



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

MISSOURI AIR CONSERVATION COMMISSION

PERMIT TO CONSTRUCT

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to construct the air contaminant source(s) described below, in accordance with the laws, rules and conditions as set forth herein.

Permit Number: 072020-006 Project Number: 2020-05-048
Installation ID: PORT-0816

Parent Company: JOROCK LLC

Parent Company Address: 3697 County Road 136, Bolckow, MO 64427

Installation Name: Knorr Quarry

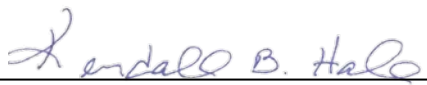
Installation Address: 13162 County Road 187, Savannah, MO 64485

Location Information: Andrew County, S34,35 T60N R35W

Application for Authority to Construct was made for:
New portable rock crusher. This review was conducted in accordance with Section (5),
Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*.

Standard Conditions (on reverse) are applicable to this permit.

Standard Conditions (on reverse) and Special Conditions are applicable to this permit.



Director or Designee
Department of Natural Resources

July 14, 2020
Effective Date

STANDARD CONDITIONS:

Permission to construct may be revoked if you fail to begin construction or modification within two years from the effective date of this permit. Permittee should notify the Enforcement and Compliance Section of the Air Pollution Control Program if construction or modification is not started within two years after the effective date of this permit, or if construction or modification is suspended for one year or more.

You will be in violation of 10 CSR 10-6.060 if you fail to adhere to the specifications and conditions listed in your application, this permit and the project review. In the event that there is a discrepancy between the permit application and this permit, the conditions of this permit shall take precedence. Specifically, all air contaminant control devices shall be operated and maintained as specified in the application, associated plans and specifications.

You must notify the Enforcement and Compliance Section of the Department's Air Pollution Control Program of the anticipated date of start up of this (these) air contaminant source(s). The information must be made available within 30 days of actual startup. Also, you must notify the Department's regional office responsible for the area within which you are located within 15 days after the actual start up of this (these) air contaminant source(s).

A copy of the permit application and this permit and permit review shall be kept at the installation address and shall be made available to Department's personnel upon request.

You may appeal this permit or any of the listed special conditions to the Administrative Hearing Commission (AHC), P.O. Box 1557, Jefferson City, MO 65102, as provided in RSMo 643.075.6 and 621.250.3. If you choose to appeal, you must file a petition with the AHC within 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed. If it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC.

If you choose not to appeal, this certificate, the project review and your application and associated correspondence constitutes your permit to construct. The permit allows you to construct and operate your air contaminant source(s), but in no way relieves you of your obligation to comply with all applicable provisions of the Missouri Air Conservation Law, regulations of the Missouri Department of Natural Resources and other applicable federal, state and local laws and ordinances.

The Air Pollution Control Program invites your questions regarding this air pollution permit. Please contact the Construction Permit Unit using the contact information below.

Contact Information:
Missouri Department of Natural Resources
Air Pollution Control Program
P.O. Box 176
Jefferson City, MO 65102-0176
(573) 751-4817

The regional office information can be found at the following website:
<http://dnr.mo.gov/regions/>

GENERAL SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

The special conditions listed in this permit were included based on the authority granted to the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.060). For specific details regarding conditions, see 10 CSR 10-6.060 paragraph (3)(E). "Conditions required by permitting authority."

1. **Equipment Identification Requirement**
Knorr Quarry shall maintain easily read permanent markings on the crusher, screen and conveyors of the plant as listed in Table 1 in the Table Section of this permit. These markings shall be the equipment's serial number or a company assigned identification number that uniquely identifies the individual component. These identification numbers must be submitted to the Air Pollution Control Program no later than 15 days after start-up of the portable rock crushing plant.
2. **Relocation of Portable Rock Crushing Plant**
 - A. Knorr Quarry shall not be operated at any location longer than 24 consecutive months except if the Site Specific Special Conditions of this portable plant, PORT-0816, contain a nonroad engine requirement limiting the portable plant at the site specific location to 12 consecutive months.
 - B. A complete "Portable Source Relocation Request" application must be submitted to the Air Pollution Control Program prior to any relocation of this portable rock crushing plant.
 - 1) If the portable rock crushing plant is moving to a site previously permitted, and if the circumstances at the site have not changed, then the application must be received by the Air Pollution Control Program at least seven days prior to the relocation.
 - 2) If the portable rock crushing plant is moving to a new site, or if circumstances at the site have changed (e.g. the site was only permitted for solitary operation and now another plant is located at the site), then the application must be received by the Air Pollution Control Program at least 21 days prior to the relocation. The application must include written notification of any concurrently operating plants.
3. **Record Keeping Requirement**
Knorr Quarry shall maintain all records required by this permit for not less than five years and shall make them available to any Missouri Department of Natural Resources' personnel upon request.
4. **Reporting Requirement**
Knorr Quarry shall report to the Air Pollution Control Program Compliance/Enforcement Section by mail at P.O. Box 176, Jefferson City, MO 65102 or by e-mail at AirComplianceReporting@dnr.mo.gov, no later than 10 days after any exceedances of the limitations imposed by this permit.

SITE SPECIFIC SPECIAL CONDITIONS:

The permittee is authorized to construct and operate subject to the following special conditions:

The special conditions listed in this permit were included based on the authority granted the Missouri Air Pollution Control Program by the Missouri Air Conservation Law (specifically 643.075) and by the Missouri Rules listed in Title 10, Division 10 of the Code of State Regulations (specifically 10 CSR 10-6.060). For specific details regarding conditions, see 10 CSR 10-6.060 paragraph (3)(E). "Conditions required by permitting authority."

PORT ID Number: PORT-0816

Site ID Number: 003-0021

Site Name: Knorr Quarry

Site Address: 13162 County Road 187, Savannah, MO 64485

Site County: Andrew S34,35 T60N R35W

1. Annual Emission Limit
 - A. Knorr Quarry shall emit less than 15.0 tons of PM₁₀ in any consecutive 12-month rolling period from the entire installation which consists of the equipment listed in Table 1 in the Table Section of this permit. Knorr Quarry shall include all actual emissions in the limit including SSM emissions as well as any excess SSM emissions as reported to the Air Pollution Control Program's Compliance/Enforcement Section in accordance with the requirements of 10 CSR 10-6.050 *Start-Up, Shutdown, and Malfunction Conditions*.
 - B. Knorr Quarry shall demonstrate compliance with Special Condition 1.A using Attachment A or another equivalent form that has been approved by the Air Pollution Control Program, including an electronic form.
2. Undocumented Watering Requirement
Knorr Quarry shall apply a water spray on all haul roads and vehicular activity areas whenever conditions exist that would allow visible emissions from these sources to leave the property.
3. Unprocessed Rock Requirement
Any rock that is not processed through the crusher (EP-2), including shot rock or rip-rap, shall use the composite emission factor of 0.2117 lb/ton to calculate PM₁₀ emissions. These emissions shall be included in the PM₁₀ limitation stated in Special Condition 1.
4. Record Keeping Requirement
Knorr Quarry shall maintain all records required by this permit for not less than five years and make them available to any Missouri Department of Natural Resources' personnel upon request.
5. Reporting Requirement
Knorr Quarry shall report to the Air Pollution Control Program, Compliance / Enforcement Section by mail to P.O. Box 176, Jefferson City, MO 65102 or by email at AirComplianceReporting@dnr.mo.gov, no later than 10 days after any exceedances of the limitations imposed by this permit.

REVIEW OF APPLICATION FOR AUTHORITY TO CONSTRUCT AND OPERATE
SECTION (5) REVIEW

Project Number: 2020-05-048
Installation ID Number: PORT-0816
Permit Number: 072020-006

Knorr Quarry:
13162 County Road 187
Savannah, MO 64485

Complete: May 26, 2020

Parent Company:
JOROCK LLC
3697 County Road 136
Bolckow, MO 64427

Andrew County, S34,35 T60N R35W

PROJECT DESCRIPTION

JOCOCK LLC is constructing a new portable rock crushing plant to be initially located in a new open pit quarry in Savannah, Missouri, herein referred to as Knorr Quarry. The new portable rock crushing plant PORT-0816 will be a track mounted TESAB Model 1012TS with the capacity of processing aggregate up to 350 tons per hour. It will be powered by a 440 HP CAT C13 diesel engine. The CAT engine that is used to provide power to the track mounted crusher serves a dual purpose by both propelling itself and providing power to the crusher, screen, and conveyors. Therefore, it meets the definition of a nonroad engine as stated in 40 CFR 89.2 (1)(i) and the engine emissions were not included in the calculations.

This installation is located in Andrew County, an attainment/unclassifiable area for all criteria pollutants.

This installation is not on the List of Named Installations found in 10 CSR 10-6.020(3)(B), Table 2. The installation's major source level is 250 tons per year and fugitive emissions are not counted toward major source applicability.

No permits have been issued to Knorr Quarry from the Air Pollution Control Program.

TABLES

Table 1: Equipment List

Emission Point	Equipment Type	MHDR	Maximum Number of Units
EP-01	Truck to Grizzly Feeder	350 tons per hour	1
EP-02	Grizzly Feeder	350 tons per hour	1
EP-03	Primary Crusher	350 tons per hour	1
EP-04	Primary Screen	350 tons per hour	1
EP-05	Conveyors (up to 2 in series)	700 tons per hour	2
EP-06	Underconveyor	350 tons per hour	1
EP-07a	Storage Pile Load-in	350 tons per hour	1
EP-07b	Storage Pile Load-out	350 tons per hour	1
EP-07c	Vehicular Activity	1.47 VMT/hr	100 feet
EP-07d	Wind Erosion	7 acres	7 acres
EP-08	Pit Haul Road	17.50 VMT/hr	3,960 feet
EP-09	Customer Haul Road	19.98 VMT/hr	4,522 feet

The table below summarizes the emissions of this project. The potential emissions of the process equipment, which excluded emissions from haul roads and wind erosion, are not site specific and should not vary from site to site. There are no existing actual emissions since this is a new portable plant. The potential emissions of the application represent the emissions of all equipment and activities assuming continuous operation (8760 hours per year). The conditioned potential emissions include emissions from sources that will limit their production to ensure compliance with the voluntary de minimis PM₁₀ annual emission limit to avoid dispersion modeling requirements found in 10 CSR 10-6.060 Section (5).

Table 2: Emissions Summary (tons per year)

Air Pollutant	De Minimis Level/SMAL	^a Potential Emissions of Process Equipment	Existing Actual Emissions	^b Potential Emissions of the Application	Conditioned Potential Emissions
PM	25.0	55.80	N/A	1,049.40	48.51
PM ₁₀	15.0	20.39	N/A	324.46	15.00
PM _{2.5}	10.0	2.54	N/A	39.98	1.85
SO _x	40.0	N/D	N/A	N/D	N/D
NO _x	40.0	N/D	N/A	N/D	N/D
VOC	40.0	N/D	N/A	N/D	N/D
CO	100.0	N/D	N/A	N/D	N/D
Total HAPs	25.0	N/D	N/A	N/D	N/D

N/A = Not Applicable; N/D = Not Determined

^aExcludes site specific haul road and storage pile emissions

^bIncludes site specific haul road and storage pile emissions

EMISSIONS CALCULATIONS

Emissions for the project were calculated as described below and using emission factors found in the United States EPA document AP-42 *Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources*, Fifth Edition (AP-42).

Emissions from the rock-crushing equipment:

- Calculated using emission factors from AP-42 Section 11.19.2 “Crushed Stone Processing and Pulverized Mineral Processing,” August 2004.
- The uncontrolled emission factors were used because the inherent moisture content of the crushed rock is less than 1.5 % by weight.

Emissions from haul roads and vehicular activity areas:

- Calculated using the predictive equation from AP-42 Section 13.2.2 “Unpaved Roads,” November 2006.
- A 50% control efficiency for PM and PM₁₀ and a 41% control efficiency for PM_{2.5} were applied to the emission calculations for the use of undocumented watering.

Emissions from storage piles:

- Load-in and load-out of storage piles were calculated using the predictive equation from AP-42 Section 13.2.4 “Aggregate Handling and Storage Piles,” November 2006.
- The moisture content of the aggregate is 0.7% by weight.
- Emissions from wind erosion of storage piles were calculated using an equation found in the Air Pollution Control Program’s Emissions Inventory Questionnaire Form 2.8 “Storage Pile Worksheet.”

PERMIT RULE APPLICABILITY

This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of PM₁₀ are conditioned to de minimis levels. Potential emissions of PM are above de minimis levels, but below major levels.

APPLICABLE REQUIREMENTS

Knorr Quarry shall comply with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting requirements. Compliance with these emission standards, based on information submitted in the application, has been verified at the time this application was approved.

GENERAL REQUIREMENTS

- *Submission of Emission Data, Emission Fees and Process Information*, 10 CSR 10-6.110.
- No Operating Permit is required for this installation.
- *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin*, 10 CSR 10-6.170
- *Restriction of Emission of Visible Air Contaminants*, 10 CSR 10-6.220
- *Restriction of Emission of Odors*, 10 CSR 10-6.165

SPECIFIC REQUIREMENTS

- 40 CFR 60 Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants" applies to the equipment. See attached Test Plan at the end of this permit.
- None of the National Emission Standards for Hazardous Air Pollutants (NESHAPS) or National Emission Standards for Hazardous Air Pollutants for Source Categories (MACTS) apply to the proposed equipment.

STAFF RECOMMENDATION

On the basis of this review conducted in accordance with Section (5), Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*, it is recommended that this permit be granted with special conditions.

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated May 20, 2020, received May 26, 2020, designating JOROCK LLC as the owner and operator of the installation.



Missouri Department of dnr.mo.gov

NATURAL RESOURCES

Michael L. Parson, Governor

Carol S. Comer, Director

July 14, 2020

Donald Potter
Member
Knorr Quarry
13162 County Road 187
Savannah, MO 64485

RE: New Source Review Permit - Project Number: 2020-05-048

Dear Donald Potter:

Enclosed with this letter is your permit to construct. Please study it carefully and refer to Appendix A for a list of common abbreviations and acronyms used in the permit. Also, note the special conditions on the accompanying pages. The document entitled, "Review of Application for Authority to Construct," is part of the permit and should be kept with this permit in your files. Operation in accordance with these conditions and your new source review permit application are necessary for continued compliance. In addition, please note that Knorr Quarry cannot operate with any other plants that have ambient impact limits based on the Air Pollution Control Program's nomographs. Please refer to the permits of any plant that you are operating with to see if their respective permits contain an ambient impact limit. The reverse side of your permit certificate has important information concerning standard permit conditions and your rights and obligations under the laws and regulations of the State of Missouri.

This permit may include requirements with which you may not be familiar. If you would like the department to meet with you to discuss how to understand and satisfy the requirements contained in this permit, an appointment referred to as a Compliance Assistance Visit (CAV) can be set up with you. To request a CAV, please contact your local regional office or fill out an online request. The regional office contact information can be found at the following website: <http://dnr.mo.gov/regions/>. The online CAV request can be found at <http://dnr.mo.gov/cav/compliance.htm>.

If you were adversely affected by this permit decision, you may be entitled to pursue an appeal before the administrative hearing commission pursuant to Sections 621.250 and 643.075.6 RSMo. To appeal, you must file a petition with the administrative hearing commission within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the administrative hearing commission,



Donald Potter
Page Two

whose contact information is: Administrative Hearing Commission, United States Post Office Building, 131 West High Street, Third Floor, P.O. Box 1557, Jefferson City, Missouri 65102, phone: 573-751-2422, fax: 573-751-5018, website: www.ao.mo.gov/ahc.

If you have any questions regarding this permit, please do not hesitate to contact Kathy Kolb, at the department's Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or at (573) 751-4817. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

A handwritten signature in blue ink, appearing to read "S Heckenkamp".

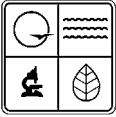
Susan Heckenkamp
New Source Review Unit Chief

SH:kka

Enclosures

c: Kansas City Regional Office
PAMS File: 2020-05-048

Permit Number: 072020-006



MISSOURI DEPARTMENT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM
PERFORMANCE TEST PLAN

Submit complete form and all attachments to:
Missouri Department of Natural Resources
Air Pollution Control Program, Enforcement Section
P.O. Box 176, Jefferson City, MO 65102

DATE SUBMITTED

ATTENTION

PROPOSED TEST DATE

Test date must be agreed to by Air Pollution Control Program.

1. FACILITY INFORMATION

NAME

ADDRESS

CITY

STATE

ZIP CODE

CONTACT PERSON

TITLE

TELEPHONE NUMBER WITH AREA CODE

CELL PHONE NUMBER

2. AIR POLLUTION SOURCE TO BE TESTED

TYPE OF FACILITY/SOURCE

PERMIT NUMBER

FIPS/PLANT ID

PORT NUMBER

ADDRESS

DIRECTIONS TO SOURCE (OR ATTACH MAP)

INITIAL START-UP DATE

REASON FOR TEST

- Condition of Permit Consent Agreement
 Administrative Order Other (specify)

3. TESTING FIRM INFORMATION

NAME OF FIRM

ADDRESS

CITY

STATE

ZIP CODE

CONTACT PERSON

CONTACT PERSON TITLE

TELEPHONE NUMBER WITH AREA CODE

CELL PHONE NUMBER

NUMBER OF EMPLOYEES OF FIRM	NUMBER OF EMPLOYEES ENGAGED IN AIR POLLUTION SOURCE TESTING
Attach organizational chart with names and titles of personnel.	

780-XXXX (03-11)

LOCATION AND DESCRIPTION OF LABORATORY FACILITIES

SUBCONTRACTOR(S) UTILIZED BY FIRM FOR SOURCE TESTING ACTIVITIES

NUMBER OF AIR POLLUTION SOURCES PREVIOUSLY TESTED BY FIRM	SOURCES TESTED BY FIRM IN PAST THREE YEARS (SOURCE, TEST, DATE)
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4. PERFORMANCE TEST INFORMATION

	Pollutant	No. of Sampling Points	Total Time per Test Run	No. of Test Runs	Test Method to be Used
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					

5. AUDIT INFORMATION

Method	Specific analyte	Expected sample concentration	Sample matrix and audit matrix (if different)	Audit sample concentration requested	Audit provider

6. AUDIT PROVIDER INFORMATION

PROVIDER NUMBER ONE

ADDRESS

CITY	STATE	ZIP CODE
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NAME OF CONTACT PERSON	TITLE
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PHONE NUMBER WITH AREA CODE	FAX NUMBER WITH AREA CODE
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PROVIDER NUMBER TWO

ADDRESS

CITY	STATE	ZIP CODE
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NAME OF CONTACT PERSON	TITLE
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PHONE NUMBER WITH AREA CODE	FAX NUMBER
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7. LABORATORY INFORMATION

NAME

ADDRESS

CITY	STATE	ZIP CODE
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CONTACT PERSON	TITLE OF CONTACT PERSON
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PHONE NUMBER WITH AREA CODE FOR CONTACT PERSON	FAX NUMBER WITH AREA CODE FOR CONTACT PERSON
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QUALITY CERTIFICATION

 Certifying entity one:
 Procedures/methods certified:

 Certifying entity two:
 Procedures/methods certified:

 Certifying entity three:
 Procedures/methods certified:

DUCT TO BE SAMPLED	Sketch of Stack or Duct with Port Locations & Distances Shown [NOTE Cyclonic flow must be measured by instrument and shown to be within allowable limits prior to initiation of sampling.] If sampling location is downstream from an axial flow fan, installation of a flow straightening device will probably be necessary to meet cyclonic flow criterion.									
DUCT DIMENSIONS From inside far wall to outside of port Nipple length Depth (or diameter) of duct Width (rectangular duct)										
RECTANGULAR STACK EQUIVALENT DIAMETER $D_e = \frac{2 \times \text{Depth} \times \text{Width}}{\text{Depth} + \text{Width}} = \frac{2(\quad) (\quad)}{(\quad) + (\quad)}$										
DISTANCE FROM NEAREST FLOW DISTURBANCE TO PORTS										
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;"></td> <td style="width:35%; text-align:center;">Upstream (A)</td> <td style="width:35%; text-align:center;">Downstream (B)</td> </tr> <tr> <td style="text-align:center;">Distance</td> <td></td> <td></td> </tr> <tr> <td style="text-align:center;">Diameters</td> <td></td> <td></td> </tr> </table>			Upstream (A)	Downstream (B)	Distance			Diameters		
		Upstream (A)	Downstream (B)							
Distance										
Diameters										
Stack Area =										
CALCULATED BY										

TRAVERSE POINTS REFERENCE TABLES

LOCATION OF TRAVERSE POINTS IN RECTANGULAR STACKS												LOCATION OF TRAVERSE POINTS IN CIRCULAR STACKS													
	2	3	4	5	6	7	8	9	10	11	12		4	6	8	10	12	14	16	18	20	22	24		
1	25	16.7	12.5	10	8.3	7.1	6.3	5.6	5	4.5	4.2	1	6.7	4.4	3.2	2.6	2.1	1.8	1.6	1.4	1.3	1.1	1.1		
2	75	50	37.5	30	25	21.4	18.8	16.7	15	13.8	12.5	2	25	14.6	10.5	8.2	6.7	5.7	4.9	4.4	3.9	3.5	3.2		
3		83.3	62.5	50	41.7	35.7	31.3	27.8	25	22.7	20.8	3	75	29.6	19.4	14.6	11.8	9.9	8.5	7.5	6.7	6	5.5		
4			87.5	70	58.3	50	43.8	38.9	35	31.8	29.2	4	93.3	70.4	32.3	22.6	17.7	14.6	12.5	10.9	9.7	8.7	7.9		
5				90	75	64.3	56.3	50	45	40.9	37.5	5		85.4	67.7	34.2	25	20.1	16.9	14.6	12.9	11.6	10.5		
6					91.7	78.6	68.8	61.1	55	50	45.8	6		95.6	80.6	65.8	35.6	26.9	22	18.8	16.5	14.6	13.2		
7						92.9	81.3	72.2	65	59.1	54.2	7			89.5	77.4	64.4	36.8	28.3	23.6	20.4	18	16.1		
8							93.8	83.2	75	68.2	62.5	8			96.8	85.4	75	63.4	37.5	29.6	25	21.8	19.4		
9								94.4	85	77.3	70.8	9				91.8	82.3	73.1	62.5	38.2	30.6	26.2	23		
10									95	86.4	79.2	10					97.4	88.2	79.9	71.7	61.8	38.8	31.5	27.2	
11										95.5	87.5	11						93.3	85.4	78	70.4	61.2	39.3	32.3	
12											95.8	12							97.9	90.1	83.1	76.4	69.4	60.7	39.8

7. SAMPLE LOCATION & TRAVERSE POINT INFORMATION (CONTINUED)

Point	Percent of Stack I.D.	Stack I.D.	Distance from Outside Wall	Nipple Length	Distance from Outside of Port

8. TEST PROCEDURES AND EQUIPMENT

A. SAMPLING EQUIPMENT INFORMATION

Include manufacturer and model of the sampling equipment to be used by the tester for the performance tests, along with a description of any equipment which may differ from that required by the specified method(s).

B. TEST PROCEDURES

Describe test procedures to be used in the conduct of the performance tests which may differ from the specified method(s).

C. ANALYTICAL PROCEDURES

Describe analytical procedures which differ from the specified method(s).

D. DATA SHEETS

Include a sample of all field data sheets which do not provide the data shown on the example sheets in 40 CFR 60 for the specified method(s).

E. AIR POLLUTION CONTROL EQUIPMENT

Types and manufacturers of all control equipment

Design or guarantee efficiency

Design gas volume at full load (actual cubic feet per minute, or acfm)

Design pressure drop

Maintenance schedule and method of record keeping

9. EMISSION SOURCE PROCESS/OPERATION – GENERIC

Provide a full description of the process/operation being tested for air emissions.

A. CHARACTERIZATION OF PLANT/EQUIPMENT/PROCESS

B. MANUFACTURER, MODEL AND SERIAL NUMBERS OF ALL MAJOR COMPONENTS

C. RATED PROCESS/PRODUCTION CAPACITY

D. NORMAL PROCESS/PRODUCTION CAPACITY

E. NATURE AND RELATIVE PERCENT OF RAW MATERIAL INPUT TO PROCESS

F. PRODUCT(S) – WITH REALTIVE PERCENT IF MORE THAN ONE

G. TYPE(S) OF FUEL

CONSUMPTION RATE

H. NORMAL OPERATING SCHEDULE

I. Attach a process flow diagram.

9-3. NONMETALLIC MINERAL PROCESSING PLANT [NSPS Subpart 000] - SPECIFIC

Describe each processing plant and all affected facilities in the associated production line (40 CFR 60.671).

A. GENERAL CHARACTERIZATION OF PROCESSING PLANT

B. NONMETALLIC MINERAL(S) BEING PROCESSED

C. MAXIMUM RATED DESIGN CAPACITY OF PLANT'S PRODUCTION LINE
tons/hour

MAXIMUM EXPECTED PRODUCTION RATE FOR COMPLIANCE TEST
tons/hour

D. Fixed plant Portable plant

E. PRODUCT(S)

F. AFFECTED FACILITIES (EQUIPMENT) TO BE TESTED

Affected Facility	Manufacturer	Date	Model	Serial number	Size	Plant I Number

G. TOTAL NUMBER OF FUGITIVE EMISSION POINTS TO BE OBSERVED

H. TOTAL NUMBER OF CONTROL DEVICE STACKS AND/OR BUILDING VENT EMISSION POINTS TO BE TESTED

Method 5 or Method 17
(Note 60 DSCF is the minimum sample volume to be collected)

I. NUMBER OF BUILDINGS ENCLOSING AFFECTED FACILITIES AND REQUIRING EPA METHOD 9 OBSERVATIONS

J. NORMAL OPERATING SCHEDULE (HRS/ DAY, DAYS/WK, WKS/YR)

780-XXXX (03-11)

K. Attach process flow diagram, including all affected facilities and control devices.

PROCEDURAL NOTES

1. Testing is to be done on nonmetallic mineral processing of a **fresh blast**. (e.g. rain-soaked material can result in negative-biased test results and subsequent violation notices when emissions increase later from dry material).
2. Nonmetallic mineral shall be processed at its **maximum production rate**, +/- 10 percent; otherwise production is limited to the rate at which compliance with regulations was demonstrated. A record of throughput production tonnage shall be kept during testing so that the ton/hour production rate may be determined.
3. Fugitive emission opacity read by EPA Method 9 **must** be observed for a duration of **30 minutes**
4. Each piece of equipment, or affected facility, shall be identifiable by a unique Serial and/or Plant Identification Number at the time of the *NSPS OOO* compliance test. The displayed numeral(s) shall remain a permanent means of identifying facilities throughout their history of ownership.
5. Two copies of the final report of the test results shall be provided to the coordinating regulatory agency within 30 days of the completion of the compliance test.

SOURCE TESTING REPORT FORMAT

COVER

- Plant name and location
- Source sampled
- Testing company or agency, name, and address

CERTIFICATION

- Certification by team leader
- Certification by reviewer (e.g. Professional Engineer)

INTRODUCTION

- Test purpose
- Test location, type of process
- Test dates
- Pollutants tested
- Observers' names (industry and agency)
- Any other important background information

SUMMARY OF RESULTS

- Emission results
- Process data, as related to determination of compliance
- Control device parameter data summary
- Allowable emissions
- Description of collected samples
- Visible emissions summary
- Discussion of errors, both real and apparent

SOURCE OPERATION

- Description of process and control device
- Process and control equipment flow diagram
- Process data and results, with example calculations for one test run
- Representatives of raw materials and products
- Any specially required operation demonstrated

SAMPLING and ANALYSIS PROCEDURES

- Sampling port location and dimensioned cross section
- Sampling port description, including labeling system
- Sampling train description
- Brief description of sampling procedures, with discussion of deviations from standard methods
- Brief description of analytical procedures, with discussion of deviations from standard methods

APPENDIX

- Complete results with example calculations for one test run
- Raw field data (original, not computer printouts)
- Control device parameter data
- Process production data
- Laboratory report, with chain of custody
- Test log
- Calibration procedures and results
- Project participants and titles
- Related correspondence