



west virginia department of environmental protection

Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone: (304) 926-0475 • FAX: (304) 926-0479

Jim Justice, Governor
Austin Caperton, Cabinet Secretary
www.dep.wv.gov

July 24, 2017

Michael L. Winkler
2496 Hancock Rd.
Berkeley Springs, WV 25411

Re: U.S. Silica Company
Berkeley Springs Plant
Permit No. R13-2423B
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 R13-2423B 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. The permittee has the duty to update the facility's Title V (45CSR30) permit application to reflect the changes permitted herein.

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 1257.

Sincerely,

John Legg
DAQ Permit Writer

Enclosures

c: Kayla Bucheimer
Bucheimer@ussilica.com

Joseph Kreger
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**CLASS I ADMINISTRATIVE UPDATE FOR
TWO(2) ROTEX SCREENS**

IN ACCORDANCE WITH THE WEST VIRGINIA AIR POLLUTION CONTROL LAW (W. Va. Code §§22-5-1 et seq.), AND REGULATIONS PROMULGATED THEREUNDER, THE FOLLOWING PERMITTEE IS AUTHORIZED TO CONSTRUCT, SUBJECT TO THE TERMS AND CONDITIONS OF THIS PERMIT, THE SOURCE DESCRIBED BELOW.

This permit will supersede and replace Permit R13-2423A.

Name of Permittee: U.S. Silica Company

Name of Facility: Berkeley Springs Facility

Permit No.: R13-2423B

Plant ID No.: 06500001

Effective Date of Permit: July 24, 2017

Permit Writer: John Legg

Facility Mailing Address: P.O. Box 187
Berkeley Springs, WV 25411

County: Morgan

Nearest City or Town: Berkeley Springs

UTM Coordinates: Easting: 729.59 km Northing: 4393.48 km Zone: 17

Directions to Exact Location: Adjacent to Route 522 North, Berkeley Springs, WV.

Type of Facility or Modification: Class I administrative update to relocate the #1 Rotex Screen (1s - Screen 17) from the West Float Plant building to the New Screen Tower building. The control equipment for the #1 Rotex Screen will change from the #9 Torit Cartridge Model 4DF32-155 Pulse Type Dust Collector to the #7 Torit Cartridge Model DFT4-32 Dust Collector.

THE SOURCE IS SUBJECT TO 45CSR30. THE PERMITTEE HAS THE DUTY TO UPDATE THE FACILITY'S TITLE V (45CSR30) PERMIT APPLICATION TO REFLECT THE CHANGES PERMITTED HEREIN.

IN ACCORDANCE WITH THE PERMIT APPLICATION AND ITS AMENDMENTS, THIS PERMIT IS LIMITED AS FOLLOWS:

A. SPECIFIC REQUIREMENTS

1. The maximum hourly rate of sand to the two (2) new Rotex Screens (Equipment ID Nos.: 1s and 2s) shall not exceed 50 TPH per screen and 100 TPH total.
2. The maximum annual rate of sand to the two (2) new Rotex Screens (Equipment ID Nos.: 1s and 2s) shall not exceed 438,000 TPY per screen and 876,000 TPY total.
3. The permittee shall operate the following air pollution control device for the #2 Rotex Screen (2S) as outlined in Permit Application R13-2423:
 - The #9 Torit Cartridge Model No. 4DF32-155 Dust Collector (Emission Point ID No.: Stack #9).
4. In accordance with the requirements of 40 CFR 60, Subpart OOO, the maximum particulate (PM) emissions from the following air pollution control device for the #1 Rotex Screen (1s) shall not exceed 0.022 grains per dry standard cubic foot (0.05 grams per dry standard meter):
 - The #7 Torit Cartridge Model No. DFT4-32 Dust Collector (Emission Point ID No. Stack #7).
5. In accordance with the requirements of 40 CFR 60, Subpart OOO, the maximum particulate (PM) emissions from the following air pollution control device for the #2 Rotex Screen (2s) shall not exceed 0.022 grains per dry standard cubic foot (0.05 grams per dry standard meter):
 - The #9 Torit Cartridge Model No. 4DF32-155 Dust Collector Pulse Type (Emission Point ID No. Stack #9).

6. Particulate matter (PM) emissions shall not exceed the following hourly and annual emission limits:

| Rotex Screen Source ID No. | Emission Point ID No. | Control Equipment | Emission Limitations | |
|----------------------------|-----------------------|--|-----------------------------|-----------------------------|
| | | | Hourly ⁽¹⁾ (PPH) | Annual ⁽²⁾ (TPY) |
| 1s | Stack #7 (Stack) | #7 Torit Cartridge Model No. DFT4-32 Dust Collector | 4.1 ⁽³⁾ | 18.2 ⁽³⁾ |
| 2s | Stack #9 (Stack) | #9 Torit Cartridge Model No. 4DF32-155 Pulse Type Dust Collector | 1.4 | 6.0 |

(1) Based on a PM emission rate of 0.022 grains/dscf (0.05 grams/dscm) and a maximum dust collector gas flow of 7,212 dcfm for the #9 dust collector and 22,000 cfm for the #7 dust collector.
(2) Based on 8,760 hours of operation per year.
(3) Stack #7 limitations listed above apply at times when the #1 Rotex Sreen (1s) is in operation.

B. OTHER REQUIREMENTS

1. The permitted facility shall comply with all applicable provisions of 45CSR7 and any more stringent limitation requirements as set forth under Paragraph (A) of this permit and 40 CFR 60, Subpart OOO. The principal provisions of Regulation 7 applicable to the permitted facility are as follows:

§45-7-3.1.

No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity, except as noted in subsections 3.2, 3.3, 3.4, 3.5, 3.6, and 3.7.

§45-7-3.2.

The provisions of subsection 3.1 shall not apply to smoke and/or particulate matter emitted from any process source operation which is less than forty (40) percent opacity for any period or periods aggregating no more than five (5) minutes in any sixty (60) minute period.

§45-7-3.7.

No person shall cause, suffer, allow or permit visible emissions from any storage structure(s) associated with any manufacturing process(es) that pursuant to subsection 5.1 is required to have a full enclosure and be equipped with a particulate matter control device.

§45-7-4.1.

No person shall cause, suffer, allow or permit particulate matter to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or

duplicate source operation in excess of the quantity specified under the appropriate source operation type in Table 45-7A found at the end of this rule.

§45-7-5.1.

No person shall cause, suffer, allow or permit any manufacturing process or storage structure generating fugitive particulate matter to operate that is not equipped with a system, which may include, but not be limited to, process equipment design, control equipment design or operation and maintenance procedures, to minimize the emissions of fugitive particulate matter. To minimize means such system shall be installed, maintained and operated to ensure the lowest fugitive particulate matter emissions reasonably achievable.

§45-7-5.2.

The owner or operator of a plant shall maintain particulate matter control of the plant premises, and plant owned, leased or controlled access roads, by paving, application of asphalt, chemical dust suppressants or other suitable dust control measures. Good operating practices shall be implemented and when necessary particulate matter suppressants shall be applied in relation to stockpiling and general material handling to minimize particulate matter generation and atmospheric entrainment.

§45-7-8.1.

At such reasonable times as the Director may designate, the operator of any manufacturing process source operation may be required to conduct or have conducted stack tests to determine the particulate matter loading in exhaust gases. Such tests shall be conducted in such manner as the Director may specify and be filed on forms and in a manner acceptable to the Director. The Director, or his duly authorized representative, may at his option witness or conduct such stack tests. Should the Director exercise his option to conduct such tests, the operator will provide all the necessary sampling connections and sampling ports to be located in such manner as the Director 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.

§45-7-8.2.

The Director, or his duly authorized representative, may conduct such other tests as he or she may deem necessary to evaluate air pollution emissions.

§45-7-9.1.

Due to unavoidable malfunction of equipment, emissions exceeding those set forth in this rule may be permitted by the Director for periods not to exceed ten (10) days upon specific application to the Director. Such application shall be made within twenty-four (24) hours of the malfunction. In cases of major equipment failure, additional time periods may be granted by the Director provided a corrective program has been submitted by the owner or operator and approved by the Director.

2. The permitted facility shall comply with all applicable provisions of 40 CFR 60 Subpart OOO, provided that compliance with any more stringent limitation set forth under Paragraph (A) of this permit shall also be demonstrated. Pertinent sections applying to this operation include, but are not limited to:

a) Performance tests must be conducted as required by §60.8 and in accordance with test methods and procedures given in §60.675. Test results/reports are to be sent to:

DAQ:

Director
WVDEP
Division of Air Quality
601 57th Street, SE
Charleston, WV 25304-2345

DAQ Compliance and Enforcement¹:

DEPAirQualityReports@wv.gov

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

¹For all self-monitoring reports (MACT, GACT, NSPS, etc.), stack tests and protocols, Notice of Compliance Status Reports, Initial Notifications, etc.

b) Standards governing particulate matter emissions are given in §60.672.

c) Reporting and record keeping requirements are given in §60.676.

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 45 days of completing said tests.

4. For the purpose of determining compliance with the process rate limitation set forth in SPECIFIC REQUIREMENT A.1, the permittee shall maintain monthly and annual records on the processing rate of sand to the (2) Rotex Screens. 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).

5. For the #9 Torit Model No. 4DF32-155 Pulse Type Cartridge Dust Collector (Equipment ID No. 1C):
- a. Maintenance records shall be maintained on site for a period of five (5) years. Certified copies of these records shall be made available to the Director or their duly authorized representative upon request.
 - b. Malfunctions shall be documented in writing and records of these malfunctions maintained at the facility for a period of 5 years. Certified copies of these records shall be made available to the Director or their duly authorized representative upon request. At minimum, the following information shall be documented for each malfunction:
 - The cause of malfunction.
 - Steps taken to:
 - correct the malfunction.
 - minimize emissions during malfunction.
 - The duration of the malfunction in hours.
 - The estimated increase in emissions during the malfunction.
 - Any changes/modifications made to equipment and/or procedures that will help prevent future recurrence of the malfunction.
6. The pertinent sections of 45CSR13 applicable to this facility include, but are not limited to, the following:

§45-13-6.1

At the time a stationary source is alleged to be in compliance with an applicable emission standard and at reasonable times to be determined by the Secretary thereafter, appropriate tests consisting of visual determinations or conventional in-stack measurements or such other tests the Secretary may specify shall be conducted to determine compliance.

§45-13-10.2

The Secretary may suspend or revoke a permit if, after six (6) months from the date of issuance, the holder of the permit cannot provide the Secretary, at the Secretary's request, with written proof of a good faith effort that construction, modification, or relocation, if applicable, has commenced. Such proof shall be provided not later than thirty (30) days after the Secretary's request. If construction or modification of a stationary source is discontinued for a period of eighteen (18) months or longer, the Secretary may suspend or revoke the permit.

§45-13-10.3

The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based or the conditions established in the permit are not adhered to. Upon notice of the Secretary's intent to suspend, modify or

revoke a permit, the permit holder may request a conference with the Secretary in accordance with the provisions of W.Va Code § 22-5-5 to show cause why the permit should not be suspended, modified or revoked.

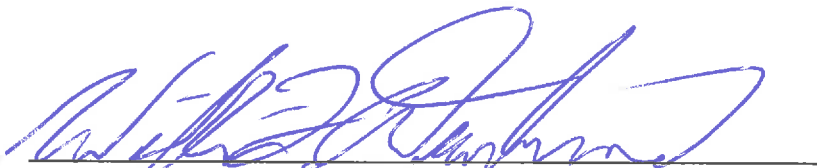
C. GENERAL REQUIREMENTS

1. In accordance with 45CSR30 - "Operating Permit Program", the permittee shall not operate nor cause to operate the permitted facility or other associated facilities on the same or contiguous sites comprising the plant without first filing a Certified Emissions Statement (CES) and paying the appropriate fee. Such Certified Emissions Statement (CES) shall be filed and the appropriate fee paid annually. 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.
2. 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.
3. The permitted facility shall be constructed and operated in accordance with information filed in Permit Application R13-2423, R13-2423A, R13-2423B, and any 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.
4. At such reasonable time(s) as the Secretary may designate, the permittee shall conduct or have conducted test(s) to determine compliance with the emission limitations established in the permit application and/or applicable regulations. Test(s) shall be conducted in such a manner as the Secretary may specify or approve and shall be filed in a manner acceptable to the Secretary. The Secretary, or his/her duly authorized representative, may at his option witness or conduct such test. Should the Secretary exercise his option to conduct such test(s), the permittee shall provide all the 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. For any tests to be conducted by the permittee, a test protocol shall be submitted to the DAQ by the permittee at least thirty (30) days prior to the test and shall be approved by the Secretary. The Secretary shall be notified at least fifteen (15) days in advance of the actual dates and times during which the test will be conducted.

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Berkeley Springs Facility

5. In the event the permittee should deem it necessary to suspend, for a period in excess of sixty (60) consecutive calendar days, the operations, either in whole or in part, 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.
6. 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.
7. The permittee shall notify the Secretary, in writing, within fifteen (15) calendar days of the commencement of the construction, modification, or relocation activities authorized under this permit.
8. The permittee shall notify the Secretary, in writing, at least fifteen (15) calendar days prior to actual startup of the operations authorized under this permit.
9. This permit is transferable in accordance with the requirements outlined in Section 10.1 of 45CSR13.
10. 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.
11. At such time(s) as the Secretary may designate, the permittee herein shall prepare and submit an emission inventory for the previous calendar 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 submittal frequency other than on an annual basis.

ISSUED BY:



WILLIAM F. DURHAM, DIRECTOR
WV DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY

DATE SIGNED:

7-25-2017

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