

Facility DEC ID: 640300002

**PERMIT
Under the Environmental Conservation Law (ECL)**

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
 Permit ID: 6-4030-00002/00066
 Mod 0 Effective Date: 03/04/2021 Expiration Date: 03/01/2026
 Mod 1 Effective Date: 12/07/2021 Expiration Date: 03/01/2026

Permit Issued To: CORNING INCORPORATED
 HP-ME-02-06
 CORNING, NY 14831

Contact: JOHN NOVOTNY
 Corning, Inc.
 HP-ME-0301
 Corning, NY 14831
 (607) 974-4868

Facility: CORNING INCORPORATED - CANTON PLANT
 MCADOO RD|334 CO RTE 16
 CANTON, NY 13617

Contact: AMANDA RICHARDSON
 EHS Mgr Corning Inc
 334 Co Rte 16
 Canton, NY 13617
 (315) 379-3265

Description:
 The Department has drafted a Title V permit modification pursuant to Article 19 (Air Pollution Control) of the Environmental Conservation Law and Title V of the Federal Clean Air Act Amendments for the existing facility located at Corning Incorporated - Canton Plant, Canton, New York. The facility produces several types of high purity specialty glass. The primary SIC code for the facility is: 3229 - pressed and blown glass. The facility consists of Emission Units: U-00001, U-00002, U-00004, U-00005 and U-00006, U-0007, U-00AIR. The facility is a major emitter for Nitrogen Oxides.

Due to increased customer demand for specialty products, the Corning facility intends to increase production through the expansion of the specialty glass manufacturing capacity. The proposed project will consist of adding new glass furnaces, gas fired annealing furnaces, a new electronic calcining furnace and new raw material storage tanks. The project will be subjected to PSD for NO₂ and NNSR for NO_x (as an ozone precursor). The furnaces will utilize oxy-fuel firing as LAER for NO_x and the annealers will use FGR and good combustion practices. As a result of this project, Process 100 is split into Processes 100 and 125.

Please note that Corning Canton intends to use 316.44 tons of NO_x ERCs as required for offsets for this project. 187.03 tons of NO_x ERCs will come from the shutdown of Corning Inc – Fallbrook Plant that were approved by NYSDEC on July 18, 2003. The remainder of required

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ERCs, will be secured by Corning in the amount of 129.41 tons from Holcim Inc.

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

In accordance with 6NYCRR Part 621.5(d)(9) and 201-6.4(c), the Administrator of the Environmental Protection Agency (EPA) has the authority to bar issuance of any Title V Facility Permit if it is determined not to be in compliance with applicable requirements of the Clean Air Act or 6NYCRR Part 201. After the public comment period, the EPA will be provided a proposed permit and will have an additional 45 day period for review. If EPA does not raise any objection, the Department will issue the permit. The application and Draft Title V Facility Permit are available in the Region 6 NYS DEC office in Watertown, New York.

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: JESSICA J HART
NYSDEC - REGION 6
317 WASHINGTON ST
WATERTOWN, NY 13601

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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- 6 4 Permit modifications, suspensions or revocations by the Department

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- 6 5 Submission of application for permit modification or renewal-REGION 6 HEADQUARTERS

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DEC GENERAL CONDITIONS

**** General Provisions ****

For the purpose of your Title V permit, the following section contains state-only enforceable terms and conditions.

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

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submitted prior to actual transfer of ownership.

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 6
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 6 Headquarters
Division of Environmental Permits
State Office Building, 317 Washington Street
Watertown, NY 13601-3787
(315) 785-2245

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Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

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HP-ME-02-06
CORNING, NY 14831

Facility: CORNING INCORPORATED - CANTON PLANT
MCADOO RD|334 CO RTE 16
CANTON, NY 13617

Authorized Activity By Standard Industrial Classification Code:
3229 - PRESSED AND BLOWN GLASS, NEC

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- 50 1-8 6 NYCRR Subpart 231-6: Compliance Certification
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- 53 1-10 6 NYCRR Subpart 231-6: Compliance Certification
- 53 49 6 NYCRR 231-6.5: Compliance Certification
- 54 1-11 6 NYCRR 231-6.6: Compliance Certification
- 55 52 40CFR 60, NSPS Subpart III: Applicability
- 55 53 40CFR 63, Subpart ZZZZ: Applicability
- 55 1-12 40 CFR Part 64: Compliance Certification
- Emission Unit Level**
- 57 55 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 60 56 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

EU=0-00006

- 71 *57 6 NYCRR Subpart 201-7: Capping Monitoring Condition

EU=U-00001

- 72 1-13 6 NYCRR 231-6.5: Compliance Certification

EU=U-00001,Proc=100

- 73 1-14 6 NYCRR 231-6.5: Compliance Certification

EU=U-00001,Proc=125,ES=S0006

- 74 1-15 6 NYCRR 231-6.5: Compliance Certification
- 75 1-16 6 NYCRR 231-11.2 (b): Compliance Certification
- 76 1-17 6 NYCRR 231-11.2 (c): Compliance Certification

EU=U-00001,Proc=150,ES=S0070

- 78 1-18 6 NYCRR 231-6.5: Compliance Certification

EU=U-00001,Proc=175

- 78 1-19 6 NYCRR 231-6.5: Compliance Certification

EU=U-00007,Proc=705

- 79 1-20 6 NYCRR 231-6.5: Compliance Certification

EU=U-00AIR

- 80 1-21 6 NYCRR Subpart 227-2: Compliance Certification

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- 82 59 ECL 19-0301: Contaminant List
- 84 60 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 84 1-22 6 NYCRR 201-1.4: Malfunctions and Start-up/Shutdown Activities
- 85 61 6 NYCRR 201-6.5 (a): CLCPA Applicability
- 86 62 6 NYCRR 211.1: Air pollution prohibited
- 86 1-23 6 NYCRR 212-2.1 (a): Compliance Demonstration
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- 91 65 6 NYCRR 212-2.3 (b): Compliance Demonstration
- 92 66 6 NYCRR 212-2.3 (b): Compliance Demonstration

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- 93 1-24 6 NYCRR 212-2.4 (b): Compliance Demonstration
- 95 1-25 6 NYCRR 212-2.4 (b): Compliance Demonstration
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- 95 1-26 6 NYCRR 212-2.4 (b): Compliance Demonstration
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- 97 1-27 6 NYCRR 212-2.1 (a): Compliance Demonstration
- 98 1-28 6 NYCRR 212-2.1 (a): Compliance Demonstration
- 98 1-29 6 NYCRR 212-2.3 (b): Compliance Demonstration
- 99 1-30 6 NYCRR 212-2.3 (b): Compliance Demonstration

NOTE: * preceding the condition number indicates capping.

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FEDERALLY ENFORCEABLE CONDITIONS

Renewal 3/Mod 1/FINAL

**** Facility Level ****

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

The items listed below are not subject to the annual compliance certification requirements under Title V. Permittees may also have other obligations under regulations of general applicability.

Item A: Public Access to Recordkeeping for Title V Facilities - 6 NYCRR 201-1.10 (b)

The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6 NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.

Item B: Timely Application for the Renewal of Title V Permits - 6 NYCRR 201-6.2 (a) (4)

Owners and/or operators of facilities having an issued Title V 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.

Item C: Certification by a Responsible Official - 6 NYCRR 201-6.2 (d) (12)

Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Item D: Requirement to Comply With All Conditions - 6 NYCRR 201-6.4 (a) (2)

The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

Item E: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR 201-6.4 (a) (3)

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and

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reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Item F: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.4 (a) (5)

It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.

Item G: Property Rights - 6 NYCRR 201-6.4 (a) (6)

This permit does not convey any property rights of any sort or any exclusive privilege.

Item H: Severability - 6 NYCRR 201-6.4 (a) (9)

If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

Item I: Permit Shield - 6 NYCRR 201-6.4 (g)

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V

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facility for any violation of applicable requirements prior to or at the time of permit issuance;

iii. The applicable requirements of Title IV of the Act;

iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

Item J: Reopening for Cause - 6 NYCRR 201-6.4 (i)

This Title V permit shall be reopened and revised under any of the following circumstances:

i. When additional applicable requirements under the act become applicable to a title V facility with a remaining permit term of three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. 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 by the department pursuant to the provisions of section 201- 6.6 of this Subpart.

ii. The Department or the Administrator 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.

iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.

iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

Proceedings to reopen and issue Title V facility permits shall follow the same procedures as apply to initial permit issuance but shall affect only those parts of the permit for which cause to reopen exists.

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit

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is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

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)

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.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS
SUBJECT TO ANNUAL CERTIFICATIONS AT ALL TIMES**

The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements at all times.

**Condition 1: Acceptable Ambient Air Quality
Effective between the dates of 03/04/2021 and 03/01/2026**

Applicable Federal Requirement: 6 NYCRR 200.6**Item 1.1:**

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

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contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Condition 2: Fees
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (7)

Item 2.1:

The owner and/or operator of a stationary source shall pay fees to the Department consistent with the fee schedule authorized by ECL 72-0303.

Condition 3: Recordkeeping and Reporting of Compliance Monitoring
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 201-6.4 (c)

Item 3.1:

The following information must be included in any required compliance monitoring records and reports:

- (i) The date, place, and time of sampling or measurements;
- (ii) The date(s) analyses were performed;
- (iii)The company or entity that performed the analyses;
- (iv) The analytical techniques or methods used including quality assurance and quality control procedures if required;
- (v) The results of such analyses including quality assurance data where required; and
- (vi) The operating conditions as existing at the time of sampling or measurement.

Any deviation from permit requirements must be clearly identified in all records and reports. Reports must be certified by a responsible official, consistent with Section 201-6.2 of Part 201.

Condition 4: Records of Monitoring, Sampling, and Measurement
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 201-6.4 (c) (2)

Item 4.1:

Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements found in applicable regulations. Records of all monitoring data and support information must be retained for a period of at least 5 years from the date of the monitoring, sampling, 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

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reports required by the permit.

Condition 5: Compliance Certification
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement: 6 NYCRR 201-6.4 (c) (3) (ii)

Item 5.1:

The Compliance Certification activity will be performed for the Facility.

Item 5.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To meet the requirements of this facility permit with respect to reporting, the permittee must:

Submit reports of any required monitoring at a minimum frequency of every 6 months, based on a calendar year reporting schedule. These reports shall be submitted to the Department within 30 days after the end of a reporting period. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by the responsible official for this facility.

Notify the Department and report permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations shall be submitted to the permitting authority based on the following schedule:

- (1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
- (2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
- (3) For all other deviations from permit requirements,

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the report shall be contained in the 6 month monitoring report required above.

(4) This permit may contain a more stringent reporting requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

If above paragraphs (1) or (2) are met, the source must notify the permitting authority by telephone during normal business hours at the Regional Office of jurisdiction for this permit, attention Regional Air Pollution Control Engineer (RAPCE) according to the timetable listed in paragraphs (1) and (2) of this section. For deviations and incidences that must be reported outside of normal business hours, on weekends, or holidays, the DEC Spill Hotline phone number at 1-800-457-7362 shall be used. A written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.2(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraphs (1) and (2) of this section must also be identified in the 6 month monitoring report required above.

The provisions of 6 NYCRR 201-1.4 shall apply if the permittee seeks to have a violation excused unless otherwise limited by regulation. In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets. Notwithstanding any recordkeeping and reporting requirements in 6 NYCRR 201-1.4, reports of any deviations shall not be on a less frequent basis than the reporting periods described in paragraphs (1) and (4) above.

In the case of any condition contained in this permit with a reporting requirement of "Upon request by regulatory agency" the permittee shall include in the semiannual report, a statement for each such condition that the monitoring or recordkeeping was performed as required or requested and a listing of all instances of deviations from these requirements.

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual

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report a summary of the testing results and shall indicate whether or not the Department or EPA has approved the results.

All semiannual reports may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office) and one copy shall be sent to the Administrator (or his or her representative). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.4(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2021.
Subsequent reports are due every 6 calendar month(s).

Condition 6: Compliance Certification
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement: 6 NYCRR 201-6.4 (e)

Item 6.1:

The Compliance Certification activity will be performed for the Facility.

Item 6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

Requirements for compliance certifications with terms and conditions contained in this facility permit include the following:

- i. Compliance certifications shall contain:
 - the identification of each term or condition of the permit that is the basis of the certification;
 - the compliance status;
 - whether compliance was continuous or intermittent;
 - the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related recordkeeping and reporting requirements of this permit;
 - such other facts as the Department may require to determine the compliance status of the facility as

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specified in any special permit terms or conditions;
and
- such additional requirements as may be specified elsewhere in this permit related to compliance certification.

ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to certification, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.

iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.

iv. All annual compliance certifications may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office) and one copy shall be sent to the Administrator (or his or her representative). The mailing addresses for the above referenced persons are:

Chief – Air Compliance Branch
USEPA Region 2 DECA/ACB
290 Broadway, 21st Floor
New York, NY 10007

The address for the RAPCE is as follows:

Regional Air Pollution Control Engineer
State Office Building
317 Washington Street
Watertown, NY 13601-3787

The address for the BQA is as follows:

NYSDEC
Bureau of Quality Assurance

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625 Broadway
Albany, NY 12233-3258

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2022.
Subsequent reports are due on the same day each year

Condition 7: Compliance Certification
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 202-2.1

Item 7.1:
The Compliance Certification activity will be performed for the Facility.

Item 7.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

Emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year. Statements are to be mailed to: New York State Department of Environmental Conservation, Division of Air Resources, Bureau of Air Quality Planning, 625 Broadway, Albany NY 12233-3251

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due by April 15th for previous calendar year

Condition 8: Recordkeeping requirements
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 202-2.5

Item 8.1:
(a) The following records shall be maintained for at least five years:

(1) a copy of each emission statement submitted to the department; and

(2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

(b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.

Condition 9: Open Fires - Prohibitions
Effective between the dates of 03/04/2021 and 03/01/2026

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Applicable Federal Requirement: 6 NYCRR 215.2**Item 9.1:**

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

Item 9.2

Per Section 215.3, burning in an open fire, provided it is not contrary to other law or regulation, will be allowed as follows:

- (a) On-site burning in any town with a total population less than 20,000 of downed limbs and branches (including branches with attached leaves or needles) less than six inches in diameter and eight feet in length between May 15th and the following March 15th. For the purposes of this subdivision, the total population of a town shall include the population of any village or portion thereof located within the town. However, this subdivision shall not be construed to allow burning within any village.
- (b) Barbecue grills, maple sugar arches and similar outdoor cooking devices when actually used for cooking or processing food.
- (c) Small fires used for cooking and camp fires provided that only charcoal or untreated wood is used as fuel and the fire is not left unattended until extinguished.
- (d) On-site burning of agricultural wastes as part of a valid agricultural operation on contiguous agricultural lands larger than five acres actively devoted to agricultural or horticultural use, provided such waste is actually grown or generated on those lands and such waste is capable of being fully burned within a 24-hour period.
- (e) The use of liquid petroleum fueled smudge pots to prevent frost damage to crops.
- (f) Ceremonial or celebratory bonfires where not otherwise prohibited by law, provided that only untreated wood or other agricultural products are used as fuel and the fire is not left unattended until extinguished.
- (g) Small fires that are used to dispose of a flag or religious item, and small fires or other smoke producing process where not otherwise prohibited by law that are used in connection with a religious ceremony.
- (h) Burning on an emergency basis of explosive or other dangerous or contraband materials by police or other public safety organization.
- (i) Prescribed burns performed according to Part 194 of this Title.
- (j) Fire training, including firefighting, fire rescue, and fire/arson investigation training, performed under applicable rules and guidelines of the New York State Department of State's Office of Fire Prevention and Control. For fire training performed on acquired structures, the structures must be emptied and stripped of any material that is toxic, hazardous or likely to emit toxic smoke (such as asbestos, asphalt shingles and vinyl siding or other vinyl products) prior to burning and must be at least 300 feet from other occupied structures. No more than one structure per lot or within a 300 foot radius (whichever is bigger) may be burned in a training exercise.
- (k) Individual open fires as approved by the Director of the Division of Air Resources as may be required in response to an outbreak of a plant or animal disease upon request by the commissioner of the Department of Agriculture and Markets, or for the destruction of invasive plant and insect species.
- (l) Individual open fires that are otherwise authorized under the environmental conservation law, or by rule or regulation of the Department.

MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS

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SUBJECT TO ANNUAL CERTIFICATIONS ONLY IF APPLICABLE

The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements only if effectuated during the reporting period.

[NOTE: The corresponding annual compliance certification for those conditions not effectuated during the reporting period shall be specified as "not applicable".]

Condition 10: Maintenance of Equipment
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 200.7

Item 10.1:

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, required to operate such device effectively.

Condition 11: Recycling and Salvage
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 201-1.7

Item 11.1:

Where practical, the owner or operator of an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of the ECL.

Condition 12: Prohibition of Reintroduction of Collected Contaminants to the air
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 201-1.8

Item 12.1:

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.

Condition 13: Exempt Sources - Proof of Eligibility
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 201-3.2 (a)

Item 13.1:

The owner or operator of an emission source or activity that is listed as being exempt may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all records necessary

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for demonstrating compliance with this Subpart on-site for a period of five years, and make them available to representatives of the department upon request.

Condition 14: Trivial Sources - Proof of Eligibility
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 201-3.3 (a)

Item 14.1:

The owner or operator of an emission source or activity that is listed as being trivial in this Section may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all required records on-site for a period of five years and make them available to representatives of the department upon request.

Condition 15: Requirement to Provide Information
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (4)

Item 15.1:

The owner and/or operator 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, if the administrator initiated the request for information or otherwise has need of it.

Condition 16: Right to Inspect
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (8)

Item 16.1:

The department or an authorized representative shall be allowed upon presentation of credentials and other documents as may be required by law to:

(i) enter upon the permittee's premises where a facility subject to the permitting requirements of this Subpart is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;

(ii) have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

(iii) inspect at reasonable times any emission sources, equipment (including monitoring and air pollution control equipment), practices, and operations regulated or required under the permit; and

(iv) sample or monitor at reasonable times substances or parameters for the purpose of assuring

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compliance with the permit or applicable requirements.

Condition 17: Off Permit Changes**Effective between the dates of 03/04/2021 and 03/01/2026****Applicable Federal Requirement:6 NYCRR 201-6.4 (f) (6)****Item 17.1:**

No permit revision will be required for operating changes that contravene an express permit term, provided that such changes would not violate applicable requirements as defined under this Part or contravene federally enforceable monitoring (including test methods), recordkeeping, reporting, or compliance certification permit terms and conditions. Such changes may be made 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 the permit (whether expressed therein as a rate of emissions or in terms of total emissions) provided that the facility provides the administrator and the department with written notification as required below in advance of the proposed changes within a minimum of seven days. The facility owner or operator, and the department shall attach each such notice to their copy of the relevant permit.

(i) For each such change, the written notification required above shall include a brief description of the change within the permitted facility, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

(ii) The permit shield described in section 6 NYCRR 201-6.4 shall not apply to any change made pursuant to this paragraph.

Condition 18: Required Emissions Tests**Effective between the dates of 03/04/2021 and 03/01/2026****Applicable Federal Requirement:6 NYCRR 202-1.1****Item 18.1:**

For the purpose of ascertaining compliance or non-compliance with any air pollution control code, rule or regulation, the commissioner may require the person who owns such air contamination source to submit an acceptable report of measured emissions within a stated time.

Condition 19: Accidental release provisions.**Effective between the dates of 03/04/2021 and 03/01/2026****Applicable Federal Requirement:40 CFR Part 68****Item 19.1:**

If a chemical is listed in Tables 1,2,3 or 4 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Tables 1,2,3 or 4, the following requirements will apply:

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- a) The owner or operator shall comply with the provisions of 40 CFR Part 68 and;
- b) The owner or operator shall submit at the time of permit issuance (if not previously submitted) one of the following, if such quantities are present:
 - 1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a) or,
 - 2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan. Information should be submitted to:

Risk Management Plan Reporting Center
 C/O CSC
 8400 Corporate Dr
 Carrollton, Md. 20785

Condition 20: Recycling and Emissions Reduction
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:40CFR 82, Subpart F

Item 20.1:
 The permittee shall comply with all applicable provisions of 40 CFR Part 82.

The following conditions are subject to annual compliance certification requirements for Title V permits only.

Condition 21: Emission Unit Definition
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 21.1(From Mod 1):
 The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 0-00005

Emission Unit Description:

This unit addresses furnace operations in Processes 500 and 505. This unit also includes calcium fluoride crystal inspection, operations in Process 503, and the Radome operations in Process 506.

Building(s): MAIN PLANT

Item 21.2(From Mod 1):
 The facility is authorized to perform regulated processes under this permit for:
 Emission Unit: U-00001

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Emission Unit Description:

This unit consists of forming furnaces for glass production.

Building(s): CANTON
MAIN PLANT

Item 21.3(From Mod 1):

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

Emission Unit: U-00004

Emission Unit Description:

This unit consists of the sealing and annealing furnace sources for glass production.

Building(s): MAIN PLANT

Item 21.4(From Mod 1):

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

Emission Unit: U-00007

Emission Unit Description:

This unit consists of miscellaneous emission sources that do not align with other existing emission units.

Building(s): MAIN PLANT

Item 21.5(From Mod 1):

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

Emission Unit: U-00AIR

Emission Unit Description:

This emission unit consists of 4 air handling heater units firing natural gas and are rated at 7.6 mmBtu/hr. The units heat the makeup air for the building and exhaust into the building.

Building(s): MAIN PLANT

Item 21.6(From Mod 0):

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

Emission Unit: 0-00006

Emission Unit Description:

This emission unit contains emergency stationary generators. Emission Unit 0-00006 contains exempt emergency generators subject to either 40CFR 63 Subpart ZZZZ or 40CFR 60 Subpart IIII.

Building(s): MAIN PLANT

Item 21.7(From Mod 0):

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

Emission Unit: U-00002

Emission Unit Description:

This unit consists of glass etching areas.

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Building(s): MAIN PLANT

Condition 22: Progress Reports Due Semiannually
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 201-6.4 (d) (4)

Item 22.1:

Progress reports consistent with an applicable schedule of compliance are to be submitted at least semiannually, or at a more frequent period if specified in the applicable requirement or by the department. Such progress reports shall contain the following:

- (i) dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and
- (ii) an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

Condition 1-1: Operational Flexibility
Effective between the dates of 12/07/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 201-6.4 (f)

Item 1-1.1:

A permit modification is not required for changes that are provided for in the permit. Such changes include approved alternate operating scenarios and changes that have been submitted and approved pursuant to an established operational flexibility protocol and the requirements of this section. Each such change cannot be a modification under any provision of Title I of the Clean Air Act or exceed, or cause the facility to exceed, an emissions cap or limitation in the permit. The facility owner or operator must incorporate all changes into any compliance certifications, record keeping, and/or reporting required by the permit.

Condition 23: Compliance Certification
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 201-6.4 (f)

Item 23.1:

The Compliance Certification activity will be performed for the Facility.

Item 23.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

1.0 INTRODUCTION

This plan is proposed consistent with the provisions of 6

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NYCRR Part 201-6.4(f) "Operational Flexibility", and is directed at detailing Corning's understanding and expectations regarding operational flexibility with respect to air program regulatory issues at Corning's Canton Plant. The objective is to maximize the facility's ability to respond to business opportunities with minimal delay due to administrative approval processes. Specifically, the plan addresses new opportunities with minimal delay due to administrative approval processes. Specifically, the plan addresses new equipment and modifications that are not "Significant" in terms of New Source Review Permitting Requirements. The plan is intended to minimize the administrative burden associated with change approval processes on both NYSDEC and Corning. Corning proposes to maximize its operational flexibility by using the approach described in the following sections.

2.0 FURNACE OPERATING PARAMETER ADJUSTMENTS

The Canton Plant is continuously in the process of refining Emission Unit U-00001 furnace operations. Operating parameters are adjusted on an on-going basis in order to optimize specialty glass production. Typical changes include extending and shortening run time, increasing and decreasing operating temperature, modifying gas or airflow, changing oxygen concentration, and adjusting the furnaces' physical configuration. Historical test data indicates that these adjustments do not significantly affect NO_x emissions. There is a potential, however, that some changes may result in variations in NO_x emissions. In the event that an adjusted set of operating parameters is expected to result in an increase in NO_x emissions, Corning will complete the following procedure.

Corning proposes to make these adjustments provided that it:

- completes a NO_x monitoring procedure using appropriate emissions monitoring equipment (initial use of the monitoring equipment requires the submission of a test protocol subject to NYSDEC approval);
- documents monitoring results;
- conducts an analysis to ensure that major New Source Review permitting programs do not apply (up to 99% of the applicability threshold will be allowed).
- existing PSD and Part 231 caps for the facility will be maintained;
- if necessary, revises Emission Unit U-00001 cap compliance emission factors to accurately represent adjusted furnace operations; and

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- maintains documentation of conformance with these steps.

Other, unforeseen changes will be managed as described in Section 3, the Canton facility's flexibility protocol.

3.0 FLEXIBILITY PROTOCOL

Under Part 200 a modification is defined as follows:

Any physical change or change in the method of operation of an incinerator, stationary combustion installation or process which (1) increases the hourly rate, emission concentration or emission opacity of any air contaminant, (2) involves the installation or alteration of any air cleaning installation, air cleaning device or control equipment, (3) involves conversion of fuel used in any emission source to a fuel with a higher ash content than the fuel used prior to the change, (4) involves the alteration of any furnace or other physical changes to allow burning or refuse or refuse-derived fuel with fossil fuel, or (5) results in the emission of any air pollution not previously emitted or authorized under the permit. Routine maintenance, repair and replacement of original equipment or parts thereof are not considered physical changes. An increase or decrease in the hours of operation is not considered a change in the method of operation if the total emissions do not cause air pollution or contravention of any applicable ambient air quality standard, and the hours of operation are not restricted through a condition of a permit or certificate issued for the air contamination source. A physical change or a change in the method of operation shall not include the use of an alternative fuel or raw material which:

- (1) The facility or emission source was capable of accommodating before January 6, 1975, unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975 pursuant to 40 CFR Part 52.21; or
- (2) The facility or emission source is approved to use under any permit issued under 40 CFR Part 52.21.

Corning proposes to use a Flexibility Protocol to manage select changes, that are considered "modifications" consistent with the above referenced Part 200 definition. Corning's Flexibility Protocol has been developed in consideration of NYSDEC's 16 February 2001 draft guidance

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entitled "Operational Flexibility in Air Operating Permits and Registrations Issued Under Part 201". Modifications and installations will be reviewed to ensure conformance with the following criteria.

CORNING FLEXIBILITY PROTOCOL

1. The new emissions source or modification is adequately addressed by conditions that have already been established in the Title V permit to address underlying applicable requirements (i.e.; there will be no need to add permit terms). If a change affects a source's compliance monitoring approach, a revised monitoring approach will be documented with appropriate justification.
2. The new emissions source or modification will comply with all respective applicable requirements and the above referenced permit terms.
3. The new source or modification will comply with DAR-1, Guidelines for the Evaluation and Control of Ambient Air Contaminants under 6 NYCRR Part 212 Process Operations (Part 212). Corning will perform a review for each new source or modification subject to Part 212 consistent with DAR-1 and referenced guidelines. Additionally, Corning will demonstrate that the new source or modification will not result in contravention of applicable ambient air quality standards.

For each emission source subject to Part 212, Corning shall identify all contaminants, and calculate the emission rate potential and the maximum annual emission rates after the proposed change. Corning shall demonstrate that the emission source will comply with the emission control requirements of Part 212 Table 2 - High Toxicity Air Contaminant List, Table 3 - Degree of Air Cleaning Required for Criteria Air Contaminants, and Table 4 - Degree of Air Cleaning Required for Non-Criteria Air Contaminants, as applicable. If the proposed emission source or modification will result in an increase in the annual or hourly emission rate of any air contaminant regulated by Part 212, Corning shall perform air dispersion modeling for each contaminant from all Part 212 regulated emission sources at the facility, as required by Part 212 and DAR-1. For each criteria air contaminant, the air dispersion modeling shall demonstrate the maximum offsite air concentration from the facility's Part 212 regulated emissions sources is less than the respective National Ambient Air Quality Standards (NAAQS). For non-criteria air contaminants, the air dispersion modeling shall demonstrate that the maximum offsite air concentration is less than the applicable Annual Guideline

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Concentration (AGC) and Short-Term Guideline Concentration (SGC) for each respective contaminant.

4. The new source or modification will not trigger major New Source Review program applicability (up to 99% of the major new source applicability threshold will be allowed) under 6 NYCRR Part 231-6 or 40 CFR Part 52.21. Corning will prepare documentation of non-applicability and will submit the documentation to NYSDEC for review and approval consistent with item No. 5 below.

5. Corning will document its assessment of each new source or modification reviewed under this criteria. The documentation will include the following components:

- identification of the existing Title V Permit emission unit and process(es) under which the new or modified emissions source will be covered;
- documentation of the source's compliance with all applicable requirements;
- documentation and justification of any revised compliance monitoring approach;
- completed New York State application forms to the extent that they are appropriate to communicated revised information;
- documentation of source's conformance with NYSDEC approved DAR-1 6 NYCRR 212 review criteria; and
- documentation that the source does not trigger major New Source Review program applicability (up to 99% of the major new source applicability threshold will be allowed).

6. Corning will notify NYSDEC of all new source installations or modifications reviewed under this protocol 30 days prior to installation or modification. The report will include the documentation developed consistent with criteria specified in item No. 5 of the protocol.

NYSDEC approval will be determined per each proposed change after a thorough but timely review to verify that each proposed change complies with the Corning self assessment criteria described above as the Corning Flexibility Protocol. The changes shall not violate or affect any applicable requirements. In such cases the Department may require that Corning not undertake the proposed change until it completes a more detailed review of the potential air quality impacts and/or applicable requirements. The Department shall respond to Corning in writing with such a determination within 15 days of receipt of the 30 day advance notification from Corning. The Department determination shall include a listing of

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information necessary to further review the proposed change. Possible changes subject to NYSDEC operational flexibility review and approval include:

- An increase in the emissions rate or concentration of a contaminant. This includes physical and operational changes associated with existing Canton emission sources.
- The use of production materials that may result in the emission of new air contaminants. This includes conversion of furnaces from the production of one type of glass to another, and may also include changes to the size or bath concentration of the Plant's etch, cleaning, and test tanks.
- The relocation of emissions points within the Corning facility.
- The installation or alteration of air pollution control devices.
- The installation of new emission sources, or replacement of existing emission sources with similar sources. Source installation or replacement may include glass forming and finishing equipment; etch, glass cleaning, or test tanks.

Corning will review each of the above situations using the Corning Flexibility Protocol criteria. Modifications and new source installations that fully comply with the 30 day advanced notice and presented criteria are still subject to consideration and timely review and acceptance by NYSDEC. The Department has the ability to determine if a proposed change is beyond the scope of 6 NYCRR 201-6.4 (f). In such cases the Department may require that Corning not undertake the proposed change until it completes a more detailed review of the potential air quality impacts and/or applicable requirements. The Department shall respond to Corning in writing with such a determination within 15 days of receipt of the 30 day advanced notification from Corning. The Department's determination shall include a listing of information necessary to further review the proposed change.

Consistent with Part 201-6.5(f)(2), changes made pursuant to an approved protocol are not subject to the provisions of Section 201-6.6 - Permit Renewal and Modification.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2021.

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Subsequent reports are due every 6 calendar month(s).

Condition 1-2: Compliance Certification
Effective between the dates of 12/07/2021 and 03/01/2026

Applicable Federal Requirement: 6 NYCRR 201-6.4 (g)

Item 1-2.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-2.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This section contains a summary of those requirements that have been specifically identified as being not applicable to this facility and/or emission units, emission points, processes and/or emission sources within this facility. The summary also includes a justification for classifying any such requirements as non-applicable.

6 NYCRR 212-3 Reasonable Available Control Technology for Major Facilities

Reason: The facility is not a major source of VOC. A RACT analysis is not required for emission points with VOC emission rate potentials less than 3.0 pounds per hour.

6 NYCRR 220-2 Glass Plants

Reason: Corning is not a glass manufacturing facility since the facility does not use a glass melting furnace to manufacture glass.

6 NYCRR Part 229 Petroleum and Volatile Organic Liquid Storage and Transfer

Reason: The Corning Plant operates liquid silicone and non-HAP VOC liquid tanks. Pressurized fixed roof tanks which are capable of maintaining a working pressure at all times to prevent emissions to the outdoor atmosphere.

40 CFR Part 60 Subpart CC

Reason: This section is not applicable because Corning does not operate glass melting furnaces.

40 CFR Part 61 Subpart N

Reason: Corning does not use arsenic in its manufacturing and therefore this section does not apply.

40 CFR Part 63 Subpart SSSSSS

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Reason: Corning is not a glass manufacturing facility that manufactures flat glass, glass containers, or pressed and blown glass by melting a mixture of raw materials, as defined in § 63.11459, to produce molten glass and form the molten glass into sheets, containers, or other shapes.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 24: Compliance Certification
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 201-6.4 (g)

Item 24.1:

The Compliance Certification activity will be performed for the Facility.

Item 24.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The conditions and underlying applicable requirements included in the facility's Title V Permit apply to equipment while it is operating in production mode only. R&D operations occurring in equipment subject to an emission unit level or facility level cap are subject to these caps, but no other underlying applicable permitting requirements. Corning will employ good engineering and maintenance practices to minimize emissions from R&D operations in permitted equipment and will adhere to regulation limits. Corning shall submit to the NYSDEC a letter 30 days prior to the use of permitted equipment for R&D purposes that result in the emission of a new contaminant, or an increase in contaminants. This letter shall contain new contaminants being emitted and an estimation quantifying those emissions and/or any increases in emissions. The Department will determine if further requirements are necessary.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 25: Compliance Certification
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 201-6.4 (g)

Item 25.1:

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

The Compliance Certification activity will be performed for the Facility.

Item 25.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Exempt small gas fired boilers (between 1 and 10 MMBtu/hr) at major sources of NOx remain exempt from permitting under Part 201-3.2(c)(2). Beginning with the 6 NYCRR Part 227-2 compliance date of July 1, 2014, small boilers between 1 and 25 MMBtu/hr must perform an annual tune-up and document the date of the last tune-up and the name, title, and affiliation of the person who made the adjustments as required by Part 227-2.4(d). Documentation may include but is not limited to bound logbooks, electronic records (e.g., electronic work orders), and/or vendor records and receipts. These types of small gas fired boilers remain subject to the Part 227-1.3(a) opacity requirements.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 26: Compliance Certification

Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 201-6.4 (g)

Item 26.1:

The Compliance Certification activity will be performed for the Facility.

Item 26.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The emergency generators included in Emission Unit 0-00006 and the facility's miscellaneous exempt combustion sources are exempt from Part 227-2 NOx RACT requirements as long as the emergency generators S0034, S0036, and S0037 are limited to 510 hours per year combined and all other Emission Unit 0-00006 emergency generators are operated less than 500 hours per year each.

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

The initial report is due 1/30/2022.
 Subsequent reports are due every 12 calendar month(s).

Condition 28: Facility Permissible Emissions
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 28.1:

The sum of emissions from the emission units specified in this permit shall not equal or exceed the following

Potential To Emit (PTE) rate for each regulated contaminant:

per year	CAS No: 007446-09-5 (From Mod 1) Name: SULFUR DIOXIDE	PTE: 79,500 pounds
per year	CAS No: 0NY075-00-0 (From Mod 1) Name: PARTICULATES	PTE: 98,651 pounds
per year	CAS No: 0NY075-00-5 (From Mod 1) Name: PM-10	PTE: 76,187 pounds
pounds per year	CAS No: 0NY210-00-0 (From Mod 1) Name: OXIDES OF NITROGEN	PTE: 1,423,711

Condition 1-3: Capping Monitoring Condition
Effective between the dates of 12/07/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 1-3.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

40 CFR 52.21

Item 1-3.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 1-3.3:

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

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

other state and federal air pollution control requirements, regulations or law.

Item 1-3.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 1-3.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 1-3.6:

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

Emission Unit: U-00001
Process: 100

Emission Unit: U-00001
Process: 125

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 1-3.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

To avoid Prevention Significant Deterioration (PSD) applicability, emissions of particulate matter (PM) from Emission Unit U-00001, Process 100 and 125 glass forming furnaces are limited to 31.3 tons per year combined. Emission Unit U-00001 Process 100 or process 125 testing for PM shall be conducted once during the term of the permit for each of the two types of furnaces. The PM emissions shall be calculated using an emission factor derived during this testing. Corning will track emissions on a 12 month rolling total to demonstrate compliance with this cap. Emission factors and calculations are subject to the NYSDEC's approval.

Manufacturer Name/Model Number: GLASS FORMING FURNACES

Parameter Monitored: PARTICULATES

Upper Permit Limit: 31.3 tons

Reference Test Method: EPA METHOD 5

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Monitoring Frequency: MONTHLY
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2022.
Subsequent reports are due every 6 calendar month(s).

Condition 1-4: Capping Monitoring Condition
Effective between the dates of 12/07/2021 and 03/01/2026

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 1-4.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

40 CFR 52.21

Item 1-4.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 1-4.3:

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.

Item 1-4.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 1-4.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 1-4.6:

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

Emission Unit: U-00001
Process: 100

Emission Unit: U-00001

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Process: 125

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 1-4.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

To avoid PSD applicability, emissions of PM from emission unit U-00001, Processes 100 and 125 are limited to 31.3 tons per year. Corning will track emissions on a 12 month rolling basis to demonstrate compliance with this cap. Emission factors and calculations are subject to NYSDEC approval.

Manufacturer Name/Model Number: GLASS FORMING FURNACES

Parameter Monitored: PARTICULATES

Upper Permit Limit: 31.3 tons

Reference Test Method: EPA METHOD 5

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

Subsequent reports are due every 6 calendar month(s).

Condition 1-5: Capping Monitoring Condition

Effective between the dates of 12/07/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 1-5.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

40 CFR 52.21

Item 1-5.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 1-5.3:

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

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other state and federal air pollution control requirements, regulations or law.

Item 1-5.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 1-5.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 1-5.6:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 1-5.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The sum of emissions from all regulated processes specified in this permit for the emission unit cited shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: 0-00006
 Emission Sources S0034, S0036, S0037
 CAS No: 0NY210-00-0
 Name: OXIDES OF NITROGEN
 PTE(s): 155 pound per hour
 79, 120 pounds per
 year

Emission Unit: 0-00006
 Emission Sources S0034, S0036, S0037
 CAS no: 007446-09-5
 Name: SULFUR DIOXIDE
 PTE(s): 155.88 pounds per hour
 79,500 pounds per
 year

Emission Unit: U-00001
 Process 100 and 125

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

CAS No: 0NY075-00-0
 Name: PARTICULATES
 PTE(s): 62,600 pounds per year

Emission Unit: U-00001
 Process 100 and 125
 CAS No: 0NY075-00-5
 Name: PM-10
 PTE(s): 42,600 pounds per year

Emission Unit: U-00001
 Process 100
 CAS No: 0NY210-00-0
 Name: OXIDES OF NITROGEN
 PTE(s): 620,720 pounds per year

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-6: Capping Monitoring Condition
Effective between the dates of 12/07/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 1-6.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

40 CFR 52.21

Item 1-6.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 1-6.3:

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.

Item 1-6.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an

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applicable requirement.

Item 1-6.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 1-6.6:

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

Emission Unit: U-00001
Process: 100

Emission Unit: U-00001
Process: 125

Regulated Contaminant(s):
CAS No: 0NY075-00-5 PM-10

Item 1-6.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

To avoid Prevention Significant Deterioration (PSD) applicability, emissions of particulate matter 10 micrometers or less in diameter (PM-10) from Emission Unit U-00001 Processes 100 and 125 glass forming furnaces are limited to 21.3 tons per year combined. Emission Unit U-00001 Processes 100 or 125 testing for PM-10 shall be conducted once during the term of the permit for each of the two types of furnaces. The PM-10 emissions shall be calculated using an emission factor derived during this testing. EPA methods 201A and 202 are the reference test methods for determining compliance with this limit.

Manufacturer Name/Model Number: GLASS FORMING FURNACES

Upper Permit Limit: 21.3 tons

Reference Test Method: EPA METHOD 202

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 29: Capping Monitoring Condition

Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 29.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Monitoring Description:

Corning will limit emissions of sulfur dioxide below 79,500 pounds per year by capping hours of operation for three diesel emergency generators (S0034, S0036, S0037) to 510 hours per year combined. Corning will maintain operating records including hours of operation and annual emissions for all generators and submit to the NYSDEC as required. The emission factor used to determine SO₂ compliance shall be determined using manufacturer's test data.

Parameter Monitored: SULFUR DIOXIDE

Upper Permit Limit: 79500 pounds per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 34: Capping Monitoring Condition
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement: 6 NYCRR Subpart 201-7**Item 34.1:**

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

40 CFR 52.21

Item 34.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 34.3:

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.

Item 34.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Item 34.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 34.6:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 34.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Corning will limit emissions of nitrogen oxides below 79,120 pounds per year. This is based on a combined 510 hours per year and 155 pounds per hour operating limits. Corning will maintain operating records including hours of operation and annual emissions for three diesel emergency generators (S0034, S0036, S0037) and submit to the NYSDEC as required. The emission factor used to determine NOx compliance shall be determined using data from the NOx emission performance test.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Upper Permit Limit: 79120 pounds per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 35: Visible Emissions Limited
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 211.2

Item 35.1:

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 36: Compliance Certification
Effective between the dates of 03/04/2021 and 03/01/2026

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

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

Item 36.1:

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

Emission Unit: 0-00005
Process: 506

Emission Source: S0060

Emission Unit: U-00001

Emission Unit: U-00002

Emission Unit: U-00004

Item 36.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

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, except only the emission of uncombined water. The NYSDEC reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The permittee will conduct observations of visible emissions from the emission unit, process, etc. utilizing EPA Method 22 to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee’s observer is not required to have observer certification according to the procedures of Method 9. The permittee will immediately investigate any instance where there is cause to believe that visible emissions above those that are normal and in compliance are occurring or have occurred from a process source.

If visible emissions above those that are normal (this may be zero percent opacity for many or all emission sources) and in compliance with section 212.6(a) are detected, the permittee shall determine the cause, make the necessary correction, and verify that the excess visible emissions problem has been corrected.

If visible emissions above those that are normal and in compliance continue to be present after corrections are made, the permittee will immediately notify the NYSDEC and conduct a Method 9 assessment within 24 hours to determine

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

the degree of opacity.

Records of these observations, investigations and corrective actions will be kept on-site in a format acceptable to the NYSDEC and the semiannual progress report and annual compliance certifications required of all permittees subject to Title V must include a summary of these instances.

Reference Test Method: EPA Method 22
 Monitoring Frequency: SEMI-ANNUALLY
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 7/30/2021.
 Subsequent reports are due every 6 calendar month(s).

Condition 1-7: Compliance Certification
Effective between the dates of 12/07/2021 and 03/01/2026

Applicable Federal Requirement: 6 NYCRR 212-2.1 (b)

Item 1-7.1:

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

Emission Unit: U-00001 Process: 100	Emission Point: C1648 Emission Source: S0001
Emission Unit: U-00001 Process: 100	Emission Point: C1648 Emission Source: S0002
Emission Unit: U-00001 Process: 100	Emission Point: C1648 Emission Source: S0003
Emission Unit: U-00001 Process: 125	Emission Point: C1648 Emission Source: S0006
Emission Unit: U-00001 Process: 150	Emission Point: C1648 Emission Source: S0055
Emission Unit: U-00001 Process: 150	Emission Point: C1648 Emission Source: S0056
Emission Unit: U-00001 Process: 150	Emission Point: C1648 Emission Source: S0070
Emission Unit: U-00001 Process: 175	Emission Point: C1649 Emission Source: S0071
Emission Unit: U-00004 Process: 400	Emission Point: C1643 Emission Source: S0011

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Facility DEC ID: 640300002

Emission Unit: U-00004
Process: 400Emission Point: C1643
Emission Source: S0012Regulated Contaminant(s):
CAS No: 000630-08-0 CARBON MONOXIDE**Item 1-7.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility has Part 212 regulated emission sources that emit carbon monoxide. Since the facility-wide actual emissions from Part 212 regulated emission sources is greater than 100 pounds per year, the facility has performed air dispersion modeling. Based upon the results of the air dispersion modeling dated April 2018 and the emission rate potential (ERP) for carbon monoxide for each regulated emission source, the facility is in compliance with the requirements of Part 212-2.1 for emissions of carbon monoxide.

The facility shall maintain records to demonstrate that the ERP for each Part 212 regulated emission source and the facility actual annual emissions of carbon monoxide on a calendar year basis do not exceed the values shown in the Part 212 assessment dated April 2018. If there is an increase in ERP or the site-wide actual emissions, the facility shall perform an air dispersion modeling assessment in order to demonstrate that the maximum offsite ambient air concentration is less than the National Ambient Air Quality Standard (NAAQS) for carbon monoxide. The air dispersion modeling results shall be submitted in a form acceptable to the NYSDEC.

Records shall be maintained at the facility and made available upon request of the NYSDEC.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

Subsequent reports are due every 6 calendar month(s).

Condition 39: Compliance Certification**Effective between the dates of 03/04/2021 and 03/01/2026****Applicable Federal Requirement: 6 NYCRR 212-2.4 (b)****Item 39.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Emission Unit: 0-00005

Process: 506

Emission Source: S0060

Emission Unit: U-00001

Emission Unit: U-00002

Emission Unit: U-00004

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 39.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emissions of solid particulates are limited to less than 0.050 grains of particulates per dry standard cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis. Compliance testing will be conducted at the discretion of the NYSDEC.

Upper Permit Limit: 0.050 grains per dscf

Reference Test Method: EPA Method 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 40: Compliance Certification

Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement: 6 NYCRR 212-3.1 (a) (2)

Item 40.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001

Item 40.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners and/or operators of facilities located outside of the lower Orange County and New York City metropolitan areas with an annual potential to emit of 100 tons or more of nitrogen oxides or 50 tons or more of volatile organic compounds must comply with the requirements of Part 212-3

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Reasonably Available Control Technology for Major
Facilities.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 41: Compliance Certification
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement: 6 NYCRR 212-3.1 (f)

Item 41.1:

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

Emission Unit: U-00001
Process: 150

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 41.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

Emission Unit U-00001's glass forming furnaces in Process 150 use oxy-gas firing, a Lowest Achievable Emission Rate (LAER) technology, to minimize NO_x emissions and meet control requirements with RACT, Reasonable Available Control Technology. There is also an 81% reduction by weight of VOC emissions through the implemented RACT control.

A RACT analysis is not required for emission points with oxides of nitrogen and volatile organic compound emission rate potentials less than 3.0 pounds per hour and actual emissions in the absence of control equipment less than 15.0 pounds per day at facilities located outside of the Lower Orange County and New York City metropolitan area.

Manufacturer Name/Model Number: GLASS FORMING FURNACES
Monitoring Frequency: ANNUALLY
Averaging Method: MINIMUM - NOT TO FALL BELOW STATED
VALUE AT ANY TIME
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2022.
Subsequent reports are due every 12 calendar month(s).

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Condition 42: Compliance Certification
Effective between the dates of 03/04/2021 and 03/01/2026

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

Item 42.1:

The Compliance Certification activity will be performed for the Facility.

Item 42.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners and/or operators of a stationary combustion installation that fires distillate oil other than number two heating oil are limited to the purchase of distillate oil with 0.0015 percent sulfur by weight or less on or after July 1, 2014. Compliance with this limit will be based on vendor certifications.

Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years. The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the Department.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
 Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 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: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 43: Compliance Certification
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 228-1.3 (a)

Item 43.1:

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

Emission Unit: 0-00005

Process: 506

Emission Source: S0059

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Emission Unit: 0-00005
Process: 506

Emission Source: S0060

Emission Unit: 0-00005
Process: 506

Emission Source: S0061

Emission Unit: 0-00005
Process: 506

Emission Source: S0062

Item 43.2:

Compliance Certification 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, except only the emission of uncombined water. The NYSDEC reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation. Opacity monitoring shall occur, at a minimum, once every month during typical operating conditions and shall be recorded.

Corning will conduct visible observations from the emission unit, process, etc. to which this condition applies as required while the process is in operation. Corning 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.

Corning shall investigate the cause, make any necessary corrective actions, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC of the Method 9 test and indicate that the opacity standard is not being met.

Records of visible emissions observations (or any follow-up Method 9), investigations and corrective actions will be kept onsite. Should the NYSDEC determine that Corning's record keeping format is inadequate to demonstrate compliance with this condition, the NYSDEC will provide written notice stating the inadequacies, and Corning will have 90 days to revise the record keeping format in a manner acceptable to the NYSDEC.

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Parameter Monitored: OPACITY
 Upper Permit Limit: 20 percent
 Reference Test Method: Method 9 (as required)
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 7/30/2021.
 Subsequent reports are due every 6 calendar month(s).

Condition 44: Compliance Certification
 Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement: 6 NYCRR 228-1.3 (b) (2)

Item 44.1:

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

- | | |
|--|------------------------|
| Emission Unit: 0-00005
Process: 506 | Emission Source: S0059 |
| Emission Unit: 0-00005
Process: 506 | Emission Source: S0060 |
| Emission Unit: 0-00005
Process: 506 | Emission Source: S0061 |
| Emission Unit: 0-00005
Process: 506 | Emission Source: S0062 |

Item 44.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners and operators of emission sources not subject to this Subpart as set forth in section 228-1.1(b)(9) must maintain records on an as used basis to ensure that the facility wide use of coatings is less than 55 gallons (or up to 400 pounds of actual VOC usage) on a 12-month rolling total. The records must include the relevant regulatory citation of each exemption and quantity of coating used. If the exemption criteria are based on VOC usage, the records must contain calculations and supplier/manufacturer material data sheets for verification of VOC usage. All records required by this paragraph must be maintained at the facility for a period of five years.

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 45: Compliance Certification
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement: 6 NYCRR 228-1.3 (c)

Item 45.1:

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

- | | |
|------------------------|------------------------|
| Emission Unit: 0-00005 | |
| Process: 506 | Emission Source: S0059 |
| | |
| Emission Unit: 0-00005 | |
| Process: 506 | Emission Source: S0060 |
| | |
| Emission Unit: 0-00005 | |
| Process: 506 | Emission Source: S0061 |
| | |
| Emission Unit: 0-00005 | |
| Process: 506 | Emission Source: S0062 |

Item 45.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
 Monitoring Description:

No person shall sell, supply, offer for sale, solicit, use, specify, or require for use, the application of a coating on a part or product at a facility with a coating line described in section 228-1.1(a) of this Subpart if such sale, specification, or use is prohibited by any of the provisions of this Subpart. The prohibition shall apply to all written or oral contracts under the terms of which any coating is to be applied to any part or product at an affected facility. This prohibition shall not apply to the following:

- (i) coatings utilized at surface coating lines where control equipment has been installed to meet the maximum permitted VOC content limitations specified in the tables of section 228-1.4 of this Subpart;
 - (ii) coatings utilized at surface coating lines where a coating system is used which meets the requirements specified in section 228-1.5(d) of this Subpart;
- and

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Facility DEC ID: 6403000002

(iii) coatings utilized at surface coating lines that have been granted variances pursuant to section 228-1.5(e) of this Subpart.

Any person selling a coating for use in a coating line subject to this Part must, upon request, provide the user with certification of the VOC content of the coating supplied.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 46: Compliance Certification
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement: 6 NYCRR 228-1.3 (d)

Item 46.1:

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

Emission Unit: 0-00005	
Process: 506	Emission Source: S0059
Emission Unit: 0-00005	
Process: 506	Emission Source: S0060
Emission Unit: 0-00005	
Process: 506	Emission Source: S0061
Emission Unit: 0-00005	
Process: 506	Emission Source: S0062

Item 46.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Within the work area(s) associated with a coating line, the owner or operator of a facility subject to this Subpart must:

- (1) use closed, non-leaking containers to store or dispose of cloth or other absorbent applicators impregnated with VOC solvents that are used for surface preparation, cleanup or coating removal;
- (2) store in closed, non-leaking containers spent or fresh VOC solvents to be used for surface preparation, cleanup or coating removal;

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Facility DEC ID: 640300002

(3) not use VOC solvents to cleanup spray equipment unless equipment is used to collect the cleaning compounds and to minimize VOC evaporation;

(4) not use open containers to store or dispense surface coatings and/or inks unless production, sampling, maintenance or inspection procedures require operational access. This provision does not apply to the actual device or equipment designed for the purpose of applying a coating material to a substrate. These devices may include, but are not limited to: spray guns, flow coaters, dip tanks, rollers, knife coaters, and extrusion coaters;

(5) not use open containers to store or dispose of spent surface coatings, or spent VOC solvents;

(6) minimize spills during the handling and transfer of coatings and VOC solvents; and

(7) clean handheld spray guns by one of the following:
 (i) an enclosed spray gun cleaning system that is kept closed when not in use;
 (ii) non-atomized discharge of VOC solvent into a paint waste container that is kept closed when not in use;
 (iii) disassembling and cleaning of the spray gun in a vat that is kept closed when not in use; or
 (iv) atomized spray into a paint waste container that is fitted with a device designed to capture atomized VOC solvent emissions

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2021.

Subsequent reports are due every 6 calendar month(s).

Condition 1-8: Compliance Certification
Effective between the dates of 12/07/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR Subpart 231-6

Item 1-8.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001
 Process: 125

Emission Unit: U-00001

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Process: 150

Emission Unit: U-00001

Process: 175

Emission Unit: U-00007

Process: 705

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 1-8.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

For the expansion project which affected Emission Unit U-00001, Processes 125, 150 and 175 and Emission Unit U-00007, Process 705, emissions of NO_x are limited to 330.95 tons per year. Corning will demonstrate compliance with the 330.95 tpy NSR limit by complying with a permit limit of 315.42 tons of NO_x per year for the glass forming furnaces affected by this project (Processes 125, 150 and 175). This limit is equal to 330.95 tpy minus the combined NO_x PTE of each emission source in Process 705.

Corning assumes that each small source emits NO_x at its potential to emit each year. Through demonstration of compliance with the 315.42 tpy limit for Emission Unit U-00001 Processes 125, 150 and 175, Corning will demonstrate compliance with the 330.95 tpy limit.

Emission factors and calculations used to demonstrate compliance are subject to NYSDEC approval. Records for demonstration of compliance with the NO_x emission limit shall be maintained on site for 5 years. Corning is a major facility for the purposes of 40 CFR 52.21. The 330.95 tons per year NO_x emission limit is also applicable to determine compliance with 40 CFR 52.21.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 330.95 tons per year

Reference Test Method: EPA Method 7E

Monitoring Frequency: MONTHLY

Averaging Method: 12 MONTH AVERAGE - ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

Subsequent reports are due every 6 calendar month(s).

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Facility DEC ID: 6403000002

Condition 1-9: Compliance Certification
Effective between the dates of 12/07/2021 and 03/01/2026

Applicable Federal Requirement: 6 NYCRR Subpart 231-6

Item 1-9.1:

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

Emission Unit: U-00001
 Process: 125

Emission Unit: U-00001
 Process: 150

Emission Unit: U-00001
 Process: 175

Regulated Contaminant(s):
 CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 1-9.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Emissions of NOx are limited to 315.42 tons per year for the combined emissions from Emission Unit U-00001 Process 125, 150 and 175 glass forming furnaces. Corning will track annual emissions on a 12-month rolling basis to demonstrate compliance with this emission limit. Emission factors and calculations are subject to NYSDEC approval. Records for demonstration of compliance with the NOx emission limit shall be maintained on site for 5 years. Compliance with the emission limit shall indicate compliance with the project-wide emission limit of 330.95 tons per year NOx which applies to the emission sources limited by this condition, and the emission sources in Emission Unit U-00007, Process 705.

Manufacturer Name/Model Number: GLASS FORMING FURNACES

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 315.42 tons per year

Reference Test Method: EPA METHOD 7E

Monitoring Frequency: MONTHLY

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

Subsequent reports are due every 6 calendar month(s).

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Facility DEC ID: 6403000002

Condition 1-10: Compliance Certification

Effective between the dates of 12/07/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR Subpart 231-6

Item 1-10.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001

Process: 100

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 1-10.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Emissions of Nitrogen Oxides (NO_x) are limited to 310.36 tons per year for Emission Unit U-00001 Process 100 glass forming furnaces. Corning will track emissions on a 12 month rolling basis to demonstrate compliance with this emission limit. Emission factors and calculations are subject to NYSDEC approval. Records for demonstration of compliance with the NO_x emission limit shall be maintained on site for 5 years. Corning is a major facility for the purposes of 40 CFR 52.21. The 310.36 tons per year NO_x emission limit from emission unit U-00001 is also applicable to determine compliance with 40 CFR 52.21.

Manufacturer Name/Model Number: GLASS MANUFACTURING FURNACES

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 310.36 tons per year

Reference Test Method: EPA Method 7E

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

Subsequent reports are due every 6 calendar month(s).

Condition 49: Compliance Certification

Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 231-6.5

Item 49.1:

The Compliance Certification activity will be performed for the Facility.

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 49.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Based on a Lowest Achievable Emission Rate (LAER) determination the Corning Plant has determined that LAER for Emission Unit U-00001 Process 100 glass forming furnaces is oxy-gas firing technology using an oxygen concentration of 99% or greater. These furnaces are required to use oxy-gas firing technology when in use. Corning Canton Plant is also subject to 40 CFR 52.21. Since a LAER determination has been made and BACT is less restrictive than LAER, the BACT requirements have been satisfied. This condition also satisfies the requirements of RACT under Part 212-3.

Manufacturer Name/Model Number: GLASS FORMING FURNACES

Parameter Monitored: OXYGEN CONTENT

Upper Permit Limit: 99 percent

Monitoring Frequency: ANNUALLY

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED
VALUE AT ANY TIME

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 1-11: Compliance Certification

Effective between the dates of 12/07/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 231-6.6**Item 1-11.1:**

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 1-11.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The expansion of the facility will require the use of ERCs (Emission Reduction Credits) offsets due to the increase in NOx emissions. The facility intends to use

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187.03 tons of NOx ERCs from the shutdown of the Corning Inc Fallbrook Plant that were previously approved by the DEC on July 18,2003. The Use of ERCs credit form was submitted to DEC on April 16, 2021. The remaining required ERCs, which amounts to 129.41 tons have been purchased from the Holcim (US) Inc.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 52: Applicability
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:40CFR 60, NSPS Subpart IIII

Item 52.1:

Facilities that have stationary compression ignition internal combustion engines must comply with applicable portions of 40 CFR 60 Subpart IIII.

Condition 53: Applicability
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:40CFR 63, Subpart ZZZZ

Item 53.1:

Facilities that have reciprocating internal combustion engines must comply with applicable portions of 40 CFR 63 subpart ZZZZ.

Condition 1-12: Compliance Certification
Effective between the dates of 12/07/2021 and 03/01/2026

Applicable Federal Requirement:40 CFR Part 64

Item 1-12.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001

Regulated Contaminant(s):
 CAS No: 0NY075-00-0 PARTICULATES

Item 1-12.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The following emission sources and the associated control

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devices are subject to the requirements of 40 CFR 64, Compliance Assurance Monitoring (CAM) due to pre-controlled emissions of particulates greater than 100 tons per year:

Emission Source/ Control Device

- S0001/K0002
- S0002/K0003
- S0003/K0004
- S0006/K0005
- S0070/K0070
- S0071/K0071

The facility has submitted a CAM plan consistent with the requirements of the rule as follows:

Indicator:

1. Visible emissions from the control device exhaust.
2. Pressure drop across each control device.

Indicator Range:

1. An average opacity of less than 20% (6-minute average).
2. The pressure drop ranges for each affected control devices are consistent with those included in the monitoring conditions for the control devices in this permit.

Monitoring Frequency:

1. Opacity observations are conducted semiannually while the sources are in operation.
2. Pressure drop across each control device is measured continuously and recorded daily.
3. Maintenance is performed consistent with 6 NYCRR Part 200 control maintenance requirements.

QA/QC:

1. Employees are trained to observe visible emissions consistent with Title V permit requirements.
2. The pressure gauges are calibrated consistent with manufacturer's recommendations.
3. Qualified personnel perform maintenance consistent with 6 NYCRR Part 200 control maintenance requirements.

Excursions:

Excursions are visible emissions with opacity above normal but within the indicator range and pressure drop across the control device outside the specified range. Excursions trigger immediate inspection and corrective actions.

A monitoring report must be submitted semi-annually with

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Facility DEC ID: 6403000002

the required compliance certifications which summarizes the number, duration, and cause of exceedances and corrective action taken.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

Subsequent reports are due every 6 calendar month(s).

****** Emission Unit Level ******

**Condition 55: Emission Point Definition By Emission Unit
Effective between the dates of 03/04/2021 and 03/01/2026**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 55.1(From Mod 1):

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

Emission Unit: 0-00005

Emission Point: C0059

Height (ft.): 28

Diameter (in.): 6

NYTMN (km.): 4933.889 NYTME (km.): 474.872

Item 55.2(From Mod 1):

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

Emission Unit: U-00001

Emission Point: C1646

Height (ft.): 75

Diameter (in.): 48

NYTMN (km.): 4933.963 NYTME (km.): 474.931 Building: CANTON

Emission Point: C1647

Height (ft.): 75

Diameter (in.): 68

NYTMN (km.): 4933.955 NYTME (km.): 474.925 Building: CANTON

Emission Point: C1648

Height (ft.): 75

Diameter (in.): 60

NYTMN (km.): 4933.944 NYTME (km.): 474.921 Building: CANTON

Emission Point: C1649

Height (ft.): 75

Diameter (in.): 48

NYTMN (km.): 4933.808 NYTME (km.): 474.845 Building: MAIN PLANT

Item 55.3(From Mod 1):

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

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Emission Unit: U-00004

Emission Point: C1643

Height (ft.): 37 Diameter (in.): 12
 NYTMN (km.): 4933.946 NYTME (km.): 474.893 Building: MAIN PLANT

Emission Point: C1644

Height (ft.): 6 Length (in.): 48 Width (in.): 48
 NYTMN (km.): 4933.957 NYTME (km.): 474.899 Building: MAIN PLANT

Item 55.4(From Mod 0):

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

Emission Unit: 0-00005

Emission Point: C0060

Height (ft.): 28 Diameter (in.): 6
 NYTMN (km.): 4933.889 NYTME (km.): 474.872

Emission Point: C0061

Height (ft.): 28 Diameter (in.): 6
 NYTMN (km.): 4933.889 NYTME (km.): 474.872

Emission Point: C1650

Height (ft.): 10 Diameter (in.): 4
 NYTMN (km.): 4933.923 NYTME (km.): 474.918

Emission Point: C1651

Height (ft.): 10 Diameter (in.): 4
 NYTMN (km.): 4933.913 NYTME (km.): 474.91

Emission Point: C1653

Height (ft.): 10 Diameter (in.): 4
 NYTMN (km.): 4933.893 NYTME (km.): 474.897 Building: MAIN PLANT

Emission Point: C1654

Height (ft.): 10 Diameter (in.): 4
 NYTMN (km.): 4933.883 NYTME (km.): 474.891

Emission Point: C1655

Height (ft.): 10 Diameter (in.): 4
 NYTMN (km.): 4933.871 NYTME (km.): 474.884

Emission Point: C1656

Height (ft.): 10 Diameter (in.): 4
 NYTMN (km.): 4933.914 NYTME (km.): 474.9

Emission Point: C1657

Height (ft.): 10 Diameter (in.): 4
 NYTMN (km.): 4933.907 NYTME (km.): 474.896

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Facility DEC ID: 6403000002

Emission Point: C1659
 Height (ft.): 30 Diameter (in.): 2
 NYTMN (km.): 4933.891 NYTME (km.): 474.884

Emission Point: C1664
 Height (ft.): 33 Diameter (in.): 8
 NYTMN (km.): 4933.635 NYTME (km.): 474.823

Emission Point: C1668
 Height (ft.): 30 Diameter (in.): 4
 NYTMN (km.): 4933.889 NYTME (km.): 474.872

Emission Point: C1669
 Height (ft.): 29 Diameter (in.): 4
 NYTMN (km.): 4933.889 NYTME (km.): 474.872

Emission Point: C1670
 Height (ft.): 45 Diameter (in.): 24
 NYTMN (km.): 4933.923 NYTME (km.): 474.918

Item 55.5(From Mod 0):

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

Emission Unit: 0-00006

Emission Point: C0050
 Height (ft.): 16 Diameter (in.): 10
 NYTMN (km.): 4933.923 NYTME (km.): 474.918

Emission Point: C0052
 Height (ft.): 9 Diameter (in.): 4
 NYTMN (km.): 4933.923 NYTME (km.): 474.918

Emission Point: C0053
 Height (ft.): 9 Diameter (in.): 4
 NYTMN (km.): 4933.923 NYTME (km.): 474.918

Emission Point: C1666
 Height (ft.): 13 Diameter (in.): 14
 NYTMN (km.): 4933.923 NYTME (km.): 474.881

Emission Point: CU090
 Height (ft.): 15 Diameter (in.): 4
 NYTMN (km.): 4933.923 NYTME (km.): 474.918

Emission Point: CU091
 Height (ft.): 20 Diameter (in.): 4
 NYTMN (km.): 4933.923 NYTME (km.): 474.918

Item 55.6(From Mod 0):

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

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Emission Unit: U-00002

Emission Point: C1608

Height (ft.): 125 Diameter (in.): 22
 NYTMN (km.): 4933.964 NYTME (km.): 474.917

Emission Point: C1641

Height (ft.): 45 Diameter (in.): 26
 NYTMN (km.): 4933.955 NYTME (km.): 474.913

Item 55.7(From Mod 0):

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

Emission Unit: U-00004

Emission Point: C1645

Height (ft.): 30 Diameter (in.): 4
 NYTMN (km.): 4933.985 NYTME (km.): 474.893

Emission Point: C1658

Height (ft.): 32 Diameter (in.): 5
 NYTMN (km.): 4933.898 NYTME (km.): 474.718

Condition 56: Process Definition By Emission Unit

Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 56.1(From Mod 1):

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

Emission Unit: 0-00005

Process: 500 Source Classification Code: 3-05-014-08

Process Description:

This process includes the growth operations involved with the calcium fluoride crystal process and addresses S7 furnaces.

Emission Source/Control: S0020 - Process

Emission Source/Control: S0021 - Process

Emission Source/Control: S0022 - Process

Emission Source/Control: S0023 - Process

Emission Source/Control: S0024 - Process

Emission Source/Control: S0025 - Process

Emission Source/Control: S0026 - Process

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Emission Source/Control: S0027 - Process

Item 56.2(From Mod 1):

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

Emission Unit: 0-00005

Process: 506

Source Classification Code: 3-05-014-11

Process Description: This process includes Radome operations.

Emission Source/Control: K0060 - Control

Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: S0044 - Process

Emission Source/Control: S0045 - Process

Emission Source/Control: S0059 - Process

Emission Source/Control: S0060 - Process

Emission Source/Control: S0061 - Process

Emission Source/Control: S0062 - Process

Item 56.3(From Mod 1):

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

Emission Unit: U-00001

Process: 100

Source Classification Code: 3-05-014-01

Process Description:

This process includes the operation of glass forming furnaces subject to PSD / NSR BACT / LAER and specific NO_x, PM, and PM₁₀ emission limits.

Emission Source/Control: K0002 - Control

Control Type: FABRIC FILTER

Emission Source/Control: K0003 - Control

Control Type: FABRIC FILTER

Emission Source/Control: K0004 - Control

Control Type: FABRIC FILTER

Emission Source/Control: S0001 - Process

Emission Source/Control: S0002 - Process

Emission Source/Control: S0003 - Process

Item 56.4(From Mod 1):

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

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Emission Unit: U-00001

Process: 125

Source Classification Code: 3-05-014-01

Process Description:

This process includes the operation of glass forming furnaces subject to PSD / NSR BACT / LAER.

Emission Source/Control: K0005 - Control

Control Type: FABRIC FILTER

Emission Source/Control: S0006 - Process

Item 56.5(From Mod 1):

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

Emission Unit: U-00001

Process: 150

Source Classification Code: 3-05-014-01

Process Description:

This process includes the operation of glass forming furnaces subject to NSR/PSD and Fume Reactor Units.

Emission Source/Control: K0002 - Control

Control Type: FABRIC FILTER

Emission Source/Control: K0004 - Control

Control Type: FABRIC FILTER

Emission Source/Control: K0006 - Control

Control Type: FABRIC FILTER

Emission Source/Control: K0007 - Control

Control Type: FABRIC FILTER

Emission Source/Control: K0070 - Control

Control Type: FABRIC FILTER

Emission Source/Control: S0055 - Process

Emission Source/Control: S0056 - Process

Emission Source/Control: S0070 - Process

Item 56.6(From Mod 1):

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

Emission Unit: U-00001

Process: 175

Source Classification Code: 3-05-014-01

Process Description:

This process includes the operation of glass forming furnaces subject to PSD / NSR BACT / LAER.

Emission Source/Control: K0071 - Control

Control Type: FABRIC FILTER

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Emission Source/Control: S0071 - Process

Item 56.7(From Mod 1):

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

Emission Unit: U-00004

Process: 400

Source Classification Code: 3-03-009-34

Process Description:

This process handles the sealing and annealing of glass components.

Emission Source/Control: S0011 - Process

Emission Source/Control: S0012 - Process

Item 56.8(From Mod 1):

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

Emission Unit: U-00007

Process: 705

Source Classification Code: 1-05-001-06

Process Description:

This process includes new annealing furnaces, one emergency generator and building heating sources that were permitted as part of the Canton Expansion Project.

Emission Source/Control: S0075 - Combustion

Emission Source/Control: U0120 - Combustion

Emission Source/Control: U0121 - Combustion

Emission Source/Control: U0122 - Combustion

Emission Source/Control: U0130 - Combustion

Emission Source/Control: U0131 - Combustion

Emission Source/Control: U0132 - Combustion

Emission Source/Control: U0133 - Combustion

Emission Source/Control: U0134 - Combustion

Emission Source/Control: U0135 - Combustion

Emission Source/Control: U0136 - Combustion

Emission Source/Control: U0137 - Combustion

Emission Source/Control: U0138 - Combustion

Permit ID: 6-4030-00002/00066

Facility DEC ID: 640300002

Emission Source/Control: U0139 - Combustion

Emission Source/Control: U0140 - Combustion

Emission Source/Control: U0141 - Combustion

Emission Source/Control: U0142 - Combustion

Emission Source/Control: U0143 - Combustion

Item 56.9(From Mod 1):

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

Emission Unit: U-00AIR

Process: AIR

Source Classification Code: 1-03-007-99

Process Description:

This process consists of 4 make-up air heaters rated at
7.6 mmBtu/hr

Emission Source/Control: AIR01 - Combustion

Design Capacity: 7.6 million Btu per hour

Emission Source/Control: AIR02 - Combustion

Design Capacity: 7.6 million Btu per hour

Emission Source/Control: AIR03 - Combustion

Design Capacity: 7.6 million Btu per hour

Emission Source/Control: AIR04 - Combustion

Design Capacity: 7.6 million Btu per hour

Item 56.10(From Mod 0):

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

Emission Unit: 0-00005

Process: 503

Source Classification Code: 3-05-014-11

Process Description:

This process includes the inspection of crystals using a
laser.

Emission Source/Control: K0011 - Control

Control Type: GAS SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: K0012 - Control

Control Type: GAS SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: S0038 - Process

Item 56.11(From Mod 0):

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

Emission Unit: 0-00005

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Process: 505 Source Classification Code: 3-05-014-10

Process Description:

This process involves the use of furnaces to reform glass and remove impurities.

Emission Source/Control: K0008 - Control
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: K0040 - Control
Control Type: GAS SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: K0041 - Control
Control Type: GAS SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: K0101 - Control
Control Type: FLARING

Emission Source/Control: K0102 - Control
Control Type: FLARING

Emission Source/Control: K0103 - Control
Control Type: FLARING

Emission Source/Control: K0104 - Control
Control Type: FLARING

Emission Source/Control: K0105 - Control
Control Type: FLARING

Emission Source/Control: K0106 - Control
Control Type: FLARING

Emission Source/Control: K0107 - Control
Control Type: FLARING

Emission Source/Control: K0108 - Control
Control Type: FLARING

Emission Source/Control: K0109 - Control
Control Type: FLARING

Emission Source/Control: K0110 - Control
Control Type: FLARING

Emission Source/Control: K0111 - Control
Control Type: FLARING

Emission Source/Control: K0112 - Control
Control Type: FLARING

Emission Source/Control: K0113 - Control
Control Type: FLARING

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Emission Source/Control: K0114 - Control
Control Type: FLARING

Emission Source/Control: K0115 - Control
Control Type: FLARING

Emission Source/Control: K0116 - Control
Control Type: FLARING

Emission Source/Control: K0117 - Control
Control Type: FLARING

Emission Source/Control: K0118 - Control
Control Type: FLARING

Emission Source/Control: K0119 - Control
Control Type: FLARING

Emission Source/Control: K0120 - Control
Control Type: FLARING

Emission Source/Control: K0121 - Control
Control Type: FLARING

Emission Source/Control: K0122 - Control
Control Type: FLARING

Emission Source/Control: K0123 - Control
Control Type: FLARING

Emission Source/Control: K0124 - Control
Control Type: FLARING

Emission Source/Control: K0125 - Control
Control Type: FLARING

Emission Source/Control: K0126 - Control
Control Type: FLARING

Emission Source/Control: K0127 - Control
Control Type: FLARING

Emission Source/Control: K0128 - Control
Control Type: FLARING

Emission Source/Control: K0129 - Control
Control Type: FLARING

Emission Source/Control: K0130 - Control
Control Type: FLARING

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Emission Source/Control: K0131 - Control
Control Type: FLARING

Emission Source/Control: K0132 - Control
Control Type: FLARING

Emission Source/Control: K0133 - Control
Control Type: FLARING

Emission Source/Control: K0134 - Control
Control Type: FLARING

Emission Source/Control: K0135 - Control
Control Type: FLARING

Emission Source/Control: K0136 - Control
Control Type: FLARING

Emission Source/Control: K0137 - Control
Control Type: FLARING

Emission Source/Control: K0138 - Control
Control Type: FLARING

Emission Source/Control: K0139 - Control
Control Type: FLARING

Emission Source/Control: K0140 - Control
Control Type: FLARING

Emission Source/Control: K0141 - Control
Control Type: FLARING

Emission Source/Control: K0142 - Control
Control Type: FLARING

Emission Source/Control: K0143 - Control
Control Type: FLARING

Emission Source/Control: K0144 - Control
Control Type: FLARING

Emission Source/Control: K0145 - Control
Control Type: FLARING

Emission Source/Control: K0146 - Control
Control Type: FLARING

Emission Source/Control: K0147 - Control
Control Type: FLARING

Emission Source/Control: K0148 - Control

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Control Type: FLARING

Emission Source/Control: K0149 - Control
Control Type: FLARING

Emission Source/Control: K0150 - Control
Control Type: FLARING

Emission Source/Control: S0040 - Process

Emission Source/Control: S0041 - Process

Emission Source/Control: S0042 - Process

Emission Source/Control: S0046 - Process

Emission Source/Control: S0047 - Process

Emission Source/Control: S0048 - Process

Emission Source/Control: S0057 - Process

Emission Source/Control: S0101 - Process

Emission Source/Control: S0102 - Process

Emission Source/Control: S0103 - Process

Emission Source/Control: S0104 - Process

Emission Source/Control: S0105 - Process

Emission Source/Control: S0106 - Process

Emission Source/Control: S0107 - Process

Emission Source/Control: S0108 - Process

Emission Source/Control: S0109 - Process

Emission Source/Control: S0110 - Process

Emission Source/Control: S0111 - Process

Emission Source/Control: S0112 - Process

Emission Source/Control: S0113 - Process

Emission Source/Control: S0114 - Process

Emission Source/Control: S0115 - Process

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

- Emission Source/Control: S0116 - Process
- Emission Source/Control: S0117 - Process
- Emission Source/Control: S0118 - Process
- Emission Source/Control: S0119 - Process
- Emission Source/Control: S0120 - Process
- Emission Source/Control: S0121 - Process
- Emission Source/Control: S0122 - Process
- Emission Source/Control: S0123 - Process
- Emission Source/Control: S0124 - Process
- Emission Source/Control: S0125 - Process
- Emission Source/Control: S0126 - Process
- Emission Source/Control: S0127 - Process
- Emission Source/Control: S0128 - Process
- Emission Source/Control: S0129 - Process
- Emission Source/Control: S0130 - Process
- Emission Source/Control: S0131 - Process
- Emission Source/Control: S0132 - Process
- Emission Source/Control: S0133 - Process
- Emission Source/Control: S0134 - Process
- Emission Source/Control: S0135 - Process
- Emission Source/Control: S0136 - Process
- Emission Source/Control: S0137 - Process
- Emission Source/Control: S0138 - Process
- Emission Source/Control: S0139 - Process
- Emission Source/Control: S0140 - Process
- Emission Source/Control: S0141 - Process

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Emission Source/Control: S0142 - Process

Emission Source/Control: S0143 - Process

Emission Source/Control: S0144 - Process

Emission Source/Control: S0145 - Process

Emission Source/Control: S0146 - Process

Emission Source/Control: S0147 - Process

Emission Source/Control: S0148 - Process

Emission Source/Control: S0149 - Process

Emission Source/Control: S0150 - Process

Item 56.12(From Mod 0):

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

Emission Unit: 0-00006

Process: 600

Source Classification Code: 2-02-001-02

Process Description:

This process consists of existing CI and SI Emergency RICE subject to 40 CFR 63 Subpart ZZZZ.

Emission Source/Control: S0050 - Combustion

Design Capacity: 1,007 horsepower (mechanical)

Emission Source/Control: S0052 - Combustion

Design Capacity: 370 horsepower (mechanical)

Emission Source/Control: S0053 - Combustion

Design Capacity: 350 horsepower (mechanical)

Emission Source/Control: SU090 - Combustion

Design Capacity: 130 horsepower (mechanical)

Emission Source/Control: SU091 - Combustion

Design Capacity: 173 horsepower (mechanical)

Emission Source/Control: S0034 - Process

Item 56.13(From Mod 0):

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

Emission Unit: 0-00006

Process: 601

Source Classification Code: 2-02-001-02

Process Description:

This process consists of CI Emergency RICE subject to 40 CFR 60 Subpart III.

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Emission Source/Control: S0036 - Combustion

Emission Source/Control: S0037 - Combustion

Item 56.14(From Mod 0):

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

Emission Unit: U-00002

Process: 200

Source Classification Code: 3-05-014-15

Process Description: This process includes glass etching.

Emission Source/Control: S0004 - Process

Emission Source/Control: S0005 - Process

Emission Source/Control: S0013 - Process

Item 56.15(From Mod 0):

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

Emission Unit: U-00004

Process: 401

Source Classification Code: 3-03-009-34

Process Description:

This process involves frit application and sealing glass components.

Emission Source/Control: S0043 - Process

Emission Source/Control: S0054 - Process

Condition 57: Capping Monitoring Condition

Effective between the dates of 03/04/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 57.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

40 CFR 52.21

Item 57.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 57.3:

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,

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

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 57.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 57.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 57.6:

The Compliance Certification activity will be performed for:

Emission Unit: 0-00006

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 57.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Corning will limit emissions of nitrogen oxides below 79120 pounds per year. Corning will maintain operating records including hours of operation and annual emissions for four diesel generators (S0034-S0037) and submit to DEC as required. The emission factor used to determine NOx compliance shall be determined using data from the NOx emission performance test.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Upper Permit Limit: 79120 pounds per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 1-13: Compliance Certification

Effective between the dates of 12/07/2021 and 03/01/2026

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Applicable Federal Requirement:6 NYCRR 231-6.5**Item 1-13.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 1-13.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Based on a Lowest Achievable Emission Rate (LAER) determination, the Corning Plant has determined that LAER for Emission Unit U-00001 Process 100; Process 125; Process 150; Emission Source S0070; and Process 175 glass forming furnaces is oxy-gas firing technology using an oxygen concentration of 99% or greater.

These furnaces are required to use oxy-gas firing technology when in use. Corning Canton Plant is also subject to 40 CFR 52.21. Since a LAER determination has been made and BACT is less restrictive than LAER, the BACT requirements have been satisfied. This condition also satisfies the requirement of RACT under Part 212-3.

Manufacturer Name/Model Number: GLASS FORMING FURNACES

Parameter Monitored: OXYGEN CONTENT

Lower Permit Limit: 99 percent

Monitoring Frequency: ANNUALLY

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED
VALUE AT ANY TIME

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 1-14: Compliance Certification**Effective between the dates of 12/07/2021 and 03/01/2026****Applicable Federal Requirement:6 NYCRR 231-6.5****Item 1-14.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Process: 100

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Regulated Contaminant(s):
 CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 1-14.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NOx emissions are limited to 100.7 lb/hr for emission unit U-00001 Process 100 glass forming furnaces for compliance with LAER. Emission unit U-00001 testing for NOx shall be conducted once every five years for each of the furnace types.

Upper Permit Limit: 100.7 pounds per hour

Reference Test Method: EPA Method 7E

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 1-15: Compliance Certification

Effective between the dates of 12/07/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 231-6.5

Item 1-15.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Process: 125

Emission Source: S0006

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 1-15.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NOx emissions are limited to 50.33 lb/hr for emission unit U-00001 Process 125, Emission Source S0006 glass forming furnaces for compliance with LAER. Emission unit U-00001 testing for NOx shall be conducted once every five years for each of the furnace types.

Manufacturer Name/Model Number: Glass Manufacturing Furnaces

Upper Permit Limit: 50.33 pounds per hour

Reference Test Method: EPA Method 7E

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

facility permit under the minor permit provisions of Subpart 201-6 of this Title or obtain a preconstruction permit under the provisions of Subpart 201-6 of this Title, and must:

(1) maintain the following information for a minimum of five years:

(i) a description of the modification.

(ii) an identification of each new or modified emission source(s) including the associated processes and emission unit.

(iii) the calculation of the project emission potential for each modified emission source(s) including supporting documentation.

(iv) the date the modification commenced operation.

(2) monitor the emissions of each regulated NSR contaminant from the emission source(s) that will increase as a result of the modification, and calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five years following resumption of regular operations after the modification, or for a period of 10 years following resumption of regular operations after the change if the modification increases the design capacity of or potential to emit the regulated NSR contaminant at such emission source(s); and

(3) submit a report to the department within 30 days after the end of each year during which records must be generated in accordance with Paragraph 231-11.2(c)(2) of this Part. The report must contain:

(i) the name, address, and telephone number of the major facility.

(ii) the annual emissions as calculated pursuant to Paragraph (c)(2) of this Section.

(iii) a comparison of actual annual emissions to the projected actual emissions and, if applicable, an explanation as to why the actual annual emissions exceeded the projected actual emissions.

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Condition 1-18: Compliance Certification

Effective between the dates of 12/07/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 231-6.5

Item 1-18.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Process: 150

Emission Source: S0070

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 1-18.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NOx emissions are limited to 33.6 lb/hr for emission unit U-00001 Process 150, Emission Source S0070 glass forming furnaces for compliance with LAER. Emission unit U-00001 testing for NOx shall be conducted once every five years for each of the furnace types.

Manufacturer Name/Model Number: Glass Manufacturing Furnaces

Upper Permit Limit: 33.6 pounds per hour

Reference Test Method: EPA Method 7E

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 1-19: Compliance Certification

Effective between the dates of 12/07/2021 and 03/01/2026

Applicable Federal Requirement:6 NYCRR 231-6.5

Item 1-19.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Process: 175

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 1-19.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Permit ID: 6-4030-00002/00066

Facility DEC ID: 640300002

Monitoring Description:

NOx emissions are limited to 35.2 lb/hr for emission unit U-0001 Process 175 glass forming furnaces for compliance with LAER. Emission unit U-00001 testing for NOx shall be conducted once every five years for each of the furnace types.

Manufacturer Name/Model Number: Glass Manufacturing Furnaces

Upper Permit Limit: 35.2 pounds per hour

Reference Test Method: EPA Method 7E

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 1-20: Compliance Certification

Effective between the dates of 12/07/2021 and 03/01/2026

Applicable Federal Requirement: 6 NYCRR 231-6.5

Item 1-20.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00007

Process: 705

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 1-20.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Based on a Lowest Achievable Emission Rate (LAER) determination, the Corning Plant has determined that LAER for Emission Unit U-00007, Process 705 is as follows. 1) The annealing furnaces in Process 705 meet LAER by utilizing flue gas recirculation in combination with good combustion techniques to achieve a NOx emission rate of 0.0035 lb/MMBtu heat input, 2) the diesel emergency generator (Emission Source SU054) meets LAER by limiting hours of operation to 500 hours per year and by employing good combustion practice to achieve a NOx emission rate of 3.8 g/hp-hr, and 3) small combustion sources (Emission Sources U0120 and U0121) will utilize low-NOx burners to achieve a NOx emission rate of 0.05 lb/MMBtu heat input.

Corning will demonstrate compliance with these by maintaining equipment subject to these limitations in accordance with manufactures' guidelines, or good

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engineering practice, to ensure proper operation of the sources.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

Subsequent reports are due every 6 calendar month(s).

Condition 1-21: Compliance Certification

Effective between the dates of 12/07/2021 and 03/01/2026

Applicable Federal Requirement: 6 NYCRR Subpart 227-2

Item 1-21.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00AIR

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 1-21.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The 4 make-up air heaters are subject to NO_x RACT and will be required to conduct an annual tune-up in accordance with manufacturers specifications. Records will be kept onsite for five years and submitted upon request of the Department. The facility will certify that the tune-up was completed in the annual monitoring reports.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

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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: 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

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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 applicable requirements and are not subject to compliance certification requirements unless otherwise noted or required under 6 NYCRR Part 201.

Condition 59: Contaminant List
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable State Requirement: ECL 19-0301

Item 59.1:

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: 000071-43-2
Name: BENZENE

CAS No: 000098-82-8
Name: BENZENE, (1-METHYLETHYL)

CAS No: 000100-41-4
Name: ETHYLBENZENE

CAS No: 000108-10-1
Name: 2-PENTANONE, 4-METHYL

CAS No: 000108-88-3
Name: TOLUENE

CAS No: 000108-95-2

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Name: PHENOL

CAS No: 000630-08-0

Name: CARBON MONOXIDE

CAS No: 000822-06-0

Name: HEXANE, 1,6-DIISOCYANATO-

CAS No: 001310-73-2

Name: SODIUM HYDROXIDE

CAS No: 001330-20-7

Name: XYLENE, M, O & P MIXT.

CAS No: 007439-92-1

Name: LEAD

CAS No: 007439-96-5

Name: MANGANESE

CAS No: 007439-97-6

Name: MERCURY

CAS No: 007440-38-2

Name: ARSENIC

CAS No: 007440-41-7

Name: BERYLLIUM

CAS No: 007440-43-9

Name: CADMIUM

CAS No: 007440-47-3

Name: CHROMIUM

CAS No: 007440-62-2

Name: VANADIUM

CAS No: 007446-09-5

Name: SULFUR DIOXIDE

CAS No: 007647-01-0

Name: HYDROGEN CHLORIDE

CAS No: 007664-39-3

Name: HYDROGEN FLUORIDE

CAS No: 007664-93-9

Name: SULFURIC ACID

CAS No: 0NY075-00-0

Name: PARTICULATES

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CAS No: 0NY075-00-5
Name: PM-10CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN**Condition 60: Malfunctions and start-up/shutdown activities**
Effective between the dates of 03/04/2021 and 03/01/2026**Applicable State Requirement: 6 NYCRR 201-1.4****Item 60.1:**

(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 malfunctions, maintenance, or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when requested to do so, or when so required by a condition of a permit issued for the corresponding air contamination source. Such reports shall state whether any violations occurred and, if so, whether they were unavoidable, include the time, frequency and duration of the maintenance and/or start-up/shutdown activities, 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 stack monitoring and quarterly reporting requirements need not submit additional reports for equipment maintenance or start-up/shutdown activities for the facility to the department.

(c) In the event that emissions of air contaminants in excess of any emission standard in this Subchapter occur due to a malfunction, the facility owner or operator shall compile and maintain records of the malfunction and 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. 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, identification of air contaminants, and an estimate of the emission rates.

(d) The department may also require the 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 1-22: Malfunctions and Start-up/Shutdown Activities
Effective between the dates of 12/07/2021 and 03/01/2026

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Applicable State Requirement:6 NYCRR 201-1.4**Replaces Condition(s) 60****Item 1-22.1:**

(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 61: CLCPA Applicability
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable State Requirement:6 NYCRR 201-6.5 (a)**Item 61.1:**

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Facility DEC ID: 6403000002

Pursuant to The New York State Climate Leadership and Community Protection Act (CLCPA) and Article 75 of the Environmental Conservation Law, emission sources shall comply with regulations to be promulgated by the Department to ensure that by 2030 statewide greenhouse gas emissions are reduced by 40% of 1990 levels, and by 2050 statewide greenhouse gas emissions are reduced by 85% of 1990 levels.

Condition 62: Air pollution prohibited
Effective between the dates of 03/04/2021 and 03/01/2026

Applicable State Requirement:6 NYCRR 211.1

Item 62.1:

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 1-23: Compliance Demonstration
Effective between the dates of 12/07/2021 and 03/01/2026

Applicable State Requirement:6 NYCRR 212-2.1 (a)

Replaces Condition(s) 63

Item 1-23.1:

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

Emission Unit: 0-00005 Process: 500	Emission Source: S0020
Emission Unit: 0-00005 Process: 500	Emission Point: C0059 Emission Source: S0020
Emission Unit: 0-00005 Process: 500	Emission Source: S0021
Emission Unit: 0-00005 Process: 500	Emission Point: C0059 Emission Source: S0021
Emission Unit: 0-00005 Process: 500	Emission Source: S0022
Emission Unit: 0-00005 Process: 500	Emission Point: C0059 Emission Source: S0022
Emission Unit: 0-00005 Process: 500	Emission Source: S0023

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Emission Unit: 0-00005 Process: 500	Emission Point: C0059 Emission Source: S0023
Emission Unit: 0-00005 Process: 500	Emission Source: S0024
Emission Unit: 0-00005 Process: 500	Emission Point: C0059 Emission Source: S0024
Emission Unit: 0-00005 Process: 500	Emission Source: S0025
Emission Unit: 0-00005 Process: 500	Emission Point: C0059 Emission Source: S0025
Emission Unit: 0-00005 Process: 500	Emission Source: S0026
Emission Unit: 0-00005 Process: 500	Emission Point: C0059 Emission Source: S0026
Emission Unit: 0-00005 Process: 500	Emission Source: S0027
Emission Unit: 0-00005 Process: 500	Emission Point: C0059 Emission Source: S0027
Emission Unit: 0-00005 Process: 506	Emission Source: S0059
Emission Unit: 0-00005 Process: 506	Emission Point: C0059 Emission Source: S0059
Emission Unit: 0-00005 Process: 506	Emission Source: S0060
Emission Unit: 0-00005 Process: 506	Emission Point: C0059 Emission Source: S0060
Emission Unit: U-00001 Process: 100	Emission Source: S0001
Emission Unit: U-00001 Process: 100	Emission Point: C1647 Emission Source: S0001
Emission Unit: U-00001 Process: 100	Emission Source: S0002
Emission Unit: U-00001 Process: 100	Emission Point: C1647 Emission Source: S0002
Emission Unit: U-00001	

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Facility DEC ID: 640300002

Process: 100	Emission Source: S0003
Emission Unit: U-00001 Process: 100	Emission Point: C1646 Emission Source: S0003
Emission Unit: U-00001 Process: 125	Emission Source: S0006
Emission Unit: U-00001 Process: 125	Emission Point: C1648 Emission Source: S0006
Emission Unit: U-00001 Process: 150	Emission Source: S0055
Emission Unit: U-00001 Process: 150	Emission Point: C1646 Emission Source: S0055
Emission Unit: U-00001 Process: 150	Emission Source: S0056
Emission Unit: U-00001 Process: 150	Emission Point: C1646 Emission Source: S0056
Emission Unit: U-00001 Process: 150	Emission Source: S0070
Emission Unit: U-00001 Process: 150	Emission Point: C1646 Emission Source: S0070

Regulated Contaminant(s):

CAS No: 000071-43-2	BENZENE
CAS No: 000822-06-0	HEXANE, 1,6-DIISOCYANATO-
CAS No: 007439-92-1	LEAD
CAS No: 007439-96-5	MANGANESE
CAS No: 007439-97-6	MERCURY
CAS No: 007440-38-2	ARSENIC
CAS No: 007440-41-7	BERYLLIUM
CAS No: 007440-43-9	CADMIUM
CAS No: 007440-47-3	CHROMIUM
CAS No: 007440-62-2	VANADIUM
CAS No: 000050-00-0	FORMALDEHYDE

Item 1-23.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The Canton facility has Part 212 regulated emission sources that emit the High Toxicity Air Contaminants (HTACs) identified in this condition. Since the facility-wide actual emissions from Part 212 regulated emission sources is less than the respective Mass Emission

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Process: 505	Emission Source: S0042
Emission Unit: 0-00005 Process: 505	Emission Point: C0059 Emission Source: S0042
Emission Unit: 0-00005 Process: 505	Emission Source: S0046
Emission Unit: 0-00005 Process: 505	Emission Point: C0059 Emission Source: S0046
Emission Unit: 0-00005 Process: 505	Emission Source: S0047
Emission Unit: 0-00005 Process: 505	Emission Point: C0059 Emission Source: S0047
Emission Unit: 0-00005 Process: 505	Emission Source: S0048
Emission Unit: 0-00005 Process: 505	Emission Point: C0059 Emission Source: S0048
Emission Unit: 0-00005 Process: 505	Emission Source: S0057
Emission Unit: 0-00005 Process: 505	Emission Point: C0059 Emission Source: S0057
Emission Unit: 0-00005 Process: 506	Emission Source: S0044
Emission Unit: 0-00005 Process: 506	Emission Point: C0059 Emission Source: S0044
Emission Unit: 0-00005 Process: 506	Emission Source: S0045
Emission Unit: 0-00005 Process: 506	Emission Point: C0059 Emission Source: S0045
Emission Unit: 0-00005 Process: 506	Emission Source: S0059
Emission Unit: 0-00005 Process: 506	Emission Point: C0059 Emission Source: S0059
Emission Unit: 0-00005 Process: 506	Emission Source: S0060
Emission Unit: 0-00005 Process: 506	Emission Point: C0059 Emission Source: S0060

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Emission Unit: U-00004
 Process: 401

Emission Source: S0043

Emission Unit: U-00004
 Process: 401

Emission Point: C1658
 Emission Source: S0043

Regulated Contaminant(s):

CAS No: 000098-82-8	BENZENE, (1-METHYLETHYL)
CAS No: 000100-41-4	ETHYLBENZENE
CAS No: 000108-10-1	2-PENTANONE, 4-METHYL
CAS No: 000108-88-3	TOLUENE
CAS No: 000108-95-2	PHENOL
CAS No: 001310-73-2	SODIUM HYDROXIDE
CAS No: 007647-01-0	HYDROGEN CHLORIDE
CAS No: 007664-93-9	SULFURIC ACID
CAS No: 001330-20-7	XYLENE, M, O & P MIXT.

Item 64.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility has Part 212 regulated emission sources that emit the air contaminants identified in this condition. These contaminants are not High Toxicity Air Contaminants (HTACs). Since the facility-wide actual emissions from Part 212 regulated emission sources is less than 100 pounds per year for each contaminant, the emissions are presumed to be in compliance with the requirements of Table 4 - Degree of Air Cleaning Required for Non-Criteria Air Contaminants. Air dispersion modeling is not required for these compounds.

If the site-wide actual emissions from Part 212 regulated emission sources equal or exceed 100 pounds per year for any contaminant, air dispersion modeling shall be performed in order to demonstrate that the maximum offsite ambient air concentration is less than the applicable AGC/SGC for the compound. The air dispersion modeling results shall be submitted in a form acceptable to the Department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 65: Compliance Demonstration

Effective between the dates of 03/04/2021 and 03/01/2026

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

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Item 65.1:

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

Emission Unit: 0-00005

Emission Unit: U-00002

Regulated Contaminant(s):
CAS No: 007664-39-3 HYDROGEN FLUORIDE

Item 65.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Corning has demonstrated that the ambient impact of the hydrogen fluoride (HF) emissions from the facility does not exceed the Part 257-8 ambient fluoride standard, based on a dispersion modeling report submitted to the Department in July 2011. The dispersion model accounted for maximum facility wide HF emissions given currently know operating conditions. In the event that source operating conditions change in a manner that will produce 12-hour HF emissions that are greater than those represented in the July 2011 model, Corning shall update the dispersion model to demonstrate that the new HF emissions scenario continues to be in compliance with the Part 257-8 fluoride standard. Corning will maintain records of all revised dispersion modeling results on-site and make the results available for the Department's inspection upon request. This condition is subject to annual certification.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2021.

Subsequent reports are due every 6 calendar month(s).

Condition 66: Compliance Demonstration
Effective between the dates of 03/04/2021 and 03/01/2026

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

Item 66.1:

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

Emission Unit: U-00002

Process: 200

Emission Source: S0004

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Emission Unit: U-00002

Process: 200

Emission Source: S0005

Regulated Contaminant(s):

CAS No: 007664-39-3

HYDROGEN FLUORIDE

Item 66.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Corning will perform emission stack testing for total fluorides once per permit term. A protocol is subject to NYSDEC approval. Once the stack test results are approved by NYSDEC and if necessary, the results may be used to update the dispersion modeling if required. The dispersion modeling must demonstrate compliance with all 6 NYCRR Part 257-4 standards, including the monthly average ambient air quality standard of 1.0 parts per billion by volume. The 1.0 parts per billion limit is not an emission point stack limit.

Reference Test Method: EPA Method 26A

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 1-24: Compliance Demonstration

Effective between the dates of 12/07/2021 and 03/01/2026

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

Item 1-24.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00001

Process: 100

Emission Source: K0002

Emission Unit: U-00001

Process: 100

Emission Source: K0003

Emission Unit: U-00001

Process: 100

Emission Source: K0004

Emission Unit: U-00001

Process: 125

Emission Source: K0005

Emission Unit: U-00001

Process: 150

Emission Source: K0002

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Condition 1-25: Compliance Demonstration
Effective between the dates of 12/07/2021 and 03/01/2026

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

Item 1-25.1:

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

Emission Unit: U-00001

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 1-25.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emissions of particulates are limited to less than 0.050 grains of particulates per dry standard cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis. Compliance testing for emission unit U-0001 will be conducted once per permit term.

Upper Permit Limit: 0.050 grains per dscf

Reference Test Method: EPA Method 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**** Emission Unit Level ****

Condition 1-26: Compliance Demonstration
Effective between the dates of 12/07/2021 and 03/01/2026

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

Item 1-26.1:

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

Emission Unit: U-00001

Process: 100 Emission Source: K0002

Emission Unit: U-00001

Process: 100 Emission Source: K0003

Emission Unit: U-00001

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Process: 100	Emission Source: K0004
Emission Unit: U-00001 Process: 100	Emission Source: S0001
Emission Unit: U-00001 Process: 100	Emission Source: S0002
Emission Unit: U-00001 Process: 100	Emission Source: S0003
Emission Unit: U-00001 Process: 125	Emission Source: K0005
Emission Unit: U-00001 Process: 125	Emission Source: S0006
Emission Unit: U-00001 Process: 150	Emission Source: K0002
Emission Unit: U-00001 Process: 150	Emission Source: K0004
Emission Unit: U-00001 Process: 150	Emission Source: K0006
Emission Unit: U-00001 Process: 150	Emission Source: K0007
Emission Unit: U-00001 Process: 150	Emission Source: K0070
Emission Unit: U-00001 Process: 150	Emission Source: S0055
Emission Unit: U-00001 Process: 150	Emission Source: S0056
Emission Unit: U-00001 Process: 150	Emission Source: S0070
Emission Unit: U-00001 Process: 175	Emission Source: K0071
Emission Unit: U-00001 Process: 175	Emission Source: S0071
Regulated Contaminant(s): CAS No: 0NY075-00-0	PARTICULATES

Item 1-26.2:

Compliance Demonstration shall include the following monitoring:

Permit ID: 6-4030-00002/00066

Facility DEC ID: 6403000002

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The control of particulate emissions released from new and modified process emission sources. 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 Subdivisions 212-2.5(a) and (b) of this Part.

Parameter Monitored: PM-10

Upper Permit Limit: 0.050 grains per dscf

Reference Test Method: Method 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 1-27: Compliance Demonstration
Effective between the dates of 12/07/2021 and 03/01/2026

Applicable State Requirement:6 NYCRR 212-2.1 (a)

Item 1-27.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001

Process: 175

Item 1-27.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For an air contaminant listed in Section 212-2.2 Table 2 – High Toxicity Air Contaminant List, of this Part, the facility owner or operator shall demonstrate compliance with the air cleaning requirements for the HTAC as specified in Subdivision 212-2.3(b), Table 4 – Degree of Air Cleaning Required for Non-Criteria Air Contaminants.

For an HTAC assigned an Environmental Rating of A and has an Emission Rate Potential (ERP) of less than 0.1 pound

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per hour and annual mass emissions of a persistent and bioaccumulative compound less than the PB Trigger, the owner or operator is required to meet the short term and annual guideline concentration at the fence line of the facility.

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: ANNUAL TOTAL

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 1-28: Compliance Demonstration

Effective between the dates of 12/07/2021 and 03/01/2026

Applicable State Requirement: 6 NYCRR 212-2.1 (a)

Item 1-28.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001

Process: 175

Item 1-28.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For an air contaminant listed in Section 212-2.2 Table 2 – High Toxicity Air Contaminant List, of this Part, the facility owner or operator shall demonstrate compliance with the air cleaning requirements for the HTAC as specified in Subdivision 212-2.3(b), Table 4 – Degree of Air Cleaning Required for Non-Criteria Air Contaminants.

For an HTAC assigned an Environmental Rating of A and has an Emission Rate Potential (ERP) of less than 0.1 pound per hour and annual mass emissions of a persistent and bioaccumulative compound less than the PB Trigger, the owner or operator is required to meet the short term and annual guideline concentration at the fence line of the facility.

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: ANNUAL TOTAL

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 1-29: Compliance Demonstration

Effective between the dates of 12/07/2021 and 03/01/2026

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

Item 1-29.1:

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The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001
 Process: 175

Item 1-29.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility owner or operator shall not allow emissions of an air contaminant to violate the requirements specified in Subdivision 212-2.3(b), Table 4 – Degree of Air Cleaning Required for Non-Criteria Air Contaminants for the environmental rating assigned to the contaminant by the department.

A process emission source emitting an air contaminant and having an emission rate potential (ERP) of less than 10 pounds per hour and a Environmental Rating of B or C must meet the annual and short term guideline concentrations for the air contaminant at the fence line of the facility.

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 1-30: Compliance Demonstration

Effective between the dates of 12/07/2021 and 03/01/2026

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

Item 1-30.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00001
 Process: 175

Item 1-30.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility owner or operator shall not allow emissions of an air contaminant to violate the requirements specified in Subdivision 212-2.3(b), Table 4 – Degree of Air Cleaning Required for Non-Criteria Air Contaminants for the environmental rating assigned to the contaminant by the department.

A process emission source emitting an air contaminant and

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having an emission rate potential (ERP) of less than 10 pounds per hour and a Environmental Rating of B or C must meet the annual and short term guideline concentrations for the air contaminant at the fenceline of the facility.

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

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