west virginia department of environmental protection

Division of Air Quality
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Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
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April 20, 2016

CERTIFIED MAIL
91 7199 9991 7035 6665 8189

Michael L. Winkler
200 N. La Salle, Suite 2100
Chicago, IL 60601

RE: U.S. Silica Company
Berkeley Springs Quarry
Permit Application R13-2595B
Plant ID No. 065-00001

Dear Mr. Winkler:

Your application for a permit as required by Section 5 of 45CSR13 - "Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permit, General Permit, and Procedures for Evaluation" has been approved. The enclosed permit R13-2595B is hereby issued pursuant to Subsection 5.7 of 45CSR13. Please be aware of the notification requirements in the permit which pertain to commencement of construction, modification, or relocation activities; startup of operations; and suspension of operations.

The source is subject to 45CSR30. Changes authorized by this permit must also be incorporated into the facility's Title V operating permit. Commencement of the operations authorized by this permit shall be determined by the appropriate timing limitations associated with Title V permit revisions per 45CSR30.

In accordance with 45CSR30- Operating Permit Program, the permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §§22-5-14.

Should you have any questions or comments, please contact me at (304) 926-0499, extension 1212.

Sincerely,

Thornton E. Martin Jr.
Permit Engineer

c: Eastern Panhandle Regional Office
Kayla Bucheimer

West Virginia Department of Environmental Protection

Earl Ray Tomblin
Governor

Division of Air Quality

Randy C. Huffman
Cabinet Secretary

Class I Administrative Update Permit

R13-2595B

This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§22-5-1 et seq.) and 45 C.S.R. 13 – Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation. The permittee identified at the above-referenced facility is authorized to construct the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.

Issued to:
U.S. Silica Company
Berkeley Springs
065-00001

William F. Durham
Director

Issued: April 20, 2016

This permit will supercede and replace Permit R13-2595A.

Facility Location:	2496 Hancock Road, Berkeley Springs, Morgan County, West Virginia
Mailing Address:	P.O. Box 187, Berkeley Springs, WV 25411
Facility Description:	Industrial Sand Processing Plant
NAICS Codes:	212322
UTM Coordinates:	739.66 km Easting • 4,393.66 km Northing • Zone 17
Permit Type:	Class I Administrative Update
Description of Change:	Incorporate conditions (new air classifier as well as supporting equipment as part of the Mill 5 and Mill 6 circuit) that was incorrectly modified under Permit Registration R13-2145D as well correct conditions within the subsequent Permit Registration R13-2595A.

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §§22-5-14.

The source is subject to 45CSR30. Changes authorized by this permit must also be incorporated into the facility's Title V operating permit. Commencement of the operations authorized by this permit shall be determined by the appropriate timing limitations associated with Title V permit revisions per 45CSR30.

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1.0. Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Maximum Hourly Rate (ton/hour)	Control Device
1S	1E	MS-20 Microsizer	2004	25	1C
2S	1E	Airslide 100	2004	8	1C
3S	1E	Airslide 200	2004	8	1C
4S	1E	Hopper	2004	8	1C
5S	2E	Tech Air Pumping System	2004	8	2C
ELEV25	Stack#15	Bucket Elevator	2015	25	CF#15
FEEDB25		Feed Conveyor Belt	2015	25	
FEEDB26		Feed Conveyor Belt	2015	10	
SCREN25		Scalping Screen	2015	10	
BIN25		Feed Bin	2015	10	
PNEU25		Pneumatic Conveyor	2015	10	
HOPPR25	Stack#46	Feed Hopper	2015	10	CF#46
TANK25	Stack#47	Feed Bin	2015	25	CF#47
AIRSE25	Stack#45	Air Classifier	2015	10	CF#45

Emission Point	Control Devices	Air Pollution Control Device Efficiency
1E	Torit DFT2-4-155 Baghouse	99.9%
2E	Mikropul 8204B Baghouse (Tank 5) Torit DF2DF4 (Tanks 6 and 7)	99.9% 99.9%
Stack#15	Cellulosic Cartridge Filter	99.9%
Stack#46	Cellulosic Cartridge Filter	99.9%
Stack#47	Cellulosic Cartridge Filter	99.9%
Stack#45	Ecutech Cartridge Filter	99.9%

2.0. General Conditions

2.1. Definitions

2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.

2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.

2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.

2.2. Acronyms

CAAA	Clean Air Act Amendments	**NOx**	Nitrogen Oxides
CBI	Confidential Business Information	**NSPS**	New Source Performance Standards
CEM	Continuous Emission Monitor	**PM**	Particulate Matter
CES	Certified Emission Statement	**$PM_{2.5}$**	Particulate Matter less than 2.5 µm in diameter
C.F.R. *or* CFR	Code of Federal Regulations	**PM_{10}**	Particulate Matter less than 10µm in diameter
CO	Carbon Monoxide	**Ppb**	Pounds per Batch
C.S.R. *or* CSR	Codes of State Rules	**Pph**	Pounds per Hour
DAQ	Division of Air Quality	**Ppm**	Parts per Million
DEP	Department of Environmental Protection	**Ppmv or ppmv**	Parts per Million by Volume
dscm	Dry Standard Cubic Meter	**PSD**	Prevention of Significant Deterioration
FOIA	Freedom of Information Act	**Psi**	Pounds per Square Inch
HAP	Hazardous Air Pollutant	**SIC**	Standard Industrial Classification
HON	Hazardous Organic NESHAP	**SIP**	State Implementation Plan
HP	Horsepower	**SO_2**	Sulfur Dioxide
lbs/hr	Pounds per Hour	**TAP**	Toxic Air Pollutant
LDAR	Leak Detection and Repair	**TPY**	Tons per Year
M	Thousand	**TRS**	Total Reduced Sulfur
MACT	Maximum Achievable Control Technology	**TSP**	Total Suspended Particulate
MDHI	Maximum Design Heat Input	**USEPA**	United States Environmental Protection Agency
MM	Million	**UTM**	Universal Transverse Mercator
MMBtu/hr *or* mmbtu/hr	Million British Thermal Units per Hour	**VEE**	Visual Emissions Evaluation
MMCF/hr *or* mmcf/hr	Million Cubic Feet per Hour	**VOC**	Volatile Organic Compounds
NA	Not Applicable	**VOL**	Volatile Organic Liquids
NAAQS	National Ambient Air Quality Standards		
NESHAPS	National Emissions Standards for Hazardous Air Pollutants		

2.3. Authority

This permit is issued in accordance with West Virginia air pollution control law W.Va. Code §§ 22-5-1. et seq. and the following Legislative Rules promulgated thereunder:

2.3.1. 45CSR13 – *Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation*;

2.3.2. 45CSR14 – *Permits for Construction and Major Modification of Major Stationary Sources of Air Pollution for the Prevention of Significant Deterioration;*

2.4. Term and Renewal

2.4.1. This permit supersedes and replaces previously issued Permit R13-2595. This Permit shall remain valid, continuous and in effect unless it is revised, suspended, revoked or otherwise changed under an applicable provision of 45CSR13 or any other applicable legislative rule;

2.5. Duty to Comply

2.5.1. The permitted facility shall be constructed and operated in accordance with the plans and specifications filed in Permit Application R13-2595, R13-2595A, R13-2595B and any modifications, administrative updates, or amendments thereto. The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to;
[45CSR§§13-5.11 and 10.3.]

2.5.2. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA;

2.5.3. Violations of any of the conditions contained in this permit, or incorporated herein by reference, may subject the permittee to civil and/or criminal penalties for each violation and further action or remedies as provided by West Virginia Code 22-5-6 and 22-5-7;

2.5.4. Approval of this permit does not relieve the permittee herein of the responsibility to apply for and obtain all other permits, licenses, and/or approvals from other agencies; i.e., local, state, and federal, which may have jurisdiction over the construction and/or operation of the source(s) and/or facility herein permitted.

2.6. Duty to Provide Information

The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for administratively updating, modifying, revoking, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.

2.7. Duty to Supplement and Correct Information

Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.

2.8. Administrative Update

The permittee may request an administrative update to this permit as defined in and according to the procedures specified in 45CSR13.
[45CSR§13-4.]

2.9. Permit Modification

The permittee may request a minor modification to this permit as defined in and according to the procedures specified in 45CSR13.
[45CSR§13-5.4.]

2.10 Major Permit Modification

The permittee may request a major modification as defined in and according to the procedures specified in 45CSR14 or 45CSR19, as appropriate.
[45CSR§13-5.1]

2.11. Inspection and Entry

The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:

a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;

d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.

2.12. Emergency

2.12.1. An "emergency" means any situation arising from sudden and reasonable unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the 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 preventative maintenance, careless or improper operation, or operator error.

2.12.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of Section 2.12.3 are met.

2.12.3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;

b. The permitted facility was at the time being properly operated;

c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

d. The permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

2.12.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

2.12.5 The provisions of this section are in addition to any emergency or upset provision contained in any applicable requirement.

2.13. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it should have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

2.14. Suspension of Activities

In the event the permittee should deem it necessary to suspend, for a period in excess of sixty (60) consecutive calendar days, the operations authorized by this permit, the permittee shall notify the Secretary, in writing, within two (2) calendar weeks of the passing of the sixtieth (60) day of the suspension period.

2.15. Property Rights

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

2.16. Severability

The provisions of this permit are severable and should any provision(s) be declared by a court of competent jurisdiction to be invalid or unenforceable, all other provisions shall remain in full force and effect.

2.17. Transferability

This permit is transferable in accordance with the requirements outlined in Section 10.1 of 45CSR13. **[45CSR§13-10.1.]**

2.18. Notification Requirements

The permittee shall notify the Secretary, in writing, no later than thirty (30) calendar days after the actual startup of the operations authorized under this permit.

2.19. Credible Evidence

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defense otherwise available to the permittee including, but not limited to, any challenge to the credible evidence rule in the context of any future proceeding.

3.0. Facility-Wide Requirements

3.1. Limitations and Standards

3.1.1. **Open burning.** The open burning of refuse by any person, firm, corporation, association or public agency is prohibited except as noted in 45CSR§6-3.1.
[45CSR§6-3.1.]

3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause, suffer, allow or permit any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible.
[45CSR§6-3.2.]

3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management, and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them.
[40CFR§61.145(b) and 45CSR§34]

3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.
[45CSR§4-3.1] ***[State Enforceable Only]***

3.1.5. **Permanent shutdown.** A source which has not operated at least 500 hours in one 12-month period within the previous five (5) year time period may be considered permanently shutdown, unless such source can provide to the Secretary, with reasonable specificity, information to the contrary. All permits may be modified or revoked and/or reapplication or application for new permits may be required for any source determined to be permanently shutdown.
[45CSR§13-10.5.]

3.1.6. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11.
[45CSR§11-5.2.]

3.2. Monitoring Requirements

[Reserved]

3.3. Testing Requirements

3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly

authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63 in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4. or 45CSR§13-5.4 as applicable.

b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit may be revised in accordance with 45CSR§13-4. or 45CSR§13-5.4 as applicable.

c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.

d. The permittee shall submit a report of the results of the stack test within sixty (60) days of completion of the test. The test report shall provide the information necessary to document the objectives of the test and to determine whether proper procedures were used to accomplish these objectives. The report shall include the following: the certification described in paragraph 3.5.1.; a statement of compliance status, also signed by a responsible official; and, a summary of conditions which form the basis for the compliance status evaluation. The summary of conditions shall include the following:

1. The permit or rule evaluated, with the citation number and language;
2. The result of the test for each permit or rule condition; and,
3. A statement of compliance or noncompliance with each permit or rule condition.

[WV Code § 22-5-4(a)(14-15) and 45CSR13]

3.4. Recordkeeping Requirements

3.4.1. **Retention of records.** The permittee shall maintain records of all information (including monitoring data, support information, reports, and notifications) required by this permit recorded in a form suitable and readily available for expeditious inspection and review. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation. The files shall be maintained for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two (2) years of data shall be maintained on site. The remaining three (3) years of data may be maintained off site, but must remain accessible within a reasonable time. Where appropriate, the permittee may maintain records electronically (on a computer, on computer floppy disks, CDs, DVDs, or magnetic tape disks), on microfilm, or on microfiche.

3.4.2. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.
[45CSR§4. *State Enforceable Only.*]

3.5. Reporting Requirements

3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

3.5.2. **Confidential information.** A permittee may request confidential treatment for the submission of reporting required by this permit pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.

3.5.3. **Correspondence.** All notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, or mailed first class with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

If to the DAQ:
Director
WVDEP
Division of Air Quality
601 57th Street
Charleston, WV 25304-2345

If to the US EPA:
Associate Director
Office of Air Enforcement and Compliance Assistance
(3AP20)
U. S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

3.5.4. Operating Fee

3.5.4.1. In accordance with 45CSR30 – Operating Permit Program, the permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made

immediately available for inspection by the Secretary or his/her duly authorized representative.

3.5.5. **Emission inventory.** At such time(s) as the Secretary may designate, the permittee herein shall prepare and submit an emission inventory for the previous year, addressing the emissions from the facility and/or process(es) authorized herein, in accordance with the emission inventory submittal requirements of the Division of Air Quality. After the initial submittal, the Secretary may, based upon the type and quantity of the pollutants emitted, establish a frequency other than on an annual basis.

4.0. Source-Specific Requirements

4.1. Limitations and Standards

4.1.1. The following conditions and requirements are specific to the Air Classifier (AIRSE25) and Cristobalite processing operations:

a. The fugitive PM emissions due to the transferring of material from the feed bin (TANK25) to the air classifier (AIRSE25) using the two feed conveyor belts (FEEDB25 & FEEDB26) shall be equipped with a capture and removal system (PM control device). Such PM control device shall utilize the fabric filter control technology or similar technology that has a design removal efficiency of 99.9% or better for PM.
[45CSR§7-5.1]

b. Visible emissions from Stacks (#15, #45, #46 & #47) shall not be greater than 7% opacity on a six minute average.
[40CFR§60.672(a) & Table 2 of Subpart OOO]

c. The fugitive PM emissions due to the transferring of material from the feed bin (TANK25) to Mill #6 using the two feed conveyor belts (FEEDB25 & FEEDB26) shall be equipped with a capture and removal system (PM control device). Such PM control device shall utilize the fabric filter control technology or similar technology that has a design removal efficiency of 99.9% or better for PM.
[45CSR§7-5.1]

d. The following fugitive dust control measures as specified in Permit Application R13-2595B shall be installed, maintained, and operated at all times when the facility is in operation in order to minimize fugitive particulate matter emissions:

Emission Source ID#	Air Pollution Control Device ID#	Air Pollution Control Device	Air Pollution Control Device Efficiency
ELEV25	Stack#15	Cellulosic Cartridge Filter	99.9%
FEEDB25			
FEEDB26			
SCREN25			
BIN25			
PNEU25			
HOPPR25	Stack#46	Cellulosic Cartridge Filter	99.9%
TANK25	Stack#47	Cellulosic Cartridge Filter	99.9%
AIRSE25	Stack#45	Ecutech Cartridge Filter	99.9%

e. Visible emissions from Stack #47 shall not be greater than 7% opacity on a six minute average.
[40CFR§60.672(a) & Table 2 of Subpart OOO]

f. PM emissions from Stacks (#15 & #45) shall not exhibit PM greater than 0.014 grains per dry standard cubic foot of exhaust.
[40CFR§60.672(a) & Table 2 of Subpart OOO]

g. Fugitive visible emissions from feed conveyor belts (FEEDB25 & FEEDB26) shall not be greater than 7% opacity on a six minute average.
[40CFR§60.672(b) & Table 3 of Subpart OOO]

4.1.2. The following conditions and requirements are specific to the sand sizing and handling operations:

a. The maximum quantity of material to be processed by the permitted facility shall be limited to the following:

Equipment Source	Maximum Hourly Rate (ton/hr)
MS-20 Microsizer (1S)	25
Airslide 100 (2S)	8
Airslide 200 (3S)	8
Hopper (4S)	8
Tech Air Pumping System (5S)	8

b. Maximum particulate matter emissions to the atmosphere shall not exceed the following:

Emission Point ID#	Emission Source	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (ton/year)
1e	MS-20 Microsizer (1S)	1.20	5.26
1e	Airslide 100 (2S)	0.15	0.66
1e	Airslide 200 (3S)	0.15	0.66
1e	Hopper (4S)	0.10	0.43
2e	Tech Air Pumping System (5S)	0.40	1.75

c. The following fugitive dust control measures as specified in Permit Application R13-2595 shall be installed, maintained, and operated at all times when the facility is in operation in order to minimize fugitive particulate matter emissions:

Emission Source ID#	Air Pollution Control Device ID#	Air Pollution Control Device	Air Pollution Control Device Efficiency
1S	1C	Torit DFT2-4-155 Baghouse	99.9%
2S	1C	Torit DFT2-4-155 Baghouse	99.9%
3S	1C	Torit DFT2-4-155 Baghouse	99.9%
4S	1C	Torit DFT2-4-155 Baghouse	99.9%

5S	2C	Mikropul 8204B Baghouse (Tank 5) Torit DF2DF4 (Tanks 6 and 7)	99.9% 99.9%

d. The stabilized static pressure loss across baghouses 1C and 2C shall remain between 0.5 to 6.0 inches of water.

e. Except during startup and shutdown, opacity from baghouses 1C and 2C shall not exceed 10 percent based on a six minute block average. In order to determine compliance with this limit the permittee shall conduct monthly visual emission observations in accordance with Method 22 of 40 CFR 60, Appendix A for emission point 1e and 2e. These observations shall be conducted during periods of normal facility operation for a sufficient time interval to determine if the unit has visible emissions using procedures outlined in 40CFR60 Appendix A, Method 22. If sources of visible emissions are identified during the survey, the permittee shall conduct an opacity evaluation in accordance with 40CFR60 Appendix A, Method 9, within 24 hours. A 40CFR60 Appendix A, Method 9 evaluation shall not be required if the visible emission condition is corrected within 24 hours and the units are operated at normal operating conditions with no visible emissions being observed. Records shall be maintained on site reporting the results of each test. Upon observing any visible emissions in excess of twenty percent (20%) opacity, or excess of forty (40%) for any period or periods aggregating more than five (5) minutes in any sixty (60) minute period, the Company shall submit a written report, certified by a responsible official, to the Director of the Division of Air Quality within five (5) days after taking said reading.

f. PM emissions from Stack (1e) shall not exhibit PM greater than 0.05 grains per dry standard cubic meter of exhaust. **[40CFR§60.672(a) & Table 2 of Subpart OOO]**

4.1.3. **Operation and Maintenance of Air Pollution Control Equipment.** The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment listed in Section 1.0 and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary.
[45CSR§13-5.11.]

4.2. Monitoring Requirements

4.2.1. Visible emissions shall be observed visually at least each calendar week during periods of facility operation for a sufficient time interval to determine if the unit (Stacks #15, #45, #46, and #47) has any visible emissions using 40CFR60 Appendix A, Method 22. If visible emissions are observed during these weekly observations, or at any other time, that appear to exceed the allowable visible emission requirement, visible emissions evaluations in accordance with 45CSR7A shall be conducted as soon as practicable, but no later than 24 hours from the time of the observation. A visible emissions evaluation in accordance with 45CSR7A shall not be required under condition Section 4.2.1 if the visible emissions condition is corrected in a timely manner; the Process Source Operation is operating at normal operating conditions; and, the cause and corrective measures taken are recorded.

4.2.2. Once a quarter (every three months), the permittee shall conduct 30 minute visible emission inspections using U.S. EPA Method 22 (Appendix A-7 of Part 60) of Stack #15, #45 and #47. The Method 22 observations shall be conducted while the dust collector (for Stacks #15, #45, and #47) is operating. Such monitoring is deemed satisfactory if no visible emissions are detected during the Method 22 observations. If any visible emissions are detected, then the permittee must initiate corrective actions within twenty –four hours of the observation to bring the dust collector

to normal operation. The date and time of every Method 22 observation inspection shall be recorded in accordance with Condition 3.4.1. and in the logbook accordance with §60.674(c). These records shall include any corrective actions taken. The permittee may elect to establish a different satisfactory (success) level for the visible emissions observations inspections by conducting PM performance test according to §60.675(b) simultaneously with a Method 22 observation to determine what constitutes normal visible emission from Stacks #15, #45, and #47 when it is in compliance with the PM limit of Condition 4.1.1.f. This revised visible emissions satisfactory (success) level must be incorporated into the Facility's Title V Operating Permit. **[40CFR§60.6764(c)]**

4.2.3. With regard to performance tests required by the WV Division of Environmental Protection, Division of Air Quality (DAQ), including those performance tests required under 40 CFR 60 Subpart OOO, the permittee shall submit to the Director of the DAQ a test protocol detailing the proposed test methods, date, and time testing is to take place, sampling locations, and any other relevant information. The test protocol must be received by the Director no less than thirty (30) days prior to the date the testing is to take place. Performance test results shall be submitted to the DAQ within 60 days of completing said tests.

4.2.4. For the purpose of determining compliance with the process rate limitation set forth in 4.1.2.a, the permittee shall maintain monthly and annual records on the processing rate of sand to Emission Source ID# 1S, 2S, 3S, 4S, and 5S. Certified copies of said records shall be made available to the Director or his/her duly authorized representative upon request. The monthly and annual sand processing records may be maintained using the U.S. Silica Company computerized Production Tracking Data System (PTDS).

4.2.5. For the purpose of determining compliance with the emission limits as set forth in 4.1.2.b, the permittee shall maintain all records that are required herein. Said records shall be maintained on site for a period of five (5) years and shall be made available to the Director or his/her duly authorized representative upon request.

4.2.6. For the purpose of determining compliance with the conditions set forth in 4.1.2.c, the permittee shall meet the following requirements for control devices 1C and 2C:

Maintenance records shall be maintained on site for a period of five (5) years. Malfunctions shall be documented in writing and records of these malfunctions maintained at the facility for a period of five (5) years. Certified copies of said records shall be made available to the Director or his/her duly authorized representative upon request. At minimum, the following information shall be documented for each malfunction:

i. The equipment involved in the malfunction and the associated cause.
ii. Steps taken to correct the malfunction.
iii. The steps taken to minimize the emissions during the malfunction.
iv. The duration of the malfunction.
v. The increase in emissions during the malfunction.
vi. Steps taken to prevent a similar malfunction in the future.

4.2.7. To determine compliance with 4.1.2.d, the permittee shall monitor and maintain records of daily observations of delta P across baghouses 1C and 2C. These records shall be maintained on-site for a period of five (5) years and certified records shall be made available to the Director of the Division of Air Quality or his/her duly authorized representative upon request.

4.3. Testing Requirements

4.3.1. For demonstrating initial compliance with the visible emission standards of 4.1.1.e and 4.1.1.g, the permittee shall conduct performance testing to determine the visible emissions from the point and fugitive emission sources associated with Cristobalite processing at the facility. Such testing shall be conducted in accordance with Method 9 of Appendix A-4 of 40CFR 60, and the procedures in 40CFR§60.11. and Condition 3.3.1 of this permit and the following additions:

a. The minimum distance between the observer and the emission source shall be 15 feet. The observer shall, when possible, select a position that minimizes interference from other fugitive sources (e.g. road dust). The required observer position relative to the sun (Method 9 of Appendix A-4 of 40 CFR 60, Section 2.1.) must be followed.

b. The duration of the Method 9 observations for demonstrating compliance with the fugitive emission limit must be 30 minutes (five 6-minute averages). Compliance with the limit in 4.1.1.g shall be based on the average of five 6-minute averages.

c. If a building/structure encloses the Cristobalite processing, the permittee shall conduct initial Method 9 observation of the building/structure to determine the compliance with fugitive emission limit of Condition 4.1.1.g according to Subpart OOO and 40 CFR §60.11. Such source must be operating while conducting the observations.
[40CFR§§60.675(c) and (d)]

The permittee may use the following as alternatives to the reference methods and procedures listed in the above:

a. If visible emissions from two or more facilities (affected sources) continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read, either of the following procedures may be used:

i. Use for the combined emission stream the highest fugitive opacity standard application to any of the individual affected contributing to the emission stream.

ii. Separate the emissions so that the opacity of emissions from each affected can be read.

b. A single visible emission observer may conduct visible emissions observations for up to three fugitive, stack, or vent emission points within a 15-second interval if the following conditions are met:

i. No more than three emission points may be read concurrently.

ii. All three emission points must be within a 70 degree viewing sector or angle in front of the observer such that the proper sun position can be maintained for all three points.

iii. If an opacity reading for any one of the three emission points equals or exceeds the applicable standard, then the observer must stop taking readings for the other two points and continue reading just that single point.

c. The permittee may reduce the 30-day advance notification of performance test in 40CFR§§60.7(a)(6), 60.8(d) and 15-day notification of Condition 3.3.1.c. to a 7-day advance notification.
[40CFR§§60.675(e) and (g)]

4.3.2. For demonstrating initial compliance with the PM emission limit of 4.1.1.f, the permittee shall conduct performance testing to determine the PM concentration rate from the corresponding

Stack. Such testing shall be conducted using Method 5(Appendix A-3 of Part 60), Method 17 ((Appendix A-6) of Part 60), or Method 5I (Appendix A-3 of Part 60). If the exhaust velocity of the Stack is too low to measure accurately using the type S pilot tube as specified in EPA Method 2 (Appendix A-1 of Part 60), then the permittee may use the procedure outline in 40 CFR§60.675(e)(4).

4.3.3. The initial performance testing as required in this section (Section 4.3.) shall be conduct within 60 days after achieving the maximum production rate of 25 tons per hour with the Cristobalite system, but no later than 180 days after initial start-up of either system.
[40CFR§§60.672(a) and (b)]

4.3.4. The permittee shall repeat the performance testing as prescribed in Condition 4.3.1. for compliance with the fugitive emission standard of Condition 4.1.1.g within 5 years from the previous performance test demonstrating compliance.
[Table 3 to Subpart OOO of 40 CFR 60]

4.4. Recordkeeping Requirements

4.4.1. **Record of Monitoring.** The permittee shall keep records of monitoring information that include the following:

a. The date, place as defined in this permit, and time of sampling or measurements;

b. The date(s) analyses were performed;

c. The company or entity that performed the analyses;

d. The analytical techniques or methods used;

e. The results of the analyses; and

f. The operating conditions existing at the time of sampling or measurement.

4.4.2. **Record of Maintenance of Air Pollution Control Equipment.** For all pollution control equipment listed in Section 1.0, the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures.

4.4.3. **Record of Malfunctions of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 1.0, the permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. For each such case, the following information shall be recorded:

a. The equipment involved.

b. Steps taken to minimize emissions during the event.

c. The duration of the event.

d. The estimated increase in emissions during the event.

For each such case associated with an equipment malfunction, the additional information shall also be recorded:

e. The cause of the malfunction.

f. Steps taken to correct the malfunction.

g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.

[40CFR§60.676(b)(1)]

4.5. Reporting Requirements

4.5.1. The Director shall be notified of the initial start-up of each affected facility within 15 days after such date. The notification of these sources can be included in a single notification and needs to include a description of each affected source, equipment manufacturer, and serial number of the equipment if available. This notification supersedes the notification requirements of Condition 2.18.

[40CFR§§60.676(i)(1) and (k)]

4.5.2. The permittee shall report the results of any test conducted as required in Section 4.3. of this permit to the Director within 60 days after completing such testing.

[40CFR§§60.676(f) and (k)]

CERTIFICATION OF DATA ACCURACY

I, the undersigned, hereby certify that, based on information and belief formed after reasonable inquiry, all information contained in the attached _____, representing the period beginning _____ and ending _____, and any supporting documents appended hereto, is true, accurate, and complete.

Signature[1] (please use blue ink) _____ Responsible Official or Authorized Representative _____ Date

Name & Title (please print or type) _____ Name _____ Title

Telephone No. _____ Fax No. _____

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[1] This form shall be signed by a "Responsible Official." "Responsible Official" means one of the following:

a. For a corporation: The president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:

(i) the facilities employ more than 250 persons or have a gross annual sales or expenditures exceeding $25 million (in second quarter 1980 dollars), or

(ii) the delegation of authority to such representative is approved in advance by the Director;

b. For a partnership or sole proprietorship: a general partner or the proprietor, respectively;

c. For a municipality, State, Federal, or other public entity: either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a Federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a Regional Administrator of U.S. EPA); or

d. The designated representative delegated with such authority and approved in advance by the Director.