

Facility DEC ID: 9291100009

PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 9-2911-00009/02012
Effective Date: 12/02/2022 Expiration Date: 12/01/2032

Permit Issued To: SAINT-GOBAIN CERAMICS & PLASTICS INC
20 MOORES RD
MALVERN, PA 19355-2614

Contact: Steve Lanzone
23 Acheson Dr
Niagara Falls, NY 14303

Facility: SAINT-GOBAIN ADVANCED STRUCTURAL CERAMIC
22-23 ACHESON DR
NIAGARA FALLS, NY 14303-1054

Contact: BRIAN DOWNIE
SAINT-GOBAIN ADVANCED STRUCTURAL CERAMICS
23 Acheson Dr
Niagara Falls, NY 14303-2864
(716) 278-6263

Description:

Saint-Gobain Advanced Structural Ceramics operates a structural ceramics manufacturing facility located in Niagara Falls, NY. The facility manufactures sintered silicon carbide, boron carbide and similar ceramic components. Saint-Gobain submitted a permit application to install and operate a furnace equipped with a thermal oxidizer as well as additional air pollution control devices on certain existing equipment. Based on a revised annual actual emission estimate for 6 NYCRR 201-9.1 Table 1 compound(s), the facility no longer qualifies for an Air Facility Registration and is subject to Air State Facility permitting requirements.

The facility consists of seven (7) emission units:

- A-EMISS: The emission unit consists of sintering operations and operations to extrude green ceramic shapes.
- D-EMISS: This emission unit includes chemical pre-treatment vessels and water wash tanks for the preparation of ceramic material.
- F-EMISS: This emission unit includes blending tanks used to prepare product mixtures for further processing.
- G-EMISS: The emission unit consists of sintering operations and operations to form green ceramic shapes.
- I-EMISS: This emission unit consists of an operation to sinter ceramic material under pressure in a vacuum.

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- J-EMISS: This emission unit consists of operations that handle solid ceramic precursor material within the plant and control dust generated from the process.
- K-EMISS: This emission unit includes dryers to process a wet slurry of the ceramic precursor.
- Q-EMISS: This emission unit includes curing ovens utilized in the shaping process line.

To assure compliance with the offsite annual and short-term guidance concentrations (AGC and SGC) for formaldehyde, Saint-Gobain has accepted the following limitations and requirements on its operations:

- 2,030,000 pounds per 12-month period of solid ceramic precursor material processed in Emission Unit K-EMISS.
- 500 tons per 12-month period of solid ceramic precursor material processed in Emission Unit G-EMISS.
- 450 tons per 12-month period of solid ceramic precursor material processed in Emission Unit A-EMISS.
- 112.5 tons per 12-month period of solid ceramic precursor material processed in Emission Unit A-EMISS, Process 11P.
- 18.6 tons per 12-month period of solid ceramic precursor material processed in Emission Unit I-EMISS, Process 4PR.
- 150,000 pounds per 12-month period of PS B4C solid ceramic precursor material processed in Emission Unit F-EMISS.
- 10,000 pounds per 12-month period of SG solid ceramic precursor material processed in Emission Unit F-EMISS.
- Material processed in Emission Unit I-EMISS Process 4PR may contain no more than 40 ppmw formaldehyde.
- Boron Carbide may not be used in Emission Unit K-EMISS, Process 7PR, Emission Source 7PR02.
- Installation of a regenerative thermal oxidizer (RTO) control device on emission sources in Emission Unit Q-EMISS, Processes 1PR and 8PR. Control device C2354 will control emission sources 8PR01 and 1PR11.
- Installation of two water scrubber control devices on Emission Unit K-EMISS, Process 7PR. Control device C2202 will control emission source 7PR02. Control device C2207 will control emission source 7PR01.

Particulate emissions from the facility are regulated under 6 NYCRR Parts 212-1.6(a) and 212-2.4(b). The facility is restricted from creating emissions which have an average opacity during any six consecutive minutes of 20% or greater. The facility also has a particulate emission limit of 0.050 grains per dry standard cubic foot of exhaust gas. Saint-Gobain will assure compliance with these particulate standards by following standard operating procedures and manufacturer's recommended maintenance requirements. Saint-Gobain is required to conduct daily visible emission observations of all emission points which have the potential to release particulate emissions and taking corrective actions if emissions in excess of the above standards are observed.

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Saint-Gobain’s processes are subject to the requirements of 6 NYCRR Part 212. Saint-Gobain conducted a facility-wide Part 212 analysis. To achieve compliance with Part 212 requirements and to assure compliance with the offsite annual and short-term guidance concentrations (AGC and SGC) for formaldehyde, Saint-Gobain is required to install additional air emission control devices as approved in this permit and has accepted production-based limitations as detailed in the permit conditions. Saint-Gobain will conduct performance tests for the new RTO. A final Part 212 evaluation and Air Dispersion Modeling Report was submitted to the NYSDEC in November 2022 and was approved by the NYSDEC. Any potential exceedance of the throughput limits established in this permit must be reported to DEC before an exceedance occurs and may result in the requirement for Saint-Gobain to reevaluate compliance with Part 212 off-site impact requirements.

Saint-Gobain operates three diesel-powered emergency generators which are exempt from permitting per 6 NYCRR Part 201-3.2(c)(6) but one is subject to 40 CFR Part 63, Subpart ZZZZ (one 603 hp unit installed in 1992) and two are subject to 40 CFR Part 63, Subpart IIII (one 603 hp unit installed in 2007 and one 80 hp unit installed in 2016).

Pursuant to the requirements of Section 7(2) and 7(3) of the Climate Leadership and Community Protection Act (CLCPA), the Department has requested and received information regarding the project’s consistency with the CLCPA.

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

Permit Administrator: LISA M CZECHOWICZ
NYSDEC - REGION 9
700 Delaware Ave
BUFFALO, NY 14209

Authorized Signature: _____ Date: ___ / ___ / ___

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Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the compliance permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in any compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

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Facility Level

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DEC GENERAL CONDITIONS
****** General Provisions ******
GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department
Applicable State Requirement: ECL 19-0305

Item 1.1:

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

Item 1.2:

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

Item 1.3:

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

Condition 2: Relationship of this Permit to Other Department Orders and Determinations
Applicable State Requirement: ECL 3-0301 (2) (m)

Item 2.1:

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

Condition 3: Applications for permit renewals, modifications and transfers
Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 3.2:

The permittee must submit a renewal application at least 180 days before the expiration of permits for Title V and State Facility Permits.

Item 3.3

Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

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Condition 4: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:

The Department reserves the right to exercise all available authority to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

****** Facility Level ******

Condition 5: Submission of application for permit modification or renewal-REGION 9 HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 9 Headquarters
Division of Environmental Permits
700 Delaware Ave.,
Buffalo, NY 14209
(716) 851-7130

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ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY PERMIT

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Facility: SAINT-GOBAIN ADVANCED STRUCTURAL CERAMIC
22-23 ACHESON DR
NIAGARA FALLS, NY 14303-1054

Authorized Activity By Standard Industrial Classification Code:
3297 - NONCLAY REFRACTORIES

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EU=K-EMISS,EP=22002,Proc=7PR,ES=7PR02

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FEDERALLY ENFORCEABLE CONDITIONS

FINAL

**** Facility Level ****

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Sealing - 6 NYCRR 200.5

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation. Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

No person shall operate any air contamination source sealed by the Commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Item C: Maintenance of Equipment - 6 NYCRR 200.7

Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications,

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required to operate such device effectively.

Item D: Unpermitted Emission Sources - 6 NYCRR 201-1.2

(a) Except as otherwise provided by this Part, construction or operation of a new, modified or existing air contamination source without a registration or permit issued pursuant to this Part is prohibited.

(b) If an existing facility or emission source was subject to the permitting requirements of this Part at the time of construction or modification, and the owner or operator failed to apply for a permit or registration as described in this Part, the owner or operator must apply for a permit or registration in accordance with the provisions of this Part. The facility or emission source is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing emission sources.

Item E: Recycling and Salvage - 6 NYCRR 201-1.7

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

Item F: Prohibition of Reintroduction of Collected Contaminants to the Air - 6 NYCRR 201-1.8

No person shall unnecessarily remove, handle, or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

Item G: Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR 201-3.2 (a)

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request.

Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item H: Proof of Eligibility for Sources Defined as Trivial

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Activities - 6 NYCRR 201-3.3 (a)

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item I: Required Emission Tests - 6 NYCRR 202-1.1

An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6 NYCRR Subpart 202-1.

Item J: Open Fires Prohibitions - 6 NYCRR 215.2

Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

Item K: Permit Exclusion - ECL 19-0305

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

Item L: Federally Enforceable Requirements - 40 CFR 70.6 (b)

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All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 1: Visible Emissions Limited
Effective between the dates of 12/02/2022 and 12/01/2032

Applicable Federal Requirement:6 NYCRR 211.2

Item 1.1:

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

Condition 2: Compliance Demonstration
Effective between the dates of 12/02/2022 and 12/01/2032

Applicable Federal Requirement:6 NYCRR 212-1.6 (a)

Item 2.1:

The Compliance Demonstration activity will be performed for the facility:
 The Compliance Demonstration applies to:

Emission Unit: G-EMISS

Emission Unit: J-EMISS

Emission Unit: Q-EMISS

Item 2.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
 DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No person shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source,

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except only the emission of uncombined water. The Department reserves the right to perform or require the performance of an EPA Reference Test Method 9 opacity evaluation at any time during facility operation.

The facility owner or operator shall conduct a visible emissions observation of all emission points specified by this condition once per day while the process is in operation. The facility owner or operator will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard specified below.

The facility owner or operator shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the limit specified (except the emission of uncombined water) are observed for three consecutive operating days from the same emission point, the facility owner or operator will notify the Department of the observations within one business day. The facility owner or operator will also perform an EPA Reference Test Method 9 opacity evaluation analysis of the affected emission point and submit the results to the Department.

Daily records of the visible emissions observations, any follow-up Method 9 observations, investigations, and corrective actions taken are to be maintained on site for a period of at least five years from the date of the record. Such records shall include the date and time of each observation, weather conditions, results of the observation, corrective actions taken, and explanations for days when weather conditions were prohibitive.

All records kept pursuant to this condition must be provided to the Department upon request.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA Reference Test Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 3: Compliance Demonstration
Effective between the dates of 12/02/2022 and 12/01/2032

Applicable Federal Requirement: 6 NYCRR 212-1.7 (a)

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Item 3.1:

The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: G-EMISS Process: 9PR	Emission Source: 9PR04
Emission Unit: G-EMISS Process: 9PR	Emission Source: 9PR05
Emission Unit: G-EMISS Process: 9PR	Emission Source: 9PR06
Emission Unit: G-EMISS Process: 9PR	Emission Source: 9PR09
Emission Unit: G-EMISS Process: 9PR	Emission Source: 9PR12
Emission Unit: G-EMISS Process: 9PR	Emission Source: 9PR34
Emission Unit: G-EMISS Process: 9PR	Emission Source: 9PR44
Emission Unit: G-EMISS Process: 9PR	Emission Source: C2303
Emission Unit: G-EMISS Process: 9PR	Emission Source: C2328
Emission Unit: G-EMISS Process: 9PR	Emission Source: C2335
Emission Unit: G-EMISS Process: 9PR	Emission Source: C2336
Emission Unit: G-EMISS Process: 9PR	Emission Source: C2338
Emission Unit: G-EMISS Process: 9PR	Emission Source: C2339
Emission Unit: G-EMISS Process: 9PR	Emission Source: C2340
Regulated Contaminant(s): CAS No: 000050-00-0	FORMALDEHYDE
CAS No: 0NY998-00-0	VOC

Item 3.2:

Compliance Demonstration shall include the following monitoring:

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Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

To assure compliance with the offsite annual and short-term guidance concentrations (AGC and SGC) for formaldehyde, Saint-Gobain will route emissions from the processes and emission sources cited above to seven cited thermal oxidizers (TO), operating at a minimum overall VOC removal efficiency of 90%.

Within 90 days of permit issuance, Saint-Gobain must submit a schedule for conducting performance testing to verify the VOC removal efficiency of the TO's with Reference Test Method 25A or other acceptable test method during the permit term.

Test protocol(s) shall be submitted to the Regional Air Pollution Control Engineer (RAPCE) at least 60 days prior to the proposed test date(s). DEC staff will be afforded the opportunity to witness the performance test by notifying the RAPCE of the actual test date at least 30 days prior to the test date. A test report shall be submitted to the RAPCE within 60 days of test completion.

Parameter Monitored: VOC CONTENT

Lower Permit Limit: 90 percent reduction by weight

Reference Test Method: 25A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 4: Compliance Demonstration
Effective between the dates of 12/02/2022 and 12/01/2032

Applicable Federal Requirement: 6 NYCRR 212-1.7 (a)

Item 4.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: Q-EMISS	
Process: 1PR	Emission Source: 1PR11

Emission Unit: Q-EMISS	
Process: 1PR	Emission Source: C2354

Emission Unit: Q-EMISS	
Process: 8PR	Emission Source: 8PR01

Emission Unit: Q-EMISS	
Process: 8PR	Emission Source: C2354

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Regulated Contaminant(s):

CAS No: 000050-00-0 FORMALDEHYDE
 CAS No: 0NY998-00-0 VOC

Item 4.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

To assure compliance with the offsite annual and short-term guidance concentrations (AGC and SGC) for formaldehyde, Saint-Gobain will route emissions from the processes and emission sources cited above to a regenerative thermal oxidizer (RTO), identified as emission source/control C2354, operating at a minimum overall VOC removal efficiency of 98%. The RTO must be operational no later than 365 days after the issuance of this permit.

Saint-Gobain must conduct a performance test to verify the VOC removal efficiency of the RTO. The performance test must be conducted in accordance with Reference Test Method 25A or other acceptable test method. Initial performance testing must be completed no later than 180 days after the RTO is installed and deemed commissioned and operational by the supplier or installation vendor. Performance testing shall be repeated at least once every five years, based on the date of the previous test.

Test protocol(s) shall be submitted to the Regional Air Pollution Control Engineer (RAPCE) at least 60 days prior to the proposed test date(s). DEC staff will be afforded the opportunity to witness the performance test by notifying the RAPCE of the actual test date at least 30 days prior to the test date. A test report shall be submitted to the RAPCE within 60 days of test completion.

Parameter Monitored: VOC CONTENT

Lower Permit Limit: 98 percent reduction by weight

Reference Test Method: 25A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 5: Compliance Demonstration
 Effective between the dates of 12/02/2022 and 12/01/2032

Applicable Federal Requirement: 6 NYCRR 212-1.7 (a)

Item 5.1:

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Facility DEC ID: 9291100009

Effective between the dates of 12/02/2022 and 12/01/2032

Applicable Federal Requirement: 6 NYCRR 212-1.7 (b) (1)

Item 6.1:

The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: G-EMISS Process: 9PR	Emission Source: C2303
Emission Unit: G-EMISS Process: 9PR	Emission Source: C2328
Emission Unit: G-EMISS Process: 9PR	Emission Source: C2335
Emission Unit: G-EMISS Process: 9PR	Emission Source: C2336
Emission Unit: G-EMISS Process: 9PR	Emission Source: C2338
Emission Unit: G-EMISS Process: 9PR	Emission Source: C2339
Emission Unit: G-EMISS Process: 9PR	Emission Source: C2340
Emission Unit: G-EMISS Process: 9PR	Emission Source: C2353
Regulated Contaminant(s): CAS No: 000050-00-0	FORMALDEHYDE

Item 6.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Saint-Gobain will operate eight thermal oxidizers associated with the periodic furnaces on the forming line to control emissions of volatile organic compounds (VOC), including formaldehyde, from the processes and emission sources cited above. The thermal oxidizer identified as emission source control C2353 must be installed and operational no later than 365 days after issuance of this permit.

Saint-Gobain must assure compliance with the offsite annual and short-term guidance concentrations (AGC and

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Process: 2PR Emission Source: C2349

Emission Unit: A-EMISS
Process: 2PR Emission Source: C2351

Regulated Contaminant(s):
CAS No: 000050-00-0 FORMALDEHYDE

Item 7.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Saint-Gobain will operate two thermal oxidizers associated with the Process 2PR ovens on the extrusion line to control emissions of volatile organic compounds (VOC), including formaldehyde, from the processes and emission sources cited above.

Saint-Gobain must assure compliance with the offsite annual and short-term guidance concentrations (AGC and SGC) for formaldehyde. In order to demonstrate continuous compliance with the AGC and SGC, Saint-Gobain will continuously monitor the combustion chamber temperature of the afterburners. The temperature will be maintained at or above the manufacturer’s recommended operating temperature of 600 degrees Celsius.

Continuous monitors and data recorders to measure the combustion chamber temperature must be installed, periodically calibrated, and operated at all times when the associated emission control equipment is operating except during any quality assurance and routine maintenance activities. For the purpose of this permit, continuous data recording shall be defined as one data point recorded per minute that the unit in operation. The continuous data recordings and the calibration data shall be maintained on-site for a minimum of five years and be made available for review upon request by DEC.

Parameter Monitored: TEMPERATURE
Lower Permit Limit: 600 degrees Centigrade (or Celsius)
Monitoring Frequency: CONTINUOUS
Averaging Method: MINIMUM - NOT TO FALL BELOW STATED
VALUE - SEE MONITORING DESCRIPTION
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 8: Compliance Demonstration
Effective between the dates of 12/02/2022 and 12/01/2032

Applicable Federal Requirement:6 NYCRR 212-1.7 (b) (1)

Permit ID: 9-2911-00009/02012

Facility DEC ID: 9291100009

Item 8.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: Q-EMISS	
Process: 1PR	Emission Source: 1PR11
Emission Unit: Q-EMISS	
Process: 1PR	Emission Source: C2354
Emission Unit: Q-EMISS	
Process: 8PR	Emission Source: 8PR01
Emission Unit: Q-EMISS	
Process: 8PR	Emission Source: C2354
Regulated Contaminant(s):	
CAS No: 000050-00-0	FORMALDEHYDE

Item 8.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Saint-Gobain will operate a regenerative thermal oxidizer (RTO), identified as emission source/control C2354, to control volatile organic compounds (VOC) emissions, including formaldehyde, from the processes and emission sources associated with curing ovens cited above. The RTO must be operational no later than 365 days after the issuance of this permit.

Saint-Gobain must assure compliance with the offsite annual and short-term guidance concentrations (AGC and SGC) for formaldehyde. In order to demonstrate continuous compliance with the AGC and SGC, Saint-Gobain will continuously monitor the combustion chamber temperature of the RTO. The temperature will be maintained at or above the manufacturer’s recommended operating temperature of 870 degrees Celsius (1600 degrees Fahrenheit), until successful completion of the initial performance test has shown compliance with the minimum required VOC removal efficiency and has been approved by DEC. After approval of the performance test report, the minimum combustion chamber temperature must be maintained at the average temperature recorded during the performance test.

Continuous monitors and data recorders to measure the combustion chamber temperature must be installed,

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60 gallons per minute. A continuous monitor and data recorder to measure the liquid recirculation rate must be installed, periodically calibrated, and operated at all times when the scrubber is operating, except during any quality assurance and routine maintenance activities. For the purpose of this permit, continuous data recording shall be defined as one data point recorded per minute that a unit is in operation.

Saint-Gobain will operate a scrubber liquid conditioning control system and maintain the venturi according to the manufacturer's specifications or by following good engineering practices. Records of maintenance activity shall be made available to Department upon request. Operating instructions must be available at the facility at all times in a location where they can be easily accessed by the operators.

The continuous data recordings, calibration data, and maintenance records shall be maintained on-site for a minimum of five years and be made available for review upon request by DEC.

Parameter Monitored: FLOW RATE
 Lower Permit Limit: 20 gallons per minute
 Upper Permit Limit: 60 gallons per minute
 Monitoring Frequency: CONTINUOUS
 Averaging Method: RANGE - NOT TO FALL OUTSIDE OF STATED RANGE AT ANY TIME
 Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 10: Compliance Demonstration
Effective between the dates of 12/02/2022 and 12/01/2032

Applicable Federal Requirement: 6 NYCRR 212-2.3 (b)

Item 10.1:

The Compliance Demonstration activity will be performed for the facility:
 The Compliance Demonstration applies to:

Emission Unit: K-EMISS	
Process: 7PR	Emission Source: 7PR02
Emission Unit: K-EMISS	
Process: 7PR	Emission Source: C2202
Regulated Contaminant(s):	
CAS No: 000050-00-0	FORMALDEHYDE

Item 10.2:

Compliance Demonstration shall include the following monitoring:

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Facility DEC ID: 9291100009

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

To assure compliance with the offsite annual and short-term guidance concentrations (AGC and SGC) for formaldehyde, emissions from the Process 7PR dryer identified as emission source 7PR02 will be controlled by a wet scrubber identified as emission source/control device C2202. The control device must be operational no later than 365 days after the issuance of this permit.

The scrubber's venturi liquid recirculation rate must be continuously maintained within the design range of 50 to 150 gallons per minute. A continuous monitor and data recorder to measure the liquid recirculation rate must be installed, periodically calibrated, and operated at all times when the scrubber is operating, except during any quality assurance and routine maintenance activities. For the purpose of this permit, continuous data recording shall be defined as one data point recorded per minute that a unit is in operation.

Saint-Gobain will operate a scrubber liquid conditioning control system and maintain the venturi according to the manufacturer's specifications or by following good engineering practices. Records of maintenance activity shall be made available to Department upon request. Operating instructions must be available at the facility at all times in a location where they can be easily accessed by the operators.

The continuous data recordings, calibration data, and maintenance records shall be maintained on-site for a minimum of five years and be made available for review upon request by DEC.

Parameter Monitored: FLOW RATE

Lower Permit Limit: 50 gallons per minute

Upper Permit Limit: 150 gallons per minute

Monitoring Frequency: CONTINUOUS

Averaging Method: RANGE - NOT TO FALL OUTSIDE OF STATED
RANGE AT ANY TIME

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 11: Compliance Demonstration

Effective between the dates of 12/02/2022 and 12/01/2032

Applicable Federal Requirement: 6 NYCRR 212-2.3 (b)

Item 11.1:

The Compliance Demonstration activity will be performed for the facility:

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that a unit is in operation.

The scrubber must be maintained and operated according to the manufacturer's specifications or by following good engineering practices. Records of maintenance activity shall be made available to Department upon request. The manufacturer's specifications and operating instructions must be available at the facility at all times in a location where they can be easily accessed by the operators.

The continuous data recordings, calibration data, and maintenance records shall be maintained on-site for a minimum of five years and be made available for review upon request by DEC.

Parameter Monitored: PH

Lower Permit Limit: 7 pH (STANDARD) units

Upper Permit Limit: 10 pH (STANDARD) units

Monitoring Frequency: CONTINUOUS

Averaging Method: RANGE - NOT TO FALL OUTSIDE OF STATED
RANGE AT ANY TIME

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 14: Compliance Demonstration
Effective between the dates of 12/02/2022 and 12/01/2032

Applicable Federal Requirement: 6 NYCRR 212-2.4 (b)

Item 14.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 14.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emissions from any process emission source for which an application was received by the department after July 1, 1973 are restricted as follows:

No facility owner or operator shall cause or allow emissions of particulate that exceed 0.050 grains per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis, except in instances where determination of permissible emission rate using process weight for a specific source category emitting solid particulate is based upon Table 5 and Table 6 of 6 NYCRR

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212-2.5 (a) and (b).

Parameter Monitored: PARTICULATES
Upper Permit Limit: 0.050 grains per dscf
Reference Test Method: EPA Method 5
Monitoring Frequency: UPON REQUEST OF REGULATORY AGENCY
Averaging Method: Arithmetic average of stack test runs
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 15: Compliance Demonstration
Effective between the dates of 12/02/2022 and 12/01/2032

Applicable Federal Requirement:6 NYCRR 225-1.2 (d)

Item 15.1:
The Compliance Demonstration activity will be performed for the Facility.

Item 15.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners or operators of emission sources that fire distillate oil are limited to a 0.0015 percent sulfur content by weight of the fuel. Compliance with the sulfur-in-fuel limitation is based on fuel vendor receipts. All fuel vendor receipts must be maintained on site or at a Department approved alternative location for a minimum of five years.

Note - Process sources and incinerators must comply with the above requirements on or after July 1, 2023.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DIESEL OIL
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 0.0015 percent by weight
Monitoring Frequency: PER DELIVERY
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 16: Compliance Demonstration
Effective between the dates of 12/02/2022 and 12/01/2032

Applicable Federal Requirement:6 NYCRR 226-1.4 (a)

Item 16.1:
The Compliance Demonstration activity will be performed for the Facility.

Item 16.2:

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Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The following Control requirements must be used by an owner or operator conducting solvent cleaning, if the internal volume of the machine is greater than two gallons:

- (1) a cover which can be easily operated and
- (2) an internal drainage facility (under cover), if practical,
- (3) cleaning solution with a maximum VOC content of 25 grams per liter at 20 degrees Celsius must be used.

This condition does not apply to degreasers as specified in subparagraphs 226-1.4(a)(4)(i)-(iii).

Parameter Monitored: VOC CONTENT

Upper Permit Limit: 25 grams per liter

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 17: Compliance Demonstration
Effective between the dates of 12/02/2022 and 12/01/2032

Applicable Federal Requirement: 6 NYCRR 226-1.5 (a)

Item 17.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 17.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

For cold cleaning degreasing, the clean parts shall be drained at least 15 seconds or until dripping ceases.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DEGREASING UNITS

Parameter Monitored: DURATION

Lower Permit Limit: 15 seconds

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 18: Compliance Demonstration
Effective between the dates of 12/02/2022 and 12/01/2032

Permit ID: 9-2911-00009/02012

Facility DEC ID: 9291100009

Applicable Federal Requirement:40CFR 60, NSPS Subpart IIII

Item 18.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 18.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Pursuant to 40 CFR 60.4205(b) and 60.4202(a)(2), the two emergency engines subject to NSPS Subpart IIII must meet the requirements of 40 CFR 1039, Appendix I and 40 CFR 1039.105, as certified by the engine manufacturer.

Pursuant to 40 CFR 60.4209(a) and 60.4214(b), Saint-Gobain has installed a non-resettable hour meter on each engine and is required to maintain records of the hours of operation for the emergency engines, including categorizing each operating event as emergency, non-emergency, or maintenance/readiness checks. Saint-Gobain must comply with the provisions of 40 CFR 60.4211(f) in order to for the engines to be considered “emergency” under this rule.

Additionally, the emergency engines will fire non-road diesel fuel with a sulfur content less than or equal to 15 parts per million (ppm) and either a minimum cetane index of 40 or a maximum aromatic content, consistent with 40 CFR 4207(b) and 40 CFR 1090.305.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 19: Compliance Demonstration

Effective between the dates of 12/02/2022 and 12/01/2032

Applicable Federal Requirement:40CFR 63.6603(a), Subpart ZZZZ

Item 19.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 19.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an existing emergency and black start compression ignition stationary RICE located at an area source of HAP emissions must comply with the

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following maintenance procedures:

- (1) Change oil and filter every 500 hours of operation or annually, whichever comes first;
- (2) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary;
- (3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

Initial compliance will be demonstrated according to the provisions in 40 CFR 63.6630.

Continuous compliance will then be demonstrated according to 40 CFR 63.6640. The facility must keep records according to the provisions in 40 CFR 63.6655 and submit the notifications and reports listed in 40 CFR 63.6645 and 63.6650.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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Facility DEC ID: 9291100009

STATE ONLY ENFORCEABLE CONDITIONS

****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Emergency Defense - 6 NYCRR 201-1.5

An emergency, as defined in 6 NYCRR subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the department for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) an emergency occurred and that the facility owner or operator can identify the cause(s) of the emergency;

(2) the equipment at the facility was being properly operated and maintained;

(3) during the period of the emergency the facility owner or operator took all reasonable steps to minimize the levels of emissions that exceeded the emission standards, or other requirements in the permit; and

(4) the facility owner or operator notified the department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.

(b) In any enforcement proceeding, the facility owner or operator seeking to establish the occurrence of an emergency has the burden of proof.

(c) This provision is in addition to any emergency or malfunction provision contained in any applicable requirement.

Item B: Public Access to Recordkeeping for Facilities With State Facility Permits - 6 NYCRR 201-1.10 (a)

Where facility owners and/or operators keep records pursuant to compliance with the requirements of 6 NYCRR Subpart 201-5.4, and/or the emission capping requirements of 6 NYCRR Subpart 201-7, the Department will make such records available to the public upon request in accordance

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with 6 NYCRR Part 616 - Public Access to Records.
Facility owners and/or operators must submit the records
required to comply with the request within sixty working
days of written notification by the Department.

Item C: **General Provisions for State Enforceable Permit Terms and
Condition - 6 NYCRR Part 201-5**

Any person who owns and/or operates stationary sources
shall operate and maintain all emission units and any
required emission control devices in compliance with all
applicable Parts of this Chapter and existing laws, and
shall operate the facility in accordance with all
criteria, emission limits, terms, conditions, and
standards in this permit. Failure of such person to
properly operate and maintain the effectiveness of such
emission units and emission control devices may be
sufficient reason for the Department to revoke or deny a
permit.

The owner or operator of the permitted facility must
maintain all required records on-site for a period of five
years and make them available to representatives of the
Department upon request. Department representatives must
be granted access to any facility regulated by this
Subpart, during normal operating hours, for the purpose of
determining compliance with this and any other state and
federal air pollution control requirements, regulations or
law.

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable.

Condition 20: Contaminant List

Effective between the dates of 12/02/2022 and 12/01/2032

Applicable State Requirement: ECL 19-0301

Item 20.1:

Emissions of the following contaminants are subject to contaminant specific requirements in
this permit (emission limits, control requirements or compliance monitoring conditions).

CAS No: 000050-00-0
Name: FORMALDEHYDE

CAS No: 012069-32-8
Name: BORON CARBIDE

CAS No: 0NY075-00-0
Name: PARTICULATES

Permit ID: 9-2911-00009/02012

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CAS No: 0NY998-00-0

Name: VOC

Condition 21: Malfunctions and Start-up/Shutdown Activities
Effective between the dates of 12/02/2022 and 12/01/2032

Applicable State Requirement: 6 NYCRR 201-1.4

Item 21.1:

(a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.

(b) The facility owner or operator shall compile and maintain records of all equipment maintenance and start-up/shutdown activities when they are expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when required by a permit condition or upon request by the department. Such reports shall state whether an exceedance occurred and if it was unavoidable, include the time, frequency and duration of the exceedance, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous monitoring and quarterly reporting requirements need not submit additional reports of exceedances to the department.

(c) In the event that air contaminant emissions exceed any applicable emission standard due to a malfunction, the facility owner or operator shall notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. In addition, the facility owner or operator shall compile and maintain a record of all malfunctions. Such records shall be maintained at the facility for a period of at least five years and must be made available to the department upon request. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, the air contaminants emitted, and the resulting emission rates and/or opacity.

(d) The department may also require the facility owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.

(e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

Condition 22: Emission Unit Definition
Effective between the dates of 12/02/2022 and 12/01/2032

Permit ID: 9-2911-00009/02012

Facility DEC ID: 9291100009

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 22.1:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: A-EMISS

Emission Unit Description:

The emission unit consists of sintering operations and operations to extrude green ceramic shapes.

Building(s): BLDG 100
BLDG 89

Item 22.2:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: D-EMISS

Emission Unit Description:

This emission unit includes pre-treatment vessels and wash tanks for the preparation of material.

Building(s): BLDG 100
BLDG 89

Item 22.3:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: F-EMISS

Emission Unit Description:

This emission unit includes blending tanks used to prepare product mixtures for further processing.

Building(s): BLDG 100

Item 22.4:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: G-EMISS

Emission Unit Description:

The emission unit consists of sintering operations and operations to form green ceramic shapes.

Building(s): BLDG 89

Item 22.5:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: I-EMISS

Emission Unit Description:

This emission unit consists of operations to sinter ceramic materials.

Building(s): BLDG 100

Item 22.6:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: J-EMISS

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Facility DEC ID: 9291100009

Emission Unit Description:

This emission unit consists of operations that handle material and dust generated from the process.

Building(s): BLDG 100
BLDG 89

Item 22.7:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: K-EMISS

Emission Unit Description:

This emission unit includes dryers to process a wet slurry of the ceramic precursor.

Building(s): BLDG 100

Item 22.8:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: Q-EMISS

Emission Unit Description:

This emission unit consists of curing ovens to cure extruded and pressed green ceramic materials.

Building(s): BLDG 89

Condition 23: Renewal deadlines for state facility permits
Effective between the dates of 12/02/2022 and 12/01/2032

Applicable State Requirement:6 NYCRR 201-5.2 (c)

Item 23.1:

The owner or operator of a facility having an issued state facility permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

Condition 24: Compliance Demonstration
Effective between the dates of 12/02/2022 and 12/01/2032

Applicable State Requirement:6 NYCRR 201-5.3 (c)

Item 24.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 24.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any reports or submissions required by this permit shall be submitted to the Regional Air Pollution Control Engineer (RAPCE) at the following address:

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Facility DEC ID: 9291100009

Division of Air Resources
NYS Dept. of Environmental Conservation
Region 9
700 Delaware Ave.,
Buffalo, N.Y. 14209

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 25: Air pollution prohibited
Effective between the dates of 12/02/2022 and 12/01/2032

Applicable State Requirement:6 NYCRR 211.1

Item 25.1:

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

Condition 26: Compliance Demonstration
Effective between the dates of 12/02/2022 and 12/01/2032

Applicable State Requirement:6 NYCRR 212-2.1

Item 26.1:

The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: K-EMISS

Regulated Contaminant(s):
CAS No: 000050-00-0 FORMALDEHYDE

Item 26.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

To achieve offsite formaldehyde concentrations below the AGC/SGC, the facility shall limit the throughput of solid ceramic precursor material processed in Emission Unit K-EMISS to 2,030,000 pounds in any 12-month period.

Throughput of solid ceramic precursor must be tracked on a rolling 12-month basis. Saint-Gobain must submit an annual

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Facility DEC ID: 9291100009

report for each calendar year by January 30th of the subsequent year showing compliance with the throughput limit. The report must include monthly throughput amounts and total throughput amounts for each rolling 12-month period throughout the calendar year. Records must be maintained onsite for a minimum of five years.

Work Practice Type: PROCESS MATERIAL THRUPUT
 Process Material: MATERIAL
 Upper Permit Limit: 2030000 pounds
 Monitoring Frequency: MONTHLY
 Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2023.
 Subsequent reports are due every 12 calendar month(s).

Condition 27: Compliance Demonstration
Effective between the dates of 12/02/2022 and 12/01/2032

Applicable State Requirement: 6 NYCRR 212-2.2

Item 27.1:
 The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
 CAS No: 000050-00-0 FORMALDEHYDE

Item 27.2:
 Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
 Monitoring Description:

To achieve compliance with Part 212 requirements to keep offsite formaldehyde concentrations below the AGC/SGC, Saint-Gobain is required to install additional air emission control devices as approved in this permit, and has accepted production-based limitations as detailed in the permit conditions. A final Part 212 evaluation and Air Dispersion Modeling Report was submitted to the NYSDEC in November 2022 and was approved by the NYSDEC.

Any potential exceedance of the throughput limits established in this permit must be reported to DEC before an exceedance occurs and may result in the requirement for Saint-Gobain to reevaluate compliance with Part 212 off-site impact requirements.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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**** Emission Unit Level ****

Condition 28: Emission Point Definition By Emission Unit
 Effective between the dates of 12/02/2022 and 12/01/2032

Applicable State Requirement: 6 NYCRR Subpart 201-5

Item 28.1:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: A-EMISS

Emission Point: 23004
 Height (ft.): 75 Diameter (in.): 21
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 89

Emission Point: 23031
 Height (ft.): 40 Diameter (in.): 6
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 89

Emission Point: 23034
 Height (ft.): 62 Diameter (in.): 15
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 89

Emission Point: 23049
 Height (ft.): 62 Diameter (in.): 9
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 89

Emission Point: 23051
 Height (ft.): 45 Diameter (in.): 14
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 89

Item 28.2:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: D-EMISS

Emission Point: 22003
 Height (ft.): 61 Diameter (in.): 8
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 100

Emission Point: 22012
 Height (ft.): 40 Diameter (in.): 13
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 100

Item 28.3:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: F-EMISS

Permit ID: 9-2911-00009/02012

Facility DEC ID: 9291100009

Emission Point: 22009
 Height (ft.): 40 Diameter (in.): 13
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 100

Item 28.4:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: G-EMISS

Emission Point: 23002
 Height (ft.): 39 Diameter (in.): 18
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 89

Emission Point: 23003
 Height (ft.): 46 Diameter (in.): 8
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 89

Emission Point: 23028
 Height (ft.): 41 Diameter (in.): 6
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 89

Emission Point: 23035
 Height (ft.): 42 Diameter (in.): 6
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 89

Emission Point: 23036
 Height (ft.): 42 Diameter (in.): 6
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 89

Emission Point: 23038
 Height (ft.): 50 Diameter (in.): 15
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 89

Emission Point: 23039
 Height (ft.): 60 Diameter (in.): 15
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 89

Emission Point: 23040
 Height (ft.): 33 Diameter (in.): 6
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 89

Emission Point: 23053
 Height (ft.): 38 Diameter (in.): 24
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 89

Item 28.5:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: I-EMISS

Emission Point: 22017
 Height (ft.): 40 Diameter (in.): 2

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NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 100

Item 28.6:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: J-EMISS

Emission Point: 22001
 Height (ft.): 45 Diameter (in.): 10
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 100

Emission Point: 22018
 Height (ft.): 15 Diameter (in.): 17
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 100

Emission Point: 23001
 Height (ft.): 40 Diameter (in.): 9
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 89

Emission Point: 23005
 Height (ft.): 42 Diameter (in.): 24
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 89

Item 28.7:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: K-EMISS

Emission Point: 22002
 Height (ft.): 54 Diameter (in.): 12
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 100

Emission Point: 22007
 Height (ft.): 54 Diameter (in.): 12
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 100

Item 28.8:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: Q-EMISS

Emission Point: 23054
 Height (ft.): 50 Diameter (in.): 16
 NYTMN (km.): 4777.555 NYTME (km.): 171.132 Building: BLDG 89

Condition 29: Process Definition By Emission Unit
 Effective between the dates of 12/02/2022 and 12/01/2032

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 29.1:

This permit authorizes the following regulated processes for the cited Emission Unit:

Permit ID: 9-2911-00009/02012

Facility DEC ID: 9291100009

Emission Unit: A-EMISS
Process: 11P Source Classification Code: 3-05-008-99
Process Description: Furnaces that sinter shaped ceramic.

Emission Source/Control: C2304 - Control
Control Type: FABRIC FILTER

Emission Source/Control: C2334 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 11P03 - Process

Emission Source/Control: 11P12 - Process

Item 29.2:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: A-EMISS
Process: 2PR Source Classification Code: 3-05-008-99
Process Description: Ovens to thermally treat ceramics.

Emission Source/Control: C2349 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: C2351 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: 2PR01 - Process

Emission Source/Control: 2PR02 - Process

Item 29.3:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: D-EMISS
Process: 3PR Source Classification Code: 3-05-008-99
Process Description: Treatment process to prepare ceramic materials.

Emission Source/Control: C2203 - Control
Control Type: WET SCRUBBER

Emission Source/Control: 3PR01 - Process

Emission Source/Control: 3PR02 - Process

Item 29.4:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: F-EMISS
Process: 6PR Source Classification Code: 3-05-008-05
Process Description:

Permit ID: 9-2911-00009/02012

Facility DEC ID: 9291100009

Operations for formulation and production of precursor ceramic slurry.

Emission Source/Control: 6PR06 - Process

Item 29.5:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: G-EMISS
Process: 9PR Source Classification Code: 3-05-008-99
Process Description: Furnaces that sinter ceramic.

Emission Source/Control: C2303 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: C2328 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: C2335 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: C2336 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: C2338 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: C2339 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: C2340 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: C2353 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: 9PR04 - Process

Emission Source/Control: 9PR05 - Process

Emission Source/Control: 9PR06 - Process

Emission Source/Control: 9PR09 - Process

Emission Source/Control: 9PR12 - Process

Emission Source/Control: 9PR23 - Process

Emission Source/Control: 9PR34 - Process

Emission Source/Control: 9PR44 - Process

Permit ID: 9-2911-00009/02012

Facility DEC ID: 9291100009

Item 29.6:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: I-EMISS
Process: 4PR Source Classification Code: 3-05-008-99
Process Description: Furnace used to sinter ceramics.

Emission Source/Control: 4PR99 - Process

Item 29.7:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: J-EMISS
Process: 12P Source Classification Code: 3-05-008-99
Process Description:
Material handling and machining of ceramic forms and shapes.

Emission Source/Control: C2218 - Control
Control Type: FABRIC FILTER

Emission Source/Control: C2301 - Control
Control Type: FABRIC FILTER

Emission Source/Control: C2305 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 12PR2 - Process

Emission Source/Control: 12PR7 - Process

Emission Source/Control: 12PR8 - Process

Item 29.8:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: J-EMISS
Process: 5PR Source Classification Code: 3-05-008-99
Process Description: Central vacuum cleaning system for housekeeping.

Emission Source/Control: C2201 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 5PR23 - Process

Item 29.9:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: K-EMISS
Process: 7PR Source Classification Code: 3-05-008-10
Process Description:
Dryers used to prepare a slurry of ceramic material.

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Emission Source/Control: C2202 - Control
Control Type: WET SCRUBBER

Emission Source/Control: C2207 - Control
Control Type: WET SCRUBBER

Emission Source/Control: 7PR01 - Process

Emission Source/Control: 7PR02 - Process

Item 29.10:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: Q-EMISS
Process: 1PR Source Classification Code: 3-05-008-13
Process Description: Curing ovens utilized in the shaping process line.

Emission Source/Control: C2354 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: 1PR11 - Process

Item 29.11:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: Q-EMISS
Process: 8PR Source Classification Code: 3-05-008-13
Process Description: Curing oven utilized in the shaping process line.

Emission Source/Control: C2354 - Control
Control Type: THERMAL OXIDATION

Emission Source/Control: 8PR01 - Process

Condition 30: Compliance Demonstration
Effective between the dates of 12/02/2022 and 12/01/2032

Applicable State Requirement: 6 NYCRR 212-2.1

Item 30.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: A-EMISS

Regulated Contaminant(s):
CAS No: 000050-00-0 FORMALDEHYDE

Item 30.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC

Permit ID: 9-2911-00009/02012

Facility DEC ID: 9291100009

OPERATIONS

Monitoring Description:

To assure compliance with the offsite annual and short-term guidance concentrations (AGC and SGC) for formaldehyde, the facility shall limit the throughput of solid ceramic precursor material processed in this emission unit to 450 tons in any 12-month period.

Throughput of solid ceramic precursor must be tracked on a rolling 12-month basis. Saint-Gobain must submit an annual report for each calendar year by January 30th of the subsequent year showing compliance with the throughput limit. The report must include monthly throughput amounts and total throughput amounts for each rolling 12-month period throughout the calendar year. Records must be maintained onsite for a minimum of five years.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: MATERIAL

Upper Permit Limit: 450 tons

Monitoring Frequency: MONTHLY

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2023.

Subsequent reports are due every 12 calendar month(s).

Condition 31: Compliance Demonstration
Effective between the dates of 12/02/2022 and 12/01/2032

Applicable State Requirement:6 NYCRR 212-2.1

Item 31.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: A-EMISS

Process: 11P

Regulated Contaminant(s):

CAS No: 000050-00-0 FORMALDEHYDE

Item 31.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
 OPERATIONS

Monitoring Description:

To assure compliance with the offsite annual and short-term guidance concentrations (AGC and SGC) for formaldehyde, the facility shall limit the throughput of

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Facility DEC ID: 9291100009

solid ceramic precursor material in Process 11P, which has not been treated in Process 2PR, to 112.5 tons in any 12-month period.

Throughput of solid ceramic precursor must be tracked on a rolling 12-month basis. Saint-Gobain must submit an annual report for each calendar year by January 30th of the subsequent year showing compliance with the throughput limit. The report must include monthly throughput amounts and total throughput amounts for each rolling 12-month period throughout the calendar year. Records must be maintained onsite for a minimum of five years.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: MATERIAL

Upper Permit Limit: 112.5 tons

Monitoring Frequency: MONTHLY

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2023.

Subsequent reports are due every 12 calendar month(s).

Condition 32: Compliance Demonstration
Effective between the dates of 12/02/2022 and 12/01/2032

Applicable State Requirement:6 NYCRR 212-2.1

Item 32.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: F-EMISS

Regulated Contaminant(s):

CAS No: 000050-00-0 FORMALDEHYDE

Item 32.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

To assure compliance with the offsite annual and short-term guidance concentrations (AGC and SGC) for formaldehyde, the facility shall limit the production of SG solid ceramic precursor material to 10,000 pounds in any 12-month period, measured prior to introduction into the dryers.

Production of solid ceramic precursor must be tracked on a rolling 12-month basis. Saint-Gobain must submit an annual report for each calendar year by January 30th of the

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subsequent year showing compliance with the production limit. The report must include monthly production amounts and total production amounts for each rolling 12-month period throughout the calendar year. Records must be maintained onsite for a minimum of five years. Records must be maintained onsite for a minimum of five years.

Work Practice Type: PROCESS MATERIAL THRUPUT
 Process Material: MATERIAL
 Upper Permit Limit: 10000 pounds
 Monitoring Frequency: MONTHLY
 Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2023.
 Subsequent reports are due every 12 calendar month(s).

Condition 33: Compliance Demonstration
Effective between the dates of 12/02/2022 and 12/01/2032

Applicable State Requirement:6 NYCRR 212-2.1

Item 33.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: F-EMISS

Regulated Contaminant(s):
 CAS No: 000050-00-0 FORMALDEHYDE

Item 33.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

To assure compliance with the offsite annual and short-term guidance concentrations (AGC and SGC) for formaldehyde, the facility shall limit the production of PSB4C solid ceramic precursor material to 150,000 pounds in any 12-month period, measured prior to introduction into the dryers.

Production of solid ceramic precursor must be tracked on a rolling 12-month basis. Saint-Gobain must submit an annual report for each calendar year by January 30th of the subsequent year showing compliance with the throughput limit. The report must include monthly throughput amounts and total throughput amounts for each rolling 12-month period throughout the calendar year. Records must be maintained onsite for a minimum of five years.

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Work Practice Type: PROCESS MATERIAL THRUPUT
 Process Material: MATERIAL
 Upper Permit Limit: 150000 pounds
 Monitoring Frequency: MONTHLY
 Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2023.
 Subsequent reports are due every 12 calendar month(s).

Condition 34: Compliance Demonstration
Effective between the dates of 12/02/2022 and 12/01/2032

Applicable State Requirement: 6 NYCRR 212-2.1

Item 34.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: G-EMISS

Regulated Contaminant(s):
 CAS No: 000050-00-0 FORMALDEHYDE

Item 34.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

To assure compliance with the offsite annual and short-term guidance concentrations (AGC and SGC) for formaldehyde, the facility shall limit the throughput of solid ceramic precursor material processed in this Emission Unit to 500 tons in any 12-month period.

Throughput of solid ceramic precursor must be tracked on a rolling 12-month basis. Saint-Gobain must submit an annual report for each calendar year by January 30th of the subsequent year showing compliance with the throughput limit. The report must include monthly throughput amounts and total throughput amounts for each rolling 12-month period throughout the calendar year. Records must be maintained onsite for a minimum of five years.

Work Practice Type: PROCESS MATERIAL THRUPUT
 Process Material: MATERIAL
 Upper Permit Limit: 500 tons
 Monitoring Frequency: MONTHLY
 Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.

Permit ID: 9-2911-00009/02012

Facility DEC ID: 9291100009

The initial report is due 1/30/2023.
 Subsequent reports are due every 12 calendar month(s).

Condition 35: Compliance Demonstration
Effective between the dates of 12/02/2022 and 12/01/2032

Applicable State Requirement:6 NYCRR 212-2.1

Item 35.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: I-EMISS
 Process: 4PR

Regulated Contaminant(s):
 CAS No: 000050-00-0 FORMALDEHYDE

Item 35.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
 DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

All material processed within Process 4PR shall contain no more than 40 parts per million by weight of formaldehyde. Saint-Gobain will analyze representative material processed in Process 4PR for formaldehyde on an annual basis and prior to introduction of any raw materials that have not previously been used in the process.

Documentation showing formaldehyde content shall be retained on site for five years and made available to DEC upon request.

Parameter Monitored: FORMALDEHYDE
 Upper Permit Limit: 40 parts per million by weight
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION
 Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 36: Compliance Demonstration
Effective between the dates of 12/02/2022 and 12/01/2032

Applicable State Requirement:6 NYCRR 212-2.1

Item 36.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: I-EMISS

Permit ID: 9-2911-00009/02012

Facility DEC ID: 9291100009

Process: 4PR

Regulated Contaminant(s):

CAS No: 000050-00-0 FORMALDEHYDE

Item 36.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

To assure compliance with the offsite annual and short-term guidance concentrations (AGC and SGC) for formaldehyde, the facility shall limit the throughput of solid ceramic precursor material processed in this Process 4PR to 18.6 tons in any 12-month period.

Throughput of solid ceramic precursor must be tracked on a rolling 12-month basis. Saint-Gobain must submit an annual report for each calendar year by January 30th of the subsequent year showing compliance with the throughput limit. The report must include monthly throughput amounts and total throughput amounts for each rolling 12-month period throughout the calendar year. Records must be maintained onsite for a minimum of five years.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: MATERIAL

Upper Permit Limit: 18.6 tons

Monitoring Frequency: MONTHLY

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2023.

Subsequent reports are due every 12 calendar month(s).

Condition 37: Compliance Demonstration

Effective between the dates of 12/02/2022 and 12/01/2032

Applicable State Requirement:6 NYCRR 212-2.1

Item 37.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: K-EMISS

Emission Point: 22002

Process: 7PR

Emission Source: 7PR02

Regulated Contaminant(s):

CAS No: 012069-32-8 BORON CARBIDE

Item 37.2:

Compliance Demonstration shall include the following monitoring:

Permit ID: 9-2911-00009/02012

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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Saint-Gobain must assure compliance with the offsite annual and short-term guidance concentrations (AGC and SGC) for boron carbide. In order to demonstrate continuous compliance with the AGC and SGC, Saint-Gobain shall not process any materials containing boron carbide in emission source 7PR02.

Material usage records shall be maintained on-site for a minimum of five years and be made available for review upon request by DEC.

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL
CHANGE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

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