

Permit to Modify



R13- 2086C

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:

Bardon, Inc.
(dba Aggregate Industries – MAR)
Keplinger Quarry
023-00006

John A. Benedict
Director

Issued: DRAFT • Effective: DRAFT

This permit will supercede and replace Permit R13-2086B.

Facility Location: Maysville, Grant County, West Virginia
Mailing Address: 6401 Golden Triangle Drive, Suite 400, Greenbelt, MD 20770
Facility Description: Portable Crushing and Screening Facility
NAICS Codes: 212312
UTM Coordinates: 655.609 km Easting • 4,326.739 km Northing • Zone 17
Permit Type: Modification
Description of Change: Include engines omitted in the original permit application and update the facilities potential to emit (PTE). It should be noted that the equipment IDs are changing from the existing permit. The facility will continue crushing and screening operations at 500 tons per year. The annual throughput is being increased from 500,000 tons per year to 1,000,000 tons per year. The Terex Pegson 1300 MXT crusher and Terex Powerscreen 1800 screen and associated equipment are increased to 2,000,000 tons per year for processing recycled material.

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 not subject to 45CSR30.

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1.0. Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
Metso LokoTrack LT3054: Primary Jaw					
H1	H1	Hopper	2004	500 TPH	PE
G1	G1	Grizzly Feeder	2004	500 TPH	PE
BC1	BC1	Belt Conveyor No. 1	2004	500 TPH	None
BC2	BC2	Belt Conveyor No. 2	2004	500 TPH	None
CR1	CR1	Primary Jaw Crusher	2004	500 TPH	FE
ENG-CR1	ENG-E1	Caterpillar C-13, Tier III	2004	475 bhp	None
Terex Pegson 1300 MXT: Secondary Cone Crusher					
H2	H2	Hopper	2007	300 TPH	FE
BC3	BC3	Belt Conveyor No. 3	2007	300 TPH	None
BC4	BC4	Belt Conveyor No. 4	2007	300 TPH	None
CR2	CR2	Secondary Crusher	2007	300 TPH	FE
ENG-CR2	ENG-E2	Caterpillar C-13, Tier III	2007	440 bhp	None
Terex Powerscreen Cheiftan 1800: Two Deck Screen					
H3	H3	Hopper	2004	500 TPH	PE
BC5	BC5	Belt Conveyor No. 5	2004	500 TPH	None
BC6	BC6	Belt Conveyor No. 6	2004	500 TPH	None
BC8	BC8	Belt Conveyor No. 8	2004	500 TPH	None
BC9	BC9	Belt Conveyor No. 9	2004	500 TPH	None
1S	1S	2 Deck Screen	2004	500 TPH	PE
ENG-1S	ENG-E3	Deutz BF4M2012, Tier I	2004	101.9 bhp	None
Metso LokoTrack ST620: Three Deck Screen					
H4	H4	Hopper	2006	300 TPH	PE
BC10	BC10	Belt Conveyor No. 10	2006	300 TPH	None
BC11	BC11	Belt Conveyor No. 11	2006	300 TPH	None
BC13	BC13	Belt Conveyor No. 13	2006	300 TPH	None
BC14	BC14	Belt Conveyor No. 14	2006	300 TPH	None
BC15	BC15	Belt Conveyor No. 15	2006	300 TPH	None
2S	2S	3 Deck Screen	2006	300 TPH	FE
ENG-2S	ENG-E4	Caterpillar 3056E, Tier II	2006	120 bhp	None
Portable Belt Conveyors					
BC7	BC7	Belt Conveyor No. 7	N/A	300 TPH	None
BC12	BC12	Belt Conveyor No. 12	N/A	300 TPH	None

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
ENG-BC	ENG-E5	Caterpillar 3412	1978	750 bhp	None
Stockpiles					
OS1	OS1	Open Stockpiles	N/A	N/A	None
OS2	OS2	Open Stockpiles	N/A	N/A	None

FE – Full Enclosure
PE – Partial Enclosure

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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	NO_x	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	PM₁₀	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	Ppm_v 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	SO₂	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 Act 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;*

2.4. Term and Renewal

- 2.4.1. This permit supersedes and replaces previously issued Permit R13-2086C. 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 R13-2086, R13-2086A, R13-2086B, R13-2086C, 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; and
- 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 45CSR22 – Air Quality Management Fee 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 obtaining and having in current effect a Certificate to Operate (CTO). Such Certificate to Operate (CTO) shall be renewed annually, shall be maintained on the premises for which the certificate 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.

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4.0. Source-Specific Requirements (Limestone Processing Equipment)

4.1. Limitations and Standards

- 4.1.1. **Minor Source of Hazardous Air Pollutants (HAP).** HAP emissions from the facility shall be less than 10 tons/year of any single HAP or 25 tons/year of any combination of HAPs. Compliance with this Section shall ensure the facility is a minor HAP source.
- 4.1.2. **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.]
- 4.1.3. **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.
- 4.1.4. **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.
- 4.1.5. **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.

5.0. Source-Specific Requirements (Limestone Processing Equipment)

5.1. Limitations and Standards

5.1.1. In accordance with the information filed in amended Permit Application R13-2086C, the following equipment, maximum throughput, and methods of control shall be installed and maintained, and operated so as to minimize particulate matter (PM/PM10) emissions.

Metso LokoTrack LT3054 Jaw Crusher			
Source	Maximum Throughput Limestone		Method of Control
	tons/hr	tons/yr	
TP1 Transfer Point	500	1,000,000	Minimize Drop (MD)
TP2 Transfer Point	500	1,000,000	Water Sprays (WS)
TP3 Transfer Point	500	0	Partial Enclosure (PE)
TP4 Transfer Point	500	0	Water Sprays (WS)
TP5 Transfer Point	500	1,000,000	Partial Enclosure (PE)
TP6 Transfer Point	500	1,000,000	Water Sprays (WS)
CR1 Crusher	500	1,000,000	Full Enclosure (FE)
Terex Pegson 1300 MXT Cone Crusher			
TP7 Transfer Point	300	2,000,000	None
TP8 Transfer Point	300	2,000,000	Water Sprays (WS)
TP9 Transfer Point	300	2,000,000	Partial Enclosure (PE)
TP10 Transfer Point	300	2,000,000	Water Sprays (WS)
CR2 Crusher	300	2,000,000	Full Enclosure (FE)
Terex Chieftain 1800 Screen			
TP11 Transfer Point	500	2,000,000	None
TP12 Transfer Point	500	2,000,000	None
TP13 Transfer Point	500	1,000,000	None
TP14 Transfer Point	500	1,000,000	None
TP16 Transfer Point	500	1,000,000	None
TP17 Transfer Point	500	1,000,000	None

TP18 Transfer Point	500	0	None
TP19 Transfer Point	500	0	Water Sprays (WS)
1S Screen	500	2,000,000	Full Enclosure (FE)
Metso LokoTrack ST620 Screen			
TP20 Transfer Point	300	1,000,000	None
TP21 Transfer Point	300	1,000,000	None
TP22 Transfer Point	300	1,000,000	None
TP23 Transfer Point	300	1,000,000	None
TP25 Transfer Point	300	0	None
TP26 Transfer Point	300	0	None
TP27 Transfer Point	300	0	None
TP28 Transfer Point	300	0	Water Sprays (WS)
TP29 Transfer Point	300	0	None
TP30 Transfer Point	300	0	None
2S Screener	300	1,000,000	Full Enclosure (FE)
Portable Belt Conveyors			
TP15 Transfer Points	300	1,000,000	None
TP24 Transfer Points	300	1,000,000	None
Open Stockpile			
OS1 Open Stockpile (4.8 acres)	-	-	None
OS2 Open Stockpile (0.6 acres)	-	-	None

- 5.1.2. The maximum amount of limestone to be processed in the Metso LokoTrack LT3054: Primary Jaw shall not exceed 500 tons per hour and 1,000,000 tons per year.
- 5.1.3. The maximum amount of limestone to be processed in the Terex Pegson 1300 MXT Cone Crusher shall not exceed 300 tons per hour and 2,000,000 tons per year.
- 5.1.4. The maximum amount of limestone to be processed in the Terex Chieftain 1800 Screen shall not exceed 500 tons per hour and 2,000,000 tons per year.
- 5.1.5. The maximum amount of limestone to be processed in the Metso LokoTrack ST620 Screen shall not exceed 300 tons per hour and 1,000,000 tons per year.
- 5.1.6. The maximum amount of limestone to be processed in the Portable Belt Conveyors shall not exceed 300 tons per hour and 1,000,000 tons per year.

- 5.1.7. Fugitive Dust Control of Premises: The permittee shall adequately maintain and operate on-site: (1) a water truck, or (2) a fixed system of water sprays, or (3) a combination of a water truck and a fixed system of water sprays to minimize the emission of particulate matter generated from access roads, haulroads, open storage piles and work areas. Any fixed water spray system shall be no less effective than a water truck in minimizing fugitive particulate emissions from the area under control. The water truck and/or fixed water spray system shall be operated at all times when fugitive particulate emissions from access roads, haulroads, open storage piles and work areas are generated as a result of vehicular traffic, operational activity or wind. All water trucks and fixed water sprays shall be equipped with a pump and spraybars to apply water or a mixture of water and an environmentally acceptable dust control additive (solution) to access roads, haulroads, open storage piles and work areas where mobile equipment is used. Spraybars shall be equipped with commercially available spray nozzles of sufficient size and number so as to provide adequate coverage to the area being treated. The pump and piping system used to deliver the water or solution shall be of sufficient size and capacity to deliver an adequate quantity of water or solution to the spray nozzles at a sufficient pressure to provide an effective spray.

The permittee shall properly install, operate and maintain designed winterization systems for all water trucks and/or water sprays in a manner that all fugitive dust control systems remain effective and functional, to the maximum extent practicable, during winter months and cold weather.

- 5.1.8. Haulroad Maintenance: All haulroad, access roads, open storage piles and work areas shall be kept clean and in good condition by replacing base material and/or grading as required.
- 5.1.9. Loadouts: All truck load-outs shall be equipped with a device and/or employ a specific operating method which minimizes drop height during load-out in order to minimize the emissions of particulate matter.
- 5.1.10. 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 darker in shade or appearance than that designated as No. 1 Ringelmann or twenty (20) percent opacity, except as noted in subsections 3.2, 3.3, 3.4, 3.5, 3.6, and 3.7. **[45-7-3.1]**
- 5.1.11. 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 No. 2 Ringelmann or forty (40) percent opacity for any period or periods aggregating no more than five (5) minutes in any sixty (60) minute period. **[45-7-3.2]**
- 5.1.12. No person shall cause, suffer, allow, or permit emissions of smoke and/or particulate matter into the open air from any storage structure associated with any manufacturing process. **[45-7-3.7]**
- 5.1.13. Any stack serving any process source operation or air pollution control equipment on any process source operation shall contain flow straightening devices or a vertical run of sufficient length to establish flow patterns consistent with acceptable stack sampling procedures. **[45-7-4.12]**
- 5.1.14. No person shall cause, suffer, allow, or permit any manufacturing process generating fugitive particulate matter to operate that is not equipped with a system to minimize the emissions of fugitive particulate matter. To minimize means that a particulate capture or suppression system shall be installed to ensure the lowest fugitive particulate emissions reasonably achievable. The permitted facility shall comply with all applicable requirements of 45CSR7, with the exception of any more stringent limitations set forth in Section 4.0 of this permit. **[45-7-5.1]**
- 5.1.15. No person shall cause, suffer, allow, or permit any manufacturing process generating fugitive particulate matter to operate that is not equipped with a system to minimize the emissions of fugitive particulate matter. To minimize means that a particulate capture or suppression system shall be installed to ensure the lowest fugitive particulate emissions reasonably achievable. The

permitted facility shall comply with all applicable requirements of 45CSR7, with the exception of any more stringent limitations set forth in Specific 4.0 of this permit. [45-7-5.1]

- 5.1.16. 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. [45-7-5.2]
- 5.1.17. 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. [45-7-8.1]
- 5.1.18. The Director, or his duly authorized representative, may conduct such other tests as he or she may deem necessary to evaluate air pollution emissions. [45-7-8.2]
- 5.1.19. 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. [45-7-9.1]

5.2. Monitoring Requirements

- 5.2.1. For the purpose of determining compliance with the visible emission limits set forth in Section 5.1.10, the permittee shall conduct visible emission checks and/or opacity monitoring and recordkeeping for all emission sources subject to an opacity limit.

The visible emission check shall determine the presence or absence of visible emissions. At a minimum, the observer must be trained and knowledgeable regarding the effects of background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water (condensing water vapor) on the visibility of emissions. This training may be obtained from written materials found in the References 1 and 2 from 40 CFR Part 60, Appendix A, Method 22 or from the lecture portion of the 40 CFR Part 60, Appendix A, Method 9 certification course.

Visible emission checks shall be conducted at least once per calendar month. These checks shall be performed at each source (stack, etc.) for a sufficient time interval, but no less than one (1) minute. Visible emission checks shall be performed during periods of normal facility operation and appropriate weather conditions.

If visible emissions are present at a source(s) for six (6) consecutive monthly checks, the permittee shall conduct an opacity reading at the source(s) using the procedures and requirements of U.S. EPA Method 9 as soon as practicable, but within next calendar month of the final visual emission check. A Method 9 observation at a source(s) restarts the count of the number of consecutive readings with the presence of visible emissions.

5.3. Testing Requirements

- 5.3.1. See Facility-Wide Testing Requirements in Section 3.3 and Testing Requirements 6.4.

5.4. Recordkeeping Requirements

- 5.4.1. For the purpose of determining compliance with the maximum production, maximum throughput limits set forth in Section 5.1.2 through 5.1.6, the permittee shall maintain daily records of the amount of limestone processed in each process and the hours of operation of each process. Compliance with the annual limits shall be determined using a 12-month rolling total. A 12-month rolling total shall mean the sum of the maximum production/throughput at any given time for the previous twelve (12) calendar months. These records shall be maintained on-site for a period of no less than five (5) years and made available to the Director or his or her duly authorized representative upon request. At a time prior to being submitted to the Director, all records shall be certified and signed by a “Responsible Official” utilizing the attached Certification of Data Accuracy statement.
- 5.4.2. For the purpose of demonstrating compliance with the opacity limits in Section 5.2.1 that are not subject to the requirements of Section 6.0 or 40 CFR 60 Subpart OOO, the permittee shall maintain records documenting the date and time of each visible emission check, the emission point or equipment/source identification number, the names or means of identification of the observer, the results of the check(s), whether the visible emissions are normal for the process, and, if applicable, all corrective measures taken or planned. The permittee shall also record the general weather conditions during the visual emission check(s).

5.5. Reporting Requirements

- 5.5.1. See Facility-Wide Testing Requirements in Section 3.5 and the Reporting Requirements in Section 6.5.

6.0. Source-Specific Requirements (Standards of Performance for Nonmetallic Mineral Processing Plants that Commenced Construction, Reconstruction or Modification on or after April 22, 2008 (40 CFR 60 Subpart OOO))

6.1. Applicability and Designation of Affected Facility

- 6.1.1. The provisions of this subpart apply to affected facilities in fixed or portable nonmetallic mineral processing plants: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station.
[40CFR§60.670(a)(1)]
- 6.1.2. The provisions of this subpart are not applicable to the following:
- a. All facilities located in underground mines; plants without crushers or grinding mills above ground; and wet material processing operations (as defined in §60.671);
[40CFR§60.670(a)(2)]
 - b. An affected facility that is subject to the provisions of 40CFR60 Subparts F or I of this part or that follows in the plant process any facility subject to the provisions of 40CFR60 Subparts F or I; [40CFR§60.670(b)]
 - c. Facilities at fixed sand and gravel plants and crushed stone plants with capacities of 25 tons per hour or less, portable sand and gravel plants and crushed stone plants with capacities of 150 tons per hour or less, and common clay plants and pumice plants with capacities of 10

tons per hour or less. [40CFR§60.670(c)]

- d. When an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in §60.671, having the same function as the existing facility, and there is no increase in the amount of emissions, the new facility is exempt from the provisions of §60.672, 60.674, and 60.675 (Sections 6.2, 6.3, and 6.4 of this permit), except as provided for in paragraph (d)(3) (Section 6.1.2.d of this permit).
 1. An owner or operator complying with Section 6.1.2.d. of this permit shall submit the reporting and recordkeeping information required in §60.676 (Section 6.5.1. of this permit).
 2. An owner or operator replacing all existing facilities in a production line with new facilities does not qualify for this exemption and must comply with the provisions in §60.672, 60.674, and 60.675 (Sections 6.2., 6.3., and 6.4. of this permit).
[40CFR§60.670(d)]

6.2. Standards for Particulate Matter (PM)

- 6.2.1. Affected facilities must meet the fugitive emission limits and compliance requirements in Table 3 of this subpart within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under § 60.11. The requirements in Table 3 of this subpart apply for fugitive emissions from affected facilities without capture systems and for fugitive emissions escaping capture systems.

Table 3 to Subpart OOO of Part 60 – Fugitive Emission Limits

For * * *	The owner or operator must meet the following fugitive emissions limit for grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in §§ 60.670 and 60.671) * * *	The owner or operator must meet the following fugitive emissions limit for crushers at which a capture system is not used * * *	The owner or operator must demonstrate compliance with these limits by conducting * * *
Affected facilities (as defined in §§ 60.670 and 60.671) that commence construction, modification, or reconstruction on or after April 22, 2008	7 percent opacity	12 percent opacity	An initial performance test according to § 60.11 of this part and § 60.675 of this subpart; and Periodic inspections of water sprays according to § 60.674(b) and § 60.676(b); and
			A repeat performance test according to § 60.11 of this part and § 60.675 of this subpart within 5 years from the previous performance test for fugitive emissions from affected facilities without water sprays. Affected facilities controlled by water carryover from upstream water sprays that are inspected according to the requirements in § 60.674(b) and § 60.676(b) are exempt from this 5-year repeat testing requirement.

[40CFR§60.672(b)]

- 6.2.2. Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this section. [40CFR§60.672(d)]
- 6.2.3. If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in §60.672 (a) and (b), or the building enclosing the affected facility or facilities must comply with the following emission limits:
 - a. Fugitive emissions from the building openings (except for vents as defined in §60.671) must

not exceed seven (7) percent opacity; and
[40CFR§60.672(e)]

6.3. Monitoring of Operations

- 6.3.1. The owner or operator of any affected facility for which construction, modification, or reconstruction commenced on or after April 22, 2008, that uses wet suppression to control emissions from the affected facility must perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The owner or operator must initiate corrective action within 24 hours and complete corrective action as expeditiously as practical if the owner or operator finds that water is not flowing properly during an inspection of the water spray nozzles. The owner or operator must record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in the logbook required under §60.676(b).
- a. If an affected facility relies on water carryover from upstream water sprays to control fugitive emissions, then that affected facility is exempt from the 5-year repeat testing requirement specified in Table 3 of 40CFR60 provided that the affected facility meets the criteria in §60.674(b)(1)(i) and (ii).
1. The owner or operator of the affected facility conducts periodic inspections of the upstream water spray(s) that are responsible for controlling fugitive emissions from the affected facility. These inspections are conducted according to §60.674(b) and §60.676(b)
 2. The owner or operator of the affected facility designates which upstream water spray(s) will be periodically inspected at the time of the initial performance test required under §60.11 of this part and §60.675 of this subpart.
- b. If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry required under §60.676(b) must specify the control mechanism being used instead of the water sprays.
[40CFR§60.674(b)(1)(i)(ii)(2)]

6.4. Test Methods and Procedures

- 6.4.1. In conducting the performance tests required in § 60.8, the owner or operator shall use as reference methods and procedures the test methods in appendices A-1 through A-7 of this part or other methods and procedures as specified in this section, except as provided in § 60.8(b). Acceptable alternative methods and procedures are given in paragraph (e) of this section. [40CFR§60.675(a)]
- 6.4.2. In determining compliance with the particulate matter standards in §60.672(b) or §60.672(e)(1), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in §60.11, with the following additions:
- a. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).
 - b. The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9 of Appendix A-4 of this part, Section 2.1) must be followed.

- c. For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible. [40CFR§60.675(c)(1)]
 - d. When determining compliance with the fugitive emissions standard for any affected facility described under § 60.672(b) or § 60.672(e)(1) of this subpart, the duration of the Method 9 (40 CFR part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in Table 3 of this subpart must be based on the average of the five 6-minute averages. [40CFR§60.675(c)(3)]
- 6.4.3. The owner or operator may use the following as alternatives to the reference methods and procedures specified in this section:
- a. For the method and procedure of paragraph (c) of this section, if emissions from two or more facilities 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 applicable to any of the individual affected facilities contributing to the emissions stream.
 - (ii) Separate the emissions so that the opacity of emissions from each affected facility can be read.
 - b. A single visible emission observer may conduct visible emission 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. [40CFR§60.675(e)(1)(2)]
- 6.4.4. For performance tests involving only Method 9 (40 CFR part 60 Appendix A-4) testing, the owner or operator may reduce the 30-day advance notification of performance test in § 60.7(a)(6) and 60.8(d) to a 7-day advance notification. [40CFR§60.675(g)]
- 6.4.5. If the initial performance test date for an affected facility falls during a seasonal shut down (as defined in § 60.671 of this subpart) of the affected facility, then with approval from the permitting authority, the owner or operator may postpone the initial performance test until no later than 60 calendar days after resuming operation of the affected facility. [40CFR§60.675(i)]

6.5. Reporting and Recordkeeping

- 6.5.1. Each owner or operator seeking to comply with § 60.670(d) shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment.
 - a. For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station:
 - (i) The rated capacity in megagrams or tons per hour of the existing facility being replaced and

- (ii) The rated capacity in tons per hour of the replacement equipment.
 - b. For a screening operation:
 - (i) The total surface area of the top screen of the existing screening operation being replaced and
 - (ii) The total surface area of the top screen of the replacement screening operation.
 - c. For a conveyor belt:
 - (i) The width of the existing belt being replaced and
 - (ii) The width of the replacement conveyor belt.
 - d. For a storage bin:
 - (i) The rated capacity in megagrams or tons of the existing storage bin being replaced and
 - (ii) The rated capacity in megagrams or tons of replacement storage bins.
- [40CFR§60.676(a)]**
- 6.4.2. Owners or operators of affected facilities for which construction, modification, or reconstruction commenced on or after April 22, 2008, must record each periodic inspection required under §60.674(b) (Section 7.3.2. of this permit), including dates and any corrective actions taken, in a logbook (in written or electronic format). The owner or operator must keep the logbook onsite and make hard or electronic copies (whichever is requested) of the logbook available to the Director upon request. **[40CFR§60.676(b)(1)]**
- 6.4.3. The owner or operator of any affected facility shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672 of this subpart, including reports of opacity observations made using Method 9 to demonstrate compliance with §60.672(b). **[40CFR§60.676(f)]**
- 6.4.4. The owner or operator of any wet material processing operation that processes saturated and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. At the time of such change, this screening operation, bucket elevator, or belt conveyor becomes subject to the applicable opacity limit in § 60.672(b) and the emission test requirements of § 60.11. **[40CFR§60.676(g)]**
- 6.4.5. The subpart A requirement under § 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under this subpart. **[40CFR§60.676(h)]**
- 6.4.6. A notification of the actual date of the initial startup of each affected facility shall be submitted to the Administrator. **[40CFR§60.676(i)]**
- a. For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the owner or operator to the Administrator. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.
 - b. For portable aggregate processing plants, the notification of the actual date of initial startup shall include both the home office and the current address and location of the portable plant. **[40CFR§60.676(i)]**
- 6.4.7. The requirements of this section remain in force until and unless the Agency, in delegating enforcement authority to a State under section 111(c) of the Act, approves reporting requirements

or an alternative means of compliance surveillance adopted by such States. In that event, affected facilities within the State will be relieved of the obligation to comply with the reporting requirements of this section, provided that they comply with requirements established by the State. [40CFR§60.676(j)]

- 6.4.8. Notifications and reports required under this subpart and under subpart A of this part to demonstrate compliance with this subpart need only to be sent to the EPA Region or the State which has been delegated authority according to § 60.4(b). [40CFR§60.676(k)]

7.0. Source-Specific Requirements (Diesel Engines, ENG-CR1, ENG-CR2, ENG-1S, ENG-2S, ENG-BC)

7.1. Limitations and Standards

- 7.1.1. The quantity of #2 fuel oil that shall be consumed in the 415 bhp, compression fired engine, Caterpillar C-13 (ENG-CR1) shall not exceed 20.8 gallons per hour or 182,208 gallons per year.

- 7.1.2. Maximum emissions from the 415 bhp engine (ENG-E1) shall not exceed the following limits.

Pollutants	Maximum Hourly Emissions (lbs/hr)	Maximum Annual Emission (tpy)
Nitrogen Oxides (NOx)	2.46	10.77
Carbon Monoxide (CO)	1.50	6.57
Volatile Organic Compounds (VOC)	1.00	4.38
Particulate Matter (PM10)	0.07	0.31
Sulfur Dioxide (SO2)	0.81	3.55
Formaldehyde	0.01	0.02

- 7.1.3. The quantity of #2 fuel oil that shall be consumed in the 440 bhp, compression fired engine, Caterpillar C-13 (ENG-CR2) shall not exceed 22.2 gallons per hour or 194,735 gallons per year.

- 7.1.4. Maximum emissions from the 440 bhp engine (ENG-E2) shall not exceed the following limits.

Pollutants	Maximum Hourly Emissions (lbs/hr)	Maximum Annual Emission (tpy)
Nitrogen Oxides (NOx)	2.60	11.39
Carbon Monoxide (CO)	1.59	6.96
Volatile Organic Compounds (VOC)	1.07	4.69
Particulate Matter (PM10)	0.07	0.31
Sulfur Dioxide (SO2)	0.86	3.77
Formaldehyde	0.01	0.02

- 7.1.5. The quantity of #2 fuel oil that shall be consumed in the 101.9 bhp, compression fired engine, Deutz BF4M2012 (ENG-1S) shall not exceed 5.7 gallons per hour or 49,844 gallons per year.

7.1.6. Maximum emissions from the 101.9 bhp engine (ENG-E3) shall not exceed the following limits.

Pollutants	Maximum Hourly Emissions (lbs/hr)	Maximum Annual Emission (tpy)
Nitrogen Oxides (NOx)	1.36	5.96
Carbon Monoxide (CO)	0.18	0.79
Volatile Organic Compounds (VOC)	0.27	1.18
Particulate Matter (PM10)	0.02	0.09
Sulfur Dioxide (SO2)	0.22	0.96
Formaldehyde	0.01	0.01

7.1.7. The quantity of #2 fuel oil that shall be consumed in the 120 bhp, compression fired engine, Caterpillar 3056E (ENG-2S) shall not exceed 6 gallons per hour or 52,560 gallons per year.

7.1.8. Maximum emissions from the 120 bhp engine (ENG-E4) shall not exceed the following limits.

Pollutants	Maximum Hourly Emissions (lbs/hr)	Maximum Annual Emission (tpy)
Nitrogen Oxides (NOx)	1.22	5.34
Carbon Monoxide (CO)	0.14	0.61
Volatile Organic Compounds (VOC)	0.29	1.27
Particulate Matter (PM10)	0.04	0.18
Sulfur Dioxide (SO2)	0.23	1.01
Formaldehyde	0.01	0.01

7.1.9. The quantity of #2 fuel oil that shall be consumed in the 750 bhp, compression fired engine, Caterpillar 3412 (ENG-BC) shall not exceed 36.9 gallons per hour or 323,770 gallons per year.

7.1.10. Maximum emissions from the 750 bhp engine (ENG-E5) shall not exceed the following limits.

Pollutants	Maximum Hourly Emissions (lbs/hr)	Maximum Annual Emission (tpy)
Nitrogen Oxides (NOx)	10.58	46.34
Carbon Monoxide (CO)	3.14	13.75
Volatile Organic Compounds (VOC)	0.44	1.93
Particulate Matter (PM10)	0.33	1.45
Sulfur Dioxide (SO2)	0.01	0.04
Formaldehyde	0.01	0.01

7.2. Monitoring Requirements

7.2.1. See Monitoring Requirements in Section 8.5.

7.3. Testing Requirements

7.3.1. See Facility-Wide Testing Requirements in Section 3.3 and Testing Requirements in Section 7.7.

7.4. Recordkeeping Requirements

7.4.1. To demonstrate compliance with sections 7.1.1 through 7.1.10, the permittee shall maintain records of the amount and type of fuel consumed in the engine and the hours of operation of the engine. Said records shall be maintained on site or in a readily accessible off-site location maintained by the permittee for a period of five (5) years. Said records shall be readily available to the Director

of the Division of Air Quality or his/her duly authorized representative for expeditious inspection and review. Any records submitted to the agency pursuant to a requirement of this permit or upon request by the Director shall be certified by a responsible official.

- 7.4.2. See Facility-Wide Recordkeeping Requirements in Section 3.4 and Recordkeeping Requirements in Section 8.8.

8.0. Source-Specific Requirements (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR 60 Subpart III))

8.1. Applicability and Designation of Affected Facility

- 8.1.1. The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) and other persons as specified in paragraphs (a)(1) through (4) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.
- (1) Manufacturers of stationary CI ICE with a displacement of less than 30 liters per cylinder where the model year is:
 - (i) 2007 or later, for engines that are not fire pump engines;
 - (ii) The model year listed in Table 3 to this subpart or later model year, for fire pump engines.
 - (2) Owners and operators of stationary CI ICE that commence construction after July 11, 2005, where the stationary CI ICE are:
 - (i) Manufactured after April 1, 2006, and are not fire pump engines, or
 - (ii) Manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006.
 - (3) Owners and operators of any stationary CI ICE that are modified or reconstructed after July 11, 2005 and any person that modifies or reconstructs any stationary CI ICE after July 11, 2005.
 - (4) The provisions of § 60.4208 of this subpart are applicable to all owners and operators of stationary CI ICE that commence construction after July 11, 2005. [40CFR§60.4200] (ENG-CR1, ENG-CR2, ENG-2S)

8.2. Emission Standards for Owners and Operators of Nonemergency Engines

- 8.2.1. Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder must comply with the emission standards in table 1 to this subpart. [40CFR§60.4204(a)] (ENG-2S)

Table 1 to Subpart III of Part 60 – Emission Standards for Stationary Pre-2007 Model Engines With a Displacement of <10 Liters per Cylinder

Maximum engine power	Emission standards for stationary pre-2007 model year engines with a displacement of <10 liters per cylinder g/KW-hr (g/HP-hr)				
	NMHC + NO _x	HC	NO _x	CO	PM
75≤KW<130 (100≤HP<175)			9.2 (6.9)		

- 8.2.2. Owners and operators of 2007 model year and later non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder must comply with the emission standards for new

CI engines in § 60.4201 for their 2007 model year and later stationary CI ICE, as applicable.
[40CFR§60.4204(b)] (ENG-CR1, ENG-CR2)

8.2.3. Stationary CI internal combustion engine manufacturers must certify the following non-emergency stationary CI ICE to the certification emission standards for new marine CI engines in 40 CFR 94.8, as applicable, for all pollutants, for the same displacement and maximum engine power:

(1) Their 2007 model year through 2012 non-emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder; **[40CFR§60.4201(d)(1)] (ENG-CR1, ENG-CR2)**

Engine Size liters/cylinder, rated power	Category	Model year ^a	THC+NO _x g/kW-hr	CO g/kW-hr	PM g/kW-hr
5.0 ≤ disp. <15.0 all power levels	Category 2	2007	7.8	5.0	0.27

8.2.4. Owners and operators of non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests in-use must meet the not-to-exceed (NTE) standards as indicated in § 60.4212. **[40CFR§60.4204(d)] (ENG-2S, ENG-CR1, ENG-CR2)**

8.2.5. Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in §§ 60.4204 and 60.4205 over the entire life of the engine. **[40CFR§60.4206] (ENG-2S, ENG-CR1, ENG-CR2)**

8.3. Fuel Requirements

8.3.1. Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted. **[40CFR§60.4207(b)] (ENG-2S, ENG-CR1, ENG-CR2)**

8.4. Other Requirements for Owners and Operators

8.4.1. After December 31, 2008, owners and operators may not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines. **[40CFR§60.4208(a)]**

8.4.2. After December 31, 2009, owners and operators may not install stationary CI ICE with a maximum engine power of less than 19 KW (25 HP) (excluding fire pump engines) that do not meet the applicable requirements for 2008 model year engines. **[40CFR§60.4208(b)]**

8.4.3. After December 31, 2014, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 19 KW (25 HP) and less than 56 KW (75 HP) that do not meet the applicable requirements for 2013 model year non-emergency engines. **[40CFR§60.4208(c)]**

8.4.4. After December 31, 2013, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 56 KW (75 HP) and less than 130 KW (175 HP) that do not meet the applicable requirements for 2012 model year non-emergency engines. **[40CFR§60.4208(d)]**

8.4.5. After December 31, 2012, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 130 KW (175 HP), including those

above 560 KW (750 HP), that do not meet the applicable requirements for 2011 model year non-emergency engines. [40CFR§60.4208(e)]

- 8.4.6. After December 31, 2016, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 560 KW (750 HP) that do not meet the applicable requirements for 2015 model year non-emergency engines. [40CFR§60.4208(f)]
- 8.4.7. After December 31, 2018, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power greater than or equal to 600 KW (804 HP) and less than 2,000 KW (2,680 HP) and a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that do not meet the applicable requirements for 2017 model year non-emergency engines. [40CFR§60.4208(g)]
- 8.4.8. In addition to the requirements specified in §§ 60.4201, 60.4202, 60.4204, and 60.4205, it is prohibited to import stationary CI ICE with a displacement of less than 30 liters per cylinder that do not meet the applicable requirements specified in paragraphs (a) through (g) of this section after the dates specified in paragraphs (a) through (g) of this section. [40CFR§60.4208(h)]
- 8.4.9. The requirements of this section do not apply to owners or operators of stationary CI ICE that have been modified, reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location. [40CFR§60.4208(i)]

8.5. Monitoring Requirements for Owners and Operators

- 8.5.1. If you are an owner or operator of a stationary CI internal combustion engine equipped with a diesel particulate filter to comply with the emission standards in § 60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached. [40CFR§60.4209]

8.6. Compliance Requirements for Owners and Operators

- 8.6.1. If you are an owner or operator and must comply with the emission standards specified in this subpart, you must do all of the following, except as permitted under paragraph (g) of this section:
- (1) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;
 - (2) Change only those emission-related settings that are permitted by the manufacturer; and
 - (3) Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you. [40CFR§60.4211(a)(1)(2)(3)] (ENG-2S, ENG-CR1, ENG-CR2)
- 8.6.2. If you are an owner or operator of a pre-2007 model year stationary CI internal combustion engine and must comply with the emission standards specified in §§ 60.4204(a) or 60.4205(a), or if you are an owner or operator of a CI fire pump engine that is manufactured prior to the model years in table 3 to this subpart and must comply with the emission standards specified in § 60.4205(c), you must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) through (5) of this section.
- (1) Purchasing an engine certified according to 40 CFR part 89 or 40 CFR part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.

- (2) Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in this subpart and these methods must have been followed correctly.
- (3) Keeping records of engine manufacturer data indicating compliance with the standards.
- (4) Keeping records of control device vendor data indicating compliance with the standards.
- (5) Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in § 60.4212, as applicable.
[40CFR§60.4211(b)] (ENG-2S)

8.6.3. If you are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in § 60.4204(b) or § 60.4205(b), or if you are an owner or operator of a CI fire pump engine that is manufactured during or after the model year that applies to your fire pump engine power rating in table 3 to this subpart and must comply with the emission standards specified in § 60.4205(c), you must comply by purchasing an engine certified to the emission standards in § 60.4204(b), or § 60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in paragraph (g) of this section. **[40CFR§60.4211(c)] (ENG-CR1, ENG-CR2)**

8.6.4. If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as follows:

- (2) If you are an owner or operator of a stationary CI internal combustion engine greater than or equal to 100 HP and less than or equal to 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer.
- (3) If you are an owner or operator of a stationary CI internal combustion engine greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. You must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.
[40CFR§60.4211(g)] (ENG-2S, ENG-CR1, ENG-CR2)

8.7. Testing Requirements Engines With a Displacement of Less Than 30 Liters Per Cylinder

8.7.1. The performance test must be conducted according to the in-use testing procedures in 40 CFR part 1039, subpart F, for stationary CI ICE with a displacement of less than 10 liters per cylinder, and according to 40 CFR part 1042, subpart F, for stationary CI ICE with a displacement of greater

than or equal to 10 liters per cylinder and less than 30 liters per cylinder. [40CFR§60.4212(a)] (ENG-2S, ENG-CR1, ENG-CR2)

- 8.7.2. Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR part 1039 must not exceed the not-to-exceed (NTE) standards for the same model year and maximum engine power as required in 40 CFR 1039.101(e) and 40 CFR 1039.102(g)(1), except as specified in 40 CFR 1039.104(d). This requirement starts when NTE requirements take effect for nonroad diesel engines under 40 CFR part 1039. [40CFR§60.4212(b)] (ENG-2S)
- 8.7.3. Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8, as applicable, must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112 or 40 CFR 94.8, as applicable, determined from the following equation:

$$\text{NTE requirement for each pollutant} = (1.25) \times (\text{STD}) \quad (\text{Eq. 1})$$

Where:

STD = The standard specified for that pollutant in 40 CFR 89.112 or 40 CFR 94.8, as applicable. Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8 may follow the testing procedures specified in § 60.4213 of this subpart, as appropriate. [40CFR§60.4212(c)] (ENG-CR1, ENG-CR2)

- 8.7.4. Exhaust emissions from stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in § 60.4204(a), § 60.4205(a), or § 60.4205(c) must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in § 60.4204(a), § 60.4205(a), or § 60.4205(c), determined from the equation in paragraph (c) of this section.

Where:

STD = The standard specified for that pollutant in § 60.4204(a), § 60.4205(a), or § 60.4205(c). Alternatively, stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in § 60.4204(a), § 60.4205(a), or § 60.4205(c) may follow the testing procedures specified in § 60.4213, as appropriate. [40CFR§60.4212(d)] (ENG-2S)

8.8. Notification, Reporting, and Recordkeeping Requirements

- 8.8.1. Owners and operators of non-emergency stationary CI ICE that are greater than 2,237 KW (3,000 HP), or have a displacement of greater than or equal to 10 liters per cylinder, or are pre-2007 model year engines that are greater than 130 KW (175 HP) and not certified, must meet the requirements of paragraphs (a)(1) and (2) of this section.

(1) Submit an initial notification as required in § 60.7(a)(1). The notification must include the information in paragraphs (a)(1)(i) through (v) of this section.

- (i) Name and address of the owner or operator;
- (ii) The address of the affected source;
- (iii) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;
- (iv) Emission control equipment; and
- (v) Fuel used.

(2) Keep records of the information in paragraphs (a)(2)(i) through (iv) of this section.

- (i) All notifications submitted to comply with this subpart and all documentation supporting any notification.
- (ii) Maintenance conducted on the engine.
- (iii) If the stationary CI internal combustion is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards.
- (iv) If the stationary CI internal combustion is not a certified engine, documentation that the engine meets the emission standards.

[40CFR§60.4214(a)] (ENG-CR1, ENG-CR2)

- 8.8.2. If the stationary CI internal combustion engine is equipped with a diesel particulate filter, the owner or operator must keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached.
[40CFR§60.4214(c)]

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APPENDIX A – Limestone Processed / Produced
Month, Year:

Day	Total Daily Throughput of Limestone (Tons)	Hours of Operation (hrs)	Initials
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
Total			

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.

Signature¹ _____
(please use blue ink) Responsible Official or Authorized Representative Date

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

Telephone No. _____ Fax No. _____

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.