureau.</p> <p>Monitoring/Record Keeping/Reporting/Other: The owner/operator shall maintain on file a copy of the approved site-specific test plan and final source test results. The owner/operator shall also follow the requirements of SC Regulation 62.1, Section IV(B) and (F) for submitting the required site-specific test plan and final test report.</p>

Table 5.8 - Unit ID 04 – Trimethyl Phosphite Unit (Sodium Hypophosphite) (TMPU)				
Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
C-227	Column	1977	F228, F229	04
C-343	Column	1977	F228, F229	04
C-800	Column	1977	F228, F229	04
D-200	Process Tank	1977	F228, F229	04
D-221	Process Vessel	1977	F228, F229	04
D-222	Process Vessel	1977	F228, F229	04
D-224	Process Vessel	1977	F228, F229	04
D-225	Process Vessel	1977	F228, F229	04
D-230	Process Vessel	1977	F228, F229	04
D-231	Knock Out Tank	1977	F228, F229	04
D-332	Process Vessel	1977	F228, F229	04
D-401	Process Vessel	1977	F228, F229	04
D-402	Process Vessel	1977	F228, F229	04

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Table 5.8 - Unit ID 04 – Trimethyl Phosphite Unit (Sodium Hypophosphite) (TMPU)

Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
D-646	Process Vessel	1977	F228, F229	04
E-203	Heat Exchanger	1977	N/A	N/A
E-204	Heat Exchanger	1977	N/A	N/A
E-204B	Heat Exchanger	1977	N/A	N/A
E-204T	Heat Exchanger	1977	N/A	N/A
E-206	Heat Exchanger	1977	N/A	N/A
E-207	Heat Exchanger	1977	N/A	N/A
E-208	Heat Exchanger	1977	N/A	N/A
E-210	Heat Exchanger	1977	N/A	N/A
E-211	Heat Exchanger	1977	N/A	N/A
E-217	Heat Exchanger	1977	N/A	N/A
E-218	Heat Exchanger	1977	N/A	N/A
E-288	Heat Exchanger	1977	N/A	N/A
E-220	Heat Exchanger	1977	N/A	N/A
E-334	Heat Exchanger	1977	N/A	N/A
E-335	Heat Exchanger	1977	N/A	N/A
E-340	Heat Exchanger	1977	N/A	N/A
E-341	Heat Exchanger	1977	N/A	N/A
E-408	Heat Exchanger	1977	N/A	N/A
E-409	Heat Exchanger	1977	N/A	N/A
E-811	Heat Exchanger	1977	N/A	N/A
E-812	Heat Exchanger	1977	N/A	N/A
E-813	Heat Exchanger	1977	N/A	N/A
E-814	Heat Exchanger	1977	N/A	N/A
E-815	Heat Exchanger	1977	N/A	N/A
E-816	Heat Exchanger	1977	N/A	N/A
E-817	Heat Exchanger	1977	N/A	N/A
E-818	Heat Exchanger	1977	N/A	N/A
E-822A	Heat Exchanger	1977	N/A	N/A
E-822B	Heat Exchanger	1977	N/A	N/A
E-822C	Heat Exchanger	1977	N/A	N/A
E-506	Steam Heated Dryer Pre-heater	2000	F228, F229	04
E-507	Steam Heated Feed Pre-heater	2000	F228, F229	04
D-500	Coalescer	2000	F228, F229	04
D-502A	Dryer	2000	N/A	N/A
D-502B	Dryer	2000	F228, F229	04
D-528	Wash Tank	2000	F228, F229	04
F-118	Sump	1977	F228, F229	04
F-404	Sump	1977	F228, F229	04
F-205	Process Tank	1977	F228, F229	04

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Table 5.8 - Unit ID 04 – Trimethyl Phosphite Unit (Sodium Hypophosphite) (TMPU)

Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
F-206	Process Tank	1977	F228, F229	04
F-210	Raw Material Tank	1977	F228, F229	04
F-211	Process Tank	1977	F228, F229	04
F-212	Process Tank	1977	F228, F229	04
F-213	Product Tank	1977	F228, F229	04
F-214	Product Tank	1977	F228, F229	04
F-216	Product Tank	1977	F228, F229	04
F-217	Blend Tank	1977	F228, F229	04
F-319	Feed Tank	1977	F228, F229	04
T-46	Product Tank	1977	F228, F229	04
T-47	Product Tank	1977	F228, F229	04
T-48	Product Tank	1977	F228, F229	04
T-49	Product Tank	1977	F228, F229	04
F-218	Process Tank	1977	F228, F229	04
F-219	Process Tank	1977	F228, F229	04
F-226	Process Tank	1977	F228, F229	04
F-410	Condensate Pot	2000	N/A	N/A
F-508	Feed Tank	2000	F228, F229	04
F-510	Separator	2000	F228, F229	04
F-523	Decanter	2000	F228, F229	04
F-648	Process Tank	1977	N/A	N/A
M-522	Splitter	2000	F228, F229	04
M-243A	Filter	2000	F228, F229	04
M-243B	Filter	2000	F228, F229	04
M-518A	Filter	2000	F228, F229	04
M-518B	Filter	2000	F228, F229	04
M-519	Mixer	2000	F228, F229	04
M-521	Mixer	2000	F228, F229	04
M-526	Steam Heater	2000	F228, F229	04
S-1	Process Tank	1977	F228, F229	04
T-1	Process Tank	1977	F228, F229	04
T-821	Process Tank	1977	F228, F229	04
T-820	Process Tank 3 compartments	1977	F228, F229	04
T-823	Process Tank	1977	F228, F229	04
T-824	Process Tank	1977	F228, F229	04
F-333A	Receiver	1977	F228, F229	04
F-333B	Receiver	1977	F228, F229	04
N/A	Building Vents	1977	F228, F229	04
M-525	Sample Hoods	1977	F228, F229	04

Table 5.9 - Control Device(s) For Unit ID 04 – Trimethyl Phosphite Unit (Sodium Hypophosphite) (TMPU)			
Control Device ID	Description	Installation Date/Modification Date	Pollutant(s) Controlled
F228	TMPU Process Scrubber (Weak Acid Solution)	1976	HAP, TAP, VOC
F229	TMPU Building Scrubber (Weak Acid Solution)	1970	HAP, TAP, VOC

Conditions For Unit ID 04 – Trimethyl Phosphite Unit (Sodium Hypophosphite) (TMPU)			
Condition No.	Equip ID	Regulated Pollutant/Standard	Conditions
04.1	All	Opacity	<p>Limits/Standards: In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%.</p> <p>Testing: None required.</p> <p>Monitoring/Record Keeping/Reporting/Other: The owner/operator shall conduct quarterly visual inspections on all controlled and uncontrolled sources. For all of these sources, the facility will specify recordkeeping parameters and any surrogate methods of compliance monitoring. Visual inspection is defined as a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for abnormal emissions. A semi-annual report shall include only summary data and any readings outside of the operating range and corrective action taken, or if no readings were outside of the operating range, the facility will submit a summary of compliance.</p> <p>The owner/operator shall continue to operate and maintain pressure drop indicators, flowmeters, and pH meters on each scrubber module. Each parameter shall be recorded each shift during source operation and results reported as specified in General Condition GC1 of this permit. Operational ranges for the monitored parameters have been established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters were derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Bureau.</p>

Table 5.10 - Unit ID 05 – Reserved				
Equipment ID	Description	Installation Date/Modification Date	Control Device ID	Stack ID
N/A	Previously permitted unit has been removed	N/A	N/A	N/A

Table 5.11 - Control Device(s) For Unit ID 05 – Reserved

Control Device ID	Description	Installation Date/ Modification Date	Pollutant(s) Controlled
N/A	N/A	N/A	N/A

Table 5.12 - Unit ID 06 – TMP Tank Car, Truck Loading and TMP Warehouse

Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
N/A	Truck-Loading Stations	1963 / 1979	F130	06
N/A	Rail Car-Loading Stations	1963 / 1979	F130	06
N/A	Sample Hood	1963 / 1979	F130	06
N/A	Room Vents	1963 / 1979	F130	06
N/A	Blend Tank	1963 / 1979	F130	06
N/A	Drumming Stations	1963 / 1979	F130	06
ST-37	Product Storage Tank	1963 / 1979	F130	06
ST-38	Product Storage Tank	1963 / 1979	F130	06
ST-39	Product Storage Tank	1963 / 1979	F130	06
ST-50	Product Storage Tank	1963 / 1979	F130	06
ST-51	Product Storage Tank	1963 / 1979	F130	06
ST-52	Product Storage Tank	1963 / 1979	F130	06
ST-53	Product Storage Tank	1963 / 1979	F130	06
ST-54	Product Storage Tank	1963 / 1979	F130	06
ST-55	Product Storage Tank	1963 / 1979	F130	06
ST-56	Product Storage Tank	1963 / 1979	F130	06
ST-57	Product Storage Tank	1963 / 1979	F130	06
ST-58	Product Storage Tank	1963 / 1979	F130	06

Table 5.13 - Control Device(s) For Unit ID 06 – TMP Tank Car, Truck Loading and TMP Warehouse

Control Device ID	Description	Installation Date/ Modification Date	Pollutant(s) Controlled
F130	Warehouse Packed Column Scrubber (Weak Acid Solution)	1979	HAP, TAP, VOC

Conditions For Unit ID 06 – TMP Tank Car, Truck Loading and TMP Warehouse			
Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
06.1	All	Opacity	<p>Limits/Standards: In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began on or before December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 40%.</p> <p>Testing: None required.</p> <p>Monitoring/Record Keeping/Reporting/Other: The owner/operator shall conduct quarterly visual inspections on all controlled and uncontrolled sources. For all of these sources, the facility will specify recordkeeping parameters and any surrogate methods of compliance monitoring. Visual inspection is defined as a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for abnormal emissions. A semi-annual report shall include only summary data and any readings outside of the operating range and corrective action taken, or if no readings were outside of the operating range, the facility will submit a summary of compliance.</p> <p>The owner/operator shall continue to operate and maintain pressure drop indicators, flowmeters, and conductivity meters on each scrubber module. Each parameter shall be recorded each shift during source operation and results reported as specified in General Condition GC1 of this permit. Operational ranges for the monitored parameters have been established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters were derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Bureau.</p>

Conditions For Unit ID 06 – TMP Tank Car, Truck Loading and TMP Warehouse			
Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
06.2	F130	VOC and/or Air Toxics	<p>Limits/Standards: The facility’s permit application for this unit specifies the use of the Warehouse scrubber for controlling VOC and/or air toxics emissions from sources as listed in the permit application and Table 5.12 of this permit. The owner/operator shall operate and maintain the scrubber as required to control emissions of the listed pollutants.</p> <p>Testing: A source test for the Warehouse scrubber shall be required for VOC and/or air toxics to verify efficiencies stated in permit applications within 42 months of the effective date of this permit. Overall control efficiency verification tests will include a demonstration of appropriate capture efficiency by source tests or design evaluations. Sources that exhaust to this control device shall be operating at maximum loading level for the scrubber for the source test. The facility may petition the Department on a case-by-case basis to source test at conditions other than the above specified level. Operation at other than maximum loading level may cause the source operations to be restricted. All test methods must be the most recent versions that are published in the Code of Federal Regulations (40 CFR 60 Appendix A) as in effect on the date of this permit issuance or other methods approved by the Department. Notification, approval of the Site-Specific Test Plan, etc. shall be followed per SC Regulation 62.1, Section IV – Source Tests. Source test methodology must be approved by the Bureau.</p> <p>Calculation of annual emissions for the above specified pollutants from this control device shall be based on the stack test results unless alternate methodology is approved by the Bureau.</p> <p>Monitoring/Record Keeping/Reporting/Other: The owner/operator shall maintain on file a copy of the approved site-specific test plan and final source test results. The owner/operator shall also follow the requirements of SC Regulation 62.1, Section IV(B) and (F) for submitting the required site-specific test plan and final test report.</p>

Table 5.14 - Unit ID 07 – Halides Unit - Phosphorous Oxychloride (POU) & Phosphorous Trichloride (PCU)/specialty chemical production				
Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
Shared by POU and PCU				
N/A	Sample Hoods	1972 / 1989	C130 ₇ , C276	07
N/A	Rail Car Loading	1972 / 1989	C130 ₇ , C276	07
N/A	Tank Truck Loading	1972 / 1989	C130 ₇ , C276	07
N/A	Halides Drumming	1972 / 1989	C130 ₇ , C276	07
F-279	Scrubber System	1972 / 1989	C130 ₇ , C276	07
F-280	Scrubber System	1972 / 1989	C130 ₇ , C276	07
PCU				
D-251	Process Vessel	1972 / 1989	C130 ₇ , C276	07
D-254	Process Vessel	1972 / 1989	C130 ₇ , C276	07
C-262	Column	1972 / 1989	C130 ₇ , C276	07
C-263	Column	1972 / 1989	C130 ₇ , C276	07

Table 5.14 - Unit ID 07 – Halides Unit - Phosphorous Oxychloride (POU) & Phosphorous Trichloride (PCU)/specialty chemical production

Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
E-260	Heat Exchanger	1972 / 1989	N/A	N/A
E-261	Heat Exchanger	1972 / 1989	N/A	N/A
E-252	Heat Exchanger	1972 / 1989	N/A	N/A
E-269	Heat Exchanger	1972 / 1989	N/A	N/A
E-270	Heat Exchanger	1972 / 1989	N/A	N/A
E-271	Heat Exchanger	1972 / 1989	N/A	N/A
E-291	Heat Exchanger	1972 / 1989	N/A	N/A
E-247	Heat Exchanger	1972 / 1989	N/A	N/A
F-142	Process Tank	1972 / 1989	C130 ₇ , C276	07
F-256	Product Tank	1972 / 1989	C130 ₇ , C276	07
F-250	Raw Material Tank	1972 / 1989	C130 ₇ , C276	07
D-304	Process Vessel	1972 / 1989	C130 ₇ , C276	07
D-305	Process Vessel	1972 / 1989	C130 ₇ , C276	07
D-306	Process Vessel	1972 / 1989	C130 ₇ , C276	07
D-307	Process Vessel	1972 / 1989	C130 ₇ , C276	07
D-308	Process Vessel	1972 / 1989	C130 ₇ , C276	07
F-281	Raw Material Tank	1972 / 1989	C130 ₇ , C276	07
F-290	Knock Out Tank	1972 / 1989	C130 ₇ , C276	07
F-264	Product Tank	1972 / 1989	C130 ₇ , C276	07
F-265	Product Tank	1972 / 1989	C130 ₇ , C276	07
F-266	Product Tank	1972 / 1989	C130 ₇ , C276	07
F-285	Knock Out Tank	1972 / 1989	C130 ₇ , C276	07
F-303	Process Tank	1972 / 1989	C130 ₇ , C276	07
F-295	Process Tank	1972 / 1989	C130 ₇ , C276	07
M-313	Drum Filler	1972 / 1995	C130 ₇ , C276	07
F-317	Catch Pot	1972 / 1995	C130 ₇ , C276	07
D-294	Process Vessel	1972 / 1989	C130 ₇ , C276	07
F260	Phossey Water Treatment Tank	1972/1989	C130 ₇ , C276	07
POU				
F-133	Knock Out Tank	1972 / 1989	C130 ₇ , C276	07
D-278	Process Vessel	1972 / 1989	C130 ₇ , C276	07
D-279	Process Vessel	1972 / 1989	C130 ₇ , C276	07
D-280	Process Vessel	1972 / 1989	C130 ₇ , C276	07
D-281	Process Vessel	1972 / 1989	C130 ₇ , C276	07
D-292	Process Vessel	1972 / 1989	C130 ₇ , C276	07
F-283	Process Vessel	1972 / 1989	C130 ₇ , C276	07
F-285	Product Tank	1972 / 1989	C130 ₇ , C276	07
F-304	Product Tank	1972 / 1989	C130 ₇ , C276	07
F-305	Product Tank	1972 / 1989	C130 ₇ , C276	07

Table 5.14 - Unit ID 07 – Halides Unit - Phosphorous Oxychloride (POU) & Phosphorous Trichloride (PCU)/specialty chemical production				
Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
M-287	Product Filter	1972 / 1989	C130 ₇ , C276	07
M-288	Product Filter	1972 / 1989	C130 ₇ , C276	07
F-206	Water Tank	2000	N/A	N/A
E-200	Refrigerator Chiller System	2000	N/A	N/A
D-289	Process Vessel	1972 / 1989	C130 ₇ , C276	07
D-290	Process Vessel	1972 / 1989	C130 ₇ , C276	07
D-291	Process Vessel	1972 / 1989	C130 ₇ , C276	07
E-293	Heat Exchanger	1972 / 1989	N/A	N/A
E-294	Heat Exchanger	1972 / 1989	N/A	N/A
E-295	Heat Exchanger	1972 / 1989	N/A	N/A
E-296	Heat Exchanger	1972 / 1989	N/A	N/A
E-311	Heat Exchanger	1972 / 1989	N/A	N/A
E-312	Heat Exchanger	1972 / 1989	N/A	N/A
E-313	Heat Exchanger	1972 / 1989	N/A	N/A
E-314	Heat Exchanger	1972 / 1989	N/A	N/A
M-329	Sample Hood	1972 / 1989	C130 ₇ , C276	07
RCRA Permitted Treatment Unit				
1299	Drying Pan	1983	C130 ₇ , C276	07
F646	20,000 gallon RCRA Permitted Storage Tank (subject to Level 1 RCRA requirements)	1983	N/A	N/A
F647	20,000 gallon RCRA Permitted Storage Tank (subject to Level 1 RCRA requirements)	1983	N/A	N/A

Table 5.15 - Control Device(s) For Unit ID 07 – Halides Unit - Phosphorous Oxychloride (POU) & Phosphorous Trichloride (PCU)/specialty chemical production			
Control Device ID	Description	Installation Date/ Modification Date	Pollutant(s) Controlled
C130 ₇ /C276	POU Packed Column Scrubber (Caustic Soda Solution)/ PCU Packed Column Scrubber (Water)	1971/1990	HAP, TAP

Conditions For Unit ID 07 – Halides Unit - Phosphorous Oxychloride (POU) & Phosphorous Trichloride (PCU)/specialty chemical production			
Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
07.1	All	Opacity	<p>Limits/Standards: In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%.</p> <p>Testing: None required.</p> <p>Monitoring/Record Keeping/Reporting/Other: The owner/operator shall conduct quarterly visual inspections on all controlled and uncontrolled sources. For all of these sources, the facility will specify recordkeeping parameters and any surrogate methods of compliance monitoring. Visual inspection is defined as a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for abnormal emissions. A semi-annual report shall include only summary data and any readings outside of the operating range and corrective action taken, or if no readings were outside of the operating range, the facility will submit a summary of compliance.</p> <p>The owner/operator shall install, operate, and maintain flowmeters and pH meters on each scrubber module. Each parameter shall be recorded each shift during source operation and results reported as specified in General Condition GC1 of this permit. The readings shall be maintained in logs (written or electronic (i.e., computerized data system)), along with any corrective action taken when deviations occur. Operational ranges for the monitored parameters have been established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters were derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Bureau.</p>
07.2	All	PM	<p>Limits/Standards: As specified in SC Regulation 61-62.5, Standard No. 4, Section VIII, the PM emissions are limited to a process weight based limit. PM emissions are limited to a process weight based limit of 6.79 lb/hr. The potential emissions from this unit is primarily acid mists; therefore, the acid mist factor was used in calculating the process rate based limit according to the equations in Section VIII.</p> <p>Testing: None required.</p> <p>Monitoring/Record Keeping/Reporting/Other: Follow monitoring and reporting requirements specified for opacity. See Condition 07.1.</p>

Conditions For Unit ID 07 – Halides Unit - Phosphorous Oxychloride (POU) & Phosphorous Trichloride (PCU)/specialty chemical production			
Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
07.3	F646 F647	Organic vapors	<p>Limits/Standards: These tanks shall be operated to meet the requirements specified in 40 CFR 264 (Standards For Owners And Operators Of Hazardous Waste Treatment, Storage, And Disposal Facilities) for control of organic vapors from tanks containing hazardous waste. Approved hazardous wastes managed by these tanks shall follow the requirements specified by Tank Level 1 controls specified in Section 1084 of Subpart CC of 40 CFR 264.</p> <p>Testing: None required.</p> <p>Monitoring/Record Keeping/Reporting/Other: Follow monitoring, recordkeeping, and reporting requirements specified in 40 CFR 264, Subpart CC, Section 1084.</p>
07.4	C1307/ C276	VOC and/or Air Toxics	<p>Limits/Standards: The facility’s permit application for this unit specifies the use of the POU and PCU scrubbers for controlling VOC and/or air toxics emissions from sources as listed in the permit application and Table 5.14 of this permit. The owner/operator shall operate and maintain the scrubber as required to control emissions of the listed pollutants.</p> <p>Testing: A source test for the POU and PCU scrubbers shall be required for VOC and/or air toxics control efficiency to verify efficiencies stated in permit application within 30 months of the effective date of this permit. Overall control efficiency verification tests will include a demonstration of appropriate capture efficiency by source tests or design evaluations. Sources that exhaust to this control device shall be operating at maximum loading level for the scrubber for the source test. The facility may petition the Department on a case-by-case basis to source test at conditions other than the above specified level. Operation at other than maximum loading level may cause the source operations to be restricted. All test methods must be the most recent versions that are published in the Code of Federal Regulations (40 CFR 60 Appendix A) as in effect on the date of this permit issuance or other methods approved by the Department. Notification, approval of the Site-Specific Test Plan, etc. shall be followed per SC Regulation 62.1, Section IV – Source Tests. Source test methodology must be approved by the Bureau.</p> <p>Calculation of annual emissions for the above specified pollutants from this control device shall be based on the stack test results unless alternate methodology is approved by the Bureau.</p> <p>Monitoring/Record Keeping/Reporting/Other: The owner/operator shall maintain on file a copy of the approved site-specific test plan and final source test results. The owner/operator shall also follow the requirements of SC Regulation 62.1, Section IV(B) and (F) for submitting the required site-specific test plan and final test report.</p>

Table 5.16 - Unit ID 08 – Boiler #1				
Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
B607	25 Million Btu/hr (600 Hp) Natural Gas/ Oil Fired Boiler	1977	N/A	09

N/A = Not Applicable

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Table 5.17 - Control Device(s) For Unit ID 08 – Boiler #1

Control Device ID	Description	Installation Date/ Modification Date	Pollutant(s) Controlled
N/A	This emission unit does not have a control device	N/A	N/A

N/A = Not Applicable

Conditions For Unit ID 08 – Boiler #1

Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
08.1	B607	Opacity	<p>Limits/Standards: In accordance with SC Regulation 61-62.5, Standard No. 1, Emissions from Fuel Burning Operations, Boiler B607 shall not discharge into the ambient air smoke which exceeds an opacity of 20%. The twenty (20) percent opacity limit may be exceeded for sootblowing, but may not be exceeded for more than six (6) minutes in a one hour period nor be exceeded for more than a total of twenty-four (24) minutes in a twenty-four (24) hour period. Emissions caused by sootblowing shall not exceed sixty (60) percent opacity. The opacity standards set forth above do not apply during startup or shutdown. The owner/operator shall, to the extent practicable, maintain and operate any source including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions.</p> <p>Testing: None required.</p> <p>Monitoring/Record Keeping/Reporting/Other: The owner/operator shall maintain a log of the time, magnitude, duration and any other pertinent information to determine periods of startup and shutdown.</p> <p>The owner/operator shall perform a visual inspection on a daily basis when burning fuel oil. Visual Inspection means a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for any abnormal emissions. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water. No periodic monitoring for opacity will be required during periods of burning natural gas only. Logs shall be kept to record all visual inspections, including cause and corrective action taken for any abnormal emissions and visual inspections from date of recording. A semi-annual report shall include only summary data and any readings outside of the operating range and corrective action taken, or if no readings were outside of the operating range, the facility will submit a summary of compliance.</p>

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Conditions For Unit ID 08 – Boiler #1			
Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
08.2	B607	PM	<p>Limits/Standards: In accordance with SC Regulation 61-62.5, Standard No. 1 - Emissions from Fuel Burning Operations, Section II - Particulate Matter Emissions, the allowable discharge of particulate matter resulting from the fuel burning operations is 0.6 pounds per million BTU input.</p> <p>Testing: None required.</p> <p>Monitoring/Record Keeping/Reporting/Other: None required.</p>
08.3	B607	SO ₂	<p>Limits/Standards: In accordance with SC Regulation 61-62.5, Standard No. 1 - Emissions from Fuel Burning Operations, Section III - Sulfur Dioxide Emissions, the maximum allowable discharge of sulfur dioxide (SO₂) resulting from Equipment B607 is 3.5 pounds per million BTU input.</p> <p>Boiler B607 is permitted to burn only natural gas and fuel oil with sulfur content of 0.05% or less. The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality.</p> <p>Testing: None required.</p> <p>Monitoring/Record Keeping/Reporting/Other: Fuel oil sulfur content shall be less than or equal to 0.05 percent by weight. Acceptable fuel oil certification can be ensured by following Department guidance entitled “Guidance For Fuel Oil Certifications” issued on August 12, 2004 and any subsequent revisions. Fuel oil supplier certification shall be obtained for each batch of oil received and stored on site. Reports of the recorded sulfur content shall be submitted semiannually.</p>

Table 5.18 - Unit ID 09 – Boiler #2				
Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
B610	33.4 Million Btu/hr (800 Hp) Natural Gas/ Oil Fired Boiler	1982	N/A	08

N/A = Not Applicable

Table 5.19 - Control Device(s) For Unit ID 09 – Boiler #2			
Control Device ID	Description	Installation Date/ Modification Date	Pollutant(s) Controlled
N/A	This emission unit does not have a control device	N/A	N/A

N/A = Not Applicable

Conditions For Unit ID 09 – Boiler #2			
Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
09.1	B610	Opacity	<p>Limits/Standards: In accordance with SC Regulation 61-62.5, Standard No. 1, Emissions from Fuel Burning Operations, Boiler B610 shall not discharge into the ambient air smoke which exceeds an opacity of 20%. The twenty (20) percent opacity limit may be exceeded for sootblowing, but may not be exceeded for more than six (6) minutes in a one hour period nor be exceeded for more than a total of twenty-four (24) minutes in a twenty-four (24) hour period. Emissions caused by sootblowing shall not exceed sixty (60) percent opacity. The opacity standards set forth above do not apply during startup or shutdown. The owner/operator shall, to the extent practicable, maintain and operate any source including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions.</p> <p>Testing: Not required.</p> <p>Monitoring/Record Keeping/Reporting/Other: The owner/operator shall maintain a log of the time, magnitude, duration and any other pertinent information to determine periods of startup and shutdown.</p> <p>The owner/operator shall perform a visual inspection on a daily basis when burning fuel oil. Visual Inspection means a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for any abnormal emissions. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water. No periodic monitoring for opacity will be required during periods of burning natural gas only. Logs shall be kept to record all visual inspections, including cause and corrective action taken for any abnormal emissions and visual inspections from date of recording. A semi-annual report shall include only summary data and any readings outside of the operating range and corrective action taken, or if no readings were outside of the operating range, the facility will submit a summary of compliance.</p>
09.2	B610	PM	<p>Limits/Standards: In accordance with SC Regulation 61-62.5, Standard No. 1 - Emissions from Fuel Burning Operations, Section II - Particulate Matter Emissions, the allowable discharge of particulate matter resulting from the fuel burning operations is 0.6 pounds per million BTU input.</p> <p>Testing: None required.</p> <p>Monitoring/Record Keeping/Reporting/Other: None required.</p>

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Conditions For Unit ID 09 – Boiler #2			
Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
09.3	B610	SO ₂	<p>Limits/Standards: In accordance with SC Regulation 61-62.5, Standard No. 1 - Emissions from Fuel Burning Operations, Section III - Sulfur Dioxide Emissions, the maximum allowable discharge of sulfur dioxide (SO₂) resulting from Equipment B610 is 3.5 pounds per million BTU input.</p> <p>Boiler B610 is permitted to burn only natural gas and No. 2, No. 3, No. 4, No. 5, and No. 6 fuel oils as fuel. The fuel oils are limited to less than or equal to 2.1% sulfur content. The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality.</p> <p>Testing: None required.</p> <p>Monitoring/Record Keeping/Reporting/Other: Fuel oil sulfur content shall be less than or equal to 2.1 percent by weight. Acceptable fuel oil certification can be ensured by following Department guidance entitled “Guidance For Fuel Oil Certifications” issued on August 12, 2004 and any subsequent revisions. Fuel oil supplier certification shall be obtained for each batch of oil received and stored on site. Reports of the recorded sulfur content shall be submitted semiannually.</p>

Table 5.20 - Unit ID 10 – BN-1 Storage/Product Storage and Truck Loading

Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
N/A	Tank Loading Vents	Sept. 1987	F149	10
F-682	20,000 gallon Storage Tank	Sept. 1987	F149	10
F-683	24, 000 gallon Storage Tank	Sept. 1987	F149	10
F-133	Knock Out Tank	Sept. 1987	F149	10
M-655	Drum Washer	Sept. 1987	F149	10

Table 5.21 - Control Device(s) For Unit ID 10 – BN-1 Storage/Product Storage and Truck Loading

Control Device ID	Description	Installation Date/ Modification Date	Pollutant(s) Controlled
F149	BN-1 Storage Packed Column Scrubber (Weak Acid Solution)	1965	HAP, TAP, VOC

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Conditions For Unit ID 10 – BN-1 Storage/Product Storage and Truck Loading			
Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
10.1	All	Opacity	<p>Limits/Standards: In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%.</p> <p>Testing: None required.</p> <p>Monitoring/Record Keeping/Reporting/Other: The owner/operator shall conduct quarterly visual inspections on all controlled and uncontrolled sources. For all of these sources, the facility will specify recordkeeping parameters and any surrogate methods of compliance monitoring. Visual inspection is defined as a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for abnormal emissions. A semi-annual report shall include only summary data and any readings outside of the operating range and corrective action taken, or if no readings were outside of the operating range, the facility will submit a summary of compliance.</p> <p>The owner/operator shall continue to operate and maintain flowmeters and pH meters on each scrubber module. Each parameter shall be recorded each shift during source operation and results reported as specified in General Condition GC1 of this permit. Operational ranges for the monitored parameters have been established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters were derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Bureau.</p>

Conditions For Unit ID 10 – BN-1 Storage/Product Storage and Truck Loading			
Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
10.2	F149	VOC and/or Air Toxics	<p>Limits/Standards: The facility’s permit application for this unit specifies the use of the BN-1 Storage scrubber for controlling VOC and/or air toxics emissions from sources as listed in the permit application and Table 5.20 of this permit. The owner/operator shall operate and maintain the scrubber as required to control emissions of the listed pollutants.</p> <p>Testing: A source test for the BN-1 Storage scrubber shall be required for VOC and/or air toxics control efficiency to verify efficiencies stated in permit applications within 54 months of the effective date of this permit. Overall control efficiency verification tests will include a demonstration of appropriate capture efficiency by source tests or design evaluations. Sources that exhaust to this control device shall be operating at maximum loading level for the scrubber for the source test. The facility may petition the Department on a case-by-case basis to source test at conditions other than the above specified level. Operation at other than maximum loading level may cause the source operations to be restricted. All test methods must be the most recent versions that are published in the Code of Federal Regulations (40 CFR 60 Appendix A) as in effect on the date of this permit issuance or other methods approved by the Department. Notification, approval of the Site-Specific Test Plan, etc. shall be followed per SC Regulation 62.1, Section IV – Source Tests. Source test methodology must be approved by the Bureau.</p> <p>Calculation of annual emissions for the above specified pollutants from this control device shall be based on the stack test results unless alternate methodology is approved by the Bureau.</p> <p>Monitoring/Record Keeping/Reporting/Other: The owner/operator shall maintain on file a copy of the approved site-specific test plan and final source test results. The owner/operator shall also follow the requirements of SC Regulation 62.1, Section IV(B) and (F) for submitting the required site-specific test plan and final test report.</p>

Table 5.22 - Unit ID 11 – Storage Tanks				
Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
VT1	25,300 gallon Storage Tank	1959	N/A	VT1
VT201	25,300 gallon Storage Tank	1977	N/A	VT201
ST40	27,500 gallon VOL Storage Tank (Kb)	1997	N/A	ST40
F-200	52,000 gallon VOL Storage Tank (Kb)	1997	F-228 F-229	04
F-201	52,000 gallon VOL Storage Tank (Kb)	1997	F-228 F-229	04

Table 5.23 - Control Device(s) For Unit ID 11 – Storage Tanks			
Control Device ID	Description	Installation Date/ Modification Date	Pollutant(s) Controlled
F228	TMPU Process Scrubber (Weak Acid Solution)	1976	HAP, TAP, VOC
F229	TMPU Building Scrubber (Weak Acid Solution)	1970	HAP, TAP, VOC

Conditions For Unit ID 11 – Storage Tanks			
Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
11.1	All	Opacity	<p>Limits/Standards: In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%.</p> <p>Testing: None required.</p> <p>Monitoring/Record Keeping/Reporting/Other: The owner/operator shall conduct quarterly visual inspections on all controlled and uncontrolled sources. For all of these sources, the facility will specify recordkeeping parameters and any surrogate methods of compliance monitoring. Visual inspection is defined as a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for abnormal emissions. A semi-annual report shall include only summary data and any readings outside of the operating range and corrective action taken, or if no readings were outside of the operating range, the facility will submit a summary of compliance.</p>
11.2	ST40 F-200 F-201	VOL	<p>Limits/Standards: Storage tanks F-200 (Stack 04), F-201 (Stack 04), and ST-40 are subject to the provisions of SC Regulation 61-62.60 and 40 CFR 60 Subpart Kb, New Source Performance Standards for Volatile Organic Liquid Storage Vessels. As specified in 40CFR60.112(b), based on a size below 75 m³, these tanks are subject to no part of 40CFR60.110 through 40CFR60.117 (Kb) except as specified in 40CFR60.116(b).</p> <p>Testing: N/A</p> <p>Monitoring/Record Keeping/Reporting/Other: The owner/operator of each storage vessel subject to NSPS Subpart Kb shall keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. These records will be kept for the life of the source.</p>

Table 5.24 - Unit ID 12 – Phosphogypsum Storage

Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
N/A	Pile of Phosphogypsum	N/A	N/A	N/A

N/A = Not Applicable

Table 5.25 - Control Device(s) For Unit ID 12 – Phosphogypsum Storage

Control Device ID	Description	Installation Date/ Modification Date	Pollutant(s) Controlled
N/A	This emission unit does not have a control device	N/A	N/A

N/A = Not Applicable

Conditions For Unit ID 12 – Phosphogypsum Storage			
Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
12.1	Phosphogypsum Storage Pile	Radon-222	<p>Limits/Standards: This source is subject to all applicable requirements of SC Regulation 61-62.61 and 40 CFR 61, Subpart A and R, National Emission Standards For Radon Emissions From Phosphogypsum Stacks. The on site phosphogypsum stack (pile) is an inactive stack as defined by 40CFR61.201. As specified in 40CFR61.202 the owner or operator shall assure that an inactive Phosphogypsum stack does not emit more than 20 pCi/m²-s of radon-222 into the air. As specified in 40CFR61.203, if the stack becomes active (40CFR61.201) by distribution or other use, all requirements of 40CFR63.203 must again be satisfied when the stack becomes inactive (40CFR61.201).</p> <p>Testing: Method 115</p> <p>Monitoring/Record Keeping/Reporting/Other: All monitoring and testing of the inactive stack must be in accordance with 40CFR61.203 using test procedures specified in Method 115 (40CFR61 Appendix B). Any distribution or use of the stack must be in accordance with 40CFR61.204 through 40CFR61.206 using sampling, measurement, and certification procedures outlined in 40CFR61.207 through 40CFR61.208.</p> <p>As specified in 40 CFR 61 Subpart 209, each owner/operator of a phosphogypsum stack must maintain records for each stack documenting the procedure used to verify compliance with the flux standard in 40CFR61.202, including all measurements, calculations, and analytical methods on which input parameters were based. Recordkeeping shall include all requirements for an inactive (40CFR61.201) stack as specified in 40CFR61.203 and/or and active (40CFR61.201) stack as specified in 40CFR61.204 through 40CFR61.206. The required documentation shall be sufficient to allow an independent auditor to verify the correctness of the determination made concerning compliance of the stack with the flux standard.</p>

Table 5.26 - Unit ID 13 – Briquest Unit/Specialty Chemical Production

Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
F-711	Storage Tank	Dec. 1990/ Aug. 1993	C930	13
F-705	Storage Tank	Dec. 1990/ Aug. 1993	C930	13
F-414	Condensate Tank	Dec. 1990/ Aug. 1993	C930	13
D-301	Reactor	Dec. 1990/ Aug. 1993	C930	13
F-341	Condensate Tank	Dec. 1990/	C930	13
F-913	Day Tank	Aug. 1993	C930	13
N/A	Strainer	Dec. 1990/	C930	13

Table 5.26 - Unit ID 13 – Briquest Unit/Specialty Chemical Production

Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
M-920	Drumming System	Aug. 1993	C930	13
F-902	Storage Tank	Dec. 1990/	C930	13
F-800	Product Storage	Aug. 1993	C930	13
F-802	Product Storage	Dec. 1990/	C930	13
F-803	Product Storage	Aug. 1993	C930	13
D-418	Feed Tank	Dec. 1990/	C930	13
D-101	Reactor	Aug. 1993	C930	13
F-355	Mix Tank	Dec. 1990/	C930	13
E-302	Condenser	Aug. 1993	C930	13
M-901	D.I. Water Unit	Dec. 1990/	C930	13
F-352	Treatment Tank	Aug. 1993	C930	13
E-941	Steam Heater	Dec. 1990/	C930	13
D-516	Receiver	1999	C930	13
D-521	Separator	1999	C930	13
D-523	Receiver	1999	C930	13
E-511	Steam Heated Vaporizer	1999	C-512	13
E-417	Heat Exchanger	1999	N/A	N/A
F-537	Storage Tank	1999	N/A	13
F-912	Knock Out Tank	Dec. 1990/	C930	13
F-939	Neutralization Tank	Aug. 1993	C930	13
F-944	Hold Tank	Dec. 1990/	C930	13
E-504	Condenser	Aug. 1993	C930	13

Table 5.27 - Control Device(s) For Unit ID 13 – BRIQUEST UNIT/SPECIALTY CHEMICAL PRODUCTION

Control Device ID	Description	Installation Date/ Modification Date	Pollutant(s) Controlled
C930	Briquest Unit Packed Column Scrubber (Caustic Soda Solution)	1990	HAP, TAP, VOC
C512	Briquest Unit HCl Unloading Station Packed Scrubber (Water) in series with a Venturi Scrubber (Caustic Soda Solution) (One Unit)	1998	HCl

Conditions For Unit ID 13 – BRIQUEST UNIT/SPECIALTY CHEMICAL PRODUCTION			
Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
13.1	All	Opacity	<p>Limits/Standards: In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%.</p> <p>Testing: None required.</p> <p>Monitoring/Record Keeping/Reporting/Other: The owner/operator shall conduct quarterly visual inspections on all controlled and uncontrolled sources. For all of these sources, the facility will specify recordkeeping parameters and any surrogate methods of compliance monitoring. Visual inspection is defined as a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for abnormal emissions. A semi-annual report shall include only summary data and any readings outside of the operating range and corrective action taken, or if no readings were outside of the operating range, the facility will submit a summary of compliance.</p> <p>The owner/operator shall continue to operate and maintain pressure drop indicators, flowmeters and pH meters on each scrubber module. Each parameter shall be recorded each shift during source operation and results reported as specified in General Condition GC1 of this permit. Operational ranges for the monitored parameters have been established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters were derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Bureau.</p>

Table 5.28 - Unit ID 14 – Thermal Oxidation Unit/Air Stripping

Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
F-657	Process Tank	Sep. 1992	B680, B686, C682, C687	14
F-655	Process Tank	Sep. 1992	B680, B686, C682, C687	14
F-661	Process Tank	Sep. 1992	B680, B686, C682, C687	14
F-662	Process Tank	Sep. 1992	B680, B686, C682, C687	14
F-663	Process Tank	Sep. 1992	B680, B686, C682, C687	14
F-653	12,000 gallon Equalization Tank	Sep. 1992	N/A	N/A
F-634	East Skim Tank	Sep. 1992	N/A	F-653
F-632	No. 3 pH Tank	Sep. 1992	N/A	F-653

Table 5.28 - Unit ID 14 – Thermal Oxidation Unit/Air Stripping

Equipment ID	Description	Installation Date/ Modification Date	Control Device ID	Stack ID
F-651	Surge Tank	Sep. 1992	N/A	F-653
F-635	West Skim Tank	Sep. 1992	N/A	F-653
F-630	No. 1 pH Tank	Sep. 1992	N/A	F-653
F-631	No. 2 pH Tank	Sep. 1992	N/A	F-653
F-673	Air Stripper No. 1	Sep. 1992	B680, B686, C682, C687	14
F-677	Air Stripper No. 2	Sep. 1992	B680, B686, C682, C687	14
C-696	Quench Tower 1	Sep. 1992	B680, B686, C682, C687	14
C-697	Quench Tower 2	Sep. 1992	B680, B686, C682, C687	14
E-671	Heat Exchanger	Sep. 1992	N/A	N/A
E-691	Heat Exchanger	Sep. 1992	N/A	N/A

Table 5.29 - Control Device(s) For Unit ID 14 – Thermal Oxidation Unit/Air Stripping

Control Device ID	Description	Installation Date/ Modification Date	Pollutant(s) Controlled
B680, B686	TOU Primary & Backup 11 Million Btu/hr Oxidizers	1991	HAP, TAP, VOC
C682, C687	TOU Primary & Backup Scrubber (Caustic Soda Solution)	1991	HAP, TAP, VOC

Conditions For Unit ID 14 – Thermal Oxidation Unit/Air Stripping

Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
14.1	B680 B686	Opacity	<p>Limits/Standards: The TOU Oxidizers are considered industrial incinerators and are subject to all applicable requirements of SC Regulation 61-62.5, Standard No. 3, Section III, I. This Standard will not supersede any other State or Federal requirements including, but not limited to, New Source Performance Standards (NSPS), National Emission Standards for Hazardous Air Pollutants (NESHAP), Prevention of Significant Deterioration (PSD) Regulations, nor special permit conditions, unless this Standard imposes a more restrictive emission limitation. Two Thermal Oxidizers are in place with one used as a backup. Opacity shall be limited to 20% for each Thermal Oxidizer while it is in operation.</p> <p>In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%.</p> <p>The waste treatment equipment in the TOU process that vent to the oxidizers and scrubbers shall not be operated without the oxidizers and scrubbers on line and operating properly.</p> <p>The waste treatment equipment in the TOU shall be operated as described in procedures maintained on site to include the backup control system procedure and the complete system failure procedure.</p>

Conditions For Unit ID 14 – Thermal Oxidation Unit/Air Stripping			
Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
			<p>Testing: None required.</p> <p>Monitoring/Record Keeping/Reporting/Other: The owner/operator shall conduct quarterly visual inspections on all controlled and uncontrolled sources. For all of these sources, the facility will specify recordkeeping parameters and any surrogate methods of compliance monitoring. Visual inspection is defined as a qualitative observation of opacity during daylight hours where the inspector records results in a log, noting color, duration, density (heavy or light), cause and corrective action taken for abnormal emissions. A semi-annual report shall include only summary data and any readings outside of the operating range and corrective action taken, or if no readings were outside of the operating range, the facility will submit a summary of compliance.</p> <p>The owner/operator shall continue to operate and maintain flowmeters and pH meters on each scrubber module. Each parameter shall be recorded each shift during source operation and results reported as specified in General Condition GC1 of this permit. Operational ranges for the monitored parameters have been established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters were derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Bureau.</p> <p>The owner/operator shall maintain on site a copy of the procedures by which the waste treatment equipment in the TOU is operated, to include include the backup control system procedure and the complete system failure procedure. In addition, a copy of these procedures shall be provided to the Bureau. Any revisions to these procedures shall be provided to the Bureau within 30 days of the effective date of such revisions.</p>
14.2	B680 B686	Sulfur content of fuel	<p>Limits/Standards: The thermal oxidizers are permitted to burn only natural gas, #2 fuel oil (≤ 0.3 wt% sulfur content), methanol, or ethanol as fuel. The use of any other substances as fuel is prohibited without prior written approval from the Bureau of Air Quality.</p> <p>Testing: None required.</p> <p>Monitoring/Record Keeping/Reporting/Other: Fuel oil sulfur content shall be less than or equal to 0.3 percent by weight. Acceptable fuel oil certification can be ensured by following Department guidance entitled “Guidance For Fuel Oil Certifications” issued on August 12, 2004 and any subsequent revisions. Fuel oil supplier certification shall be obtained for each batch of oil received and stored on site. Reports of the recorded sulfur content shall be submitted semiannually.</p>

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Conditions For Unit ID 14 – Thermal Oxidation Unit/Air Stripping			
Condition No.	Equip ID	Regulated Pollutant/ Standard	Conditions
14.3	B680 B686	Combustion Chamber Temperature	<p>Limits/Standards: The combustion chamber temperature of the thermal oxidizers shall be maintained at ≥ 1575 °F.</p> <p>Testing: None required.</p> <p>Monitoring/Record Keeping/Reporting/Other: The facility shall continue to operate and maintain a temperature indicator on each thermal oxidizer. The temperature shall be recorded continuously during burning of waste gases. If the value for the thermal oxidizer temperature is outside the operating range while burning waste gases, the facility will take all necessary corrective actions to bring the control device back into the operating range as expeditiously as possible. All actions taken by the facility will be recorded. During periods when the oxidizer is in idle mode and no waste gases are being burned, the oxidizer temperature does not need to be reported; however, the facility shall record and report the date and times when that mode is active. Reports shall be submitted semi-annually and shall include only summary data and any readings when burning waste gases outside of the operating range and corrective action taken, or if no readings were outside of the operating range, the facility will submit a summary of compliance. Operational ranges for the monitored parameters have been established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters were derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Bureau.</p>
14.4	Combined	PM	<p>Limits/Standards: In accordance with SC Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section VIII - Other Manufacturing, particulate matter emissions shall be limited to the rate specified by use of the following equations: for process weight rates less than or equal to 30 tons per hour ($E = 4.10P^{0.67}$) and for process weight rates greater than 30 tons per hour ($E = 55.0P^{0.11} - 40$) where E = the allowable emission rate in pounds per hour and P = process weight rate in tons per hour. As such, the allowable particulate matter emission limit for emission unit ID14 is limited to 44.7 lb/hr based on a process weight rate of 50.4 tons/hr at its nominal production rating.</p> <p>Testing: None required.</p> <p>Monitoring/Record Keeping/Reporting/Other: Follow monitoring and reporting requirements specified for opacity. Refer to Condition 14.1.</p>

PART 6.0 TITLE V REPORTING REQUIREMENTS

A. TITLE V PERIODIC REPORTING SCHEDULE

TABLE 6.1 TITLE V PERIODIC REPORTING SCHEDULE		
Compliance Monitoring Report Submittal Frequency	Reporting Period (Begins on the effective date of the permit)	Report Due Date
Quarterly	January-March April-June July-September October-December	April 30 th July 30 th October 30 th January 30 th
Semiannual	January-June April-September July-December October-March	July 30 th October 30 th January 30 th April 30 th
<p>Note: This reporting schedule does not supercede any Federal reporting requirements including but not limited to 40 CFR 60, 61, and 63. All Federal reports must meet the reporting time frames specified in the Federal standard unless the Department or EPA approves a change.</p>		

B. TITLE V COMPLIANCE CERTIFICATION REPORTING SCHEDULE

TABLE 6.2 TITLE V COMPLIANCE CERTIFICATION REPORTING SCHEDULE		
Title V Compliance Certification Submittal Frequency	Reporting Period (Begins on the effective date of the permit)	Report Due Date
Annual	January-December April-March July-June October-September	February 14 th May 15 th August 14 th November 14 th

PART 7.0 ADDITIONAL CONDITIONS

A. OPERATIONAL FLEXIBILITY

Condition Number	Conditions
7.A.1	<p>The two emergency power generators, Security System unit U-205 and OSU Train 3 Emergency Power unit 170-502, have been determined to be exempt from construction permitting requirements in accordance with South Carolina Regulation 61-62.1 Section II.B.2.f and as such are listed as exempt sources in this permit. These sources shall still comply with the requirements of all applicable regulations including but not limited to:</p> <p>(1) New Source Performance Standards (NSPS) 40 CFR 60 Subparts A (General Provisions); IIII (Stationary Compression Ignition Internal Combustion Engines); and JJJJ (Stationary Spark Ignition Internal Combustion Engines)</p> <p>(2) National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63 Subparts A (General Provisions) and ZZZZ (Stationary Reciprocating Internal Combustion Engines). These sources have been defined as emergency generators, in accordance with 40 CFR 63 Subpart ZZZZ.</p>

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Condition Number	Conditions
	Therefore, they do not have to meet the requirements of the subpart or of Subpart A of 40 CFR 63 except for the initial notification requirements of 40 CFR 63.6645(d).
7.A.2	The emission control devices and their associated equipment (such as duct work, piping, capture systems, etc.) shall be properly operated and maintained to ensure maximum emission removal efficiency.

B. COMPLIANCE SCHEDULE [SC Regulation 61-62.70.5(c)(8)]

Not applicable at this time.

C. PERMIT SHIELD [SC Regulation 61-62.70.6(f)]

A copy of the “applicability determination” submitted with the Part 70 permit application is included as Attachment C. Compliance with the terms and conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance. The permittee shall also be shielded from any non-applicable requirements as agreed upon by the Department as specified in Attachment C with the exception of the following.

Regulations
SC Regulation 61-62.5 Standard 7
SC Regulation 61-62.5 Standard 7.1

Nothing in the permit shield or in any Part 70 permit shall alter or affect the provisions of Section 303 of the Act, Emergency Orders, of the Clean Air Act; the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance; the applicable requirements of the Acid Rain Program, consistent with Section 408(a) of the Clean Air Act; or the ability of US EPA to obtain information from a source pursuant to Section 114 of the Clean Air Act. In addition, the permit shield shall not apply to emission units in noncompliance at the time of permit issuance, minor permit modifications (SC Regulation 61-62.70.7(e)(2)), group processing of minor permit modifications (SC Regulation 61-62.70.7(e)(3)), or operational flexibility (SC Regulation 61-62.70.7(e)(5)(i)), except as specified in SC Regulation 61-62.70.7(e)(5)(iii).

ATTACHMENT A

Modeled Emission Rates

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The emission rates listed herein are not considered federally enforceable limitations but are used to evaluate ambient air quality impact. Until the Department makes a determination that a facility is causing or contributing to an exceedance of a state or federal ambient air quality standard, increases to these emission rates are not in themselves considered violations of these ambient air quality standards (see conditions 4.2 and 4.3).

STANDARD NO. 2 - MODELED AAQS EMISSION RATES (LBS/HR)					
STACK ID	TSP	PM₁₀	SO₂	NO₂	CO
ID08 – Boiler #2	5.16	5.16	70.78	11.81	2.65
ID09 – Boiler #1	0.59	0.59	1.27	3.59	2.07
ID14 – TOU	1.00	1.00	3.40	1.60	0.4
FACILITY TOTAL	6.75	6.75	75.45	17.00	4.77

STANDARD NO. 7 - MODELED PSD CLASS II INCREMENT EMISSION RATES (LBS/HR)			
STACK ID	Minor Source Baseline Date(s)		
	11/30/1977	11/30/1977	3/7/1989
	PM₁₀	SO₂	NO₂
ID08 – Boiler #2 ⁽²⁾	5.16	70.78	0.00
OLD_BLR2 ⁽²⁾	0.00	-61.93	0.00
ID09 – Boiler #1 ⁽¹⁾	0.00	0.00	0.00
ID14 – TOU	1.00	3.40	1.60
FACILITY TOTAL	6.16	12.25	1.60

1) The original Boiler #1 [700 HP boiler] was replaced by a 600 HP boiler May 17, 1977. This was prior to all baseline dates. Therefore, no emissions should be modeled for Boiler #1 (ID09) for any pollutant for Standard 7.

2) Original Boiler #2 [700 HP boiler] was replaced by an 800 HP boiler in September, 1982. Thus, Boiler #2 (ID08) was modeled with zero NO₂ emissions. For SO₂ and PM₁₀, negative emissions for original Boiler #2 and positive emissions for current Boiler #2 were modeled.

STANDARD NO. 8 - TOXIC AIR POLLUTANTS MODELING ANALYSIS						
POLLUTANT	CAS Number	MODEL USED	Worst-Case Stack*	MAAC Standard (µg/m³)	Modeled Unit Concentration (µg/m³ / lb/hr)	Allowable Emission Rate (lbs/hr)
n-Butylamine	109-73-9	ISCST3	ID01	75.00	4.67	16.07
Chlorine	7782-50-5	ISCST3	ID02	75.00	5.36	14.00
Chloroacetic Acid	79-11-8	ISCST3	ID02	900.00	5.36	167.94

ATTACHMENT A

Modeled Emission Rates

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Chlorobenzene	108-90-7	ISCST3	ID02	1725.00	5.36	321.89
Cresol	1319-77-3	ISCST3	ID02	220.00	5.36	41.05
1,4-Dioxane	123-91-1	ISCST3	ID01	450.00	4.67	96.40
Epichlorohydrin	106-89-8	ISCST3	ID01	50.00	4.67	10.71
Ethanolamine	141-43-5	ISCST3	ID13	200.00	11.98	16.70
Ethyl Chloride	75-00-3	ISCST3	ID03	26400.00	5.12	5157
Ethylene Dichloride	107-06-2	ISCST3	ID13	200.00	11.98	16.70
Ethylene Glycol	107-21-1	ISCST3	ID02	650.00	5.36	121.29
Ethylene Oxide	75-21-8	ISCST3	ID02	10.00	5.36	1.87
Formaldehyde	50-00-0	ISCST3	ID13	15.00	11.98	1.25
Formic Acid	64-18-6	ISCST3	ID13	225.00	11.98	18.79
Hexane	110-54-3	ISCST3	ID13	900.00	11.98	75.15
Hydrochloric Acid	7647-01-0	ISCST3	ID02	175.00	5.36	32.66
Maleic Anhydride	108-31-6	ISCST3	ID02	10.00	5.36	1.87
Methanol	67-56-1	ISCST3	ID13	1310.00	11.98	109.39
Methyl Bromide	74-83-9	ISCST3	ID01	100.00	4.67	21.42
Methyl Chloride	74-87-3	ISCST3	ID02	515.00	5.36	96.10
Methyl Methacrylate	80-62-6	ISCST3	ID02	10250.00	5.36	1912.68
Methylene Chloride	75-09-2	ISCST3	ID01	8750.00	4.67	1874.47
Phenol	108-95-2	ISCST3	ID02	190.00	5.36	35.45
Phosphoric Acid	7664-38-2	ISCST3	ID07	25.00	2.07	12.10
Propylene Dichloride	78-87-5	ISCST3	ID02	1750.00	5.36	326.56
Propylene Oxide	75-56-9	ISCST3	ID02	250.00	5.36	46.65
Sulfuric Acid	7664-93-9	ISCST3	ID02	10.00	5.36	1.87
Toluene	108-88-3	ISCST3	ID02	2000.00	5.36	373.21
Triethylamine	121-44-8	ISCST3	ID02	207.00	5.36	38.63
Xylene	1330-22-7	ISCST3	ID02	4350.00	5.36	811.72

* Toxics were modeled using a unit value (1 lb/hr). Then a maximum allowable emission rate was determined from the worst-case stack for that pollutant for future comparison to emission rates instead of having to re-model each time. Next modeling update will require actual modeling since AERMOD is not considered a true linear model.

ATTACHMENT B

Insignificant Activities

Rhodia, Inc.
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The following table contains a list of activities which are considered insignificant pursuant to South Carolina Regulation 61-62.70.5(c). Sources listed below are not exempt from any otherwise applicable state or federal requirements including, but not limited to, opacity standards, ambient air quality standards, and air toxic standards.

Equip ID	Source Description (Date Listed)	Basis
4152	1000 gallon Tank No. F 4152	SC List B
4175	200 gallon Tank No. F 4175	<1000 lb/yr TAP, <5 TPY Criteria Pollutants
4133	500 gallon Tank No. F 4133	SC List B
HVAC	HVAC Units	SC List A
N/A	Cooling Towers	SC List A
N/A	Vehicles	SC List A
N/A	Generators	SC List A
1850	Effluent Area	<1000 lb/yr TAP, <5 TPY Criteria Pollutants
0191	3000 gallon Retail Gasoline Dispensing Tank	SC List A
0192	500 gallon LPG Tank	SC List A
0193	55 gallon Cold Solvent Cleaning	SC List A
0110	QA/QC Lab	SC List A
0190	Maintenance Welding	SC List A
0199	Soil Bioremediation	<1000 lb/yr TAP, <5 TPY Criteria Pollutants
D839	15,000 gallon Storage Tank (to be used for storage of n-pentane only)	<1000 lb/yr TAP, <5 TPY Criteria Pollutants
ST30	Multi-Purpose 5,100 gallon Product Tank	SC List B
ST31	Multi-Purpose 5,100 gallon Product Tank	SC List B
ST32	10,250 gallon DPHP Product Tank	<1000 lb/yr TAP, <5 TPY Criteria Pollutants
ST33	Multi-Purpose 4,000 gallon Product Tank	SC List B
ST34	Multi-Purpose 4,000 gallon Product Tank	SC List B
ST35	Multi-Purpose 5,100 gallon Product Tank	SC List B
ST36	Multi-Purpose 5,100 gallon Product Tank	SC List B
ST41	Multi-Purpose 5,100 gallon Product Tank	SC List B
ST42	Multi-Purpose 5,100 gallon Product Tank	SC List B
ST43	Multi-Purpose 5,100 gallon Product Tank	SC List B
ST44	Multi-Purpose 5,800 gallon Product Tank	SC List B
ST45	Multi-Purpose 5,800 gallon Product Tank	SC List B
4148	7,850 gallon Storage Tank No. F-4148	<1000 lb/yr TAP, <5 TPY Criteria Pollutants
DP	2,500 gallon Diesel Pump (emergency)	SC List B
2253	1,400 gallon PCU P4 Metering Tank	<1000 lb/yr TAP, <5 TPY Criteria Pollutants
M20	25,200 gallon Tank	<1000 lb/yr TAP, <5 TPY Criteria Pollutants
M21	25,200 gallon Tank	<1000 lb/yr TAP, <5 TPY Criteria Pollutants

ATTACHMENT B

Insignificant Activities

**Rhodia, Inc.
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Equip ID	Source Description (Date Listed)	Basis
M22	25,300 gallon Tank	<1000 lb/yr TAP, <5 TPY Criteria Pollutants
ST1	Two 5,850 gallon compartment Tank No. ½	<1000 lb/yr TAP, <5 TPY Criteria Pollutants
ST3	11,700 gallon VOL Storage Tank	<1000 lb/yr TAP, <5 TPY Criteria Pollutants
ST4	Two 5,850 gallon compartment Tank No. 4/5	<1000 lb/yr TAP, <5 TPY Criteria Pollutants
ST6	5,500 gallon Tank	SC List B
ST7	5,500 gallon Tank	SC List B
ST8	5,500 gallon Tank	<1000 lb/yr TAP, <5 TPY Criteria Pollutants
F812	7,500 gallon Tank	<1000 lb/yr TAP, <5 TPY Criteria Pollutants
F604	30,000 gallon Fuel Tank No. 1	<1000 lb/yr TAP, <5 TPY Criteria Pollutants
F605	30,000 gallon Fuel Tank No. 2	<1000 lb/yr TAP, <5 TPY Criteria Pollutants
PFT3	300 gallon Portable Fuel Tank No. 3	SC List B
F667	10,150 gallon Fuel Tank No. 4	<1000 lb/yr TAP, <5 TPY Criteria Pollutants
F816	16,000 gallon VOL Storage Tank	<1000 lb/yr TAP, <5 TPY Criteria Pollutants

N/A = Not Applicable

ATTACHMENT C

Applicable and Non-Applicable Federal and State Regulations

Rhodia, Inc.
TV-0560-0011
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The following contains the Federal and South Carolina air pollution regulations, which were specified in the Part 70, permit application and determined as applicable and non-applicable by the Department as of the date of this permit issuance. This attachment may be revised by the Department in the event of a change in the nature or emission of pollutants at the source or promulgation of new or revised regulations.

PERMIT SHIELD				
1.Citation	2. Regulation	3. Applicable (Y/N)	4. Standard Reason Indicator	5. Comments (Use when choosing Indicator "J")
40 CFR 60 Subpart A	New Source Performance Standards	Y	I	
40 CFR 60, Subparts B-C, Da, E-J, L-Z, AA-XX, AAA-WWW, AAAA-HHHH	New Source Performance Standards	N	B	
40 CFR 60, Subpart D, Da, Db	New Source Performance Standards	N	C	
40 CFR 60, Subpart Dc	New Source Performance Standards	N	C	
40 CFR 60, Subpart K, Subpart Ka	New Source Performance Standards	N	J	Facility stores #2 and #6 fuel oil which is exempt from regulation by the definition of petroleum liquids
40 CFR 60, Subpart Kb	New Source Performance Standards	Y	I	
Subpart A-FF	National Emission Standards for Hazardous Air Pollutants for Source Categories	N	A	
40 CFR 63, Subparts A-Y, AA-XXX, AAAA-DDDD, EEEE-WWWW, ZZZZ, AAAAA-CCCCC, EEEEE-TTTTT	National Emission Standards for Hazardous Air Pollutants for Source Categories	N	A	
40 CFR 63, Subpart FFFF	National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing	Y	I	
40 CFR 63 Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Source Categories, Boilers	Y	I	
40 CFR 51	Requirements for Preparation, Adoption & Submittal of Implementation Plans	N	J	Applies to state programs not specific facilities

ATTACHMENT C

Applicable and Non-Applicable Federal and State Regulations

Rhodia, Inc.
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PERMIT SHIELD				
1.Citation	2. Regulation	3. Applicable (Y/N)	4. Standard Reason Indicator	5. Comments (Use when choosing Indicator "J")
40 CFR 52	Approval & Promulgation of Implementation Plans	N	J	Applies to state programs not specific facilities
40 CFR 53 ?	Ambient Air Monitoring Reference & Equivalent Methods	N	J	Facility has not submitted an application for determination
40 CFR 54	Prior Notice of Citizen Suits	N	J	Applies to the regulatory agencies, not facilities
40 CFR 55	Outer Continental Shelf	N	J	Facility is not located on the outer continental shelf
40 CFR 56	Regional Consistency	N	J	Applies to state programs not specific facilities
40 CFR 57	Primary Nonferrous Smelter Orders	N	J	(Facility is not a smelter)
40 CFR 58	Ambient Air Quality Surveillance	N	J	Applies to state programs not specific facilities
40 CFR 62	Approval of State Plans for Designated Facilities	N	J	Applies to state programs not specific facilities
40 CFR 64	Compliance Assurance Monitoring	Y	I	
40 CFR 66	Assessment and Collection of Non-Compliance Penalty by EPA	N	J	Does not apply to specific facilities
40 CFR 67	EPA Approval of State Non-Compliance Penalty Program	N	J	Applies to state programs not specific facilities
40 CFR 68	Chemical Accident Prevention Programs	Y	I	
40 CFR 71	Federal Operating Permit Programs	N	J	does not apply since 40 CFR 70 does apply
40 CFR 72	Permit regulations (Acid Rain)	N	J	Applies to facilities that are required to Participate in the Acid Rain Program
40 CFR 73 SO ₂	Allowance System	N	J	Applies to facilities that are required to Participate in the Acid Rain Program
40 CFR 74 SO ₂	Opt-ins	N	J	Applies to facilities that are required to Participate in the Acid Rain Program
40 CFR 75	Continuous Emission Monitoring	N	J	Applies to facilities that are required to Participate in the Acid Rain Program
40 CFR 76	Acid Rain NO _x Emission Reduction Program	N	B	

ATTACHMENT C

Applicable and Non-Applicable Federal and State Regulations

Rhodia, Inc.
TV-0560-0011
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PERMIT SHIELD				
1.Citation	2. Regulation	3. Applicable (Y/N)	4. Standard Reason Indicator	5. Comments (Use when choosing Indicator "J")
40 CFR 77	Excess Emissions	N	J	Applies to facilities that are required to Participate in the Acid Rain Program
40 CFR 79	Registration of Fuel and Fuel Additives	N	B	
40 CRR 80	Regulation of Fuel and Fuel Additives	N	B	
40 CFR 81	Designation of Areas for Air Quality Planning Purposes	N	J	Applies to state programs not specific facilities
40 CFR 85 - 92	Applies to Control of Air Pollution from Mobile Sources such as New and In-use Motor Vehicles and New and In-use Motor Vehicle Engine, Aircraft, Locomotives, etc.	N	B	
SC 62.1	Definitions and General Requirements	Y	I	
SC 62.2	Prohibition of Open Burning	Y	I	
SC 62.3	Air Pollution Episodes	Y	I	
SC 62.4	Hazardous Air Pollution Conditions	Y	I	
SC 62.5 Standard No. 1	Emissions from Fuel Burning Operations	Y	I	
SC 62.5 Standard No. 2	Ambient Air Quality Standards	Y	I	
SC 62.5 Standard No. 3	Waste Combustion and reduction	N	B	
SC 62.5 Standard No. 3.1	Medical Waste Incineration	N	B	
SC 62.5 Standard No. 4, II-VII, IX-XII	Emissions from Process Industries	N	A	
SC 62.5 Standard No. 4, IX	Emissions from Process Industries	Y	I	
SC 62.5 Standard No. 5 Part R	Volatile Organic Compounds	N	B	
SC 62.5 Standard No. 5.1	BACT/LAER Applicable to Volatile Organic Compounds	N	J	Facility has not triggered LAER threshold
SC 62.5 Standard No. 6	Alternative Emissions Limitation Options	N	J	Facility has not applied for alternative emissions limitation options
SC 62.5 Standard No. 7	Prevention of Significant Deterioration	Y	I	
SC 62.5 Standard No. 8	Toxic Air Pollutants	Y	I	
SC 62.6, Section I-II	Control of Fugitive Particulate Matter	N	H	

ATTACHMENT C

Applicable and Non-Applicable Federal and State Regulations

Rhodia, Inc.
TV-0560-0011
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PERMIT SHIELD				
1.Citation	2. Regulation	3. Applicable (Y/N)	4. Standard Reason Indicator	5. Comments (Use when choosing Indicator "J")
SC 62.6, Section III	Control of Fugitive Particulate Matter	N	J	Facility does not have fugitive Particulate Matter
SC 62.7	Good Engineering Practice Stack Height	Y	I	
SC 62.60	New Source Performance Standards	See 40 CFR 60 above		
SC 62.63	National Emission Standards for Hazardous Air Pollutants, Subpart B-Constructed or reconstructed Sources	N	C	
SC 62.68	Chemical Accident Prevention Provisions	Y	I	
SC 62.70	Title V Operating Permit	Y	I	
SC 62.72	Acid Rain	N	B	

STANDARD REASONS	
Indicator	Standard Reason
A	The facility is not in the applicable source category
B	The specified source/process is not present at the facility
C	The facility/unit was constructed or last modified prior to the effective date of the rule
D	Applies to all facilities
E	Rule/Standard proposed, but not final/effective
F	The facility/unit emits pollutants at a level less than established by the rule
G	The facility/unit design capacity or production capacity is less than established by the rule.
H	The facility is not in a special control/non-attainment area.
I	Applicable to facility; requirements are listed in permit application and facility has certified compliance.
J	Other (explain)

September 12, 2008

Rhodia, Inc.
2151 King Street Extension
Charleston, SC 29405

ATTENTION: Ms. Lonnie Gleaton

Dear Ms. Gleaton:

Enclosed please find Pages 2, 19, 20, and 22 of Title V Operating Permit No. TV-0560-0011, which will replace Pages 2, 19, 20, and 22 of the Title V Operating Permit previously issued April 29, 2008. These pages reflect changes made to incorporate an Administrative Amendment requested received September 3, 2008 as indicated on Page 2. Pursuant to the South Carolina Administrative Procedures Act, this permit decision may be appealed in accordance with applicable state law. Please see the enclosed Notice of Appeal Procedure, effective July 01, 2006, for guidelines on appeal submittals.

Please do not hesitate to contact the appropriate staff member, Veronica Barringer, at (803-898-4127) or e-mail at barrinv@dhec.sc.gov promptly if you need any further assistance.

Sincerely,

Elizabeth J. Basil, Director
Engineering Services Division
Bureau of Air Quality

EJB:SZ:pe

Enclosure

cc: Susan Yates, Region 7, Charleston EQC Office
James Purvis, EPA Region IV (via e-mail)
TV Permit File: 0560-0011
Main File: 0560-0011

VIA CERTIFIED MAIL

91 7108 2133 3932 9269 6482

April 29, 2008

Rhodia, Inc.
2151 King Street Extension
Charleston, SC 29405

ATTENTION: Ms. Lonnie Gleaton

Dear Ms. Gleaton:

Enclosed with this letter is your Part 70 Air Quality (Title V Operating) Permit No. TV-0560-0011 that will become effective on July 1, 2008. Please note the conditions and limitations imposed. This permit will be valid through June 30, 2013, unless otherwise provided for by SC Regulation 61-62.70.7(c)(1)(ii). Pursuant to the South Carolina Administrative Procedures Act, this permit decision may be appealed in accordance with applicable state law. Please see the enclosed Notice of Appeal Procedure, effective July 01, 2006, for guidelines on appeal submittals.

Please be advised that the effective date of this permit begins the facility's reporting period under the terms and conditions of this permit. Abbreviated periodic reports and abbreviated Title V Annual Compliance Certifications shall be completed and submitted in accordance with the previous permit's conditions and shall cover the interim period between the previous permit reporting period and the new permit reporting period.

Please examine this new permit carefully for errors or omissions and notify the appropriate staff member, Jane Deaton, (803-898-3868) or e-mail at deatonjg@dhec.sc.gov promptly if any are discovered.

Sincerely,

Elizabeth Basil, Director
Engineering Services Division
Bureau of Air Quality

EJB:JCE:pe

Enclosure

cc: Susan Yates, Region 7, Charleston EQC Office

James Purvis, EPA Region IV (via e-mail)
TV Permit File: 0560-0011
Main File: 0560-0011

Notice of Appeal Procedure

The following procedures are in effect beginning July 1, 2006, pursuant to 2006 Act No. 387:

1. This decision of the S.C. Department of Health and Environmental Control (Department) becomes the final agency decision 15 days after notice of the decision has been mailed to the applicant or respondent, unless a written request for final review is filed with the Department by the applicant, permittee, licensee, or affected person.
2. An applicant, permittee, licensee, or affected person who wishes to appeal this decision must file a written request for final review with the Clerk of the Board at the following address or by facsimile at 803-898-3393.

Clerk of the Board
SC DHEC
2600 Bull Street
Columbia, SC 29201
3. The request for final review should include the following:
 - a. the grounds on which the Department's decision is challenged and the specific changes sought in the decision
 - b. a statement of any significant issues or factors the Board should consider in deciding how to handle the matter
 - c. a copy of the Department's decision or action under review
4. In order to be timely, a request for final review must be received by the Clerk of the Board within 15 days after notice of the decision has been mailed to the applicant or respondent. If the 15th day occurs on a weekend or State holiday, the request is due to be received by the Clerk of the Board on the next working day. The request for final review must be received by the Clerk of the Board by 5:00 p.m. on the date it is due.
5. If a timely request for final review is filed with the Clerk of the Board, the Clerk will provide additional information regarding procedures.
6. The Board of Health and Environmental Control has 60 days from the date of receipt of a request for final review to conduct a final review conference. The conference may be conducted by the Board, its designee, or a committee of three members of the Board appointed by the chair.
7. If a final review conference is not conducted within 60 days, the Department decision becomes the final agency decision, and a party may request a contested case hearing before the Administrative Law Court within 30 days after the deadline for the final review conference.

The above information is provided as a courtesy; parties are responsible for complying with all applicable legal requirements.