



State of Ohio Environmental Protection Agency

**RE: DRAFT PERMIT TO INSTALL
LICKING COUNTY**

CERTIFIED MAIL

Street Address:

Mailing Address:

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Lazarus Gov.
Center

Application No: 01-12119

Fac ID: 0145000213

DATE: 3/1/2007

G E Quartz Inc
Julia Taylor
611 O Neill Drive
Hebron, OH 43025

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43216-1049.

A Permit to Install may be issued in proposed or final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install a fee of **\$400** will be due. Please do not submit any payment now.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Field Operations & Permit Section at (614) 644-3631.

Sincerely,

Michael W. Ahern

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: USEPA

CDO

Synthetic Minor Determination and/or Netting Determination

Permit To Install: "01-12119"

A. Source Description

The applicant, Momentive Performance Materials Quartz, Inc., has submitted a PTI application for the proposed installation of two large diameter lathes (B032-B033). The purpose of the large diameter lathes is to expand quartz tubes.

B. Facility Emissions and Attainment Status

Momentive Performance Materials Quartz, Inc. is classified as a major source in the Columbus, Ohio ozone nonattainment area, due to its emissions of nitrogen oxide (NO_x). Without synthetic minor limitations presented in this permit, potential emissions from the two large diameter lathes would trigger Nonattainment New Source Review (NNSR) permitting thresholds levels. The facility wide emissions (tons per year), *with* synthetic minor limits, is 244.3 tons per year of NO_x, 107.1 tons per year of particulate emissions, and 313.6 tons per year of ammonia (NH₃).

The ammonia is a by-product of NO_x control. Emissions from the two large diameter lathes will be controlled by a reaction with ammonia in the selective catalytic reduction (SCR) pollution control equipment. Excess ammonia is used in the SCR which results in the emission of unreacted ammonia (ammonia slip).

Momentive Performance Materials Quartz, Inc. is located in Licking County. Currently, Licking County is attainment for all criteria pollutants *excluding* ozone. The facility manufactures fused quartz crucibles and glass tubing. The sources will be located at the following address:

611 O'Neill Drive SE
Hebron, Ohio 43025

C. Source Emissions

Yearly potential *uncontrolled* emissions of pollutants from the two large diameter lathes is:

NO_x - 350.2 tons per year
PE - 4.8 tons per year

Yearly potential *controlled* with a rolling, 12-month limitation emissions of pollutants from the two large diameter lathes is:

NO_x - 39.0 tons per year
PE - 4.8 tons per year
NH₃ - 49.0 tons per year

The use of the selective catalytic reduction (SCR) pollution control equipment will reduce nitrogen oxide potential emissions of 350.2 tons per year by 311.2 tons per year. Therefore, potential emissions of 350.2 tons per year are reduced to 39.0 tons per year (350.2 - 311.2 = 39.0).

D. Conclusion

The two large diameter lathes are not a Major Modification under Nonattainment New Source Review because the applicant has limited the total yearly emissions on NO_x from this group of emissions units to less than 40 tons per year. The reduction of yearly emissions will be achieved by the control efficiency of the pollution control equipment (SCR). The nitrogen oxide potential emissions of 350.2 tons per year are reduced to 39.0 tons per year.

The synthetic minor emission limit will effectively restrict the nitrogen oxide emissions below Nonattainment New Source Review thresholds for a major modification. The operational restrictions, record keeping, reporting and testing requirements will ensure that compliance with this permit is achieved and maintained.



**Permit To Install
Terms and Conditions**

**Issue Date: To be entered upon final issuance
Effective Date: To be entered upon final issuance**

DRAFT PERMIT TO INSTALL 01-12119

Application Number: 01-12119
Facility ID: 0145000213
Permit Fee: **To be entered upon final issuance**
Name of Facility: G E Quartz Inc
Person to Contact: Julia Taylor
Address: 611 O Neill Drive
Hebron, OH 43025

Location of proposed air contaminant source(s) [emissions unit(s)]:

**611 O'Neill Drive
Hebron, Ohio**

Description of proposed emissions unit(s):

Large diameter lathes no 19 and 20.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski
Director

G E Quartz Inc
PTI Application: 01-12119
Issued: To be entered upon final issuance
Part I - GENERAL TERMS AND CONDITIONS

Facility ID: 0145000213

A. State and Federally Enforceable Permit-To-Install General Terms and Conditions

1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), 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.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written

G E Quartz Inc**Facility ID: 0145000213****PTI Application: 01-12119****Issued: To be entered upon final issuance**

reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See B.9 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
 - iv. If this permit is for an emissions unit located at a Title V facility, then each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d. The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain,

G E Quartz Inc

Facility ID: 0145000213

PTI Application: 01-12119

Issued: To be entered upon final issuance

the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

G E Quartz Inc

Facility ID: 0145000213

PTI Application: 01-12119

Issued: To be entered upon final issuance

7. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

G E Quartz Inc

Facility ID: 0145000213

PTI Application: 01-12119

Issued: To be entered upon final issuance

8. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

9. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of

G E Quartz Inc

Facility ID: 0145000213

PTI Application: 01-12119

Issued: To be entered upon final issuance

the Ohio EPA. Progress reports shall contain the following:

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

10. Permit-To-Operate Application

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this permit is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the source(s) covered by this permit.

11. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

12. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

13. Permit-To-Install

G E Quartz Inc

Facility ID: 0145000213

PTI Application: 01-12119

Issued: To be entered upon final issuance

A permit-to-install must be obtained pursuant to OAC Chapter 3745-31 prior to "installation" of "any air contaminant source" as defined in OAC rule 3745-31-01, or "modification", as defined in OAC rule 3745-31-01, of any emissions unit included in this permit.

G E Quartz Inc

Facility ID: 0145000213

PTI Application: 01-12119

Issued: To be entered upon final issuance

B. State Only Enforceable Permit-To-Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

4. Authorization To Install or Modify

If applicable, authorization to install or modify any new or existing emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of

G E Quartz Inc**Facility ID: 0145000213****PTI Application: 01-12119****Issued: To be entered upon final issuance**

installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

5. Construction of New Sources(s)

This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

6. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

7. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

8. Construction Compliance Certification

If applicable, the applicant shall provide Ohio EPA with a written certification (see enclosed form if applicable) that the facility has been constructed in accordance with the permit-to-install application and the terms and conditions of the permit-to-install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

G E Quartz Inc

Facility ID: 0145000213

PTI Application: 01-12119

Issued: To be entered upon final issuance

9. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly (i.e., postmarked), by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

G E Quartz Inc**Facility ID: 0145000213****PTI Application: 01-12119****Issued: To be entered upon final issuance****C. Permit-To-Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
NOx	39.0
NH3	49.0

G E Quartz Inc

Facility ID: 0145000213

PTI Application: 01-12119

Issued: To be entered upon final issuance

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions

I. Emission Limitations

1. Pursuant to OAC rule 3745-31-05(C), total nitrogen oxides (NO_x) emissions from the selective catalytic reduction (SCR) unit stack shall not exceed 39.0 tons per year for emissions units B032 and B033 combined as a rolling, 12-month summation of the NO_x emissions.

Pursuant to OAC rule 3745-31-05(C), total NO_x emissions from the SCR unit stack shall not exceed 210.7 tons per year for emissions units B001, B002, B003, B004, B005, B006, B023, B024, B025, B026, B027, B028, B029, B030, B031, B032, B033, P010, P011, P012, P014, P015, P021, P032, P035, and P036, combined, as a rolling, 12-month summation of the NO_x emissions.

Pursuant to OAC rule 3745-17-07(A), visible particulate emissions (PE) from the SCR unit stack serving emissions units B032 and B033 shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

2. Additional Terms and Conditions

- 2.a The permittee shall control NO_x emissions from emissions units B032 and B033 by using a selective catalytic reduction (SCR) unit.
- 2.b The permittee shall install a continuous emissions monitoring system (CEMS) to measure the uncontrolled NO_x emission rate from emissions units B032 and B033 combined, prior to its discharge to the main inlet duct to the SCR. This CEMS is hereafter referred to as the Large Diameter Lathe (LDL) CEMS.
- 2.c A continuous emissions monitoring system (CEMS) malfunction is defined as any time in which the LDL CEMS is not able to sample or analyze the nitrogen oxides in the gas stream exiting the LDL units.
- 2.d A SCR malfunction is defined as any time that the SCR automatically shuts down due to an internal control system setting. A SCR malfunction will also include instances where the permittee manually determines that the SCR is not operating properly and must be shut down. The malfunction event will begin at the time of automatic shutdown of the SCR (as recorded by the SCR control

G E Quartz Inc**Facility ID: 0145000213****PTI Application: 01-12119****Issued: To be entered upon final issuance**

system) or at the time a malfunction requiring SCR shutdown is manually identified by the permittee.

- 2.e** In the event of a LDL CEMS malfunction, emissions units B032 and B033 shall be shut down after completion of the work in progress at the time the malfunction began. Once the emissions unit(s) is (are) shut down, the emissions unit(s) shall remain shut down until the CEMS is no longer malfunctioning.
- 2.f** In order to continue to operate the above emissions units during or after a LDL CEMS malfunction, the permittee may develop and submit for pre-approval to the Ohio EPA, CDO an alternative compliance method for estimating the emissions from the large diameter lathe units listed in Section A.I.2.e above.
- 2.g** CEMS Quality Assurance/ Quality Control
- Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the LDL CEMS designed to ensure continuous valid and representative readings of pre-control NOx emissions from the large diameter lathe units in units of pounds per hour and tons per month. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the LDL CEMS must be kept on site and available for inspection during regular office hours.
- 2.h** CEMS Statement of Certification
- Within 180 days after startup of the large diameter lathe units, the permittee shall conduct certification tests of the LDL CEMS pursuant to ORC section 3704.03(I) and 40 CFR Part 60, Appendix B, Performance Specification 2.
- 2.i** In the event of an SCR malfunction, emissions units B032 and B033 will be shut down within one hour of operation after SCR malfunction.
- 2.j** In the event that the SCR catalyst has degraded to the point that it needs to be replaced, the permittee is still authorized to operate emissions units B032 and B033 for up to 60 days provided the following conditions are met:
- i. The permittee has ordered replacement catalyst no later than 10 business days after the permittee has determined that the catalyst has irreversibly degraded below the acceptable activity level; and
 - ii. The permittee shall notify OEPA, CDO, DAPC within 5 business days upon determining the catalyst has irreversibly degraded; and
 - iii. Emissions of NOx from the SCR do not exceed 39.0 tons, from emissions units B032 and B033 on a rolling, 12-month period; and

G E Quartz Inc
PTI Application: 01-12119
Issued: To be entered upon final issuance

Facility ID: 0145000213

- iv. emissions of NOx for each emissions unit do not exceed the limits specified in the following table (These limits are based on the maximum hourly MMBtu demand and on the SCR operating at 50 % efficiency):

Emissions Unit	NOx Emissions Limit lbs/hr
B032	20.0
B033	20.0

II. Operational Restrictions

None

III. Monitoring and Record Keeping Requirements

- The permittee shall operate and maintain the LDL CEMS to continuously monitor and record combined NOx emissions from emissions units B032 and B033. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.
- The permittee shall continue to operate and maintain the SCR control efficiency monitoring system as required by PTI 01-08818 and the current Final Title V for this facility.
- The permittee shall maintain records of all data obtained by the LDL CEMS and the SCR control efficiency monitoring system, including pre-control emissions of NOx for the LDL units in units of pounds per hour and tons per month, the 3-hour average NOx control efficiency of the SCR, results of daily zero/span calibration checks and magnitude of manual calibration adjustments.
- The permittee shall calculate emissions of NOx each hour from emissions units B032 and B033 combined from the LDL CEMS and SCR efficiency data as follows:

NOx emissions rate = pre-control NOx emissions rate (lb/hr) x (1 – SCR control efficiency).
- The permittee shall calculate monthly emissions of NOx from emissions units B032 and B033 combined by summing the individual hourly emissions calculated in Section A.III.5 for all hours of operation in the month. The permittee shall also calculate the

G E Quartz Inc**Facility ID: 0145000213****PTI Application: 01-12119****Issued: To be entered upon final issuance**

rolling, 12-month NOx emissions from emissions units B032 and B033.

6. The permittee shall collect and record the following information for each LDL CEMS malfunction:
 - a. The number of large diameter lathe units operating.
 - b. The total duration of the LDL CEMS malfunction, in hours.
 - c. The estimated NOx emissions from the large diameter lathe units in operation calculated by multiplying the number of large diameter lathe units in operation in Section A.III.6.a, by the total hours of the LDL CEMS malfunctions in Section A.III.6.b, by the maximum uncontrolled emission rate of 40 lbs NOx/hr by one minus the concurrent 3-hour average SCR control efficiency.
7. The permittee shall collect and record the following information for each SCR CEMS malfunction which causes NOx control efficiency to not be measured:
 - a. The actual uncontrolled NOx emissions from the LDL CEMS.
 - b. The total duration of the SCR CEMS malfunction, in hours.
 - c. For each hour of the SCR CEMS malfunction, the estimated NOx emissions from the large diameter lathe units in operation calculated by multiplying the uncontrolled NOx emissions from the LDL CEMS in Section A.III.7.a, by one minus the minimum assumed SCR control efficiency of 70%.
8. The permittee shall perform daily checks, using either certified or non-certified visible emissions observers, when any of the emissions units identified in Section A.I.1 are in operation and when the weather conditions allow, for any visible particulate emissions from the SCR unit stack serving these emissions units. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. The color of the emissions;
 - b. Whether the emissions are representative of normal conditions;
 - c. If the emissions are not representative of normal conditions, the cause(s) of the abnormal emissions;
 - d. The total duration of any visible emission incident; and
 - e. Any corrective actions taken to eliminate the visible emissions.

Note: The presence of any visible particulate emissions may or may not indicate a

G E Quartz Inc**Facility ID: 0145000213****PTI Application: 01-12119****Issued: To be entered upon final issuance**

violation of the particulate mass emission limitation and/or visible emission limitation. If required, compliance with the particulate mass emission limitation and the visible emission limitation shall be determined by performing concurrent mass emission tests and visible emissions observations, using USEPA approved methods and procedures. The results of any required mass emission tests and visible emissions observations shall be used in determining whether or not the presence of any visible particulate emissions is indicative of a possible violation of the particulate mass emission limitation and/or visible emission limitation.

If the daily checks show visible emissions that are representative of normal operation for 30 consecutive operating days, the required frequency of visible emissions checks may be reduced to weekly (once per week, when any of the emissions units identified in Section A.I.1 are in operation). If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to daily until such time as there are 30 consecutive operating days of normal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify:
 - a. all exceedances of the rolling, 12-month NO_x emission limitation for emissions units B032 and B033 combined; and
 - b. all exceedances of the rolling, 12-month NO_x emission limitation for emissions units B001, B002, B003, B004, B005, B006, B023, B024, B025, B026, B027, B028, B029, B030, B031, B032, B033, P010, P011, P012, P014, P015, P021, P032, P035, and P036 combined.

The quarterly deviation reports shall be submitted in accordance with the requirements specified in Part I - General Terms and Condition A.1.c.ii.

2. LDL CEMS Data Reporting

The permittee must submit data for the LDL CEMS (that meets the requirements of 40 CFR Part 60.13 and has received certification from Ohio EPA) to Ohio EPA, Central Office on a quarterly basis. The data presented in the quarterly reports shall reflect emissions unit operations, monitoring availability, actual tons of NO_x, and excess NO_x emissions in units of pounds per hour and rolling, 12-month limitation (in tons) for the previous calendar quarter.

The permittee shall submit reports within one month following the end of each calendar

G E Quartz Inc**Facility ID: 0145000213****PTI Application: 01-12119****Issued: To be entered upon final issuance**

quarter to the Ohio EPA, CDO documenting any LDL CEMS downtime while the emissions unit was on line (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall address the data obtained during the previous calendar quarter.

3. LDL CEMS Electronic Data Reporting, Summary Form

Pursuant to OAC rule 3745-15-04 and ORC sections 3704.03(I) and 3704.031, the permittee shall submit a summary of the excess emission report pursuant to 40 CFR Part 60.7. The summary shall be submitted to the Ohio EPA, CDO within the schedule required in Part I, Section A.1.c.ii. of this PTI.

- 4.** The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to Ohio EPA, CDO by January 31 and July 31 of each year and shall cover the previous 6-month period.

V. Testing Requirements

- 1.** Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

39.0 tons per year NOx emissions from the SCR unit stack for emissions units B032 and B033, combined, as a rolling, 12-month summation of the NOx emissions.

Applicable Compliance Method:

Compliance shall be based on the record keeping in Section III, Monitoring and Recordkeeping, terms 1 through 7.

- b. 210.7 tons per year NOx emissions from the SCR unit stack for emissions units

G E Quartz Inc

Facility ID: 0145000213

PTI Application: 01-12119

Issued: To be entered upon final issuance

B001, B002, B003, B004, B005, B006, B023, B024, B025, B026, B027, B028, B029, B030, B031, B032, B033, P010, P011, P012, P014, P015, P021, P032, P035, and P036, combined, as a rolling, 12-month summation of the NOx emissions.

Applicable Compliance Method:

Compliance shall be based on the record keeping in Section III, Monitoring and Recordkeeping, terms 1 through 7 and record keeping in Part II Section A.4 of the Final Title V Permit for this facility.

G E Quartz Inc

Facility ID: 0145000213

PTI Application: 01-12119

Issued: To be entered upon final issuance

c. Emission Limitation:

Visible particulate emissions (PE) from the SCR unit stack serving emissions units B032 and B033 shall not exceed 20% opacity, as a 6-minute average, except as provided by OAC rule 3745-17-07.

Applicable Compliance Method:

Compliance shall be based on the record keeping in Section III, Monitoring and Record keeping, term 8.

If required by Ohio EPA and/or U.S. EPA, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. Relative Accuracy Test Audit

To ensure the validity of the data from the LDL CEMS, the permittee shall certify the accuracy of the LDL CEMS annually pursuant to provisions for a relative accuracy test audit (RATA) in 40 CFR Part 60, Appendix F.

VI. Miscellaneous Requirements

None

G E Quartz Inc
PTI Application: 01-12119
Issued: To be entered upon final issuance

Facility ID: 0145000213

B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions

I. Emission Limitations

1. Ammonia emissions from the SCR unit stack from B032 and B033 combined shall not exceed 11.2 pounds per hour and 49.0 tons per year.

Ammonia is an air toxic, and the hourly emission limitation was established to reflect the status quo ammonia emission rate for this emissions unit for future air toxics evaluations that may involve this emissions unit.

2. **Additional Terms and Conditions**

None

II. Operational Restrictions

None

III. Monitoring and Record Keeping Requirements

1. Air Toxics Language

Ammonia emissions from the SCR unit stack were evaluated based on the actual materials and the design parameters of the SCR unit. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by the SCR unit using actual operating data and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: ammonia

TLV (mg/m³): 17

Maximum Hourly Emission Rate (lbs/hr): 71.6 *

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 132.5

MAGLC (ug/m³): 404.8

* Includes 11.2 lbs/hr from B032 and B033 plus 60.4 lbs/hr allowed under PTI 01-08818.

G E Quartz Inc**Facility ID: 0145000213****PTI Application: 01-12119****Issued: To be entered upon final issuance**

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

- a. Changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. Changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. Physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions units that vent to the SCR unit will still satisfy the "Air Toxic Policy":

- a. A description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

G E Quartz Inc**Facility ID: 0145000213****PTI Application: 01-12119****Issued: To be entered upon final issuance**

- b. Documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. Where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

IV. Reporting Requirements

None

V. Testing Requirements

1. Compliance with the emission limitations in Section B.I.1 of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:
Ammonia emissions from the SCR unit stack shall not exceed 11.2 pounds per hour.

Applicable Compliance Method:

If required by the Ohio EPA and/or U.S. EPA, compliance shall be demonstrated through emission testing in accordance with 40 CFR Part 60, Appendix A, Methods 1 - 4 and Conditional Test Method 027. Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA, CDO.

- b. Emission Limitation:
Ammonia emissions from the SCR unit stack from B032 and B033 combined, shall not exceed 49.0 tons per year.

Applicable Compliance Method:

Compliance with the annual emission limitation for ammonia shall be assumed provided compliance is maintained with the pound per hour emission limitation for ammonia. The annual limitation was calculated by multiplying the hourly limitation by 8760 hours per year and dividing by 2000 pounds per ton.

VI. Miscellaneous Requirements

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

**Operations, Property, and/or Equipment - (B032) - Large Diameter Lathe No. 19 - 5.04
MMBtu/hr controlled with a SCR unit and monitored by a NOx CEMS.**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-11(B)(1), and 3745-31-05(C).</p> <p>Nitrogen oxides (NOx) emissions from this emissions unit alone from the SCR unit stack shall not exceed 12.0 pounds per hour.</p> <p>See A.1.2.a below.</p>
OAC rule 3745-31-05(C) (synthetic minor to avoid PSD)	Total NOx emissions from emissions units B032 and B033 shall not exceed 39.0 tons per year combined, as a rolling 12-month summation of the NOx emissions.
OAC rule 3745-17-07(A)	Visible PE from the SCR unit stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
OAC rule 3745-17-11(B)(1)	PE for this emissions unit alone from the SCR unit stack shall not exceed 0.551 pound per hour based on Table I which is more stringent than the allowable PE rate from Figure II.

2. Additional Terms and Conditions

- 2.a The permittee shall vent the emissions from this emissions unit to a selective catalytic reduction (SCR) unit while operating this emissions unit.
- 2.b The PE and NOx pounds per hour emission limitations for this emissions unit

Emissions Unit ID: B032

were established to reflect the potentials to emit for this emissions unit after control. Therefore, it is not necessary to develop additional monitoring, record keeping, and/or reporting requirements to ensure compliance with these emission limitations.

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. For monitoring and record keeping requirements for the rolling, 12-month NO_x emission limitation, see Part II - Specific Facility Terms and Conditions, Section A.III.1 through 7.
2. For monitoring and record keeping requirements for the visible PE limitation from the SCR unit stack, see Part II - Specific Facility Terms and Conditions, Section A.III.8.
3. For monitoring and record keeping requirements for the hourly NO_x emission limitation, the permittee shall collect and record the rolling, 3-hour average of the NO_x control (destruction) efficiency of the SCR. The efficiency shall be based upon data obtained from the SCR inlet analyzer and the outlet CEMS.
4. For each 3-hour period when the NO_x control efficiency is less than 70%, the permittee shall note the following in the operations log:
 - a. the 3-hour average NO_x control efficiency;
 - b. the hours included in the 3-hour period;
 - c. for each hour within the period, the production lathes, repair lathes and arc fusion machines that were operating;
 - d. for each hour within the period, the sum of the hourly NO_x emission limitations for the production lathes, repair lathes and arc fusion machines that were operating;
 - e. for each hour within the period, the NO_x emissions in pounds per hour measured by the SCR outlet CEMS; and
 - f. for each hour within the period, whether the value for (e) exceeds the value for (d), above.

IV. Reporting Requirements

1. For reporting requirements for the rolling, 12-month NO_x emission limitation, see Part II - Specific Facility Terms and Conditions, Section A.IV.1.
2. For reporting requirements for the visible PE limitation from the SCR unit stack, see Part II - Specific Facility Terms and Conditions, Section A.IV.4.
3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the hourly NO_x emission limitation based on the records required by

Emissions Unit ID: B032

Section A.III.4.f above. The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

- 1.a Emission Limitation:
NOx emissions for this emissions unit alone from the SCR unit stack shall not exceed 12.0 pounds per hour.

Applicable Compliance Method:

This emission limitation was established by multiplying the maximum hourly MMBtu demand (5.04) by an emission factor of 7.77 lbs/MMBtu (derived from emission tests performed on March 25, 1998) and by (1-0.70) for the control efficiency of the SCR unit. Compliance with this limitation may be demonstrated by showing that the rolling, 3-hour average SCR control efficiency is equal to or greater than 70%. If the rolling, 3-hour average SCR control efficiency is less than 70%, compliance with this emission limitation shall be demonstrated by showing that the NOx emission rate determined in Section A.III.4.e is less than or equal to the emission limitation determined in Section A.III.4.d. If required by the Ohio EPA and/or U.S. EPA, compliance with this emission limitation shall be demonstrated through emission testing performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 7E.

- 1.b Emission Limitation:
39.0 tons per year of NOx from emissions units B032 and B033, combined, as a rolling, 12-month summation of the NOx emissions.

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation as described in Part II - Facility Specific Terms and Conditions, Section A.V.1.a.

- 1.c Emission Limitation:
Visible PE from the SCR stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation as described in Part II - Facility Specific Terms and Conditions, Section A.V.1.c.

- 1.d Emission Limitation:
PE for this emissions unit alone from the SCR stack shall not exceed 0.551 pound per hour.

Applicable Compliance Method:

Compliance with this emission limitation was demonstrated based upon the results of

G E Quartz Inc**DTI Application: 01-12110****Facility ID: 0145000213**

Emissions Unit ID: B032

emission tests performed on May 28, 1998 that demonstrated a maximum hourly emission rate of 0.4 lb/hr. If required by the Ohio EPA and/or U.S. EPA, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5 and the procedures specified in OAC rule 3745-17-03(B)(10).

VI. Miscellaneous Requirements

None

Issued: To be entered upon final issuance

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - (B032) - Large Diameter Lathe No. 19 - 5.04 MMBtu/hr controlled with a SCR unit and monitored by a NOx CEMS.

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	

2. **Additional Terms and Conditions**

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Issued: To be entered upon final issuance

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - (B033) - Large Diameter Lathe No. 20 - 5.04 MMBtu/hr controlled with a SCR unit and monitored by a NOx CEMS.

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	<p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-11(B)(1), and 3745-31-05(C).</p> <p>Nitrogen oxides (NOx) emissions from this emissions unit alone from the SCR unit stack shall not exceed 12.0 pounds per hour.</p> <p>See A.I.2.a below.</p>
OAC rule 3745-31-05(C) (synthetic minor to avoid PSD)	Total NOx emissions from emissions units B032 and B033 shall not exceed 39.0 tons per year combined, as a rolling 12-month summation of the NOx emissions.
OAC rule 3745-17-07(A)	Visible PE from the SCR unit stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
OAC rule 3745-17-11(B)(1)	PE for this emissions unit alone from the SCR unit stack shall not exceed 0.551 pound per hour based on Table I which is more stringent than the allowable PE rate from Figure II.

2. Additional Terms and Conditions

- 2.a The permittee shall vent the emissions from this emissions unit to a selective catalytic reduction (SCR) unit while operating this emissions unit.
- 2.b The PE and NOx pounds per hour emission limitations for this emissions unit were established to reflect the potentials to emit for this emissions unit after control. Therefore, it is not necessary to develop additional monitoring, record keeping, and/or reporting requirements to ensure compliance with these

Issued: To be entered upon final issuance
emission limitations.

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. For monitoring and record keeping requirements for the rolling, 12-month NO_x emission limitation, see Part II - Specific Facility Terms and Conditions, Section A.III.1 through 7.
2. For monitoring and record keeping requirements for the visible PE limitation from the SCR unit stack, see Part II - Specific Facility Terms and Conditions, Section A.III.8.
3. For monitoring and record keeping requirements for the hourly NO_x emission limitation, the permittee shall collect and record the rolling, 3-hour average of the NO_x control (destruction) efficiency of the SCR. The efficiency shall be based upon data obtained from the SCR inlet analyzer and the outlet CEMS.
4. For each 3-hour period when the NO_x control efficiency is less than 70%, the permittee shall note the following in the operations log:
 - a. the 3-hour average NO_x control efficiency;
 - b. the hours included in the 3-hour period;
 - c. for each hour within the period, the production lathes, repair lathes and arc fusion machines that were operating;
 - d. for each hour within the period, the sum of the hourly NO_x emission limitations for the production lathes, repair lathes and arc fusion machines that were operating;
 - e. for each hour within the period, the NO_x emissions in pounds per hour measured by the SCR outlet CEMS; and
 - f. for each hour within the period, whether the value for (e) exceeds the value for (d), above.

IV. Reporting Requirements

1. For reporting requirements for the rolling, 12-month NO_x emission limitation, see Part II - Specific Facility Terms and Conditions, Section A.IV.1.
2. For reporting requirements for the visible PE limitation from the SCR unit stack, see Part II - Specific Facility Terms and Conditions, Section A.IV.4.

G E Quartz Inc**DTI Application: 01 12110****Facility ID: 0145000213**

Emissions Unit ID: B033

3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the hourly NOx emission limitation based on the records required by Section A.III.4.f above. The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

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V. Testing Requirements

1. Compliance with the emission limitations in Section A.I.1 of these terms and conditions shall be determined in accordance with the following methods:

1a. Emission Limitation:

NOx emissions for this emissions unit alone from the SCR unit stack shall not exceed 12.0 pounds per hour.

Applicable Compliance Method:

This emission limitation was established by multiplying the maximum hourly MMBtu demand (5.04) by an emission factor of 7.77 lbs/MMBtu (derived from emission tests performed on March 25, 1998) and by (1-0.70) for the control efficiency of the SCR unit. Compliance with this limitation may be demonstrated by showing that the rolling, 3-hour average SCR control efficiency is equal to or greater than 70%. If the rolling, 3-hour average SCR control efficiency is less than 70%, compliance with this emission limitation shall be demonstrated by showing that the NOx emission rate determined in Section A.III.4.e is less than or equal to the emission limitation determined in Section A.III.4.d. If required by the Ohio EPA and/or U.S. EPA, compliance with this emission limitation shall be demonstrated through emission testing performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 7E.

1b. Emission Limitation:

39.0 tons per year of NOx from emissions units B032 and B033, combined, as a rolling, 12-month summation of the NOx emissions.

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation as described in Part II - Facility Specific Terms and Conditions, Section A.V.1.a.

1c. Emission Limitation:

Visible PE from the SCR stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method:

The permittee shall demonstrate compliance with this emission limitation as described in Part II - Facility Specific Terms and Conditions, Section A.V.1.c.

1d. Emission Limitation:

PE for this emissions unit alone from the SCR stack shall not exceed 0.551 pound per hour.

Issued: To be entered upon final issuance

Applicable Compliance Method:

Compliance with this emission limitation was demonstrated based upon the results of emission tests performed on May 28, 1998 that demonstrated a maximum hourly emission rate of 0.4 lb/hr. If required by the Ohio EPA and/or U.S. EPA, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5 and the procedures specified in OAC rule 3745-17-03(B)(10).

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, and/or Equipment - (B033) - Large Diameter Lathe No. 20 - 5.04 MMBtu/hr controlled with a SCR unit and monitored by a NOx CEMS.

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05	Limit(s)

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

NEW SOURCE REVIEW FORM B

PTI Number: 01-12119 Facility ID: 0145000213

FACILITY NAME G E Quartz Inc

FACILITY DESCRIPTION Large diameter lathes no 19 and 20. CITY/TWP Hebron

SIC CODE 3299 SCC CODE _____ EMISSIONS UNIT ID B032

EMISSIONS UNIT DESCRIPTION Large Diameter Lathe No. 19 - 5.04 MMBtu/hr controlled with a SCR unit and monitored by a NOx CEMS.

DATE INSTALLED _____

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? _____ NESHAP? _____ PSD? _____ OFFSET POLICY? _____

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?
Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? _____
 OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ _____

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____

38 NEW SOURCE REVIEW FORM B

PTI Number: 01-12119 Facility ID: 0145000213

FACILITY NAME G E Quartz Inc

FACILITY DESCRIPTION Large diameter lathes no 19 and 20 CITY/TWP Hebron

Emissions Unit ID: B033

SIC CODE 3299 SCC CODE _____ EMISSIONS UNIT ID B033

EMISSIONS UNIT DESCRIPTION Large Diameter Lathe No. 20 - 5.04 MMBtu/hr controlled with a SCR unit and monitored by a NOx CEMS.

DATE INSTALLED _____

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS?

NESHAP?

PSD?

OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? _____

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ _____

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES _____ NO

IDENTIFY THE AIR CONTAMINANTS: _____