

Attention:

U.S. Silica Company
Attn: Ms. Carol Hudak
8490 Progress Drive, Suite 300
Frederick, Maryland 21701

State of Illinois

CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT

Source:

U.S. Silica Company
701 Boyce Memorial Drive
Ottawa, Illinois 61350

I.D. No.: 099825AAA
Permit No.: 95060046

Permitting Authority:

Illinois Environmental Protection Agency
Bureau of Air, Permit Section
217/785-1705



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-2829

BRUCE RAUNER, GOVERNOR

LISA BONNETT, DIRECTOR

CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT

Type of Application: Renewal
Purpose of Application: Renew Existing CAAPP Permit for 5 Years

ID No.: 099825AAA
Permit No.: 95060046
Statement of Basis No.: 95060046-1307

Date Application Received: January 30, 2008
Date Issued: January 13, 2015

Expiration Date: January 13, 2020
Renewal Submittal Date: 9 Months Prior to January 13, 2020

Source Name: U.S. Silica Company
Address: 701 Boyce Memorial Drive
City: Ottawa
County: IaSalle
ZIP Code: 61350

This permit is hereby granted to the above-designated source authorizing operation in accordance with this CAAPP permit, pursuant to the above referenced application. This source is subject to the conditions contained herein. For further information on the source see Section 1 and for further discussion on the effectiveness of this permit see Condition 2.3(g).

If you have any questions concerning this permit, please contact Justin Cameron at 217/785-1705.

Raymond E. Pilapil, P.E.
Acting Manager, Permit Section
Division of Air Pollution Control

REP:MTR:JTC:psj

cc: IEPA, Permit Section
IEPA, FOS, Region 2
Lotus Notes Database

<u>Section</u>	<u>Table of Contents</u>	<u>Page</u>
1	Source Information	4
	1.1 Addresses	
	1.2 Contacts	
	1.3 Single Source	
2	General Permit Requirements	5
	2.1 Prohibitions	
	2.2 Emergency Provisions	
	2.3 General Provisions	
	2.4 Testing	
	2.5 Recordkeeping	
	2.6 Certification	
	2.7 Permit Shield	
	2.8 Title I Conditions	
	2.9 Reopening and Revising Permit	
	2.10 Emissions Trading Programs	
	2.11 Permit Renewal	
	2.12 Permanent Shutdown	
	2.13 Startup, Shutdown, and Malfunction	
3	Source Requirements	13
	3.1 Applicable Requirements	
	3.2 Applicable Plans and Programs	
	3.3 Title I Requirements	
	3.4 Synthetic Minor Limits	
	3.5 Reporting Requirements	
4	Emission Unit Requirements	19
	4.1 Fluid Bed Dryers	
	4.2 Material Handling and Processing Operations (Subject to NSPS 000 and Constructed on or After April 22, 2008)	
	4.3 Material Handling and Processing Operations (Subject to NSPS 000 and Constructed Prior to April 22, 2008)	
	4.4 Other Material Handling and Processing Operations	
	4.5 Gasoline Storage Tank	
	4.6 Fugitive Emissions	
5	Additional Title I Requirements	59
6	Insignificant Activities Requirements	60
	6.1 Insignificant Activities Subject to Specific Regulations	
	6.2 Insignificant Activities in 35 IAC 201.210(a)	
	6.3 Insignificant Activities in 35 IAC 201.210(b)	
	6.4 Applicable Requirements	
	6.5 Compliance Method	
	6.6 Notification Requirements for Insignificant Activities	
7	Other Requirements	64
	7.1 Testing	
	7.2 PM Process Weight Rate Requirements	
	7.3 40 CFR 60 Subpart A Requirements (NSPS)	
	7.4 40 CFR 63 Subpart A Requirements (NESHAP)	
	7.5 Compliance Assurance Monitoring (CAM) Requirements	
8	State Only Requirements	86
	8.1 Permitted Emissions for Fees	
Attachment 1	List of Emission Units at This Source	87
Attachment 2	Acronyms and Abbreviations	88

<u>Section</u>	<u>Table of Contents</u>	<u>Page</u>
Attachment 3	Contact and Reporting Addresses	90
Attachment 4	Example Certification by a Responsible Official	91

Section 1 - Source Information

1. Addresses

Source

U.S. Silica Company
701 Boyce Memorial Drive
Ottawa, Illinois 61350

Owner

U.S. Silica Company
8490 Progress Drive, Suite 300
Frederick, Maryland 21701

Operator

U.S. Silica Company
701 Boyce Memorial Drive
Ottawa, Illinois 61350

Permittee

The Owner or Operator of the source as identified in this table.

2. Contacts

Certified Officials

The source shall submit an Administrative Permit Amendment for any change in the Certified Officials, pursuant to Section 39.5(13) of the Act.

	<i>Name</i>	<i>Title</i>
<i>Responsible Official</i>	Mr. Michael L. Winkler.	Vice President of Operations

Other Contacts

	<i>Name</i>	<i>Phone No.</i>	<i>Email</i>
<i>Source Contact</i>	Kent Purcell	815-434-0188	Purcell@ussilica.com
<i>Technical Contact</i>	Carol Hudak	301-682-0614	Hudak@ussilica.com
<i>Correspondence</i>	Carol Hudak	301-682-0614	Hudak@ussilica.com
<i>Billing</i>	Kent Purcell	815-434-0188	Purcell@ussilica.com

3. Single Source

The source identified in Condition 1.1 above shall be defined to include all the following additional source(s):

<i>I.D. No.</i>	<i>Permit No.</i>	<i>Single Source Name and Address</i>
N/A	N/A	N/A

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

Section 2 - General Permit Requirements

1. Prohibitions

- a. It shall be unlawful for any person to violate any terms or conditions of this permit issued under Section 39.5 of the Act, to operate the CAAPP source except in compliance with this permit issued by the IEPA under Section 39.5 of the Act or to violate any other applicable requirements. All terms and conditions of this permit issued under Section 39.5 of the Act are enforceable by USEPA and citizens under the Clean Air Act, except those, if any, that are specifically designated as not being federally enforceable in this permit pursuant to Section 39.5(7)(m) of the Act. [Section 39.5(6)(a) of the Act]
- b. After the applicable CAAPP permit or renewal application submittal date, as specified in Section 39.5(5) of the Act, the source shall not operate this CAAPP source without a CAAPP permit unless the complete CAAPP permit or renewal application for such source has been timely submitted to the IEPA. [Section 39.5(6)(b) of the Act]
- c. No Owner or Operator of the CAAPP source shall cause or threaten or allow the continued operation of an emission source during malfunction or breakdown of the emission source or related air pollution control equipment if such operation would cause a violation of the standards or limitations applicable to the source, unless this CAAPP permit granted to the source provides for such operation consistent with the Act and applicable Illinois Pollution Control Board regulations. [Section 39.5(6)(c) of the Act]
- d. Pursuant to Section 39.5(7)(g) of the Act, emissions from the source are not allowed to exceed any allowances that the source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder, consistent with Section 39.5(17) of the Act and applicable requirements, if any.

2. Emergency Provisions

Pursuant to Section 39.5(7)(k) of the Act, the Owner or Operator of the CAAPP source may provide an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations under this CAAPP permit if the following conditions are met through properly signed, contemporaneous operating logs, or other relevant evidence:

- a.
 - i. An emergency occurred and the source can identify the cause(s) of the emergency.
 - ii. The source was at the time being properly operated.
 - iii. The source submitted notice of the emergency to the IEPA within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
 - iv. During the period of the emergency the source took all reasonable steps to minimize levels of emissions that exceeded the emission limitations, standards, or requirements in this permit.
- b. For purposes of Section 39.5(7)(k) of the Act, "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, such as an act of God, that requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operation error.
- c. In any enforcement proceeding, the source seeking to establish the occurrence of an emergency has the burden of proof. This provision is in addition to any emergency or

upset provision contained in any applicable requirement. This provision does not relieve the source of any reporting obligations under existing federal or state laws or regulations.

3. General Provisions

a. Duty to Comply

The source must comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the CAA and the Act, and is grounds for any or all of the following: enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. [Section 39.5(7) (o) (i) of the Act]

b. Need to Halt or Reduce Activity is not a Defense

It shall not be a defense for the source in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Section 39.5(7) (o) (ii) of the Act]

c. Duty to Maintain Equipment

The source shall maintain all equipment covered under this permit in such a manner that the performance or operation of such equipment shall not cause a violation of applicable requirements. [Section 39.5(7) (a) of the Act]

d. Disposal Operations

The source shall be operated in such a manner that the disposal of air contaminants collected by the equipment operations, or activities shall not cause a violation of the Act or regulations promulgated there under. [Section 39.5(7) (a) of the Act]

e. Duty to Pay Fees

- i. The source must pay fees to the IEPA consistent with the fee schedule approved pursuant to Section 39.5(18) of the Act, and submit any information relevant thereto. [Section 39.5(7) (o) (vi) of the Act]
- ii. The IEPA shall assess annual fees based on the allowable emissions of all regulated air pollutants, except for those regulated air pollutants excluded in Section 39.5(18) (f) of the Act and insignificant activities in Section 6, at the source during the term of this permit. The amount of such fee shall be based on the information supplied by the applicant in its complete CAAPP permit application. [Section 39.5(18) (a) (ii) (A) of the Act]
- iii. The check should be payable to "Treasurer, State of Illinois" and sent to: Fiscal Services Section, Illinois EPA, P.O. Box 19276, Springfield, IL, 62794-9276. Include on the check: ID #, Permit #, and "CAAPP Operating Permit Fees". [Section 39.5(18) (e) of the Act]

f. Obligation to Allow IEPA Surveillance

Pursuant to Sections 4(a), 39.5(7) (a), and 39.5(7) (p) (ii) of the Act, inspection and entry requirements that necessitate that, upon presentation of credentials and other documents as may be required by law and in accordance with constitutional limitations, the source shall allow the IEPA, or an authorized representative to perform the following:

- i. Enter upon the source's premises where the emission unit(s) are located or 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.
- 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. Sample or monitor any substances or parameters at any location at reasonable times:
 - A. As authorized by the Clean Air Act or the Act, at reasonable times, for the purposes of assuring compliance with this CAAPP permit or applicable requirements; or
 - B. As otherwise authorized by the Act.
- v. Enter and utilize any photographic, recording, testing, monitoring, or other equipment for the purposes of preserving, testing, monitoring, or recording any activity, discharge or emission at the source authorized by this permit.

g. Effect of Permit

- i. Pursuant to Section 39.5(7)(j)(iv) of the Act, nothing in this CAAPP permit shall alter or affect the following:
 - A. The provisions of Section 303 (emergency powers) of the CAA, including USEPA's authority under that Section.
 - B. The liability of the Owner or Operator of the source for any violation of applicable requirements prior to or at the time of permit issuance.
 - C. The applicable requirements of the acid rain program consistent with Section 408(a) of the Clean Air Act.
 - D. The ability of USEPA to obtain information from the source pursuant to Section 114 (inspections, monitoring, and entry) of the Clean Air Act.
- ii. Notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, pursuant to Sections 39.5(7)(j) and (p) of the Act, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements. [35 IAC 201.122 and Section 39.5(7)(a) of the Act]

h. Severability Clause

The provisions of this permit are severable. In the event of a challenge to any portion of this permit, other portions of this permit may continue to be in effect. Should any portion of this permit be determined to be illegal or unenforceable, the validity of the other provisions shall not be affected and the rights and obligations of the source shall be construed and enforced as if this permit did not contain the particular provisions held to be invalid and the applicable requirements underlying these provisions shall remain in force. [Section 39.5(7)(i) of the Act]

4. Testing

- a. Tests conducted to measure composition of materials, efficiency of pollution control devices, emissions from process or control equipment, or other parameters shall be conducted using standard test methods if applicable test methods are not specified by the applicable regulations or otherwise identified in the conditions of this permit. Documentation of the test date, conditions, methodologies, calculations, and test results shall be retained pursuant to the recordkeeping procedures of this permit. Reports of

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

any tests conducted as required by this permit or as the result of a request by the IEPA shall be submitted as specified in Condition 7.1 of this permit. [35 IAC Part 201 Subpart J and Section 39.5(7)(a) of the Act]

- b. Pursuant to Section 4(b) of the Act and 35 IAC 201.282, every emission source or air pollution control equipment shall be subject to the following testing requirements for the purpose of determining the nature and quantities of specified air contaminant emissions and for the purpose of determining ground level and ambient air concentrations of such air contaminants:
 - i. Testing by Owner or Operator: The IEPA may require the Owner or Operator of the emission source or air pollution control equipment to conduct such tests in accordance with procedures adopted by the IEPA, at such reasonable times as may be specified by the IEPA and at the expense of the Owner or Operator of the emission source or air pollution control equipment. All such tests shall be made by or under the direction of a person qualified by training and/or experience in the field of air pollution testing. The IEPA shall have the right to observe all aspects of such tests.
 - ii. Testing by the IEPA: The IEPA shall have the right to conduct such tests at any time at its own expense. Upon request of the IEPA, the Owner or Operator of the emission source or air pollution control equipment shall provide, without charge to the IEPA, necessary holes in stacks or ducts and other safe and proper testing facilities, including scaffolding, but excluding instruments and sensing devices, as may be necessary.

5. Recordkeeping

a. Control Equipment Maintenance Records

Pursuant to Section 39.5(7)(b) of the Act, a maintenance record shall be kept on the premises for each item of air pollution control equipment. At a minimum, this record shall show the dates maintenance was performed and the nature of preventative maintenance activities.

b. Retention of Records

- i. Records of all monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. [Section 39.5(7)(e)(ii) of the Act]
- ii. Pursuant to Section 39.5(7)(a) of the Act, other records required by this permit including any logs, plans, procedures, or instructions required to be kept by this permit shall be retained for a period of at least 5 years from the date of entry unless a different period is specified by a particular permit provision.

c. Availability of Records

- i. Pursuant to Section 39.5(7)(a) of the Act, the Permittee shall retrieve and provide paper copies, or as electronic media, any records retained in an electronic format (e.g., computer) in response to an IEPA or USEPA request during the course of a source inspection.
- ii. Pursuant to Section 39.5(7)(a) of the Act, upon written request by the IEPA for copies of records or reports required to be kept by this permit, the Permittee shall promptly submit a copy of such material to the IEPA. For this purpose, material shall be submitted to the IEPA within 30 days unless additional time is provided by the IEPA or the Permittee believes that the volume and nature of

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

requested material would make this overly burdensome, in which case, the Permittee shall respond within 30 days with the explanation and a schedule for submittal of the requested material. (See also Condition 2.9(d))

6. Certification

a. Compliance Certification

- i. Pursuant to Section 39.5(7)(p)(v)(C) of the Act, the source shall submit annual compliance certifications by May 1 unless a different date is specified by an applicable requirement or by a particular permit condition. The annual compliance certifications shall include the following:
 - A. The identification of each term or condition of this permit that is the basis of the certification.
 - B. The compliance status.
 - C. Whether compliance was continuous or intermittent.
 - D. The method(s) used for determining the compliance status of the source, both currently and over the reporting period consistent with the conditions of this permit.
- ii. Pursuant to Section 39.5(7)(p)(v)(D) of the Act, all compliance certifications shall be submitted to USEPA Region 5 in Chicago as well as to the IEPA Compliance Section. Addresses are included in Attachment 3.
- iii. Pursuant to Section 39.5(7)(p)(i) of the Act, all compliance reports required to be submitted shall include a certification in accordance with Condition 2.6(b).

b. Certification by a Responsible Official

Any document (including reports) required to be submitted by this permit shall contain a certification by the responsible official of the source that meets the requirements of Section 39.5(5) of the Act and applicable regulations. [Section 39.5(7)(p)(i) of the Act]. An example Certification by a Responsible Official is included in Attachment 4 of this permit.

7. Permit Shield

- a. Pursuant to Section 39.5(7)(j) of the Act, except as provided in Condition 2.7(b) below, the source has requested and has been granted a permit shield. This permit shield provides that compliance with the conditions of this permit shall be deemed compliance with applicable requirements which were applicable as of the date the proposed permit for this source was issued, provided that either the applicable requirements are specifically identified within this permit, or the IEPA, in acting on this permit application, has determined that other requirements specifically identified are not applicable to this source and this determination (or a concise summary thereof) is included in this permit. This permit shield does not extend to applicable requirements which are promulgated after November 13, 2014 (date USEPA notice started), unless this permit has been modified to reflect such new requirements.
- b. Pursuant to Section 39.5(7)(j) of the Act, this permit and the terms and conditions herein do not affect the Permittee's past and/or continuing obligation with respect to statutory or regulatory requirements governing major source construction or modification under Title I of the CAA. Further, neither the issuance of this permit nor any of the terms or conditions of the permit shall alter or affect the liability of the Permittee for any violation of applicable requirements prior to or at the time of permit issuance.

- c. Pursuant to Section 39.5(7)(a) of the Act, the issuance of this permit by the IEPA does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any currently pending or future legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the IEPA or the USEPA may have against the applicant including, but not limited to, any enforcement action authorized pursuant to the provision of applicable federal and state law.

8. Title I Conditions

Pursuant to Sections 39(a), 39(f), and 39.5(7)(a) of the Act, as generally identified below, this CAAPP permit may contain certain conditions that relate to requirements arising from the construction or modification of emission units at this source. These requirements derive from permitting programs authorized under Title I of the Clean Air Act (CAA) and regulations thereunder, and Title X of the Illinois Environmental Protection Act (Act) and regulations implementing the same. Such requirements, including the New Source Review programs for both major (i.e., PSD and nonattainment areas) and minor sources, are implemented by the IEPA.

- a. This permit may contain conditions that reflect requirements originally established in construction permits previously issued for this source. These conditions include requirements from preconstruction permits issued pursuant to regulations approved or promulgated by USEPA under Title I of the CAA, as well as requirements contained within construction permits issued pursuant to state law authority under Title X of the Act. Accordingly, all such conditions are incorporated into this CAAPP permit by virtue of being either an "applicable Clean Air Act requirement" or an "applicable requirement" in accordance with Section 39.5 of the Act. These conditions are identifiable herein by a designation to their origin of authority.
- b. This permit may contain conditions that reflect necessary revisions to requirements established for this source in preconstruction permits previously issued under the authority of Title I of the CAA. These conditions are specifically designated herein as "TIR".
 - i. Revisions to original Title I permit conditions are incorporated into this permit through the combined legal authority of Title I of the CAA and Title X of the Act. Public participation requirements and appeal rights shall be governed by Section 39.5 of the Act.
 - ii. Revised Title I permit conditions shall remain in effect through this CAAPP permit, and are therefore enforceable under the same, so long as such conditions do not expire as a result of a failure to timely submit a complete renewal application or are not removed at the applicant's request.
- c. This permit may contain conditions that reflect new requirements for this source that would ordinarily derive from a preconstruction permit established under the authority of Title I of the CAA. These conditions are specifically designated herein as "TIN".
 - i. The incorporation of new Title I requirements into this CAAPP permit is authorized through the combined legal authority of Title I of the CAA and Title X of the Act. Public participation requirements and appeal rights shall be governed by Section 39.5 of the Act.
 - ii. Any Title I conditions that are newly incorporated shall remain in effect through this CAAPP permit, and are therefore enforceable under the same, so long as such conditions do not expire as a result of a failure to timely submit a complete renewal application or are not removed at the applicant's request.

9. Reopening and Revising Permit

a. Permit Actions

This permit may be modified, revoked, reopened and reissued, or terminated for cause in accordance with applicable provisions of Section 39.5 of the Act. The filing of a request by the source for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [Section 39.5(7)(o)(iii) of the Act]

b. Reopening and Revision

Pursuant to Section 39.5(15)(a) of the Act, this permit must be reopened and revised if any of the following occur:

- i. Additional requirements become applicable to the equipment covered by this permit and three or more years remain before expiration of this permit;
- ii. Additional requirements become applicable to the source for acid deposition under the acid rain program;
- iii. The IEPA or USEPA determines that this permit contains a material mistake or that an inaccurate statement was made in establishing the emission standards or limitations, or other terms or conditions of this permit; or
- iv. The IEPA or USEPA determines that this permit must be revised or revoked to ensure compliance with the applicable requirements.

c. Inaccurate Application

Pursuant to Sections 39.5(5)(e) and (i) of the Act, the IEPA has issued this permit based upon the information submitted by the source in the permit application referenced on page 1 of this permit. Any misinformation, false statement or misrepresentation in the application shall be grounds for revocation or reopening of this CAAPP under Section 39.5(15) of the Act.

d. Duty to Provide Information

The source shall furnish to the IEPA, within a reasonable time specified by the IEPA any information that the IEPA may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the source shall also furnish to the IEPA copies of records required to be kept by this permit. [Section 39.5(7)(o)(v) of the Act]

10. Emissions Trading Programs

No permit revision shall be required for increases in emissions allowed under any USEPA approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for elsewhere in this permit and that are authorized by the applicable requirement. [Section 39.5(7)(o)(vii) of the Act]

11. Permit Renewal

- a. Upon the expiration of this permit, if the source is operated, it shall be deemed to be operating without a permit unless a timely and complete CAAPP application has been submitted for renewal of this permit. However, if a timely and complete application to renew this CAAPP permit has been submitted, the terms and all conditions of the most recent issued CAAPP permit will remain in effect until the issuance of a renewal permit. [Sections 39.5(5)(1) and (o) of the Act]

- b. For purposes of permit renewal, a timely application is one that is submitted no less than 9 months prior to the date of permit expiration. [Section 39.5(5)(n) of the Act]

12. Permanent Shutdown

Pursuant to Section 39.5(7)(a) of the Act, this permit only covers emission units and control equipment while physically present at the source location(s). Unless this permit specifically provides for equipment relocation, this permit is void for the operation or activity of any item of equipment on the date it is removed from the permitted location(s) or permanently shut down. This permit expires if all equipment is removed from the permitted location(s), notwithstanding the expiration date specified on this permit.

13. Startup, Shutdown, and Malfunction

Pursuant to Section 39.5(7)(a) of the Act, in the event of an action to enforce the terms or conditions of this permit, this permit does not prohibit a Permittee from invoking any affirmative defense that is provided by the applicable law or rule.

Section 3 - Source Requirements

1. Applicable Requirements

Pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act, the Permittee shall comply with the following applicable requirements. These requirements are applicable to all emission units (including insignificant activities unless specified otherwise in this Section) at the source.

a. Fugitive Particulate Matter

- i. Pursuant to 35 IAC 212.301 and 35 IAC 212.314, no person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally toward the zenith at a point beyond the property line of the source unless the wind speed is greater than 25 mph.
- ii. Compliance Method (Fugitive Particulate Matter)

Upon request by the IEPA, the Permittee shall conduct observations at the property line of the source for visible emissions of fugitive particulate matter from the source to address compliance with 35 IAC 212.301. For this purpose, daily observations shall be conducted for a week for particular area(s) of concern at the source, as specified in the request, observations shall begin either within one day or three days of receipt of a written request from the IEPA, depending, respectively, upon whether observations will be conducted by employees of the Permittee or a third-party observer hired by the Permittee to conduct observations on its behalf. The Permittee shall keep records for these observations, including identity of the observer, the date and time of observations, the location(s) from which observations were made, and duration of any fugitive emissions event(s).

b. Ozone Depleting Substances

Pursuant to 40 CFR 82.150(b), the Permittee shall comply with the standards for recycling and emissions reduction of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

- i. Pursuant to 40 CFR 82.156, persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices.
- ii. Pursuant to 40 CFR 82.158, equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment.
- iii. Pursuant to 40 CFR 82.161, persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program.
- iv. Pursuant to 40 CFR 82 Subpart B, any person performing service on a motor vehicle for consideration when this service involves the refrigerant in the motor vehicle air conditioner shall comply with 40 CFR 82 Subpart B, Servicing of Motor Vehicle Air Conditioners.
- v. Pursuant to 40 CFR 82.166, all persons shall comply with the reporting and recordkeeping requirements of 40 CFR 82.166.

c. Asbestos Demolition and Renovation

- i. Asbestos Fees. Pursuant to Section 9.13(a) of the Act, for any site for which the Owner or Operator must file an original 10-day notice of intent to renovate or

demolish pursuant to Condition 3.1(c)(ii) below and 40 CFR 61.145(b), the owner or operator shall pay to the IEPA with the filing of each 10-day notice a fee of \$150.

- ii. Pursuant to 40 CFR 61 Subpart M, Standard of Asbestos, prior to any demolition or renovation at this facility, the Permittee shall fulfill notification requirements of 40 CFR 61.145(b).
- iii. Pursuant to 40 CFR 61.145(c), during demolition or renovation, the Permittee shall comply with the procedures for asbestos emission control established by 40 CFR 61.145(c).

d. Future Emission Standards

Pursuant to Section 39.5(15) (a) of the Act, this source shall comply with any new or revised applicable future standards of 40 CFR 60, 61, 62, or 63; or 35 IAC Subtitle B after the date issued of this permit. The Permittee shall, in accordance with the applicable regulation(s), comply with the applicable requirements by the date(s) specified and shall certify compliance with the applicable requirements of such regulation(s) as part of the annual compliance certification, as required by Condition 2.6(a). This permit may also have to be revised or reopened to address such new regulations in accordance to Condition 2.9.

2. Applicable Plans and Programs

Pursuant to Sections 39.5(7) (a), 39.5(7) (b), and 39.5(7) (d) of the Act, the Permittee shall comply with the following applicable requirements. These requirements are applicable to all emission units (including insignificant activities unless specified otherwise in this Section) at the source.

a. Fugitive PM Operating Program

- i. Pursuant to 35 IAC 212.309, this source shall be operated under the provisions of Fugitive PM Operating Program prepared by the Permittee and submitted to the IEPA for its review. The Fugitive PM Operating Program shall be designed to significantly reduce fugitive particulate matter emissions, pursuant to 35 IAC 212.309(a). The Permittee shall comply with the Fugitive PM Operating Program and any amendments to the Fugitive PM Operating Program submitted pursuant to Condition 3.2(a)(ii). As a minimum, the Fugitive PM Operating Program shall include provisions identified in 35 IAC 212.310(a) through (g) and the following:
 - A. A detailed description of the best management practices utilized to achieve compliance with 35 IAC 212.304 through 212.308.
 - B. Estimated frequency of application of dust suppressants by location.
 - C. Such other information as may be necessary to facilitate the IEPA's review of the Fugitive PM Operating Program.
- ii. Pursuant to 35 IAC 212.312, the Fugitive PM Operating Program shall be amended from time to time by the Permittee so that the Fugitive PM Operating Program is current. Such amendments shall be consistent with the requirements set forth by this Condition 3.2(a) and shall be submitted to the IEPA within 30 days of such amendment. Any future revision to the Fugitive PM Operating Program made by the Permittee during the permit term is automatically incorporated by reference provided the revision is not expressly disapproved, in writing, by the IEPA within 30 days of receipt of the revision. In the event that the IEPA notifies the Permittee of a deficiency with any revision to the Fugitive PM Operating Program, the Permittee shall be required to revise and resubmit the Fugitive PM Operating Program within 30 days of receipt of notification to address the deficiency pursuant to Section 39.5(7) (a) of the Act.

- iii. The Fugitive PM Operating Program, as submitted by the Permittee on February 27, 2014, is incorporated herein by reference. The document constitutes the formal Fugitive PM Operating Program required under 35 IAC 212.310, addressing the control of fugitive particulate matter emissions from all plant roadways, including the mining roads, storage piles, access areas near storage piles, and other subject operations located at the facility that are subject to 35 IAC 212.309, which include, but may not be limited to the following:
 - A. Storage Piles (35 IAC 212.304);
 - B. Conveyor Loading Operations (35 IAC 212.305);
 - C. Traffic Areas (35 IAC 212.306);
 - D. Materials Collected by Pollution Control Equipment (35 IAC 212.307); and
 - E. Spraying or Choke-Feeding Requirements (35 IAC 212.308).
- iv. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep a copy of the Fugitive PM Operating Program, any amendments or revisions to the Fugitive PM Operating Program (as required by Condition 3.2(a)), and the Permittee shall also keep a record of activities completed according to the Fugitive PM Operating Program.

b. PM₁₀ Contingency Measure Plan

Should this source become subject to 35 IAC 212.700, then the Permittee shall prepare and operate under a PM₁₀ Contingency Measure Plan reflecting the PM₁₀ emission reductions as set forth in 35 IAC 212.701 and 212.703. The Permittee shall, within 90 days after the date this source becomes subject to 35 IAC 212.700, submit a request to modify this CAAPP permit in order to include a new, appropriate PM₁₀ Contingency Measure Plan.

c. Episode Action Plan

- i. Pursuant to 35 IAC 244.141, the Permittee shall have on file with the IEPA an Episode Action Plan for reducing the levels of emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating procedures. The Episode Action Plan shall contain the information specified in 35 IAC 244.144.
- ii. The Permittee shall immediately implement the appropriate steps described in the Episode Action Plan should an air pollution alert or emergency be declared, as required by 35 IAC 244.169, or as may otherwise be required under 35 IAC 244, Appendix D.
- iii. Pursuant to 35 IAC 244.143(d), if an operational change occurs at the source which invalidates the Episode Action Plan, a revised Episode Action Plan shall be submitted to the IEPA for review within 30 days of the change and is automatically incorporated by reference provided the revision is not expressly disapproved, in writing, by the IEPA within 30 days of receipt of the revision. In the event that the IEPA notifies the Permittee of a deficiency with any revision to the Episode Action Plan, the Permittee shall be required to revise and resubmit the Episode Action Plan within 30 days of receipt of notification to address the deficiency pursuant to Section 39.5(7)(a) of the Act.
- iv. The Episode Action Plan, as submitted by the Permittee on May 13, 2013, is incorporated herein by reference. The document constitutes the formal Episode Action Plan required by 35 IAC 244.142, addressing the actions that will be implemented to reduce SO₂, PM₁₀, NO₂, CO and VOM emissions from various emissions units in the event of a yellow alert, red alert or emergency issued under 35 IAC 244.161 through 244.165.

- v. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep a copy of the Episode Action Plan, any amendments or revisions to the Episode Action Plan (as required by Condition 3.2(c)), and the Permittee shall also keep a record of activities completed according to the Episode Action Plan.

d. **Risk Management Plan (RMP)**

Should this stationary source, as defined in 40 CFR 68.3, become subject to the federal regulations for Chemical Accident Prevention in 40 CFR Part 68, then the Permittee shall submit a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR 68.10(a); or submit 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, as part of the annual compliance certification required by Condition 2.6(a). This condition is imposed in this permit pursuant to 40 CFR 68.215(a)(2)(i) and (ii).

3. Title I Requirements

a. i. **Construction Permit 11020014 Requirements [T1]**

- A. Pursuant to Condition 5(b) of Construction Permit No. 11020014, source's overall emissions of PM/PM₁₀, including both filterable and condensable particulate but excluding emissions from roadways, shall not exceed 225 tons/year.
- B. Pursuant to Condition 5(c) of Construction Permit No. 11020014, source's overall emissions of CO and NO_x, shall each be less than 100 tons/year.
- C. Pursuant to Condition 6(f) of Construction Permit No. 11020014, total emissions of PM/PM₁₀ from operations at the plant, other than the Fluid Bed Dryers, Mineral Separators #7, #8, and #9 and their associated conveyors, and the roadways, shall not exceed 15 tons/month and 100 tons/year.

ii. **Compliance Method (Construction Permit 11020014)**

- A. Compliance with the annual emissions limit shall be determined based on a rolling 12 month average.

Monitoring/Testing

The periodic monitoring/testing requirements sufficient to meet 39.5(7)(f) of the Act are addressed by the applicable requirements in Section 4 of this Permit.

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain the following records:
 - I. The source's overall emissions of PM/PM₁₀, including both filterable and condensable particulate but excluding emissions from roadways, tons/mo and tons/yr (12 month rolling average) with supporting calculations, which addresses the limits set forth in Condition 3.3(a)(i)(A).
 - II. The source's overall emissions of CO and NO_x, tons/mo and tons/yr (12 month rolling average) with supporting calculations, which addresses the limits set forth in Condition 3.3(a)(i)(B).
 - III. The combined emission of PM/PM₁₀ from operations at the plant, other than the Fluid Bed Dryers, Mineral Separators #7, #8, and #9 and their associated conveyors, and the roadways, tons/mo and tons/yr (12

month rolling average) with supporting calculations, which addresses the limits set forth in Condition 3.3(a) (i) (C).

4. Synthetic Minor Limits

As of the date of issuance of this permit, there are no source-wide synthetic minor limits that need to be included in this Condition.

5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7) (f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7) (f) (ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows:
 - I. Requirements in Conditions 3.1(a) (i), 3.1(b), and 3.1(c).
 - II. Requirements in Conditions 3.2(a), 3.2(b), 3.2(c), and 3.2(d).
 - III. Requirements in Conditions 3.3(a) (i) (A), 3.3(a) (i) (B), and 3.3(a) (i) (C).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
 - A. Date and time of the deviation.
 - B. Emission unit(s) and/or operation involved.
 - C. The duration of the event.
 - D. Probable cause of the deviation.
 - E. Corrective actions or preventative measures taken.
- iv. All deviation reports required in this Permit shall be identified, summarized, and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).

b. Semiannual Reporting

- i. Pursuant to Section 39.5(7) (f) (i) of the Act, the Permittee shall submit Semiannual Monitoring Reports to the IEPA, Air Compliance Section, summarizing required monitoring as part of the Compliance Methods in this Permit submitted every six months as follows, unless more frequent reporting is required in other parts of this permit.

Monitoring Period
January through June
July through December

Report Due Date
July 31
January 31

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

- ii. The Semiannual Monitoring Report must be certified by a Responsible Official consistent with Condition 2.6(b).

c. **Annual Emissions Reporting**

Pursuant to 35 IAC Part 254, the Source shall submit an Annual Emission Report to the Air Quality Planning Section, due by May 1 of the year following the calendar year in which the emissions took place. All records and calculations upon which the verified and reported data are based must be retained by the source.

Section 4 - Emission Unit Requirements

4.1 Fluid Bed Dryers

1. Emission Units and Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
Dryer #1 (40 mmBtu/hr) 50DRYER1	PM, SO ₂ , CO, VOM, and NO _x	1975	2013	High Efficiency Wet Scrubber 1	Scrubbant Flow Meter and Pressure Drop Meter
Dryer #2 (40 mmBtu/hr) 50DRYER2	PM, SO ₂ , CO, VOM, and NO _x	1975	2011	High Efficiency Wet Scrubber 2	Scrubbant Flow Meter and Pressure Drop Meter
Dryer #3 (34 mmBtu/hr) 50DRYER3	PM, SO ₂ , CO, VOM, and NO _x	1975	N/A	High Efficiency Wet Scrubber 3	Scrubbant Flow Meter and Pressure Drop Meter
Dryer #4 (40 mmBtu/hr) 50DRYER4	PM, SO ₂ , CO, VOM, and NO _x	2011	N/A	High Efficiency Wet Scrubber 4	Scrubbant Flow Meter and Pressure Drop Meter

2. Applicable Requirements

For the emission units in Condition 4.1.1 above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7) (a), 39.5(7) (b), and 39.5(7) (d) of the Act.

a. i. Opacity Requirements

- A. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit.

ii. Compliance Method (Opacity Requirements)

Monitoring

- A. Pursuant to Sections 39.5(7) (b) and (d) of the Act, at a minimum, the Permittee shall perform observations for opacity on each emission unit listed in Condition 4.1.1 in accordance with Method 22 for visible emissions at least once per month during the operation of each emission unit. If visible emissions are observed, the Permittee shall take corrective action within 2 hours of such observation. Corrective action may include, but is not limited to, shut down of the emission unit, maintenance and repair, and/or adjustment of the equipment. If corrective action was taken, the Permittee shall perform a follow up observation for visible emissions in accordance with Method 22. If visible emissions continue, then measurements of opacity in accordance with Method 9 shall be conducted within one week in accordance with Condition 2.4.

Recordkeeping

- B. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep records for each opacity observation performed. These records shall include, at a minimum: date and time the observation was performed, name(s) of observing personnel, identification of which equipment was observed, whether or not the equipment was running properly, the findings of the observation including the presence of any visible emissions, and a description of any

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

corrective action taken including if the corrective action took place within 4 hours of the observation.

- C. Pursuant to Section 39.5(7)(b) of the Act, if required, the Permittee shall keep records for all opacity measurements made in accordance with Method 9.

b. i. Particulate Matter Requirements (PM)

- A. Pursuant to 40 CFR 60.732(a), PM emissions from Fluid Bed Dryers #1, #2, and #4 shall not exceed 0.025 gr/dscf.
- B. Pursuant to 35 IAC 212.321(a), no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.321(c). (See Condition 7.2)
- C. Pursuant to Construction Permit #11020014, the scrubber on each dryer shall be designed to achieve PM emissions of no more than 0.015 grains/dscf. [T1]
- D. Pursuant to Construction Permit #11020014 PM emissions shall not exceed the following limits: [T1]

I. For Fluid Bed Dryer #4:

<u>Pounds/Hour</u>	<u>Tons/Year</u>
5.2	22.7

II. For Fluid Bed Dryers #1, #2, and #3:

<u>Individual Pounds/Hour</u>	<u>Combined Pounds/Hour</u>	<u>Tons/Year</u>
5.8	17.4	76.1

ii. Compliance Method (PM Requirements)

Pursuant to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, the Fluid Bed Dryers are subject to 40 CFR Part 64 for the PM standards and limitations in Conditions 4.1.2(b)(i)(B-D). The Permittee shall comply with the monitoring requirements of the CAM Plan described in Condition 7.5 and Tables 7.5.1(a-c), pursuant to 40 CFR Part 64 as submitted in the Permittee's CAM plan application. At all times, the Owner or Operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment, pursuant to 40 CFR 64.7(a) and (b).

Monitoring

- A. I. For Fluid Bed Dryers #1, #2, and #4, pursuant to 40 CFR 60.734(d), the Permittee shall calibrate, maintain, and operate monitoring devices that continuously measure and record the pressure loss of the gas stream through the scrubber and the scrubbing liquid flow rate to the scrubber. The pressure loss monitoring device must be certified by the manufacturer to be accurate within 5 percent of water column gauge pressure at the level of operation. The liquid flow rate monitoring device must be certified by the manufacturer to be accurate within 5 percent of design scrubbing liquid flow rate.

- II. For Fluid Bed Dryer #3, pursuant to Section 39.5(7) (a & b) of the Act, the Permittee shall calibrate, maintain, and operate monitoring devices that continuously measure and record the pressure loss of the gas stream through the scrubber and the scrubbing liquid flow rate to the scrubber. The pressure loss monitoring device must be certified by the manufacturer to be accurate within 5 percent of water column gauge pressure at the level of operation. The liquid flow rate monitoring device must be certified by the manufacturer to be accurate within 5 percent of design scrubbing liquid flow rate.
- III. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall calibrate the monitoring devices required by Conditions 4.1.2(b) (ii) (A) (I & II), above, on an annual basis in accordance with manufacturer's instructions.

Testing

- B. Pursuant to Section 39.5(7) (d) (ii), the Permittee shall conduct PM testing on each Fluid Bed Dryer once every 5 years, but no later than 6 months from the expiration date of this permit:
 - I. Pursuant to 40 CFR 60.736(a), in conducting the performance tests required in 40 CFR 60.8, the Permittee shall use the test methods in 40 CFR Part 60, Appendix A, or other methods and procedures as specified in 40 CFR 60.736, except as provided in 40 CFR 60.8(b).
 - II. The Permittee shall determine compliance with the applicable particulate matter standards in 40 CFR 60.732(a) and the applicable limitation in Condition 4.1.2(b) (i) (C), as follows:
 - 1) Method 5 shall be used to determine the particulate matter concentration. The sampling time and volume for each test run shall be at least 2 hours and 1.70 dscm.
- C. The Permittee shall comply with the requirements of Section 7.1.

Recordkeeping

- D. For Fluid Bed Dryers #1, #2, and #4:
 - I. Pursuant to 40 CFR 60.735(b), the Permittee shall determine and record once each day, from the recordings of the monitoring devices in 40 CFR 60.734(d) (i.e., the pressure loss of the gas stream through the scrubber and the scrubbing liquid flow rate to the scrubber), an arithmetic average over a 2-hour period of both the change in pressure of the gas stream across the scrubber and the flowrate of the scrubbing liquid.
- E. For Fluid Bed Dryer #3:
 - I. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall determine and record once each day, from the recordings of the monitoring devices in Condition 4.1.2(b) (ii) (A) (II) (i.e., the pressure loss of the gas stream through the scrubber and the scrubbing liquid flow rate to the scrubber), an arithmetic average over a 2-hour period of both the change in pressure of the gas stream across the scrubber and the flowrate of the scrubbing liquid.
- F. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall maintain records of the PM emissions from each Fluid Bed Dryer (pounds/hour,

tons/month, and tons/year (12 month rolling average)), with supporting calculations.

- G. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the calibrations made in accordance with Condition 4.1.2(b)(ii)(A)(III).

c. i. **Sulfur Dioxide Requirements (SO₂)**

- A. Pursuant to 35 IAC 214.301, no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission unit to exceed 2000 ppm.

ii. **Compliance Method (SO₂ Requirements)**

Recordkeeping

- A. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records, which demonstrate that the natural gas quality is equal to pipeline quality natural gas, as required by Condition 4.1.2(d)(i)(A)(I), below.

d. i. **Operational and Production Requirements**

- A. I. Pursuant to Section 39.5(7)(a) of the Act, during all normal operating scenarios (See Condition 4.1.2(d)(i)(A)(II), below), pipeline quality natural gas shall be the only fuel fired by the Fluid Bed Dryers.
- II. Pursuant to Section 39.5(7)(a) of the Act, in the event of a natural gas curtailment/outage due to a natural gas shortage, propane fuel may be fired by the Fluid Bed Dryers.
- B. I. Pursuant to Construction Permit #11020014, the rated capacity of the burners in Fluid Bed Dryers #1, #2, and #4 shall not exceed 40 mmBtu/hr. [T1]
- II. Pursuant to Construction Permit #11020014, the rated capacity of the burners in Fluid Bed Dryer #3 shall not exceed 34 mmBtu/hr. [T1]
- C. Pursuant to Construction Permit #11020014, the rated capacity of each Fluid Bed Dryer shall not exceed 130 tons of dry sand per hour. [T1]

ii. **Compliance Method (Operational and Production Requirements)**

Recordkeeping

- A. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the following:
- I. Type of fuel fired by the Fluid Bed Dryers and note any periods which a natural gas outage/curtailment occurred that resulted in propane being fired as a fuel by the Fluid Bed Dryers.
- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain the following records, with supporting documentation:
- I. The rated capacity of each Fluid Bed Dryer.
- II. The rated capacity of the burners on each Fluid Bed Dryer.

III. The throughput of dry sand for each Fluid Bed Dryer (tons/day, tons/month, and tons/year).

IV. The hours of operation of each Fluid Bed Dryer (hours/day, hours/month, and hours/year).

e. i. **Work Practice Requirements**

A. Pursuant to 40 CFR 60.11(d) and/or Section 39.5(7)(a) of the Act, at all times the Permittee shall maintain and operate the Fluid Bed Dryers and their associated scrubbers in a manner consistent with good air pollution control practice for minimizing emissions.

ii. **Compliance Method (Work Practice Requirements)**

Monitoring

A. Pursuant to Sections 39.5(7)(a) of the Act, at a minimum, the Permittee shall perform weekly inspections of each Fluid Bed Dryer and the associated control equipment.

Recordkeeping

B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of each inspection performed along with a maintenance and repair log. These records shall include, at a minimum:

I. Date and time inspections were performed;

II. Name(s) of inspection personnel;

III. Identification of equipment being inspected;

IV. Findings of the inspections;

V. Operation and maintenance procedures; and

VI. A description of all maintenance and repair activities performed including if the activity resulted in a modification or reconstruction of the piece of equipment.

3. Non-Applicability Determinations

a. Fluid Bed Dryer #3 is not subject to the New Source Performance Standards (NSPS) for Calciners and Dryers in Mineral Industries, 40 CFR Part 60 Subpart UUU, because Fluid Bed Dryer #3 has not been constructed, modified, or reconstructed on or after April 23, 1986.

Note: Although Fluid Bed Dryer #3 is not subject to the requirements of this NSPS, the source has elected to comply with the applicable compliance methods of this NSPS for Dryer #3.

b. The Fluid Bed Dryers are not subject to the requirement of 40 CFR 60.732(b) because the Fluid Bed Dryers have emissions that are discharged from the fluid bed dryers using wet scrubbing control devices.

c. The Fluid Bed Dryers are not subject to 35 IAC 216.121 for emissions of carbon monoxide because the dryers are not by definition fuel combustion emission units.

d. The Fluid Bed Dryers are not subject to 35 IAC 217.141, emissions of nitrogen oxides from existing fuel combustion emission sources, because the Fluid Bed Dryers are not fuel combustion emission units.

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

- e. The Fluid Bed Dryers are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources for SO₂, CO, VOM, or NO_x, because the Fluid Bed Dryers do not use an add-on control device to achieve compliance with an emission limitation or standard related to the specified pollutants.
- f. The Fluid Bed Dryers are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources for Condition 4.1.2(b)(i)(A) (i.e., the NSPS PM standard) because the Fluid Bed Dryers are subject to a NSPS proposed after November 15, 1990, pursuant to 40 CFR 64.2(b)(1)(i), which contains sufficient periodic monitoring as specified in Section 4.1.2(b)(ii) and is the basis for Condition 4.1.2(b)(i)(A).

4. Other Requirements

For the emission units in Condition 4.1.1 above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act.

a. i. Title I Requirements (Construction Permit 11020014) [T1]

- A. Pursuant to Condition 6(d)(i) of Construction Permit 11020014, emissions shall not exceed the following limits for Fluid Bed Dryer #4:

<u>Pollutant</u>	<u>(Pounds/Hour)</u>	<u>(Tons/Year)</u>
CO	3.3	14.4
NO _x	5.5	24.0

- B. Pursuant to Condition 6(d)(ii) of Construction Permit 11020014, emissions shall not exceed the following limits for Fluid Bed Dryers #1, 2, and 3:

<u>Pollutant</u>	<u>Dryer #1 & #2 (Pounds/Hour) (each)</u>	<u>Dryer #3 (Pounds/Hour)</u>	<u>Combined (Pounds/Hour)</u>	<u>(Tons/Year)</u>
CO	3.3	2.8	9.4	41.12
NO _x	5.5	4.7	15.7	68.53

- C. Pursuant to Condition 6(d)(iii & iv) of Construction Permit 11020014, emissions from each Fluid Bed Dryer shall not exceed the following limits:

- I. 0.5 lb/hour and 1.1 tons/year, for VOM.
- II. 0.1 lb/hour and 0.44 tons/year, for SO₂.

ii. Compliance Method (Construction Permit 11020014)

Testing

- A. Pursuant to Section 39.5(7)(d)(ii), the Permittee shall conduct testing to determine the CO and NO_x emissions from the Fluid Bed Dryers (Pounds/Hour) in accordance with the following:
 - I. Initial testing on Fluid Bed Dryer #1, #2, or #4, whichever Dryer operated the greatest number of hours in the year prior to the testing, and Fluid Bed Dryer #3 shall be performed no later than 6 months from the expiration date of this permit.
 - II. Thereafter, testing shall be performed at least once every 5 years, if the initial test, as required above, shows a compliance margin of less than 50%; or testing shall be performed at least once every 10 years, if initial testing, as required above, shows greater than 50%

compliance margin. These test shall be performed with the same specifications as the initial test (i.e., testing on Fluid Bed Dryer #1, #2, or #4, whichever Dryer operated the greatest number of hours in the year prior to the testing, and Fluid Bed Dryer #3).

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain the following records:
 - I. Fuel usage (mmBtu/month and mmBtu/year).
 - II. Records of the emissions of NO_x, CO, SO₂, and VOM (lbs/hour and tons/yr) from each Fluid Bed Dryer, with supporting calculations, these records shall be compiled on at least a monthly basis (rolling 12 month averages for tons/yr).

5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:
 - I. Requirements in Conditions 4.1.2(a)(i), 4.1.2(b)(i), 4.1.2(c)(i), 4.1.2(d)(i), and 4.1.2(e)(i).
 - II. Requirements in Condition 4.1.4(a)(i).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
 - A. Date and time of the deviation.
 - B. Emission unit(s) and/or operation involved.
 - C. The duration of the event.
 - D. Probable cause of the deviation.
 - E. Corrective actions or preventative measures taken.

b. Federal Reporting

- i. Pursuant to 40 CFR 60.735(c), the Permittee shall submit written reports semiannually of exceedances of control device operating parameters required to be monitored by 40 CFR 60.734 (i.e., the pressure loss of the gas stream through the scrubber and the scrubbing liquid flow rate to the scrubber). For the purpose of these reports, exceedances are defined as follows:

- A. Any daily 2-hour average of the wet scrubber pressure drop determined as described in 40 CFR 60.735(b) that is less than 90 percent of the average value recorded according to 40 CFR 60.736(c) during the most recent performance test that demonstrated compliance with the particulate matter standard; or
- B. Each daily wet scrubber liquid flow rate recorded as described in 40 CFR 60.735(b) that is less than 80 percent or greater than 120 percent of the average value recorded according to 40 CFR 60.736(c) during the most recent performance test that demonstrated compliance with the particulate matter standard.

4.2 Material Handling and Processing Operations
(Subject to NSPS 000 and Constructed on or After April 22, 2008)

1. Emission Units and Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
ROTEX Screen 50SCRE1	PM	2009	N/A	Baghouse K	Pressure Drop Monitor
ROTEX Screen 50SCRE2	PM	2009	N/A	Baghouse K	Pressure Drop Monitor
ROTEX Screen 50SCRE3	PM	2009	N/A	Baghouse K	Pressure Drop Monitor
ROTEX Screen 50SCRE4	PM	2009	N/A	Baghouse K	Pressure Drop Monitor
ROTEX Screen 50SCRE5	PM	2011	N/A	Baghouse K	Pressure Drop Monitor
ROTEX Screen 50SCRE6	PM	2011	N/A	Baghouse K	Pressure Drop Monitor
ROTEX Screen 50SCRE7	PM	2011	N/A	Baghouse L	Pressure Drop Monitor
ROTEX Screen 50SCRE8	PM	2011	N/A	Baghouse L	Pressure Drop Monitor
ROTEX Screen 50SCRE9	PM	2011	N/A	Baghouse L	Pressure Drop Monitor
Elevator 50ELEV31	PM	2009	N/A	Baghouse K	Pressure Drop Monitor
Elevator 50ELEV32	PM	2009	N/A	Baghouse K	Pressure Drop Monitor
Elevator 50ELEV33	PM	2009	N/A	Baghouse K	Pressure Drop Monitor
Elevator 50ELEV34	PM	2009	N/A	Baghouse K	Pressure Drop Monitor
Elevator 50ELEV40	PM	2011	N/A	Baghouse L	Pressure Drop Monitor
Distribution Box (95/96)	PM	2009	N/A	Baghouse K	Pressure Drop Monitor
Distribution Box (97-99)	PM	2011	N/A	Baghouse L	Pressure Drop Monitor
Distribution Box (91-94)	PM	2011	N/A	Baghouse K	Pressure Drop Monitor
Belt Conveyor 50CONV201	PM	2011	N/A	High Efficiency Scrubber 4	Scrubbant Flow Meter and Pressure Drop Meter
Belt Conveyor 50CONV2226	PM	2011	N/A	Baghouse L	Pressure Drop Monitor
Belt Conveyor 50CONV227	PM	2011	N/A	Baghouse L	Pressure Drop Monitor
Belt Conveyor 50CONV228	PM	2011	N/A	Baghouse L	Pressure Drop Monitor
Belt Conveyor 50CONV2220	PM	2011	N/A	Baghouse K	Pressure Drop Monitor
Belt Conveyor 50CONV221	PM	2011	N/A	Baghouse K	Pressure Drop Monitor
Belt Conveyor 50CONV222	PM	2011	N/A	Baghouse K	Pressure Drop Monitor
Bucket Elevator 50ELEV44	PM	2011	N/A	High Efficiency Scrubber 4	Scrubbant Flow Meter and Pressure Drop Meter
Sand Crusher	PM	2012	N/A	None	None
Sand Screen	PM	2012	N/A	None	None

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

2. Applicable Requirements

For the emission units in Condition 4.2.1 above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act.

a. i. Opacity Requirements

- A. I. Pursuant to 40 CFR 60.672(b), opacity of fugitive emissions resulting from any emission unit, listed in Condition 4.2.1, shall not exceed 7 percent opacity.
- B. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit.

ii. Compliance Method (Opacity Requirements)

Monitoring

- A. Pursuant to 40 CFR 60.674(c), for the emission units controlled by a baghouse, the Permittee must conduct quarterly 30-minute visible emissions inspections using EPA Method 22 (40 CFR Part 60, Appendix A-7). The Method 22 (40 CFR Part 60, Appendix A-7) test shall be conducted while the baghouse is operating. The test is successful if no visible emissions are observed. If any visible emissions are observed, the owner or operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation.
- B. Pursuant to Section 39.5(7)(b) of the Act, if visible emissions are present after corrective action, the Permittee shall conduct observations in accordance with the following:
 - I. Pursuant to 40 CFR 60.675(c)(1), in determining compliance with Condition 4.2.2(a)(i)(A), the Permittee shall use Method 9 of 40 CFR 60 Appendix A-4 and the procedures in 40 CFR 60.11, with the following additions:
 - 1) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).
 - 2) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9 of 40 CFR 60 Appendix A-4, Section 2.1) must be followed.
 - II. Pursuant to 40 CFR 60.675(c)(3), when determining compliance with Condition 4.2.2(a)(i)(A), the duration of the Method 9 (40 CFR Part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in 40 CFR 60, Subpart OOO, Table 3 must be based on the average of the five 6-minute averages.

Recordkeeping

- C. Pursuant to 40 CFR 60.676(b)(1), the Permittee must record each periodic inspection required under 40 CFR 60.674(c) (i.e., Condition 4.2.2(a)(ii)(A)), including dates and any corrective actions taken, in a logbook (in written or electronic format). The owner or operator must keep the logbook onsite and make hard or electronic copies (whichever is requested) of the logbook available to the Administrator upon request.

- D. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for any opacity measurements made in accordance with USEPA Method 9 (Condition 4.2.2(a)(ii)(B)).

b. i. Particulate Matter Requirements (PM)

- A. Pursuant to 40 CFR 60.672(a), stack emissions of PM from the emission units with the associated control devices shall not exceed 0.032 g/dscm (0.014 gr/dscf).
- B. Pursuant to 35 IAC 212.321(a), no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.321(c). (See Condition 7.2)
- C. Pursuant to 35 IAC 212.313, particulate collection equipment that is operated pursuant to 35 IAC 212.304 through 35 IAC 212.310 and 35 IAC 212.312, PM emissions from such equipment shall not exceed 68 mg/dscm (0.03 gr/dscf).

Note: The standard from the NSPS (Condition 4.2.2(b)(i)(A), above) is more stringent than the 0.03 gr/dscf standard in this Condition.

- D. Pursuant to Construction Permit #11010056, PM emissions from all units controlled by Baghouse K shall not exceed 2.03 pounds/hour and 8.9 tons/year. [T1]
- E. Pursuant to Construction Permit #11020014, PM emissions from mineral separator screeners 7, 8, and 9, combined, shall not exceed 1.27 pounds/hour and 5.57 tons/year. [T1]

ii. Compliance Method (PM Requirements)

- A. Pursuant to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, the emission units that are controlled by Baghouse K and Baghouse L are subject to 40 CFR Part 64 for the PM standards and limitations in Conditions 4.2.2(b)(i)(B-E). The Permittee shall comply with the monitoring requirements of the CAM Plan described in Condition 7.5 and Table 7.5.3 and Table 7.5.2, respectively, pursuant to 40 CFR Part 64 as submitted in the Permittee's CAM plan application. At all times, the Owner or Operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment, pursuant to 40 CFR 64.7(a) and (b).
- B. Pursuant to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, Belt Conveyor (CONV201) and Bucket Elevator (ELEV44), which are controlled by High Efficiency Scrubber 4, are subject to 40 CFR Part 64 for the PM standards and limitations in Conditions 4.2.2(b)(i)(B-E). The Permittee shall comply with the monitoring requirements of the CAM Plan described in Condition 7.5 and Table 7.5.1, pursuant to 40 CFR Part 64 as submitted in the Permittee's CAM plan application. At all times, the Owner or Operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment, pursuant to 40 CFR 64.7(a) and (b).

Monitoring

- C. Pursuant to 40 CFR 60.674(a), for Belt Conveyor (CONV201) and Bucket Elevator (ELEV44), which are controlled by High Efficiency Scrubber 4, the Permittee shall calibrate, maintain and operate the following monitoring devices:
- I. A device for the continuous measurement of the pressure loss of the gas stream through the scrubber. The monitoring device must be certified by the manufacturer to be accurate within ± 250 pascals or ± 1 inch water gauge pressure and must be calibrated on an annual basis in accordance with manufacturer's instructions.
 - II. A device for the continuous measurement of the scrubbing liquid flow rate to the wet scrubber. The monitoring device must be certified by the manufacturer to be accurate within ± 5 percent of design scrubbing liquid flow rate and must be calibrated on an annual basis in accordance with manufacturer's instructions.

Testing

- D. Pursuant to 40 CFR 60.675(b)(1), the Permittee shall determine compliance with the PM standards in Condition 4.2.2(b)(i)(A) as follows:
- I. Except as specified in Conditions 4.2.2(b)(ii)(B)(II), Method 5 of 40 CFR Part 60 Appendix A-3 or Method 17 of 40 CFR Part 60 Appendix A-6 shall be used to determine the particulate matter concentration. The sample volume shall be at least 1.70 dscm (60 dscf). For Method 5 (40 CFR Part 60, Appendix A-3), if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121°C (250°F), to prevent water condensation on the filter.
 - II. Pursuant to 40 CFR 60.675(e), the Permittee may use the following as alternatives to the reference methods and procedures specified in Condition 4.2.2(b)(ii)(D)(I), above:
 - 1) Method 5I of 40 CFR Part 60 Appendix A-3 may be used to determine the PM concentration as an alternative to the methods specified in Condition 4.2.2(b)(ii)(D)(I). Method 5I (40 CFR Part 60, Appendix A-3) may be useful for affected facilities that operate for less than 1 hour at a time such as (but not limited to) storage bins or enclosed truck or railcar loading stations.
 - 2) In some cases, velocities of exhaust gases from building vents may be too low to measure accurately with the type S pitot tube specified in EPA Method 2 of 40 CFR Part 60 Appendix A-1 [i.e., velocity head < 1.3 mm H₂O (0.05 in. H₂O)] and referred to in EPA Method 5 of 40 CFR Part 60 Appendix A-3. For these conditions, the Permittee may determine the average gas flow rate produced by the power fans (e.g., from vendor-supplied fan curves) to the building vent. The Permittee may calculate the average gas velocity at the building vent measurement site using Equation 1 of 40 CFR 60, Subpart 000, as shown below, and use this average velocity in determining and maintaining isokinetic sampling rates.

$$v_e = \frac{Q_f}{A_e} \quad (\text{Eq 1})$$

Where:

V_e = average building vent velocity (feet per minute);
 Q_f = average fan flow rate (cubic feet per minute); and
 A_e = area of building vent and measurement location (square feet).

- E. Pursuant to Section 39.5(7)(d)(ii) of the Act, the Permittee shall perform testing, as described in Condition 4.2.2(b)(ii)(D), for the baghouse controls according to the following:
- I. PM emission measurements for each baghouse (i.e., Baghouses K and L) shall be made within 5 years of the effective date of this Condition, but no later than 6 months from the expiration date of this Permit.
- F. The Permittee shall comply with all the requirements of Section 7.1.

Recordkeeping

- G. Pursuant to 40 CFR 60.676(c), for Belt Conveyor (CONV201) and Bucket Elevator (ELEV44), which are controlled by High Efficiency Scrubber 4, the Permittee shall record the measurements of both the change in pressure of the gas stream across the scrubber and the scrubbing liquid flow rate on a daily basis.
- H. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of each test made in accordance with Condition 4.2.2(b)(ii)(C), which demonstrate compliance with the PM standards in Condition 4.2.2(b)(i)(A).
- I. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain the following records:
- I. Hours of operation of each emission unit (hr/mo and hr/yr)
- II. The emissions of PM from each emission unit, tons/mo and tons/yr (12 month rolling average), with supporting calculations, which addresses the limits set forth in Condition 4.2.2(b)(i)(B).
- III. PM emissions from all emission units controlled by Baghouse K (lbs/mo and tons/yr) (12 month rolling average) with supporting calculations, which addresses the limits set forth in Condition 4.2.2(b)(i)(C).
- IV. The combined emission of PM from mineral separator screeners 7, 8, and 9 (lbs/mo and tons/yr) (12 month rolling average) with supporting calculations, which addresses the limits set forth in Condition 4.2.2(b)(i)(D).

c. i. Work Practice Requirements

- A. Pursuant to 40 CFR 60.11(d), at all times, including periods of startup, shutdown, and malfunction, the Permittee, shall maintain and operate the emission units including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.

- B. Pursuant to 35 IAC 212.309, the material handling and processing operations shall be operated in accordance with the provisions of the operating program as described in 35 IAC 212.309 and 212.310 (see also Condition 3.2(a)).

ii. Compliance Method (Work Practice Requirements)

Monitoring

- A. Pursuant to Sections 39.5(7)(a) and (b) of the Act, at a minimum, the Permittee shall perform monthly inspections of the emission units and their associated auxiliary equipment.

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of each inspection performed, pursuant to Condition 4.2.2(c)(ii)(A), along with a maintenance and repair log. These records shall include, at a minimum: date and time inspections were performed, name(s) of inspection personnel, identification of equipment being inspected, findings of the inspections (e.g., any atypical accumulations of sand around an emission unit), operation and maintenance procedures, and a description of all maintenance and repair activities performed including if the activity resulted in a modification or reconstruction of the piece of equipment.

3. Non-Applicability Determinations

- a. As of the date of issuance of this permit, non-applicability of regulations of concern are not set for the emission units listed in Condition 4.2.1.
- b. The emission units, as listed in Condition 4.2.1, are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources for Condition 4.2.2(b)(i)(A) (i.e., the NSPS PM standard) because these units are subject to a NSPS proposed after November 15, 1990, pursuant to 40 CFR 64.2(b)(1)(i), which contains sufficient periodic monitoring as specified in Section 4.2.2(b)(ii) and is the basis for Condition 4.2.2(b)(i)(A).

4. Other Requirements

As of the date of issuance of this permit, there are no other requirements that need to be included in this Condition.

5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:
- I. Requirements in Conditions 4.2.2(a)(i), 4.2.2(b)(i), and 4.2.2(c)(i).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

iii. The deviation reports shall contain at a minimum the following information:

- A. Date and time of the deviation.
- B. Emission unit(s) and/or operation involved.
- C. The duration of the event.
- D. Probable cause of the deviation.
- E. Corrective actions or preventative measures taken.

b. Federal Reporting

- i. Pursuant to 40 CFR 60.675(g), for any performance tests involving only Method 9 (40 CFR Part 60 Appendix A-4) testing, the Permittee may reduce the 30-day advance notification of performance test in 40 CFR 60.7(a)(6) and 40 CFR 60.8(d) to a 7-day advance notification.
- ii. Pursuant to 40 CFR 60.676(d), for Belt Conveyor (CONV201) and Bucket Elevator (ELEV40), which are controlled by High Efficiency Scrubber 4, the Permittee shall submit semiannual reports to the Administrator of occurrences when the measurements of the scrubber pressure loss and liquid flow rate decrease by more than 30 percent from the average determined during the most recent performance test.
- iii.
 - A. Pursuant to 40 CFR 60.670(d), when an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in 40 CFR 60.671, having the same function as the existing facility, and there is no increase in the amount of emissions, the new facility is exempt from the provisions of 40 CFR 60.672, 60.674, and 60.675, except for an owner or operator replacing all existing facilities in a production line with new facilities does not qualify for the exemption described above and must comply with the provisions of 40 CFR 60.672, 60.674 and 60.675
 - B. Pursuant to 40 CFR 60.670(d)(3), an owner or operator complying with Condition 4.2.5(b)(iii)(A) shall submit the information required in 40 CFR 60.676(a), as follows:
 - I. Pursuant to 40 CFR 60.676(a), the Permittee shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment.
 - 1) For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station; the rated capacity in megagrams or tons per hour of the existing facility being replaced and the rated capacity in tons per hour of the replacement equipment.
 - 2) For a screening operation; the total surface area of the top screen of the existing screening operation being replaced and the total surface area of the top screen of the replacement screening operation.
 - 3) For a conveyor belt; the width of the existing belt being replaced and the width of the replacement conveyor belt.
 - 4) For a storage bin; the rated capacity in megagrams or tons of the existing storage bin being replaced and the rated capacity in megagrams or tons of replacement storage bins.

4.3 Material Handling and Processing Operations
(Subject to NSPS OOO and Constructed Prior to April 22, 2008)

1. Emission Units and Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
6 Course Screens 50SCRN17-22	PM	Nov, 1993	N/A	Baghouse A*	Pressure Drop Monitor
6 Course Screens 50SCRN23-28	PM	Nov, 1993	N/A	Baghouse A*	Pressure Drop Monitor
Conveyor 50CONV85	PM	Nov, 1993	N/A	Baghouse A*	Pressure Drop Monitor
Conveyor 50CONV86	PM	Nov, 1993	N/A	Baghouse A*	Pressure Drop Monitor
Feed Hopper A	PM	Nov, 1993	N/A	Baghouse A*	Pressure Drop Monitor
Derrick Screen #6 50SCREN15	PM	Nov, 1993	N/A	Baghouse C	Pressure Drop Monitor
Derrick Screen #5 50SCREN151	PM	Oct, 1988	N/A	Baghouse C	Pressure Drop Monitor
ASTM Bagging	PM	Aug, 1991	N/A	Baghouse D	Pressure Drop Monitor
Airslide W 50SLIDE5	PM	Aug, 1991	N/A	Baghouse G	Pressure Drop Monitor
Airslide Y 50SLIDE8	PM	Sept, 2004	N/A	Baghouse F	Pressure Drop Monitor
Airslide Z 50SLIDE10	PM	Sept, 2004	N/A	Baghouse F	Pressure Drop Monitor
Airslide A 50SLIDE12	PM	Jul, 1989	N/A	Baghouse F	Pressure Drop Monitor
Airslide 50SLIDE21	PM	Jul, 1989	N/A	Baghouse G	Pressure Drop Monitor
Truck Load C	PM	Apr, 1991	N/A	Baghouse G	Pressure Drop Monitor
Truck Load D	PM	Apr, 1991	N/A	Baghouse G	Pressure Drop Monitor
Rail Load C	PM	Aug, 1992	N/A	Baghouse G	Pressure Drop Monitor
Rail Load D	PM	Aug, 1992	N/A	Baghouse G	Pressure Drop Monitor
Conveyor 5-1A 50CONV63	PM	Oct, 1990	N/A	Baghouse H	Pressure Drop Monitor
Declined Conveyor A	PM	Oct, 1990	N/A	Baghouse H	Pressure Drop Monitor
Broken Bag Dumpster	PM	Oct, 1990	N/A	Baghouse H	Pressure Drop Monitor
Palletizer Area	PM	Oct, 1990	N/A	Baghouse H	Pressure Drop Monitor
Mixer	PM	Aug, 1991	N/A	Baghouse D	Pressure Drop Monitor
Bagger Clog Product	PM	Aug, 1991	N/A	Baghouse D	Pressure Drop Monitor
Elevator 4-13	PM	Nov, 1993	N/A	Baghouse B	Pressure Drop Monitor
Truck Load B 50SPOUT6	PM	Jun, 1993	N/A	Baghouse B	Pressure Drop Monitor
GP Elevator 50ELEV27	PM	Feb, 1995	N/A	Baghouse B	Pressure Drop Monitor
GP Conveyor 50CONV96	PM	Feb, 1995	N/A	Baghouse B	Pressure Drop Monitor
Derrick Screen #4	PM	Nov, 1993	N/A	Baghouse B	Pressure Drop Monitor
Derrick Screen #5	PM	Nov, 1993	N/A	Baghouse B	Pressure Drop Monitor

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

Section 4 - Emission Unit Requirements
4.3 - Material Handling and Processing Operations
Constructed Prior to April 22, 2008

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
5070 Bagger 50BAGGER4	PM	Aug, 1991	N/A	Baghouse D	Pressure Drop Monitor
Bulk Bag Load 50SPOUT9	PM	May, 1987	N/A	Baghouse E	Pressure Drop Monitor
Truck Load A 50SPOUT5	PM	Sep, 1993	N/A	Baghouse D	Pressure Drop Monitor
North Outside Bin	PM	May, 1983	N/A	Baghouse C	Pressure Drop Monitor
South Outside Bin	PM	May, 1983	N/A	Baghouse C	Pressure Drop Monitor
Conveyor AA	PM	Aug, 1994	N/A	Baghouse J	Pressure Drop Monitor
Conveyor BB	PM	Aug, 1994	N/A	Baghouse J	Pressure Drop Monitor
Conveyor CC	PM	Aug, 1994	N/A	Baghouse J	Pressure Drop Monitor
Conveyor DD	PM	Aug, 1994	N/A	Baghouse J	Pressure Drop Monitor
Conveyor EE	PM	Aug, 1994	N/A	Baghouse J	Pressure Drop Monitor
Conveyor FF	PM	Aug, 1994	N/A	Baghouse J	Pressure Drop Monitor
Feed Hopper F	PM	Aug, 1994	N/A	Baghouse J	Pressure Drop Monitor
Truck Load F	PM	Aug, 1994	N/A	Baghouse J	Pressure Drop Monitor
Rail/Truck Load	PM	Aug, 1994	N/A	Baghouse J	Pressure Drop Monitor
Belt Conveyor (4-36)	PM	Dec, 1997	N/A	None	None
One storage Bin (Bin 36)	PM	Dec, 1997	N/A	None	None
One Truck Loadout (Truckload D)	PM	Dec, 1997	N/A	None	None
Elevator	PM	Jan, 1998	N/A	Baghouse I	Pressure Drop Monitor
Building Process Fugitives	PM	N/A	N/A	None	None

* Note: Source is planning to replace Baghouse A with Donaldson Torit Downflo II (DFT) cartridge collector, which will have equal or better control efficiency.

2. **Applicable Requirements**

For the emission units in Condition 4.3.1 above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act.

a. i. Opacity Requirements

- A. Pursuant to 40 CFR 60.672(a), for the controlled emission units (e.g., emission units vented to a baghouse), opacity from the stack of such control device shall not exceed 7 percent opacity.
- B. Pursuant to 40 CFR 60.672(b), opacity of fugitive emissions resulting from any emission unit, listed in Condition 4.3.1, shall not exceed 10 percent opacity.
- C. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit.

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

ii. Compliance Method (Opacity Requirements)

Monitoring

- A. Pursuant to Sections 39.5(7)(b) and (d) of the Act, to ensure compliance with Condition 4.3.2(a)(i)(B and/or C), at a minimum, the Permittee shall perform observations for fugitive opacity, on each emission unit listed in Condition 4.3.1, in accordance with Reference Method 22 for visible emissions at least once every 6 months during the operation of these emission units. If visible emissions are observed, the Permittee shall take corrective action within 2 hours of such observation to return the status of the operation to no visible emissions or shall perform a Method 9 observation within one week. Corrective action may include, but is not limited to, shut down of the emission unit, maintenance and repair, and/or adjustment of the equipment. If corrective action was taken, the Permittee shall perform a follow up observation for visible emissions in accordance with Method 22. If visible emissions continue, then measurements of opacity in accordance with Method 9 of Appendix A-4 of 40 CFR Part 60, Subpart OOO, shall be conducted within one week in accordance with Condition 2.4.
- B. Pursuant to Sections 39.5(7)(b) and (d) of the Act, to ensure compliance with Condition 4.3.2(a)(i)(A), at a minimum, the Permittee shall perform observations for opacity for each control device stack (e.g., each baghouse stack), in accordance with Reference Method 22 for visible emissions at least once per quarter during operation. If visible emissions are observed, the Permittee shall take corrective action within 2 hours of such observation to return the status of the operation to no visible emissions or shall perform a Reference Method 9 observation within one week. Corrective action may include, but is not limited to, shut down of the associated emission units, maintenance and repair, and/or adjustment of the equipment. If corrective action was taken, the Permittee shall perform a follow up observation for visible emissions in accordance with Method 22. If visible emissions continue, then measurements of opacity in accordance with Method 9 shall be conducted within one week in accordance with Condition 2.4
- C. Pursuant to 40 CFR 60.675(b)(2), in determining compliance with Condition 4.3.2(a)(i)(A), the Permittee shall use Method 9 of 40 CFR 60 Appendix A-4 and the procedures in 40 CFR 60.11.
- D. I. Pursuant to 40 CFR 60.675(c)(1), in determining compliance with Condition 4.3.2(a)(i)(B), the Permittee shall use Method 9 of 40 CFR 60 Appendix A-4 and the procedures in 40 CFR 60.11, with the following additions:
- 1) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).
 - 2) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9 of 40 CFR 60 Appendix A-4, Section 2.1) must be followed.
- II. Pursuant to 40 CFR 60.675(c)(3), when determining compliance with Condition 4.3.2(a)(i)(B), the duration of the Method 9 (40 CFR Part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in 40 CFR 60, Subpart OOO, Table 3 must be based on the average of the five 6-minute averages.

Recordkeeping

- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for each opacity observation (Method 22) performed. These records shall include, at a minimum: date and time the observation was performed, name(s) of observing personnel, identification of which equipment was observed, whether or not the equipment was running properly, the findings of the observation including the presence of any visible emissions, and a description of any corrective action taken including if the corrective action took place within 2 hours of the observation.
- D. Pursuant to Section 39.5(7)(b) of the Act, if a Method 9 is performed as required by Condition 4.3.2(a)(ii)(A or B), the Permittee shall keep records for all opacity observations made in accordance with Method 9.

b. i. Particulate Matter Requirements (PM)

- A. Pursuant to 40 CFR 60.672(a), for the controlled emission units (e.g., emission units vented to a baghouse), PM emissions shall not exceed 0.05 g/dscm (0.022 gr/dscf).
- B. Pursuant to 35 IAC 212.321(a), no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.321(c). (See Condition 7.2)
- C. Pursuant to 35 IAC 212.313, particulate collection equipment that is operated pursuant to 35 IAC 212.304 through 35 IAC 212.310 and 35 IAC 212.312, PM emissions from such equipment shall not exceed 68 mg/dscm (0.03 gr/dscf).

Note: The standard from the NSPS (Condition 4.3.2(b)(i)(A), above) is more stringent than the 0.03 gr/dscf standard in this Condition.

- D. Pursuant to Construction Permit #93060121, emissions from the two Derrick vibrating screens (i.e., Derrick Screen #4 and #5) and the elevator (Elev 4-13) (Sizing Building) shall not exceed the following limits:

Particulate Matter Emissions	
<u>(Ton/Month)</u>	<u>(Ton/Year)</u>
0.0135	1.62

- E. Pursuant to Permit #94040090, emissions from the affected sand loading process consisting of six 30 inch conveyor belts; two bulk railcar loading chutes; one Bulk Truck Loading Chute and one fine Sand Loading Chute controlled by a baghouse (i.e., Baghouse J, as listed in 4.3.1) as described in the application shall not exceed the following limits:

<u>Emission Unit</u>	PM Emissions	
	<u>(Ton/Month)</u>	<u>(Ton/Year)</u>
RR/Truck Loading/Fine Sand Chutes	1.46	17.52
Conveyors & Transfers	0.159	1.91

Section 4 - Emission Unit Requirements
4.3 - Material Handling and Processing Operations
Constructed Prior to April 22, 2008

- F. Pursuant to Construction Permit #97090033, PM emissions from the Belt Conveyor (4-36), one storage bin (Bin 36), and one Truck Loadout (Truckload D) shall not exceed the following: [T1]
- I. Particulate Matter emissions from each emission source (i.e., Belt Conveyor (4-36), storage bin (Bin 36), and Truck Loadout (Truckload D)) shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year.
- G. Pursuant to Construction Permit #93060069, PM emissions from the 12 Derrick vibrating screens (12 Coarse Screens) (located in the wet process building a.k.a. washing and drying building) shall not exceed the following limits:

Particulate Matter Emissions	
(Tons/Month)	(Tons/Year)
0.41	4.93

- H. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

ii. Compliance Method (PM Requirements)

- A. Pursuant to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, the emission units that are controlled by baghouses are subject to 40 CFR Part 64 for the PM standards and limitations in Conditions 4.2.2(b) (i) (B-G). The Permittee shall comply with the monitoring requirements of the CAM Plan described in Condition 7.5 and Table 7.5.4, pursuant to 40 CFR Part 64 as submitted in the Permittee's CAM plan application. At all times, the Owner or Operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment, pursuant to 40 CFR 64.7(a) and (b).

Testing

- B. Pursuant to 40 CFR 60.675(b) (1), the Permittee shall determine compliance with the PM standards in Condition 4.3.2(b) (i) (A) as follows:
- I. Except as specified in Conditions 4.3.2(b) (ii) (B) (II), Method 5 of 40 CFR Part 60 Appendix A-3 or Method 17 of 40 CFR Part 60 Appendix A-6 shall be used to determine the particulate matter concentration. The sample volume shall be at least 1.70 dscm (60 dscf). For Method 5 (40 CFR Part 60, Appendix A-3), if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121°C (250°F), to prevent water condensation on the filter.
- II. Pursuant to 40 CFR 60.675(e), the Permittee may use the following as alternatives to the reference methods and procedures specified in Condition 4.3.2(b) (ii) (B) (I), above:
- 1) Method 5I of 40 CFR Part 60 Appendix A-3 may be used to determine the PM concentration as an alternative to the methods specified in Condition 4.3.2(b) (ii) (B) (I). Method 5I (40 CFR Part 60, Appendix A-3) may be useful for affected facilities that operate for less than 1 hour at a time such as (but not

Section 4 - Emission Unit Requirements
4.3 - Material Handling and Processing Operations
Constructed Prior to April 22, 2008

limited to) storage bins or enclosed truck or railcar loading stations.

- 2) In some cases, velocities of exhaust gases from building vents may be too low to measure accurately with the type S pitot tube specified in EPA Method 2 of 40 CFR Part 60 Appendix A-1 [i.e., velocity head <1.3 mm H₂O (0.05 in. H₂O)] and referred to in EPA Method 5 of 40 CFR Part 60 Appendix A-3. For these conditions, the Permittee may determine the average gas flow rate produced by the power fans (e.g., from vendor-supplied fan curves) to the building vent. The Permittee may calculate the average gas velocity at the building vent measurement site using Equation 1 of 40 CFR 60, Subpart 000, as shown below, and use this average velocity in determining and maintaining isokinetic sampling rates.

$$v_e = \frac{Q_f}{A_e} \quad (\text{Eq 1})$$

Where:

V_e = average building vent velocity (feet per minute);
 Q_f = average fan flow rate (cubic feet per minute); and
 A_e = area of building vent and measurement location (square feet).

- C. Pursuant to Section 39.5(7)(d)(ii) of the Act, the testing, as described in Condition 4.3.2(b)(ii)(B), shall be performed for the baghouse controls (as listed in Condition 4.3.1) according to the following:
- I. PM emission measurements for each baghouse shall be made within 5 years of the effective date of this Condition, but no later than 6 months from the expiration date of this Permit.
- D. The Permittee shall comply with all the requirements of Section 7.1.

Recordkeeping

- E. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of each test made in accordance with Condition 4.3.2(b)(ii)(C), which demonstrate compliance with the PM standards in Condition 4.3.2(b)(i)(A).
- F. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain the following records:
- I. Hours of operation of each emission unit (hr/mo and hr/yr)
- II. The emissions of PM from each emission unit, tons/mo and tons/yr (12 month rolling average), with supporting calculations, which addresses the limits set forth in Condition 4.3.2(b)(i)(B).
- III. PM emissions from Belt Conveyor (4-36), one storage bin (Bin 36), and one Truck Loadout (Truckload D), (lbs/mo and tons/yr) (12 month rolling average) with supporting calculations, which addresses the limits set forth in Condition 4.3.2(b)(i)(F).
- IV. PM emissions from the 12 Derrick Screens (12 Coarse Screens) (lbs/mo and tons/yr) (12 month rolling average) with supporting calculations, which addresses the limits set forth in Condition 4.3.2(b)(i)(G).

c. i. **Work Practice Requirements**

- A. Pursuant to 40 CFR 60.11(d), at all times, including periods of startup, shutdown, and malfunction, the Permittee, shall maintain and operate the emission units including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.
- B. Pursuant to 35 IAC 212.309, the material handling and processing operations shall be operated in accordance with the provisions of the operating program as described in 35 IAC 212.309 and 212.310 (see also Condition 3.2(a)).

ii. **Compliance Method (Work Practice Requirements)**

Monitoring

- A. Pursuant to Sections 39.5(7)(a) & (b) of the Act, at a minimum, the Permittee shall perform monthly inspections of the emission units and their associated auxiliary equipment.

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of each inspection performed, pursuant to Condition 4.3.2(c)(ii)(A), along with a maintenance and repair log. These records shall include, at a minimum: date and time inspections were performed, name(s) of inspection personnel, identification of equipment being inspected, findings of the inspections (e.g., any atypical accumulations of sand around an emission unit), operation and maintenance procedures, and a description of all maintenance and repair activities performed including if the activity resulted in a modification or reconstruction of the piece of equipment.

3. Non-Applicability Determinations

- a. Conveyor 5-1B, Airslide E, Belt Conveyor (4-36), One storage Bin (Bin 36), and One Truck Loadout (Truckload D) are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because these emission units do not use an add-on control device to achieve compliance with an emission limitation or standard.
- b. The emission units, as listed in Condition 4.3.1, are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources for Condition 4.3.2(b)(i)(A) (i.e., the NSPS PM standard) because these units are subject to a NSPS proposed after November 15, 1990, pursuant to 40 CFR 64.2(b)(1)(i), which contains sufficient periodic monitoring as specified in Section 4.3.2(b)(ii) and is the basis for Condition 4.3.2(b)(i)(A).

4. Other Requirements

As of the date of issuance of this permit, there are no other requirements that need to be included in this Condition.

5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

a. **Prompt Reporting**

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

Section 4 - Emission Unit Requirements
4.3 - Material Handling and Processing Operations
Constructed Prior to April 22, 2008

applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:

- I. Requirements in Conditions 4.3.2(a)(i), 4.3.2(b)(i), and 4.3.2(c)(i).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
 - A. Date and time of the deviation.
 - B. Emission unit(s) and/or operation involved.
 - C. The duration of the event.
 - D. Probable cause of the deviation.
 - E. Corrective actions or preventative measures taken.

b. Federal Reporting

- i. Pursuant to 40 CFR 60.675(g), for any performance tests involving only Method 9 (40 CFR Part 60 Appendix A-4) testing, the Permittee may reduce the 30-day advance notification of performance test in 40 CFR 60.7(a)(6) and 40 CFR 60.8(d) to a 7-day advance notification.
- ii.
 - A. Pursuant to 40 CFR 60.670(d), when an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in 40 CFR 60.671, having the same function as the existing facility, and there is no increase in the amount of emissions, the new facility is exempt from the provisions of 40 CFR 60.672, 60.674, and 60.675, except for an owner or operator replacing all existing facilities in a production line with new facilities does not qualify for the exemption described above and must comply with the provisions of 40 CFR 60.672, 60.674 and 60.675
 - B. Pursuant to 40 CFR 60.670(d)(3), an owner or operator complying with Condition 4.3.5(b)(iii)(A) shall submit the information required in 40 CFR 60.676(a), as follows:
 - I. Pursuant to 40 CFR 60.676(a), the Permittee shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment.
 - 1) For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station; the rated capacity in megagrams or tons per hour of the existing facility being replaced and the rated capacity in tons per hour of the replacement equipment.
 - 2) For a screening operation; the total surface area of the top screen of the existing screening operation being replaced and the total surface area of the top screen of the replacement screening operation.
 - 3) For a conveyor belt; the width of the existing belt being replaced and the width of the replacement conveyor belt.

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

Section 4 - Emission Unit Requirements
4.3 - Material Handling and Processing Operations
Constructed Prior to April 22, 2008

- 4) For a storage bin; the rated capacity in megagrams or tons of the existing storage bin being replaced and the rated capacity in megagrams or tons of replacement storage bins.

4.4 Other Material Handling and Processing Operations

1. Emission Units and Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
Conveyor 50CONV3	PM	Nov, 1975	N/A	Baghouse A*	Pressure Drop Monitor
Elevator 50ELEV22	PM	Nov, 1975	N/A	Baghouse A*	Pressure Drop Monitor
Scalp Screens	PM	Nov, 1975	N/A	Baghouse A*	Pressure Drop Monitor
Conveyor 50CONV82	PM	Nov, 1975	N/A	Baghouse A* & B	Pressure Drop Monitor
Elevator 50ELEV23	PM	Jul, 1980	N/A	Baghouse A*	Pressure Drop Monitor
Conveyor 50CONV90	PM	Jul, 1980	N/A	Baghouse A*	Pressure Drop Monitor
Conveyor 50CONV91	PM	Jul, 1980	N/A	Baghouse A* & B	Pressure Drop Monitor
Elevator 50ELEV23	PM	Nov, 1975	N/A	Baghouse A*	Pressure Drop Monitor
Conveyor 50CONV83	PM	Nov 1975	N/A	Baghouse A*	Pressure Drop Monitor
Elevator 4-21	PM	Jul, 1980	N/A	Baghouse B	Pressure Drop Monitor
Derrick Screen #1	PM	Jul, 1980	N/A	Baghouse B	Pressure Drop Monitor
Derrick Screen #2	PM	Jul, 1980	N/A	Baghouse B	Pressure Drop Monitor
Bin 1 for ASTM 50BIN1	PM	Nov, 1975	N/A	Baghouse C	Pressure Drop Monitor
Elevator 50CONV82	PM	Nov, 1975	N/A	Baghouse C	Pressure Drop Monitor
Bin 2 50BIN2	PM	Nov, 1975	N/A	Baghouse B	Pressure Drop Monitor
Bin 3 50BIN2	PM	Nov, 1975	N/A	Baghouse B	Pressure Drop Monitor
Conveyor I	PM	Nov, 1975	N/A	Baghouse B	Pressure Drop Monitor
Conveyor G 50CONV55	PM	Nov, 1975	N/A	Baghouse F	Pressure Drop Monitor
Elevator GH 50ELEV14	PM	Apr, 1948	N/A	Baghouse F	Pressure Drop Monitor
Conveyor GH 50CONV56	PM	Sep, 1960	N/A	Baghouse F	Pressure Drop Monitor
North Storage Bin 50BIN8	PM	Nov, 1975	N/A	Baghouse F	Pressure Drop Monitor
South Storage Bin 50BIN9	PM	Sep, 1960	N/A	Baghouse F	Pressure Drop Monitor
Mill "G" Office	PM	Oct, 1962	N/A	Baghouse F	Pressure Drop Monitor
Grind Mill 1 50MILL1	PM	Apr, 1948	N/A	Baghouse G	Pressure Drop Monitor
Grind Mill 2 50MILL2	PM	Apr, 1948	N/A	Baghouse G	Pressure Drop Monitor
Grind Mill 3 50MILL3	PM	Apr, 1948	N/A	Baghouse F	Pressure Drop Monitor
Grind Mill 4 50MILL4	PM	Apr, 1948	N/A	Baghouse F	Pressure Drop Monitor
Grind Mill 5	PM	Apr, 1948	N/A	None	None
Grind Mill 7 50MILL7	PM	Sep, 1960	N/A	Baghouse G	Pressure Drop Monitor
Grind Mill 9 50MILL9	PM	May, 1969	N/A	Baghouse G	Pressure Drop Monitor

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

Section 4 - Emission Unit Requirements
4.4 - Other Material Handling and Processing Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
Airslide V 50SLIDE1	PM	Sep, 1960	N/A	Baghouse G	Pressure Drop Monitor
Airslide X 50SLIDE2	PM	Sep, 1961	N/A	Baghouse F	Pressure Drop Monitor
Mill Elevator 15	PM	Apr, 1948	N/A	Baghouse G	Pressure Drop Monitor
Mill Elevator 2 50ELEV8	PM	Apr, 1948	N/A	Baghouse G	Pressure Drop Monitor
Mill Elevator 3 50ELEV10	PM	Apr, 1948	N/A	Baghouse G	Pressure Drop Monitor
Mill Elevator 56 50ELEV11	PM	Apr, 1948	N/A	Baghouse G	Pressure Drop Monitor
Mill Elevator 79	PM	Apr, 1960	N/A	Baghouse F	Pressure Drop Monitor
Classifier Elevator 10	PM	Apr, 1948	N/A	Baghouse F	Pressure Drop Monitor
Classifier Elevator 20	PM	Apr, 1948	N/A	Baghouse F	Pressure Drop Monitor
Classifier #1 50CLASS1	PM	Apr, 1948	N/A	None	None
Classifier #2 50CLASS2	PM	Apr, 1948	N/A	None	None
Classifier #3 50CLASS3	PM	Apr, 1948	N/A	None	None
Classifier #4 50CLASS4	PM	Sep, 1960	N/A	None	None
3 Hummer Screens 50SCREN8	PM	Mar, 1955	N/A	Baghouse G	Pressure Drop Monitor
Storage Elevator 1 50ELEV15	PM	Apr, 1948	N/A	Baghouse F	Pressure Drop Monitor
Storage Elevator 2 50ELEV16	PM	Apr, 1948	N/A	Baghouse F	Pressure Drop Monitor
Storage Elevator 3 50ELEV17	PM	Apr, 1948	N/A	Baghouse F	Pressure Drop Monitor
Storage Elevator 4 50ELEV18	PM	Apr, 1948	N/A	Baghouse F	Pressure Drop Monitor
Storage Elevator 5 50ELEC19	PM	Mar, 1955	N/A	Baghouse F	Pressure Drop Monitor
Storage Elevator 6 50ELEV20	PM	Sep, 1960	N/A	Baghouse F	Pressure Drop Monitor
Vibrating Screen 1 50 SCREN 11	PM	Apr, 1948	N/A	Baghouse F	Pressure Drop Monitor
Vibrating Screen 2 50 SCREN12	PM	Apr, 1948	N/A	Baghouse F	Pressure Drop Monitor
Vibrating Screen 3 50SCREN13	PM	Apr, 1948	N/A	Baghouse F	Pressure Drop Monitor
Vibrating Screen 4 50SCREN14	PM	Apr, 1948	N/A	Baghouse F	Pressure Drop Monitor
Vibrating Screen 5 50SCREN15	PM	Mar, 1955	N/A	Baghouse F	Pressure Drop Monitor
Vibrating Screen 6 50SCREN9	PM	Sep, 1960	N/A	Baghouse F	Pressure Drop Monitor
Product Flour Bin 1 50BIN10	PM	Apr, 1948	N/A	Baghouse F	Pressure Drop Monitor
Product Flour Bin 2 50BIN10	PM	Apr, 1948	N/A	Baghouse F	Pressure Drop Monitor
Product Flour Bin 3 50BIN10	PM	Apr, 1948	N/A	Baghouse F	Pressure Drop Monitor
Product Flour Bin 450BIN10	PM	Apr, 1948	N/A	Baghouse F	Pressure Drop Monitor
Product Flour Bin 5 50BIN10	PM	Mar, 1955	N/A	Baghouse F	Pressure Drop Monitor
Product Flour Bin 6 50BIN10	PM	Mar, 1955	N/A	Baghouse F	Pressure Drop Monitor
Product Flour Bin 7 50BIN10	PM	Sep, 1958	N/A	Dust Collector 1	Tube Manometers

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

Section 4 - Emission Unit Requirements
4.4 - Other Material Handling and Processing Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
Product Flour Bin 8 50BIN10	PM	Sep, 1958	N/A	Dust Collector 1	Tube Manometers
Product Flour Bin 950BIN10	PM	Sep, 1958	N/A	Dust Collector 1	Tube Manometers
Product Flour Bin 10 50BIN10	PM	Sep, 1958	N/A	Dust Collector 1	Tube Manometers
Product Flour Bin 11 50BIN10	PM	Sep, 1958	N/A	Dust Collector 2	Tube Manometers
Product Flour Bin 12 50BIN10	PM	Sep, 1958	N/A	Dust Collector 2	Tube Manometers
Product Flour Bin 13 50BIN10	PM	Oct, 1959	N/A	Dust Collector 3	Tube Manometers
Product Flour Bin 14 50BIN10	PM	Oct, 1959	N/A	Dust Collector 3	Tube Manometers
Hopper 1 50BIN10	PM	Apr, 1948	N/A	Baghouse G	Pressure Drop Monitor
Hopper 23 50BIN10	PM	Apr, 1948	N/A	Baghouse G	Pressure Drop Monitor
Hopper 4 50BIN10	PM	Apr, 1948	N/A	Baghouse G	Pressure Drop Monitor
Bagger 50BAGGER5	PM	Jul, 1975	N/A	Baghouse H	Pressure Drop Monitor
Bagger 50BAGGER6	PM	Apr, 1948	N/A	Baghouse H	Pressure Drop Monitor
Bagger 50BAGGER7	PM	Apr, 1948	N/A	Baghouse H	Pressure Drop Monitor
Bagger 50BAGGER8	PM	Mar, 1955	N/A	Baghouse H	Pressure Drop Monitor
Conveyor 4-10B 50CONV84	PM	Nov, 1975	N/A	Baghouse B & I	Pressure Drop Monitor
#3 Exolon Screens ASTM 50SCREN6	PM	Nov, 1975	N/A	Baghouse C	Pressure Drop Monitor
Bin 44 50BIN44	PM	Nov, 1975	N/A	Baghouse C	Pressure Drop Monitor
Center Distribution Box	PM	Nov, 1975	N/A	None	None
1 Hummer Screen ASTM 50SCREN8	PM	Nov, 1975	N/A	Baghouse C	Pressure Drop Monitor
Bin 4A 50BIN2	PM	Nov, 1975	N/A	Baghouse C	Pressure Drop Monitor
Bin 5A 50BIN2	PM	Nov, 1975	N/A	Baghouse C	Pressure Drop Monitor
Bin 6A 50BIN2	PM	Nov, 1975	N/A	Baghouse C	Pressure Drop Monitor
Bin 7A 50BIN2	PM	Nov, 1975	N/A	Baghouse C	Pressure Drop Monitor
Bin 8A 50BIN2	PM	Nov, 1975	N/A	Baghouse B	Pressure Drop Monitor
Bin 9A 50BIN2	PM	Nov, 1975	N/A	Baghouse B	Pressure Drop Monitor
Bin 10 & 11 50BIN2	PM	Nov, 1975	N/A	Baghouse C	Pressure Drop Monitor
Bin 12 & 13 50BIN2	PM	Nov, 1975	N/A	Baghouse C	Pressure Drop Monitor
Bin 14A 50BIN2	PM	Nov, 1975	N/A	Baghouse B	Pressure Drop Monitor
Bin 16A 50BIN2	PM	Nov, 1975	N/A	Baghouse B	Pressure Drop Monitor
GKC #3	PM	Nov, 1975	N/A	Baghouse C	Pressure Drop Monitor
5070 Surge Bin	PM	Nov, 1975	N/A	Baghouse E	Pressure Drop Monitor
2 Exolon Screens	PM	Nov, 1975	N/A	Baghouse C	Pressure Drop Monitor

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

Section 4 - Emission Unit Requirements
4.4 - Other Material Handling and Processing Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
Bin 20A	PM	Nov, 1975	N/A	Baghouse E	Pressure Drop Monitor
Merrick Conveyor 1	PM	Nov, 1975	N/A	Baghouse B	Pressure Drop Monitor
Merrick Conveyor 2	PM	Nov, 1975	N/A	Baghouse B	Pressure Drop Monitor
Merrick Conveyor 3	PM	Nov, 1975	N/A	Baghouse B	Pressure Drop Monitor
Merrick Conveyor 4	PM	Nov, 1975	N/A	Baghouse B	Pressure Drop Monitor
A Line Blending Belt 50CONV7	PM	Nov, 1975	N/A	Baghouse B, C & D	Pressure Drop Monitor
B Line Blending Belt 50CONV8	PM	Nov, 1975	N/A	Baghouse B, C & D	Pressure Drop Monitor
C Line Blending Belt 50CONV9	PM	Nov, 1975	N/A	Baghouse B, C & D	Pressure Drop Monitor
D Line Blending Belt 50CONV10	PM	Nov, 1975	N/A	Baghouse B, C & D	Pressure Drop Monitor
A Line Elevator 50ELEV2	PM	Nov, 1975	N/A	Baghouse B	Pressure Drop Monitor
B Line Elevator 50ELEV3	PM	Nov, 1975	N/A	Baghouse B	Pressure Drop Monitor
C Line Elevator 50ELEV4	PM	Nov, 1975	N/A	Baghouse C	Pressure Drop Monitor
D Line Elevator 50ELEV5	PM	Nov, 1975	N/A	Baghouse C	Pressure Drop Monitor
Conveyor 4-31	PM	Nov, 1975	N/A	Baghouse D	Pressure Drop Monitor
Conveyor 4-32	PM	Nov, 1975	N/A	Baghouse D	Pressure Drop Monitor
Conveyor 4-30A 50CONV12	PM	Nov, 1975	N/A	Baghouse E	Pressure Drop Monitor
Conveyor 4-30B	PM	Nov, 1975	N/A	Baghouse E	Pressure Drop Monitor
Horizontal Track Conveyor 4 50CONV16	PM	Nov, 1975	N/A	Baghouse E	Pressure Drop Monitor
Horizontal Track Conveyor 5 50CONV18	PM	Nov, 1975	N/A	Baghouse E	Pressure Drop Monitor
Inclined Belt Conveyor 4 50CONV17	PM	Nov, 1975	N/A	Baghouse E & J	Pressure Drop Monitor
Inclined Belt Conveyor 5 50CONV19	PM	Nov, 1975	N/A	Baghouse E & J	Pressure Drop Monitor
Track Bin 4 50BIN5	PM	Nov, 1975	N/A	Baghouse J	Pressure Drop Monitor
Track bin 5 50BIN5	PM	Nov, 1975	N/A	Baghouse J	Pressure Drop Monitor
Track 4 50SPOUT2	PM	Nov, 1975	N/A	Baghouse J	Pressure Drop Monitor
Track 5 50SPOUT3	PM	Nov, 1975	N/A	Baghouse J	Pressure Drop Monitor
East Bag Bin 1 50BIN7	PM	Nov, 1975	N/A	Baghouse E	Pressure Drop Monitor
East Bag Bin 2 50BIN8	PM	Nov, 1975	N/A	Baghouse E	Pressure Drop Monitor
East Bagging 50BAGGER4	PM	Nov, 1975	N/A	Baghouse E	Pressure Drop Monitor
Hopper East 50BIN2	PM	Nov, 1975	N/A	Baghouse E	Pressure Drop Monitor
Bin 34A 50BIN2	PM	Nov, 1975	N/A	Baghouse D	Pressure Drop Monitor
Bin 34B 50BIN2	PM	Nov, 1975	N/A	Baghouse D	Pressure Drop Monitor
Cooling Bin C & D 50BIN12	PM	Nov, 1975	N/A	Baghouse C	Pressure Drop Monitor

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

Section 4 - Emission Unit Requirements
4.4 - Other Material Handling and Processing Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
Conveyor 4-33 50CONV29	PM	Nov, 1975	N/A	Baghouse D	Pressure Drop Monitor
Cooling Elevator C & D50ELEV61	PM	Nov, 1975	N/A	Baghouse C	Pressure Drop Monitor
West Bag Bin 1 50BIN6	PM	Nov, 1975	N/A	Baghouse D	Pressure Drop Monitor
West Bag Bin 2 50BIN7	PM	Nov, 1975	N/A	Baghouse D	Pressure Drop Monitor
West Bagging 50BAGGER2	PM	Nov, 1975	N/A	Baghouse D	Pressure Drop Monitor
Hopper West 50BIN2	PM	Nov, 1975	N/A	Baghouse D	Pressure Drop Monitor
North Inside Bin 50BIN8	PM	Feb, 1982	N/A	Baghouse C	Pressure Drop Monitor
Bin 35 50BIN2	PM	Nov, 1975	N/A	Baghouse C	Pressure Drop Monitor
South Inside Bin 50BIN9	PM	Feb, 1982	N/A	Baghouse C	Pressure Drop Monitor
Elevator 4-30 50ELEV25	PM	Jun, 1951	N/A	Baghouse I	Pressure Drop Monitor
Bin 17 50BIN2	PM	Jun, 1951	N/A	Baghouse I	Pressure Drop Monitor
Bin 18 50BIN2	PM	Jun, 1951	N/A	Baghouse I	Pressure Drop Monitor
Bin 19 50BIN2	PM	Jun, 1951	N/A	Baghouse I	Pressure Drop Monitor
Bin 20 50BIN2	PM	Jun, 1951	N/A	Baghouse I	Pressure Drop Monitor
Bin 21 50BIN2	PM	Jun, 1951	N/A	Baghouse I	Pressure Drop Monitor
Bin 22 50BIN2	PM	Jun, 1951	N/A	Baghouse I	Pressure Drop Monitor
Bin 23 50BIN2	PM	Jun, 1951	N/A	Baghouse I	Pressure Drop Monitor
Bin 24 50BIN2	PM	Jun, 1951	N/A	Baghouse I	Pressure Drop Monitor
Bin 25 50BIN2	PM	Jun, 1951	N/A	Baghouse I	Pressure Drop Monitor
Bin 26 50BIN2	PM	Jun, 1951	N/A	Baghouse I	Pressure Drop Monitor
Bin 27 50BIN2	PM	Jun, 1951	N/A	Baghouse I	Pressure Drop Monitor
Bin 28 50BIN2	PM	Jun, 1951	N/A	Baghouse I	Pressure Drop Monitor
Bin 29 50BIN2	PM	Jun, 1951	N/A	Baghouse I	Pressure Drop Monitor
Bin 30 50BIN2	PM	Jun, 1951	N/A	Baghouse I	Pressure Drop Monitor
Bin 31 50BIN2	PM	Jun, 1951	N/A	Baghouse I	Pressure Drop Monitor
Bin 32 50BIN2	PM	Jun, 1951	N/A	Baghouse I	Pressure Drop Monitor
Bin 33 50BIN2	PM	Jun, 1951	N/A	Baghouse I	Pressure Drop Monitor
Airslide 9 50ASLIDE3	PM	Apr, 1967	N/A	Baghouse G	Pressure Drop Monitor
Airslide D 50ASLIDE4	PM	Apr, 1963	N/A	Baghouse G	Pressure Drop Monitor
Building Process Fugitives	PM	N/A	N/A	None	None

Note: The emission units listed in Condition 4.4.1, above, are not subject to the requirements of 40 CFR 60, Subpart OOO. However, to avoid difficulty in attempting to differentiate between

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

varying compliance procedures throughout the source, the Permittee has elected to comply with the monitoring requirements contained in 40 CFR 60, Subpart OOO, for these emission units.

* Note: Source is planning to replace Baghouse A with Donaldson Torit Downflo II (DFT) cartridge collector, which will have equal or better control efficiency.

2. Applicable Requirements

For the emission units in Condition 4.4.1 above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act.

a. i. Opacity Requirements

A. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit.

ii. Compliance Method (Opacity Requirements)

Monitoring

A. Pursuant to Sections 39.5(7)(b) and (d) of the Act, to ensure compliance with Condition 4.4.2(a)(i)(A), at a minimum, the Permittee shall perform observations for fugitive opacity, on each emission unit listed in Condition 4.4.1, in accordance with Reference Method 22 for visible emissions at least once every 6 months during the operation of these emission units. If visible emissions are observed, the Permittee shall take corrective action within 2 hours of such observation to return the status of the operation to no visible emissions or shall perform a Method 9 observation within one week. Corrective action may include, but is not limited to, shut down of the emission unit, maintenance and repair, and/or adjustment of the equipment. If corrective action was taken, the Permittee shall perform a follow up observation for visible emissions in accordance with Method 22. If visible emissions continue, then measurements of opacity in accordance with Method 9 of Appendix A-4 of 40 CFR Part 60, Subpart OOO, shall be conducted within one week in accordance with Condition 2.4.

Recordkeeping

- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for each opacity observation (Method 22) performed. These records shall include, at a minimum: date and time the observation was performed, name(s) of observing personnel, identification of which equipment was observed, whether or not the equipment was running properly, the findings of the observation including the presence of any visible emissions, and a description of any corrective action taken including if the corrective action took place within 2 hours of the observation.
- D. Pursuant to Section 39.5(7)(b) of the Act, if a Method 9 is performed as required by Condition 4.3.2(a)(ii)(A), the Permittee shall keep records for all opacity observations made in accordance with Method 9.

b. i. Particulate Matter Requirements (PM)

A. Pursuant to 35 IAC 212.321(a), no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.321(c). (See Condition 7.2)

- B. Pursuant to 35 IAC 212.313, particulate collection equipment that is operated pursuant to 35 IAC 212.304 through 35 IAC 212.310 and 35 IAC 212.312, PM emissions from such equipment shall not exceed 68 mg/dscm (0.03 gr/dscf).

ii. Compliance Method (PM Requirements)

- A. Pursuant to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, the emission units that are controlled by baghouses are subject to 40 CFR Part 64 for PM. The Permittee shall comply with the monitoring requirements of the CAM Plan described in Condition 7.5 and Table 7.5.4, pursuant to 40 CFR Part 64 as submitted in the Permittee's CAM plan application. At all times, the Owner or Operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment, pursuant to 40 CFR 64.7(a) and (b).

Testing

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall determine compliance with the PM standards in Condition 4.4.2(b)(i)(B) as follows:
- I. Except as specified in Conditions 4.4.2(b)(ii)(B)(II), Method 5 of 40 CFR Part 60 Appendix A-3 or Method 17 of 40 CFR Part 60 Appendix A-6 shall be used to determine the particulate matter concentration. The sample volume shall be at least 1.70 dscm (60 dscf). For Method 5 (40 CFR Part 60, Appendix A-3), if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121°C (250°F), to prevent water condensation on the filter.
- II. Pursuant to Section 39.5(7)(b) of the Act, the Permittee may use the following as alternatives to the reference methods and procedures specified in Condition 4.4.2(b)(ii)(B)(I), above:
- 1) Method 5I of 40 CFR Part 60 Appendix A-3 may be used to determine the PM concentration as an alternative to the methods specified in Condition 4.3.2(b)(ii)(B)(I). Method 5I (40 CFR Part 60, Appendix A-3) may be useful for affected facilities that operate for less than 1 hour at a time such as (but not limited to) storage bins or enclosed truck or railcar loading stations.
 - 2) In some cases, velocities of exhaust gases from building vents may be too low to measure accurately with the type S pitot tube specified in EPA Method 2 of 40 CFR Part 60 Appendix A-1 [i.e., velocity head <1.3 mm H₂O (0.05 in. H₂O)] and referred to in EPA Method 5 of 40 CFR Part 60 Appendix A-3. For these conditions, the Permittee may determine the average gas flow rate produced by the power fans (e.g., from vendor-supplied fan curves) to the building vent. The Permittee may calculate the average gas velocity at the building vent measurement site using Equation 1 of 40 CFR 60, Subpart 000, as shown below, and use this average velocity in determining and maintaining isokinetic sampling rates.

$$v_e = \frac{Q_f}{A_e} \quad (\text{Eq 1})$$

Where:

V_e = average building vent velocity (feet per minute);
 Q_f = average fan flow rate (cubic feet per minute); and
 A_e = area of building vent and measurement location (square feet).

- C. Pursuant to Section 39.5(7)(d)(ii) of the Act, the testing, as described in Condition 4.4.2(b)(ii)(B), shall be performed for the baghouse controls (as listed in Condition 4.4.1) according to the following:
- I. PM emission measurements for each baghouse shall be made within 5 years of the effective date of this Condition, but no later than 6 months from the expiration date of this Permit.
- D. The Permittee shall comply with all the requirements of Section 7.1.

Recordkeeping

- E. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of each test made in accordance with Condition 4.4.2(b)(ii)(C), which demonstrate compliance with the PM standards in Condition 4.4.2(b)(i)(B).
- F. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain the following records:
- I. Hours of operation of each emission unit (hr/mo and hr/yr)
- II. The emissions of PM from each emission unit, tons/mo and tons/yr (12 month rolling average), with supporting calculations, which addresses the limits set forth in Condition 4.4.2(b)(i)(B).

c. i. Work Practice Requirements

- A. Pursuant to Section 39.5(7)(a) of the Act, at all times, including periods of startup, shutdown, and malfunction, the Permittee, shall maintain and operate the emission units including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.
- B. Pursuant to 35 IAC 212.309, the material handling and processing operations shall be operated in accordance with the provisions of the operating program as described in 35 IAC 212.309 and 212.310 (see also Condition 3.2(a)).

ii. Compliance Method (Work Practice Requirements)

Monitoring

- A. Pursuant to Sections 39.5(7)(a) and (b) of the Act, at a minimum, the Permittee shall perform monthly inspections of the emission units and their associated auxiliary equipment.

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of each inspection performed, pursuant to Condition 4.4.2(c)(ii)(A), along

with a maintenance and repair log. These records shall include, at a minimum: date and time inspections were performed, name(s) of inspection personnel, identification of equipment being inspected, findings of the inspections (e.g., any atypical accumulations of sand around an emission unit), operation and maintenance procedures, and a description of all maintenance and repair activities performed including if the activity resulted in a modification or reconstruction of the piece of equipment.

3. Non-Applicability Determinations

- a. Grind Mill 5, Grind Mill 6, Classifiers #1-4, the Center Distribution Box, Airslide D, and Airslide F are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because these emission units do not use an add-on control device to achieve compliance with an emission limitation or standard.
- b. The emission units, as listed in Condition 4.4.1, are not subject to NSPS 000, as these units were not constructed, reconstructed, or modified on or after August 31, 1983.

Note: However, to avoid difficulty in attempting to differentiate between varying compliance procedures throughout the source, the Permittee has elected to comply with the monitoring requirements contained in 40 CFR 60, Subpart 000, for these emission units.

4. Other Requirements

As of the date of issuance of this permit, there are no other requirements that need to be included in this Condition.

5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:
 - I. Requirements in Conditions 4.4.2(a)(i), 4.4.2(b)(i), and 4.4.2(c)(i).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
 - A. Date and time of the deviation.
 - B. Emission unit(s) and/or operation involved.
 - C. The duration of the event.
 - D. Probable cause of the deviation.
 - E. Corrective actions or preventative measures taken.

4.5 Gasoline Storage Tank

1. Emission Units and Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
1,000 Gallon Gasoline Storage Tank	VOM and HAP	Prior to 1979	N/A	Submerged Loading Pipe	None

2. Applicable Requirements

For the emission units in Condition 4.5.1 above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7) (a), 39.5(7) (b), and 39.5(7) (d) of the Act.

a. i. Volatile Organic Material Requirements (VOM)

- A. Pursuant to 35 IAC 215.122(b), no person shall cause or allow the loading of any organic material into any stationary tank having a storage capacity of greater than 946 l (250 gal), unless such tank is equipped with a permanent submerged loading pipe.
- B. Pursuant to 35 IAC 215.583(a)(1), no person shall cause or allow the transfer of gasoline from any delivery vessel into any stationary storage tank at a gasoline dispensing facility unless the tank is equipped with a submerged loading pipe.

ii. Compliance Method (VOM Requirements)

Monitoring

- A. Pursuant to Sections 39.5(7) (a) of the Act, at a minimum, the Permittee shall perform annual inspections of the storage tank and associated equipment. During the inspections, the Permittee shall ensure the presence of a submerged loading pipe in the tank that is in working condition.

Recordkeeping

- B. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep records of each inspection performed along with a maintenance and repair log. These records shall include, at a minimum, the following:
 - I. Date and time inspections were performed;
 - II. Name(s) of inspection personnel;
 - III. Identification of equipment being inspected;
 - IV. Findings of the inspections, including but not limited to the following:
 - 1) Noting the presence of the submerged loading pipe;
 - 2) Noting that gasoline spills were limited and the steps that were taken to ensure that the spills were limited;
 - 3) Noting that any spills were cleaned as expeditiously as practicable with the steps taken to ensure expeditious cleaning practices;

- 4) Noting the presence of covers and gasketed seals on containers and tank fill-pipes; and
- 5) The steps taken to ensure that the amount of gasoline sent to open waste collection systems was minimized.
- V. Operation and maintenance procedures; and
- VI. A description of all maintenance and repair activities performed including if the activity resulted in a modification or reconstruction of the piece of equipment.
- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain the following records:
 - I. Design information for each tank showing the presence of a permanent submerged loading pipe;
 - II. The type of liquid stored in each tank and throughput of each tank, gal/month and gal/yr.

b. i. **Hazardous Air Pollutant Requirements (HAP)**

- A. Pursuant to 40 CFR 63.11111(a) and (b), for the gasoline storage tank, the source is subject to 40 CFR 63 Subpart CCCCCC because the source contains a gasoline dispensing facility (GDF) with a monthly throughput of less than 10,000 gallons of gasoline and is located at an area source of HAPs. An affected source includes each gasoline cargo tank during the delivery of product to a GDF and also includes each storage tank. The source is specifically subject to the following:
 - I. Pursuant to 40 CFR 63.11116(a), the Permittee must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:
 - 1) Minimize gasoline spills;
 - 2) Clean up spills as expeditiously as practicable;
 - 3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;
 - 4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.
 - II. Pursuant to 40 CFR 63.11116(b), the Permittee is not required to submit notifications or reports as specified in 40 CFR 63.11125, 40 CFR 63.11126, or 40 CFR Subpart A, but the Permittee must have records available within 24 hours of a request by the IEPA to document the gasoline throughput.
 - III. Pursuant to 40 CFR 63.11116(d), portable gasoline containers that meet the requirements of 40 CFR part 59, subpart F, are considered acceptable for compliance with 40 CFR 63.11116(a)(3) (Condition 4.5.2(b)(i)(A)(II)(3)).

ii. Compliance Method (HAP Requirements)

- A. Compliance with the HAP Requirements are ensured by the Condition 4.5.2(a) (i) (A), the Monitoring established in Condition 4.5.2(a) (ii) (A), and the Recordkeeping established in Condition 4.5.2(a) (ii) (B & C).

3. Non-Applicability Determinations

- a. The gasoline storage tank is not subject to the New Source Performance Standards (NSPS) for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels), 40 CFR Part 60 Subpart Kb, because the storage tank does not have a design capacity that is equal to or greater than 75 m³ (19,800 gallons).
- b. The gasoline storage tank is not subject to the requirements of 35 IAC 215.123, petroleum liquid storage tanks, pursuant to 35 IAC 215.123(a) (2), which exempts storage tanks with a capacity less than 151.42 m³.
- c. The gasoline storage tank is not subject to the requirements of 35 IAC 215.301 because the tank does not use an organic material.
- d. The gasoline storage tank is not subject to 35 IAC 215.583(a) (2), because pursuant to 35 IAC 215.583(b) (2), the gasoline storage tank has a capacity of less than 2000 gallons and was in place and operating before January 1, 1979.
- e. The gasoline tank is not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because the gasoline storage tank uses a passive control measure, such as a seal, lid, or roof, that is not considered a control device because it acts to prevent the release of pollutants.

4. Other Requirements

As of the date of issuance of this permit, there are no other requirements that need to be included in this Condition.

5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7) (f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7) (f) (ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:
- I. Requirements in Conditions 4.5.2(a) (i) and 4.5.2(b) (i).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
- A. Date and time of the deviation.
- B. Emission unit(s) and/or operation involved.

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

- C. The duration of the event.
- D. Probable cause of the deviation.
- E. Corrective actions or preventative measures taken.

4.6 Fugitive Emissions

1. Emission Units and Operations

Emission Unit	Description	Pollutants Being Regulated	Original Construction Date	Modification/ Reconstruction Date	Air Pollution Control Devices or Measures	Monitoring Devices
Fugitive Emissions	Vehicular Traffic on Roadways, Parking Lots, and Other Open Areas					
	Material Handling (Uncontrolled)	PM	N/A	N/A	None	None
	Storage Piles and Associated Activities					
	Blasting Operations (Uncontrolled)					

2. Applicable Requirements

For the emission units in Condition 4.6.1 above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act.

a. i. Opacity Requirements

- A. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit.

Note: Fugitive emissions that may result from the equipment listed in Conditions 4.2.1, 4.3.1, and 4.4.1 shall also comply with the applicable Condition(s) listed within their respectable Sections.

ii. Compliance Method (Opacity Requirements)

Monitoring

- A. If monitoring is requested by the Illinois EPA, pursuant to Section 39.5(7)(a) and Section 39.5(7)(d) of the Act, as provided by 35 IAC 212.107, for both fugitive and non-fugitive particulate matter emissions, a determination as to the presence or absence of visible emissions from emission units shall be conducted in accordance with Method 22, 40 CFR Part 60, Appendix A, except that the length of the observing period shall be at the discretion of the observer, but not less than one minute. This test method shall be used to determine compliance with 35 IAC 212.123.
- B. Pursuant to Section 39.5(7)(a) and Section 39.5(7)(d) of the Act, upon reasonable request by the Illinois EPA, as provided by 35 IAC 212.109, measurements of opacity shall be conducted in accordance with Method 9, 40 CFR Part 60, Appendix A, except that for roadways and parking areas the number of readings required for each vehicle pass will be three taken at 5-second intervals. The first reading shall be at the point of maximum opacity and second and third readings shall be made at the same point, the observer standing at right angles to the plume at least 15 feet away from the plume and observing 4 feet above the surface of the roadway or parking area. After four vehicles have passed, the 12 readings will be averaged. This test method shall be used to determine compliance with 35 IAC 212.301.

Recordkeeping

- C. Pursuant to Section 39.5(7)(b) of the Act, for Condition 4.3.2(a)(ii)(A), the Permittee shall keep records for each opacity observation performed. These records shall include, at a minimum: date and time the observation was performed, name(s) of observing personnel, identification of what was observed, whether the findings of the observation including the presence of any visible emissions, and a description of any corrective action taken including if the corrective action took place within 4 hours of the observation.
- D. Pursuant to Section 39.5(7)(b) of the Act, for Condition 4.6.2(a)(ii)(B), the Permittee shall keep records for all opacity measurements made in accordance with Method 9. These records shall include, at a minimum: date and time the Method 9 was performed, name(s) of observing personnel, identification of which equipment, roadway, or parking lot was observed, whether or not the equipment was running properly, and the opacity readings observed.

b. i. Particulate Matter Requirements (PM)

- A. The affected operations shall comply with the standard in Condition 3.1(a)(i), which addresses visible emissions of fugitive particulate matter, as defined by 35 IAC 211.2490.
- B. Pursuant to 35 IAC 212.309, the source shall be operated under the provisions of a Fugitive PM Operating Program (as specified in Condition 3.2(a)) in order to reduce the fugitive PM emissions from the source, which includes the following: Vehicular Traffic on Roadways, Parking Lots, and Other Open Areas; Material Handling (Uncontrolled); Storage Piles and Associated Activities; and Blasting Operations (Uncontrolled).

ii. Compliance Method (PM Requirements)

- A. The source shall comply with the applicable compliance methods in Condition 3.1(a)(ii).

3. Non-Applicability Determinations

- a. Pursuant to 35 IAC 212.323, Fugitive Emissions from this source are not subject to the requirements of 35 IAC 212.321 or 212.322, Process Weight Rate, because due to the disperse nature, such rules cannot reasonably be applied.
- b. Fugitive Emissions from this source are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because there are no add-on control devices used to achieve compliance with an emission limitation or standard.

4. Other Requirements

As of the date of issuance of this permit, there are no other requirements that need to be included in this Condition.

5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:

- I. Requirements in Conditions 4.6.2(a)(i) and 4.6.2(b)(i).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
 - A. Date and time of the deviation.
 - B. Emission unit(s) and/or operation involved.
 - C. The duration of the event.
 - D. Probable cause of the deviation.
 - E. Corrective actions or preventative measures taken.

Section 5 - Additional Title I Requirements

This Section is reserved for Title I requirements not specified in Sections 3 or 4. As of the date of issuance of this permit, there are no Title I requirements that need to be separately addressed in this Section.

Section 6 - Insignificant Activities Requirements

1. Insignificant Activities Subject to Specific Regulations

Pursuant to 35 IAC 201.210 and 201.211, the following activities at the source constitute insignificant activities. Pursuant to Sections 9.1(d) and 39.5(6)(a) of the Act, the insignificant activities are subject to specific standards promulgated pursuant to Sections 111, 112, 165, or 173 of the Clean Air Act. The Permittee shall comply with the following applicable requirements:

<i>Insignificant Activity</i>	<i>Number of Units</i>	<i>Insignificant Activity Category</i>
Gas turbines and stationary reciprocating internal combustion engines < 112 kW (150 HP).	2	35 IAC 201.210(a) (15)

a. Applicable Requirements

Pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act, the Permittee shall comply with the following applicable requirements in addition to the applicable requirements in Condition 6.4:

i. National Emission Standards for Hazardous Air Pollutants (NESHAP)

- A. Pursuant to 40 CFR 63.6605(a), the Permittee shall be in compliance with the applicable operating limitations and other requirements in 40 CFR Part 63, Subpart ZZZZ, at all times, which include, but are not limited to the following, the Permittee shall meet applicable compliance and reporting requirements as specified in 40 CFR 63.6640(a & b), the applicable monitoring, collection, operation, and maintenance requirements as specified in 40 CFR 63.6625, the applicable records as specified in 40 CFR 63.6655, and the specific requirements as listed in Conditions 6.1(a)(i) (B & C), below.
- B. Pursuant to 40 CFR 63.6603, the Permittee shall comply the applicable requirements in 40 CFR Part 63, Subpart ZZZZ Table 2d. Specifically the following:
 - I. For Non-Emergency, non-black start CI stationary RICE ≤300 HP, the Permittee shall change oil and filter every 1,000 hours of operation or annually, whichever comes first; inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
- C. Pursuant to 40 CFR 63.6640, the Permittee shall fulfill the following work or management practices:
 - I. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or
 - II. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

2. Insignificant Activities in 35 IAC 201.210(a)

In addition to any insignificant activities identified in Condition 6.1, the following additional activities at the source constitute insignificant activities pursuant to 35 IAC 201.210 and 201.211:

<i>Insignificant Activity</i>	<i>Number of Units</i>	<i>Insignificant Activity Category</i>
Wet/Damp Sand Processing Equipment	22	35 IAC 201.210(a) (1) and 201.211
Wet Processing Equipment - Various wet sand handling, transfer, screening and storage equipment	25	35 IAC 201.210(a) (2) or (a) (3)
Transloading Operation - Transloading dry sand from railcar to conveyor to truck	1	35 IAC 201.210(a) (2) or (a) (3)
Power Screener - Screening of reclaimed stockpiles to remove over-sized materials prior to processing	1	35 IAC 201.210(a) (2) or (a) (3)
Storage tanks of virgin or rerefined distillate oil, hydrocarbon condensate from natural gas pipeline or storage systems, lubricating oil, or residual fuel oil. Storage tanks < 10,000 gallon with annual throughput < 100,000 gallon (not storing gasoline or any material listed as a HAP).	5	35 IAC 201.210(a) (10 & 11)

3. Insignificant Activities in 35 IAC 201.210(b)

Pursuant to 35 IAC 201.210, the source has identified insignificant activities as listed in 35 IAC 201.210(b) (1) through (28) as being present at the source. The source is not required to individually list the activities.

4. Applicable Requirements

Insignificant activities in Conditions 6.1 and 6.2 are subject to the following general regulatory limits notwithstanding status as insignificant activities. The Permittee shall comply with the following requirements, as applicable:

- a. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 IAC 212.122, except as provided in 35 IAC 212.123(b).
- b. Pursuant to 35 IAC 212.321 or 212.322 (see Conditions 7.2(a) and (b)), no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process emission unit which, either alone or in combination with the emission of particulate matter from all other similar process emission units at a source or premises, exceed the allowable emission rates specified 35 IAC 212.321 or 212.322 and 35 IAC Part 266.
- c. Pursuant to 35 IAC 214.301, no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2,000 ppm, except as provided in 35 IAC Part 214.
- d. Pursuant to 35 IAC 215.301, no person shall cause or allow the discharge of more than 8 lbs/hr of organic material into the atmosphere from any emission source, except as provided in 35 IAC 215.302, 215.303, 215.304 and the following exception: If no odor nuisance exists the limitation of 35 IAC 215 Subpart K shall apply only to photochemically reactive material.
- e. Pursuant to 35 IAC 215.122(b), no person shall cause or allow the loading of any organic material into any stationary tank having a storage capacity of greater than 250 gal, unless such tank is equipped with a permanent submerged loading pipe, submerged fill, or

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

an equivalent device approved by the IEPA according to 35 IAC Part 201 or unless such tank is a pressure tank as described in 35 IAC 215.121(a) or is fitted with a recovery system as described in 35 IAC 215.121(b) (2). Exception as provided in 35 IAC 215.122(c): If no odor nuisance exists the limitations of 35 IAC 215.122 shall only apply to the loading of volatile organic liquid with a vapor pressure of 2.5 psia or greater at 70°F.

5. Compliance Method

Pursuant to Section 39.5(7)(b) of the Act, the source shall maintain records of the following items for the insignificant activities in Conditions 6.1 and 6.2:

- a. List of all insignificant activities, including insignificant activities added as specified in Condition 6.6, the categories the insignificant activities fall under, and supporting calculations as needed for any insignificant activities listed in 35 IAC 201.210(a) (1) through (3).
- b. Potential to emit emission calculations before any air pollution control device for any insignificant activities listed in 35 IAC 201.210(a) (1) through (3).

6. Notification Requirements for Insignificant Activities

The source shall notify the IEPA accordingly to the addition of insignificant activities:

a. Notification 7 Days in Advance

- i. Pursuant to 35 IAC 201.212(b), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(a) (1) and 201.211 and is not currently identified in Conditions 6.1 or 6.2, a notification to the IEPA Permit Section 7 days in advance of the addition of the insignificant activity is required. Addresses are included in Attachment 3. The notification shall include the following pursuant to 35 IAC 201.211(b):
 - A. A description of the emission unit including the function and expected operating schedule of the unit.
 - B. A description of any air pollution control equipment or control measures associated with the emission unit.
 - C. The emissions of regulated air pollutants in lbs/hr and tons/yr.
 - D. The means by which emissions were determined or estimated.
 - E. The estimated number of such emission units at the source.
 - F. Other information upon which the applicant relies to support treatment of such emission unit as an insignificant activity.
- ii. Pursuant to 35 IAC 201.212(b), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(a) (2) through 201.210(a) (18) and is not currently identified in Conditions 6.1 or 6.2, a notification to the IEPA Permit Section 7 days in advance of the addition of the insignificant activity is required. Addresses are included in Attachment 3.
- iii. Pursuant to Sections 39.5(12)(a) (i) (b) and 39.5(12)(b) (iii) of the Act, the permit shield described in Section 39.5(7)(j) of the Act (see Condition 2.7) shall not apply to any addition of an insignificant activity noted above.

b. Notification Required at Renewal

Pursuant to 35 IAC 201.212(a) and 35 IAC 201.146(kkk), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(a) and is currently

identified in Conditions 6.1 or 6.2, a notification is not required until the renewal of this permit.

c. Notification Not Required

Pursuant to 35 IAC 201.212(c) and 35 IAC 201.146(kkk), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(b) as describe in Condition 6.3, a notification is not required.

Section 7 - Other Requirements

1. Testing

- a. Pursuant to Section 39.5(7)(a) of the Act, a written test protocol shall be submitted at least sixty (60) days prior to the actual date of testing, unless it is required otherwise in applicable state or federal statutes. The IEPA may at the discretion of the Compliance Section Manager (or designee) accept protocol less than 60 days prior to testing provided it does not interfere with the IEPA's ability to review and comment on the protocol and does not deviate from the applicable state or federal statutes. The protocol shall be submitted to the IEPA, Compliance Section and IEPA, Stack Test Specialist for its review. Addresses are included in Attachment 3. This protocol shall describe the specific procedures for testing, including as a minimum:
 - i. The name and identification of the emission unit(s) being tested.
 - ii. Purpose of the test, i.e., permit condition requirement, IEPA or USEPA requesting test.
 - iii. The person(s) who will be performing sampling and analysis and their experience with similar tests.
 - iv. The specific conditions under which testing will be performed, including a discussion of why these conditions will be representative of maximum emissions and the means by which the operating parameters for the emission unit and any control equipment will be determined.
 - v. The specific determinations of emissions and operation which are intended to be made, including sampling and monitoring locations.
 - vi. The test method(s) that will be used, with the specific analysis method, if the method can be used with different analysis methods. Include if emission tests averaging of 35 IAC 283 will be used.
 - vii. Any minor changes in standard methodology proposed to accommodate the specific circumstances of testing, with detailed justification. This shall be included as a waiver of the test procedures. If a waiver has already been obtained by the IEPA or USEPA, then the waiver shall be submitted.
 - viii. Any proposed use of an alternative test method, with detailed justification. This shall be included as a waiver of the test procedures. If a waiver has already been obtained by the IEPA or USEPA, then the waiver shall be submitted.
 - ix. Sampling of materials, QA/QC procedures, inspections, etc.
- b. The IEPA, Compliance Section shall be notified prior to these tests to enable the IEPA to observe these tests pursuant to Section 39.7(a) of the Act as follows:
 - i. Notification of the expected date of testing shall be submitted in writing a minimum of thirty (30) days prior to the expected test date, unless it is required otherwise in applicable state or federal statutes.
 - ii. Notification of the actual date and expected time of testing shall be submitted in writing a minimum of five (5) working days prior to the actual date of the test. The IEPA may at its discretion of the Compliance Section Manager (or designee) accept notifications with shorter advance notice provided such notifications will not interfere with the IEPA's ability to observe testing.
- c. Copies of the Final Report(s) for these tests shall be submitted to the IEPA, Compliance Section within fourteen (14) days after the test results are compiled and finalized but

no later than ninety (90) days after completion of the test, unless it is required otherwise in applicable state or federal statutes or the IEPA may at the discretion of the Compliance Section Manager (or designee) an alternative date is agreed upon in advance pursuant to Section 39.7(a) of the Act. The Final Report shall include as a minimum:

- i. General information including emission unit(s) tested.
 - ii. A summary of results.
 - iii. Discussion of conditions during each test run (malfunction/breakdown, startup/shutdown, abnormal processing, etc.).
 - iv. Description of test method(s), including description of sampling points, sampling train, analysis equipment, and test schedule.
 - v. Detailed description of test conditions, including:
 - A. Process information, i.e., mode(s) of operation, process rate, e.g. fuel or raw material consumption.
 - B. Control equipment information, i.e., equipment condition and operating parameters during testing.
 - C. A discussion of any preparatory actions taken, i.e., inspections, maintenance and repair.
 - vi. Data and calculations, including copies of all raw data sheets and records of laboratory analyses, sample calculations, and data on equipment calibration.
 - vii. An explanation of any discrepancies among individual tests or anomalous data.
 - viii. Results of the sampling of materials, QA/QC procedures, inspections, etc.
 - ix. Discussion of whether protocol was followed and description of any changes to the protocol if any occurred.
 - x. Demonstration of compliance showing whether test results are in compliance with applicable state or federal statutes.
- d. Copies of all test reports and other test related documentation shall be kept on site as required by Condition 2.5(b) pursuant to Section 39.5(7)(e)(ii) of the Act.

2. PM Process Weight Rate Requirements

a. New Process Emission Units - 35 IAC 212.321

New Process Emission Units For Which Construction or Modification Commenced On or After April 14, 1972. [35 IAC 212.321]

- i. No person shall cause or allow the emission of PM into the atmosphere in any one hour period from any new process emission unit which, either alone or in combination with the emission of PM from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.321(c). See Condition 7.2(a)(iii) below. [35 IAC 212.321(a)]
- ii. Interpolated and extrapolated values of the data in 35 IAC 212.321(c) shall be determined by using the equation: [35 IAC 212.321(b)]

$$E = A(P)^B$$

Where:

P = Process weight rate (T/hr)
E = Allowable emission rate (lbs/hr)

A. Process weight rates of less than 450 T/hr:

A = 2.54
B = 0.53

B. Process weight rates greater than or equal to 450 T/hr:

A = 24.8
B = 0.16

iii. Limits for New Process Emission Units [35 IAC 212.321(c)]:

<u>P</u> <u>(T/hr)</u>	<u>E</u> <u>(lbs/hr)</u>	<u>P</u> <u>(T/hr)</u>	<u>E</u> <u>(lbs/hr)</u>
0.05	0.55	25.00	14.00
0.10	0.77	30.00	15.60
0.20	1.10	35.00	17.00
0.30	1.35	40.00	18.20
0.40	1.58	45.00	19.20
0.50	1.75	50.00	20.50
0.75	2.40	100.00	29.50
1.00	2.60	150.00	37.00
2.00	3.70	200.00	43.00
3.00	4.60	250.00	48.50
4.00	5.35	300.00	53.00
5.00	6.00	350.00	58.00
10.00	8.70	400.00	62.00
15.00	10.80	450.00	66.00
20.00	12.50	500.00	67.00

b. Existing Process Emission Units - 35 IAC 212.322

Existing Process Emission Units For Which Construction or Modification Commenced Prior to April 14, 1972. [35 IAC 212.322]

- i. No person shall cause or allow the emission of PM into the atmosphere in any one hour period from any process emission unit for which construction or modification commenced prior to April 14, 1972, which, either alone or in combination with the emission of PM from all other similar process emission units at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.322(c)). See Condition 7.2(b)(iii) below. [35 IAC 212.322(a)]
- ii. Interpolated and extrapolated values of the data in 35 IAC 212.322(c) shall be determined by using the equation: [35 IAC 212.322(b)]

$$E = C + A(P)^B$$

Where:

P = Process weight rate (T/hr)
E = Allowable emission rate (lbs/hr)

A. Process weight rates of less than 30 T/hr:

A = 4.10
B = 0.67
C = 0

B. Process weight rates greater than or equal to 30 T/hr:

A = 55.0
B = 0.11
C = -40.0

iii. Limits for Existing Process Emission Units: [35 IAC 212.322(c)]

<u>P</u> <u>(T/hr)</u>	<u>E</u> <u>(lbs/hr)</u>	<u>P</u> <u>(T/hr)</u>	<u>E</u> <u>(lbs/hr)</u>
0.05	0.55	25.00	35.40
0.10	0.87	30.00	40.00
0.2	1.40	35.00	41.30
0.30	1.83	40.00	42.50
0.40	2.22	45.00	43.60
0.50	2.58	50.00	44.60
0.75	3.38	100.00	51.20
1.00	4.10	150.00	55.40
2.00	6.52	200.00	58.60
3.00	8.56	250.00	61.00
4.00	10.40	300.00	63.10
5.00	12.00	350.00	64.90
10.00	19.20	400.00	66.20
15.00	25.20	450.00	67.70
20.00	30.50	500.00	69.00

3. 40 CFR 60 Subpart A Requirements (NSPS)

a. 40 CFR 60 Subpart A and Subpart OOO - NSPS for Nonmetallic Mineral Processing Plants

Pursuant to 40 CFR 60 Subpart A and Subpart OOO, the Permittee shall comply with the following applicable General Provisions as indicated:

<i>General Provision Citation</i>	<i>General Provision Applicable?</i>	<i>Subject of Citation</i>	<i>Explanation (if required)</i>
40 CFR 60.1	Yes	General Applicability of the General Provisions	
40 CFR 60.2	Yes	Definitions	
40 CFR 60.3	Yes	Units and Abbreviations	
40 CFR 60.4	Yes	Address	Except in 40 CFR 60.4(a) and (b) submittals need not be submitted to both the EPA Region and delegated State authority (40 CFR 60.676(k)).
40 CFR 60.5	Yes	Determination of Construction or Modification	
40 CFR 60.6	Yes	Review of Plans	
40 CFR 60.7	Yes	Notification and Recordkeeping	Except in (a)(1) notification of the date construction or reconstruction commenced (40 CFR 60.676(h)). Also, except in (a)(6) performance tests involving only Method 9 (40 CFR Part 60, Appendix A-4) require a 7-day advance notification instead of 30 days (40 CFR 60.675(g)).
40 CFR 60.8	Yes	Performance Tests	Except in (d) performance tests involving only Method 9 (40 CFR Part 60, Appendix A-4) require a 7-day advance notification instead of 30 days (40 CFR 60.675(g)).
40 CFR 60.9	Yes	Availability of Information	
40 CFR 60.10	Yes	State Authority	
40 CFR 60.11	Yes	Compliance with Standards and Maintenance Requirements	Except in (b) under certain conditions (40 CFR 60.675(c)), Method 9 (40 CFR Part 60, Appendix A-4) observation is reduced from 3 hours to 30 minutes for fugitive emissions.
40 CFR 60.12	Yes	Circumvention	
40 CFR 60.13	Yes	Monitoring Requirements	
40 CFR 60.14	Yes	Modification	
40 CFR 60.15	Yes	Reconstruction	
40 CFR 60.16	Yes	Priority List	
40 CFR 60.17	Yes	Incorporations by Reference	

Section 7 - Other Requirements
7.3 - 40 CFR 60 Subpart A
Requirements (NSPS)

<i>General Provision Citation</i>	<i>General Provision Applicable?</i>	<i>Subject of Citation</i>	<i>Explanation (if required)</i>
40 CFR 60.18	No	General Control Device Requirements and Work Practice Requirements	Flares will not be used to comply with the emission limits.
40 CFR 60.19	Yes	General Notification and Reporting Requirements	

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

4. 40 CFR 63 Subpart A Requirements (NESHAP)

a. 40 CFR 63 Subpart A and CCCCCC - NESHAP for Source Category: Gasoline Dispensing Facilities

Pursuant to 40 CFR 63 Subpart A and Subpart CCCCCC, the Permittee shall comply with the following applicable General Provisions as indicated:

General Provision Citation	General Provision Applicable?	Subject of Citation	Explanation (if required)
§ 63.1	Yes, specific requirements given in § 63.11111.	Applicability	Initial applicability determination; applicability after standard established; permit requirements; extensions, notifications
§ 63.1(c) (2)	Yes, § 63.11111(f) of subpart CCCCCC exempts identified area sources from the obligation to obtain title V operating permits.	Title V Permit	Requirements for obtaining a Title V permit from the applicable permitting authority
§ 63.2	Yes, additional definitions in § 63.11132.	Definitions	Definitions for Part 63 standards
§ 63.3	Yes	Units and Abbreviations	Units and abbreviations for Part 63 standards
§ 63.4	Yes	Prohibited Activities and Circumvention	Prohibited activities; Circumvention, severability
§ 63.5	Yes, except that these notifications are not required for facilities subject to § 63.11116	Construction/Reconstruction	Applicability; applications; approvals
§ 63.6(a)	Yes	Compliance with Standards/Operation & Maintenance-Applicability	General Provisions apply unless compliance extension; General Provisions apply to area sources that become major
§ 63.6(b) (1) - (4)	Yes	Compliance Dates for New and Reconstructed Sources	Standards apply at effective date; 3 years after effective date; upon startup; 10 years after construction or reconstruction commences for CAA section 112(f)
§ 63.6(b) (5)	Yes	Notification	Must notify if commenced construction or reconstruction after proposal
§ 63.6(b) (6)		[Reserved]	
§ 63.6(b) (7)	No	Compliance Dates for New and Reconstructed Area Sources That Become Major	Area sources that become major must comply with major source standards immediately upon becoming major, regardless of whether required to comply when they were an area source
§ 63.6(c) (1) - (2)	No, § 63.11113 specifies the compliance dates.	Compliance Dates for Existing Sources	Comply according to date in this subpart, which must be no later than 3 years after effective date; for CAA section 112(f) standards, comply within 90 days of effective date unless compliance extension
§ 63.6(c) (3) - (4)		[Reserved]	

Section 7 - Other Requirements
7.4 - 40 CFR 63 Subpart A
Requirements (NESHAP)

General Provision Citation	General Provision Applicable?	Subject of Citation	Explanation (if required)
§ 63.6(c) (5)	No	Compliance Dates for Existing Area Sources That Become Major	Area sources that become major must comply with major source standards by date indicated in this subpart or by equivalent time period (e.g., 3 years)
§ 63.6(d)		[Reserved]	
63.6(e) (1) (i)	No. See § 63.11115 for general duty requirement.	General duty to minimize emissions	Operate to minimize emissions at all times; information Administrator will use to determine if operation and maintenance requirements were met.
63.6(e) (1) (ii)	No	Requirement to correct malfunctions ASAP	Owner or operator must correct malfunctions as soon as possible.
§ 63.6(e) (2)		[Reserved]	
§ 63.6(e) (3)	No	Startup, Shutdown, and Malfunction (SSM) Plan	Requirement for SSM plan; content of SSM plan; actions during SSM
§ 63.6(f) (1)	No	Compliance Except During SSM	You must comply with emission standards at all times except during SSM
§ 63.6(f) (2) - (3)	Yes	Methods for Determining Compliance	Compliance based on performance test, operation and maintenance plans, records, inspection
§ 63.6(g) (1) - (3)	Yes	Alternative Standard	Procedures for getting an alternative standard
§ 63.6(h) (1)	No	Compliance with Opacity/Visible Emission (VE) Standards	You must comply with opacity/VE standards at all times except during SSM
§ 63.6(h) (2) (i)	No	Determining Compliance with Opacity/VE Standards	If standard does not State test method, use EPA Method 9 for opacity in Appendix A of Part 60 of this chapter and EPA Method 22 for VE in Appendix A of Part 60 of this chapter
§ 63.6(h) (2) (ii)		[Reserved]	
§ 63.6(h) (2) (iii)	No	Using Previous Tests To Demonstrate Compliance With Opacity/VE Standards	Criteria for when previous opacity/VE testing can be used to show compliance with this subpart
§ 63.6(h) (3)		[Reserved]	
§ 63.6(h) (4)	No	Notification of Opacity/VE Observation Date	Must notify Administrator of anticipated date of observation
§ 63.6(h) (5) (i), (iii) - (v)	No	Conducting Opacity/VE Observations	Dates and schedule for conducting opacity/VE observations
§ 63.6(h) (5) (ii)	No	Opacity Test Duration and Averaging Times	Must have at least 3 hours of observation with 30 6-minute averages
§ 63.6(h) (6)	No	Records of Conditions During Opacity/VE Observations	Must keep records available and allow Administrator to inspect

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

Section 7 - Other Requirements
7.4 - 40 CFR 63 Subpart A
Requirements (NESHAP)

General Provision Citation	General Provision Applicable?	Subject of Citation	Explanation (if required)
§ 63.6(h) (7) (i)	No	Report Continuous Opacity Monitoring System (COMS) Monitoring Data From Performance Test	Must submit COMS data with other performance test data
§ 63.6(h) (7) (ii)	No	Using COMS Instead of EPA Method 9	Can submit COMS data instead of EPA Method 9 results even if rule requires EPA Method 9 in Appendix A of Part 60 of this chapter, but must notify Administrator before performance test
§ 63.6(h) (7) (iii)	No	Averaging Time for COMS During Performance Test	To determine compliance, must reduce COMS data to 6-minute averages
§ 63.6(h) (7) (iv)	No	COMS Requirements	Owner/operator must demonstrate that COMS performance evaluations are conducted according to § 63.8(e); COMS are properly maintained and operated according to § 63.8(c) and data quality as § 63.8(d)
§ 63.6(h) (7) (v)	No	Determining Compliance with Opacity/VE Standards	COMS is probable but not conclusive evidence of compliance with opacity standard, even if EPA Method 9 observation shows otherwise. Requirements for COMS to be probable evidence-proper maintenance, meeting Performance Specification 1 in Appendix B of Part 60 of this chapter, and data have not been altered
§ 63.6(h) (8)	No	Determining Compliance with Opacity/VE Standards	Administrator will use all COMS, EPA Method 9 (in Appendix A of Part 60 of this chapter), and EPA Method 22 (in Appendix A of Part 60 of this chapter) results, as well as information about operation and maintenance to determine compliance
§ 63.6(h) (9)	No	Adjusted Opacity Standard	Procedures for Administrator to adjust an opacity standard
§ 63.6(i) (1) - (14)	Yes	Compliance Extension	Procedures and criteria for Administrator to grant compliance extension
§ 63.6(j)	Yes	Presidential Compliance Exemption	President may exempt any source from requirement to comply with this subpart
§ 63.7(a) (2)	Yes	Performance Test Dates	Dates for conducting initial performance testing; must conduct 180 days after compliance date
§ 63.7(a) (3)	Yes	CAA Section 114 Authority	Administrator may require a performance test under CAA section 114 at any time
§ 63.7(b) (1)	Yes	Notification of Performance Test	Must notify Administrator 60 days before the test
§ 63.7(b) (2)	Yes	Notification of Re-scheduling	If have to reschedule performance test, must notify Administrator of rescheduled date as soon as practicable and without delay

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

Section 7 - Other Requirements
7.4 - 40 CFR 63 Subpart A
Requirements (NESHAP)

General Provision Citation	General Provision Applicable?	Subject of Citation	Explanation (if required)
§ 63.7(c)	Yes	Quality Assurance (QA)/Test Plan	Requirement to submit site-specific test plan 60 days before the test or on date Administrator agrees with; test plan approval procedures; performance audit requirements; internal and external QA procedures for testing
§ 63.7(d)	Yes	Testing Facilities	Requirements for testing facilities
63.7(e) (1)	No, § 63.11120(c) specifies conditions for conducting performance tests.	Conditions for Conducting Performance Tests	Performance test must be conducted under representative conditions
§ 63.7(e) (2)	Yes	Conditions for Conducting Performance Tests	Must conduct according to this subpart and EPA test methods unless Administrator approves alternative
§ 63.7(e) (3)	Yes	Test Run Duration	Must have three test runs of at least 1 hour each; compliance is based on arithmetic mean of three runs; conditions when data from an additional test run can be used
§ 63.7(f)	Yes	Alternative Test Method	Procedures by which Administrator can grant approval to use an intermediate or major change, or alternative to a test method
§ 63.7(g)	Yes	Performance Test Data Analysis	Must include raw data in performance test report; must submit performance test data 60 days after end of test with the Notification of Compliance Status; keep data for 5 years
§ 63.7(h)	Yes	Waiver of Tests	Procedures for Administrator to waive performance test
§ 63.8(a) (1)	Yes	Applicability of Monitoring Requirements	Subject to all monitoring requirements in standard
§ 63.8(a) (2)	Yes	Performance Specifications	Performance Specifications in Appendix B of 40 CFR part 60 apply
§ 63.8(a) (3)		[Reserved]	
§ 63.8(a) (4)	Yes	Monitoring of Flares	Monitoring requirements for flares in § 63.11 apply
§ 63.8(b) (1)	Yes	Monitoring	Must conduct monitoring according to standard unless Administrator approves alternative
§ 63.8(b) (2)-(3)	No	Multiple Effluents and Multiple Monitoring Systems	Specific requirements for installing monitoring systems; must install on each affected source or after combined with another affected source before it is released to the atmosphere provided the monitoring is sufficient to demonstrate compliance with the standard; if more than one monitoring system on an emission point, must report all monitoring system results, unless one monitoring system is a backup

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

Section 7 - Other Requirements
7.4 - 40 CFR 63 Subpart A
Requirements (NESHAP)

General Provision Citation	General Provision Applicable?	Subject of Citation	Explanation (if required)
§ 63.8(c) (1)	No	Monitoring System Operation and Maintenance	Maintain monitoring system in a manner consistent with good air pollution control practices
§ 63.8(c) (1) (i) - (iii)	No	Operation and Maintenance of Continuous Monitoring Systems (CMS)	Must maintain and operate each CMS as specified in § 63.6(e) (1); must keep parts for routine repairs readily available; must develop a written SSM plan for CMS, as specified in § 63.6(e) (3)
§ 63.8(c) (2) - (8)	No	CMS Requirements	Must install to get representative emission or parameter measurements; must verify operational status before or at performance test
§ 63.8(d)	No	CMS Quality Control	Requirements for CMS quality control, including calibration, etc.; must keep quality control plan on record for 5 years; keep old versions for 5 years after revisions
§ 63.8(e)	No	CMS Performance Evaluation	Notification, performance evaluation test plan, reports
§ 63.8(f) (1) - (5)	No	Alternative Monitoring Method	Procedures for Administrator to approve alternative monitoring
§ 63.8(f) (6)	No	Alternative to Relative Accuracy Test	Procedures for Administrator to approve alternative relative accuracy tests for continuous emissions monitoring system (CEMS)
§ 63.8(g)	No	Data Reduction	COMS 6-minute averages calculated over at least 36 evenly spaced data points; CEMS 1 hour averages computed over at least 4 equally spaced data points; data that cannot be used in average
§ 63.9(a)	Yes	Notification Requirements	Applicability and State delegation
§ 63.9(b) (1) - (2), (4) - (5)	Yes	Initial Notifications	Submit notification within 120 days after effective date; notification of intent to construct/reconstruct, notification of commencement of construction/reconstruction, notification of startup; contents of each
§ 63.9(c)	Yes	Request for Compliance Extension	Can request if cannot comply by date or if installed best available control technology or lowest achievable emission rate
§ 63.9(d)	Yes	Notification of Special Compliance Requirements for New Sources	For sources that commence construction between proposal and promulgation and want to comply 3 years after effective date
§ 63.9(e)	Yes	Notification of Performance Test	Notify Administrator 60 days prior
§ 63.9(f)	No	Notification of VE/Opacity Test	Notify Administrator 30 days prior

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

Section 7 - Other Requirements
7.4 - 40 CFR 63 Subpart A
Requirements (NESHAP)

General Provision Citation	General Provision Applicable?	Subject of Citation	Explanation (if required)
§ 63.9(g)	Yes, however, there are no opacity standards.	Additional Notifications when Using CMS	Notification of performance evaluation; notification about use of COMS data; notification that exceeded criterion for relative accuracy alternative
§ 63.9(h) (1)-(6)	Yes, however, there are no opacity standards.	Notification of Compliance Status	Contents due 60 days after end of performance test or other compliance demonstration, except for opacity/VE, which are due 30 days after; when to submit to Federal vs. State authority
§ 63.9(i)	Yes	Adjustment of Submittal Deadlines	Procedures for Administrator to approve change when notifications must be submitted
§ 63.9(j)	Yes	Change in Previous Information	Must submit within 15 days after the change
§ 63.10(a)	Yes	Recordkeeping/Reporting	Applies to all, unless compliance extension; when to submit to Federal vs. State authority; procedures for owners of more than one source
§ 63.10(b) (1)	Yes	Recordkeeping/Reporting	General requirements; keep all records readily available; keep for 5 years
§ 63.10(b) (2) (i)	No	Records related to SSM	Recordkeeping of occurrence and duration of startups and shutdowns
§ 63.10(b) (2) (ii)	No. See § 63.11125(d) for recordkeeping of (1) occurrence and duration and (2) actions taken during malfunction.	Records related to SSM	Recordkeeping of malfunctions
§ 63.10(b) (2) (iii)	Yes	Maintenance records	Recordkeeping of maintenance on air pollution control and monitoring equipment
§ 63.10(b) (2) (iv)	No	Records Related to SSM	Actions taken to minimize emissions during SSM
§ 63.10(b) (2) (v)	No	Records Related to SSM	Actions taken to minimize emissions during SSM
§ 63.10(b) (2) (vi)-(xi)	No	CMS Records	Malfunctions, inoperative, out-of-control periods
§ 63.10(b) (2) (xii)	Yes	Records	Records when under waiver
§ 63.10(b) (2) (xiii)	Yes	Records	Records when using alternative to relative accuracy test
§ 63.10(b) (2) (xiv)	Yes	Records	All documentation supporting Initial Notification and Notification of Compliance Status
§ 63.10(b) (3)	Yes	Records	Applicability determinations
§ 63.10(c)	No	Records	Additional records for CMS
§ 63.10(d) (1)	Yes	General Reporting Requirements	Requirement to report

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

Section 7 - Other Requirements
7.4 - 40 CFR 63 Subpart A
Requirements (NESHA)

General Provision Citation	General Provision Applicable?	Subject of Citation	Explanation (if required)
§ 63.10(d) (2)	Yes	Report of Performance Test Results	When to submit to Federal or State authority
§ 63.10(d) (3)	No	Reporting Opacity or VE Observations	What to report and when
§ 63.10(d) (4)	Yes	Progress Reports	Must submit progress reports on schedule if under compliance extension
§ 63.10(d) (5)	No. See § 63.11126(b) for malfunction reporting requirements.	SSM Reports	Contents and submission
§ 63.10(e) (1) - (2)	No	Additional CMS Reports	Must report results for each CEMS on a unit; written copy of CMS performance evaluation; two-three copies of COMS performance evaluation
§ 63.10(e) (3) (i) - (iii)	No	Reports	Schedule for reporting excess emissions
§ 63.10(e) (3) (iv) - (v)	No	Excess Emissions Reports	Requirement to revert to quarterly submission if there is an excess emissions and parameter monitor exceedances (now defined as deviations); provision to request semiannual reporting after compliance for 1 year; submit report by 30th day following end of quarter or calendar half; if there has not been an exceedance or excess emissions (now defined as deviations), report contents in a statement that there have been no deviations; must submit report containing all of the information in §§ 63.8(c) (7)-(8) and 63.10(c) (5)-(13)
§ 63.10(e) (3) (iv) - (v)	No, § 63.11130(K) specifies excess emission events for this subpart.	Excess Emissions Reports	Requirement to revert to quarterly submission if there is an excess emissions and parameter monitor exceedances (now defined as deviations); provision to request semiannual reporting after compliance for 1 year; submit report by 30th day following end of quarter or calendar half; if there has not been an exceedance or excess emissions (now defined as deviations), report contents in a statement that there have been no deviations; must submit report containing all of the information in §§ 63.8(c) (7)-(8) and 63.10(c) (5)-(13)
§ 63.10(e) (3) (vi) - (viii)	No	Excess Emissions Report and Summary Report	Requirements for reporting excess emissions for CMS; requires all of the information in §§ 63.10(c) (5)-(13) and 63.8(c) (7)-(8)
§ 63.10(e) (4)	No	Reporting COMS Data	Must submit COMS data with performance test data
§ 63.10(f)	Yes	Waiver for Recordkeeping/Reporting	Procedures for Administrator to waive

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

Section 7 - Other Requirements
7.4 - 40 CFR 63 Subpart A
Requirements (NESHAP)

General Provision Citation	General Provision Applicable?	Subject of Citation	Explanation (if required)
§ 63.11(b)	No	Flares	Requirements for flares
§ 63.12	Yes	Delegation	State authority to enforce standards
§ 63.13	Yes	Addresses	Addresses where reports, notifications, and requests are sent
§ 63.14	Yes	Incorporations by Reference	Test methods incorporated by reference
§ 63.15	Yes	Availability of Information	Public and confidential information

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

5. Compliance Assurance Monitoring (CAM) Requirements

a. CAM Provisions

i. Proper Maintenance

Pursuant to 40 CFR 64.7(b), at all times, the source shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

ii. Continued Operation

Pursuant to 40 CFR 64.7(c), except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the source shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit (PSEU) is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of 40 CFR Part 64, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The source shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

iii. Response to Excursions or Exceedances

A. Pursuant to 40 CFR 64.7(d) (1), upon detecting an excursion or exceedance, the source shall restore operation of the PSEU (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

B. Pursuant to 40 CFR 64.7(d) (2), determination of whether the source has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device.

b. Monitoring - Monitoring

Pursuant to 40 CFR 64.7(a), the source shall comply with the monitoring requirements of the CAM Plans as described in 7.5(e) below, pursuant to 40 CFR Part 64 as submitted in the source's CAM plan application.

c. **Monitoring - Recordkeeping**

Pursuant to 40 CFR 64.9(b) (1), the source shall maintain records of the monitoring data, monitor performance data, corrective actions taken, monitoring equipment maintenance, and other supporting information related to the monitoring requirements established for CAM.

d. **Monitoring - Reporting**

Pursuant to Sections 39.5(7) (b) and (f) of the Act, the source shall submit the following reporting requirements:

i. **Semiannual Reporting**

As part of the required Semiannual Monitoring Reports, the source shall submit a CAM report including the following at a minimum:

- A. Summary information on the number, duration, and cause of excursions or exceedances, and the corrective actions taken pursuant to 40 CFR 64.6(c) (3) and 64.9(a) (2) (i).
- B. Summary information on the number, duration, and cause for monitoring equipment downtime incidents, other than downtime associated with calibration checks pursuant to 40 CFR 64.6(c) (3) and 64.9(a) (2) (ii).

e. **CAM Plans**

The following tables contain the CAM Plans in this CAAPP permit:

Table	Emission Unit Section(s)	PSEU Designation	Pollutant
7.5.1 (a-c)	4.1	Fluid Bed Dryers #1-4	PM
7.5.2	4.2	Process Equipment/Units controlled by Baghouse L	PM
7.5.3	4.2	Process Equipment/Units controlled by Baghouse K	PM
7.5.4	4.3 & 4.4	Process Equipment/Units controlled by Baghouses A through J	PM

Table 7.5.1(a) - CAM Plan

Emission Unit Section:	4.1	
PSEU Designation:	Fluid Bed Dryers #1 & #2	
Pollutant:	PM	
Indicators:	#1) Differential Pressure Drop	#2) Scrubber Liquid Flow Rate
General Criteria		
The Monitoring Approach Used to Measure the Indicators:	Differential Pressure	Scrubber liquid flow rate
The Indicator Range Which Provides a Reasonable Assurance of Compliance:	2.2 to 5.0 (in. wc)	95 to 143 GPM
Quality Improvement Plan (QIP) Threshold Levels:	Greater than 2% of operating time	Greater than 2% operating time
Performance Criteria		
The Specifications for Obtaining Representative Data:	Equipment: Differential pressure gauge Monitoring Location: Across inlet and outlet ducts	Equipment: Flow meter Monitoring Location: Measure at scrubber liquid inlet
Verification Procedures to Confirm the Operational Status of the Monitoring:	Manufacture's specifications for installation and calibration	Manufacture's specifications for installation and calibration
Quality Assurance and Quality Control (QA/QC) Practices that Ensure the Validity of the Data:	Calibrate, maintain, and operate instruments using procedures that take into account manufacture's recommendations	Calibrate, maintain, and operate instruments using procedures that take into account manufacture's recommendations
The Monitoring Frequency:	Once per operating day	Once per operating day
The Data Collection Procedures That Will Be Used:	Electronic data log or manual operators log	Operators log data manually
The Data Averaging Period For Determining Whether an Excursion or Exceedance Has Occurred:	Single two hour average per operating day	Single two hour average per operating day

Table 7.5.1(b) - CAM Plan

Emission Unit Section:	4.1	
PSEU Designation:	Fluid Bed Dryer #3	
Pollutant:	PM	
Indicators:	#1) Differential Pressure Drop	#2) Scrubber Liquid Flow Rate
General Criteria		
The Monitoring Approach Used to Measure the Indicators:	Differential Pressure	Scrubber liquid flow rate
The Indicator Range Which Provides a Reasonable Assurance of Compliance:	4.0 to 12.0 (in. wc)	125 to 250 GPM
Quality Improvement Plan (QIP) Threshold Levels:	Greater than 2% of operating time	Greater than 2% operating time
Performance Criteria		
The Specifications for Obtaining Representative Data:	Equipment: Differential pressure gauge Monitoring Location: Across inlet and outlet ducts	Equipment: Flow meter Monitoring Location: Measure at scrubber liquid inlet
Verification Procedures to Confirm the Operational Status of the Monitoring:	Manufacture's specifications for installation and calibration	Manufacture's specifications for installation and calibration
Quality Assurance and Quality Control (QA/QC) Practices that Ensure the Validity of the Data:	Calibrate, maintain, and operate instruments using procedures that take into account manufacture's recommendations	Calibrate, maintain, and operate instruments using procedures that take into account manufacture's recommendations
The Monitoring Frequency:	Once per operating day	Once per operating day
The Data Collection Procedures That Will Be Used:	Electronic data log or manual operators log	Operators log data manually
The Data Averaging Period For Determining Whether an Excursion or Exceedance Has Occurred:	Single two hour average per operating day	Single two hour average per operating day

Table 7.5.1(c) - CAM Plan

Emission Unit Section:	4.1	
PSEU Designation:	Fluid Bed Dryer #4	
Pollutant:	PM	
Indicators:	#1) Differential Pressure Drop	#2) Scrubber Liquid Flow Rate
General Criteria		
The Monitoring Approach Used to Measure the Indicators:	Differential Pressure	Scrubber liquid flow rate
The Indicator Range Which Provides a Reasonable Assurance of Compliance:	2.8 to 6.0 (in. wc)	150 to 227 GPM
Quality Improvement Plan (QIP) Threshold Levels:	Greater than 2% of operating time	Greater than 2% operating time
Performance Criteria		
The Specifications for Obtaining Representative Data:	Equipment: Differential pressure gauge Monitoring Location: Across inlet and outlet ducts	Equipment: Flow meter Monitoring Location: Measure at scrubber liquid inlet
Verification Procedures to Confirm the Operational Status of the Monitoring:	Manufacture's specifications for installation and calibration	Manufacture's specifications for installation and calibration
Quality Assurance and Quality Control (QA/QC) Practices that Ensure the Validity of the Data:	Calibrate, maintain, and operate instruments using procedures that take into account manufacture's recommendations	Calibrate, maintain, and operate instruments using procedures that take into account manufacture's recommendations
The Monitoring Frequency:	Once per operating day	Once per operating day
The Data Collection Procedures That Will Be Used:	Electronic data log or manual operators log	Operators log data manually
The Data Averaging Period For Determining Whether an Excursion or Exceedance Has Occurred:	Single two hour average per operating day	Single two hour average per operating day

Table 7.5.2 - CAM Plan

Emission Unit Section:	4.2
PSEU Designation:	Process Equipment/Units controlled by Baghouse L
Pollutant:	PM
Indicators:	#1) Differential Pressure Drop
General Criteria	
The Monitoring Approach Used to Measure the Indicators:	Differential Pressure
The Indicator Range Which Provides a Reasonable Assurance of Compliance:	2.5 to 8.0 (in. wc)
Quality Improvement Plan (QIP) Threshold Levels:	Greater than 2% of operating time
Performance Criteria	
The Specifications for Obtaining Representative Data:	Equipment: Differential pressure gauge Monitoring Location: Across inlet and outlet ducts
Verification Procedures to Confirm the Operational Status of the Monitoring:	Manufacture's specifications for installation and calibration
Quality Assurance and Quality Control (QA/QC) Practices that Ensure the Validity of the Data:	Calibrate, maintain, and operate instruments using procedures that take into account manufacture's recommendations
The Monitoring Frequency:	Once per operating day
The Data Collection Procedures That Will Be Used:	Electronic data log
The Data Averaging Period For Determining Whether an Excursion or Exceedance Has Occurred:	Single Reading once per operating day

Table 7.5.3 - CAM Plan

Emission Unit Section:	4.2
PSEU Designation:	Process Equipment/Units controlled by Baghouse K
Pollutant:	PM
Indicators:	#1) Differential Pressure Drop
General Criteria	
The Monitoring Approach Used to Measure the Indicators:	Differential Pressure
The Indicator Range Which Provides a Reasonable Assurance of Compliance:	2.5 to 8.0 (in. wc)
Quality Improvement Plan (QIP) Threshold Levels:	Greater than 2% of operating time
Performance Criteria	
The Specifications for Obtaining Representative Data:	Equipment: Differential pressure gauge Monitoring Location: Across inlet and outlet ducts
Verification Procedures to Confirm the Operational Status of the Monitoring:	Manufacture's specifications for installation and calibration
Quality Assurance and Quality Control (QA/QC) Practices that Ensure the Validity of the Data:	Calibrate, maintain, and operate instruments using procedures that take into account manufacture's recommendations
The Monitoring Frequency:	Once per operating day
The Data Collection Procedures That Will Be Used:	Electronic data log
The Data Averaging Period For Determining Whether an Excursion or Exceedance Has Occurred:	Single Reading once per operating day

Table 7.5.4 - CAM Plan

Emission Unit Section:	4.3 & 4.4
PSEU Designation:	Process Equipment/Units controlled by Baghouses A through J
Pollutant:	PM
Indicators:	#1) Differential Pressure Drop
General Criteria	
The Monitoring Approach Used to Measure the Indicators:	Differential Pressure
The Indicator Range Which Provides a Reasonable Assurance of Compliance:	1.0 to 5.0 (in. wc)
Quality Improvement Plan (QIP) Threshold Levels:	Greater than 2% of operating time
Performance Criteria	
The Specifications for Obtaining Representative Data:	Equipment: Differential pressure gauge Monitoring Location: Across inlet and outlet ducts
Verification Procedures to Confirm the Operational Status of the Monitoring:	Manufacture's specifications for installation and calibration
Quality Assurance and Quality Control (QA/QC) Practices that Ensure the Validity of the Data:	Calibrate, maintain, and operate instruments using procedures that take into account manufacture's recommendations
The Monitoring Frequency:	Once per operating day
The Data Collection Procedures That Will Be Used:	Electronic data log
The Data Averaging Period For Determining Whether an Excursion or Exceedance Has Occurred:	Single Reading once per operating day

Section 8 - State Only Requirements

1. Permitted Emissions for Fees

The annual emissions from the source for purposes of "Duties to Pay Fees" of Condition 2.3C, not considering insignificant activities as addressed by Section 6, shall not exceed the following limitations. The overall source emissions shall be determined by adding emissions from all emission units. Compliance with these limits shall be determined on a calendar year basis. The Permittee shall maintain records with supporting calculations of how the annual emissions for fee purposes were calculated. This Condition is set for the purpose of establishing fees and is not federally enforceable. See Section 39.5(18) of the Act.

<i>Pollutant</i>		<i>Tons/Year</i>
Volatile Organic Material	(VOM)	3.36
Sulfur Dioxide	(SO ₂)	0.37
Particulate Matter	(PM)	233.83
Nitrogen Oxides	(NO _x)	85.30
HAP, not included in VOM or PM	(HAP)	----
Total		325.96

Attachment 1 - List of Emission Units at This Source

<i>Section</i>	<i>Emission Units</i>	<i>Description</i>
4.1	Fluid Bed Dryers	The four fluidized bed dryers are natural gas fired units which are designed to remove water from the incoming wet sand. The four dryers may be fired on propane under a theoretical operating scenario in which natural gas supply is curtailed, a scenario considered unlikely. The fluidized bed dryers heat an incoming air stream, direct it through the bed which is held in suspension via air movement and exhausted through a control device (i.e., the high efficiency wet scrubbers).
4.2	Material Handling and Processing Operations (Subject to NSPS OOO and Constructed on or After April 22, 2008)	Various process emission units are located throughout several producing mills identified as Mill "D", Mill "U", Mill "F", and Mill "G" and the "Fine Sand Plant". At US Silica, these sources are generally controlled using 12 separate baghouses located throughout the facility (Baghouses A-L), as specified in Conditions 4.2.1, 4.3.1, and 4.4.1.
4.3	Material Handling and Processing Operations (Subject to NSPS OOO and Constructed Prior to April 22, 2008)	
4.4	Other Material Handling and Processing Operations	
4.5	Gasoline Storage Tank	One 1,000 gallon gasoline storage tank
4.6	Fugitive Emissions	<p>Fugitive emissions are defined as those emissions, which would not reasonably pass through a stack, vent or other functionally equivalent opening.</p> <p>Fugitive or "non-point source" emissions are particulate matter emissions from paved and unpaved roadways; storage piles, loading/unloading activities; materials being transported in a vehicle; materials collected from air pollution control equipment. US Silica has the following potential fugitive emission units: cars on paved and unpaved roads; trucks on paved and unpaved roads; sand handling; storage piles and blasting.</p>

Attachment 2 - Acronyms and Abbreviations

acfm	Actual cubic feet per minute
ACMA	Alternative Compliance Market Account
Act	Illinois Environmental Protection Act [415 ILCS 5/1 et seq.]
AP-42	Compilation of Air Pollutant Emission Factors, Volume 1, Stationary Point and Other Sources (and Supplements A through F), USEPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711
ATU	Allotment trading unit
BACT	Best Available Control Technology
BAT	Best Available Technology
Btu	British Thermal Units
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAAPP	Clean Air Act Permit Program
CAIR	Clean Air Interstate Rule
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CISWI	Commercial Industrial Solid Waste Incinerator
CO	Carbon monoxide
CO ₂	Carbon dioxide
COMS	Continuous Opacity Monitoring System
CPMS	Continuous Parameter Monitoring System
dscf	Dry standard cubic foot
dscm	Dry standard cubic meter
ERMS	Emissions Reduction Market System
°F	Degrees Fahrenheit
GHG	Green house gas
GACT	Generally Acceptable Control Technology
gr	Grains
HAP	Hazardous air pollutant
Hg	Mercury
HMIWI	Hospital medical infectious waste incinerator
hp	Horsepower
hr	Hour
H ₂ S	Hydrogen sulfide
I.D. No.	Identification number of source, assigned by IEPA
IAC	Illinois Administrative Code
ILCS	Illinois Compiled Statutes
IEPA	Illinois Environmental Protection Agency
kw	Kilowatts
LAER	Lowest Achievable Emission Rate
lbs	Pound

U.S. Silica Company
I.D. No.: 099825AAA
Permit No.: 95060046

Date Received: 1/30/2008
Date Issued: 01/13/2015

m	Meter
MACT	Maximum Achievable Control Technology
M	Thousand
MM	Million
mos	Month
MSDS	Material Safety Data Sheet
MSSCAM	Major Stationary Sources Construction and Modification (Non-attainment New Source Review)
MW	Megawatts
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO _x	Nitrogen oxides
NSPS	New Source Performance Standards
NSR	New Source Review
PB	Lead
PEMS	Predictive Emissions Monitoring System
PM	Particulate matter
PM ₁₀	Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 microns as measured by applicable test or monitoring methods
PM _{2.5}	Particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 microns as measured by applicable test or monitoring methods
ppm	Parts per million
ppmv	Parts per million by volume
ppmw	Parts per million by weight
PSD	Prevention of Significant Deterioration
PSEU	Pollutant-Specific Emission Unit
psia	Pounds per square inch absolute
PTE	Potential to emit
RACT	Reasonable Available Control Technology
RMP	Risk Management Plan
scf	Standard cubic feet
SCR	Selective catalytic reduction
SIP	State Implementation Plan
SO ₂	Sulfur dioxide
T1	Title I - identifies Title I conditions that have been carried over from an existing permit
T1N	Title I New - identifies Title I conditions that are being established in this permit
T1R	Title I Revised - identifies Title I conditions that have been carried over from an existing permit and subsequently revised in this permit
USEPA	United States Environmental Protection Agency
VOM	Volatile organic material

Attachment 3 - Contact and Reporting Addresses

<p>IEPA Compliance Section</p> <p>IEPA Stack Test Specialist</p> <p>IEPA Air Quality Planning Section</p> <p>IEPA Air Regional Field Operations Regional Office #2</p> <p>IEPA Permit Section</p>	<p>Illinois EPA, Bureau of Air Compliance & Enforcement Section (MC 40) 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276</p> <p>Phone No.: 217/782-2113</p>
	<p>Illinois EPA, Bureau of Air Compliance Section Source Monitoring - Third Floor 9511 Harrison Street Des Plaines, Illinois 60016</p> <p>Phone No.: 847/294-4000</p>
	<p>Illinois EPA, Bureau of Air Air Quality Planning Section (MC 39) 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276</p> <p>Phone No.: 217/782-2113</p>
	<p>Illinois EPA, Bureau of Air Regional Office #2 5415 North University Peoria, Illinois 61614</p> <p>Phone No.: 309/693-5462</p>
	<p>Illinois EPA, Bureau of Air Permit Section (MC 11) 1021 North Grand Avenue East P.O. Box 19506 Springfield, Illinois 62794-9506</p> <p>Phone No.: 217/785-1705</p>
<p>USEPA Region 5 - Air Branch</p>	<p>USEPA (AR - 17J) Air and Radiation Division 77 West Jackson Boulevard Chicago, Illinois 60604</p> <p>Phone No.: 312/353-2000</p>

Attachment 4 - Example Certification by a Responsible Official

SIGNATURE BLOCK	
NOTE: THIS CERTIFICATION MUST BE SIGNED BY A RESPONSIBLE OFFICIAL. APPLICATIONS WITHOUT A SIGNED CERTIFICATION WILL BE DEEMED AS INCOMPLETE.	
I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION CONTAINED IN THIS APPLICATION ARE TRUE, ACCURATE AND COMPLETE. ANY PERSON WHO KNOWINGLY MAKES A FALSE, FICTITIOUS, OR FRAUDULENT MATERIAL STATEMENT, ORALLY OR IN WRITING, TO THE ILLINOIS EPA COMMITS A CLASS 4 FELONY. A SECOND OR SUBSEQUENT OFFENSE AFTER CONVICTION IS A CLASS 3 FELONY. (415 ILCS 5/44(H))	
AUTHORIZED SIGNATURE:	
BY: _____	_____
AUTHORIZED SIGNATURE	TITLE OF SIGNATORY
_____	_____/_____/_____
TYPED OR PRINTED NAME OF SIGNATORY	DATE

U.S. Silica Company
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