west virginia department of environmental protection

Division of Air Quality
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Austin Caperton, Cabinet Secretary
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April 26, 2018

Mr. Terry J Zerr
Vice President of Operations
Mississippi Lime Company
525 Hance Road
Verona, KY 41092

Re: Mississippi Lime Company
Half Moon Hydration Facility
Permit No. R13-2661D
Plant ID No. 009-00088

Dear Mr. Zerr:

Your application for a permit as required by Section 5 of 45CSR13 - "Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permit, General Permit, and Procedures for Evaluation" has been approved. The enclosed permit R13-2661D is hereby issued pursuant to Subsection 5.7 of 45CSR13. Please be aware of the notification requirements in the permit which pertain to commencement of construction, modification, or relocation activities; startup of operations; and suspension of operations.

The source is not subject to 45CSR30.

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

Should you have any questions or comments, please contact me at (304) 926-0499, extension 1214.

Edward S. Andrews, P.E.
Engineer

Enclosures

c. Terry Zerr, JTZerr@mic.com
Amber Nipper, arnipper@mlc.com

West Virginia Department of Environmental Protection

Austin Caperton
Cabinet Secretary

Class I Administrative Update

R13-2661D

This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§22-5-1 et seq.) and 45 CSR 13 – Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits, Permission to Commence Construction, 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:

Mississippi Lime Company
Half Moon Hydration Facility, Weirton
009-00088

William F. Durham
Director, Division of Air Quality

Issued: April 26, 2018

This permit will supercede and replace Permit R13-2661C.

Facility Location:	3001 Birch Drive Weirton, Brooke County, West Virginia
Mailing Address:	525 Hance Road Verona, KY 41092
Facility Description:	Lime Hydration Facility
NAICS Codes:	327410
UTM Coordinates:	532.32 km Easting • 4,470.45 km Northing • Zone 17
Permit Type:	Class I Administrative Update
Description of Change:	This action is to correct the size capacity of product storage silo and establish a corrective action threshold before being required to conduct compliance testing.

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	Control Device
1S	1E	Elevator	2007	Fabric Filter Bag House (FF) (1C)
2S	1E	Surge Bin	2007	FF (1C)
3S	2E	Hydrator	2007	Water Scrubber (2C)
4S*	3E	Processing and Conveyance Equipment	2007	FF (3C)
5S*	3E	Processing and Conveyance Equipment	2007	FF (3C)
6S	3E	Processing and Conveyance Equipment	2007	FF (3C)
7S	3E	Processing and Conveyance Equipment	2007	FF (3C)
8S	3E	Processing and Conveyance Equipment	2007	FF (3C)
9S	3E	Processing and Conveyance Equipment	2007	FF (3C)
10S	4E	Product Silo	2007	FF (4C)
11S	7E	Telescoping Load-out spout with dust control loading (DLC) collector	2013	6C
12S	5E	Elevator	2007	FF (5C)
13S	5E	Product Silo	2007	FF (5C)
14S	5E	Telescoping Load-out	2007	FF (5C)
16S	8E	Product Silo	2013	FF (7C)
17S	9E	Telescoping Load-out spout with dust control loading (DLC) collector	2013	8C
18S	1E	Lime Conditioning System	2018	1C
19S	10E	Hydrate Conditioning System	2018	9C
20S	11E	Finished Product Silo	2019	10C
21S	12E	Finished Product Loadout	2019	11C

4S will be by-passed and place out of service after completion of Phase II of the process improvement project.
5S will be removed from the facility after completion of Phase II of the process improvement project.

1.1. Control Devices

Control Device ID	Emission Point ID	Control Device	Controlling Pollutant & Collection Efficiency
1C	1E	Fabric Filter Pulse-jet Bag House	PM. PM_{10} (99.9%)
2C	2E	Ducon Type UW-4 Model III (Spray Tower) scrubber	PM. PM_{10} (99%)
3C	3E	Fuller Plenum Pulse #48 (Pulse-jet) Bag House	PM. PM_{10} (99.9%)
4C	4E	Fabric Filter Pulse-jet Bag House	PM. PM_{10} (99.9%)
5C	5E	Fabric Filter Pulse-jet Bag House	PM. PM_{10} (99.9%)

Control Device ID	Emission Point ID	Control Device	Controlling Pollutant & Collection Efficiency
6C	7E	The Fabric filter is integrated with the telescoping spout	PM. PM_{10} (99.9%)
7C	8E	Fabric Filter Pulse-jet Bag House	PM. PM_{10} (99.9%)
8C	9E	Fabric filter is integrated with the telescoping spout	PM. PM_{10} (99.9%)
9C	10E	Fabric Filter Pulse-jet Bag House	PM. PM_{10} (99.9%)
10C	11E	Fabric Filter Pulse-jet Bag House	PM. PM_{10} (99.9%)
11C	12E	Integrated DCM Collector with DCL spout	PM. PM_{10} (99.9%)

2.0. General Conditions

2.1. Definitions

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

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

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

2.2. Acronyms

CAAA	Clean Air Act Amendments	**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
CFR	Code of Federal Regulations	**PM_{10}**	Particulate Matter less than 10μm in diameter
CO	Carbon Monoxide	**Ppb**	Pounds per Batch
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	**SO_2**	Sulfur Dioxide
lbs/hr	Pounds per Hour	**TAP**	Toxic Air Pollutant
LDAR	Leak Detection and Repair	**TPY**	Tons per Year
M	Thousand	**TRS**	Total Reduced Sulfur
MACT	Maximum Achievable Control Technology	**TSP**	Total Suspended Particulate
MDHI	Maximum Design Heat Input	**USEPA**	United States Environmental Protection Agency
MM	Million	**UTM**	Universal Transverse Mercator
MMBtu/hr *or* mmbtu/hr	Million British Thermal Units per Hour	**VEE**	Visual Emissions Evaluation
MMCF/hr *or* mmcf/hr	Million Cubic Feet per Hour	**VOC**	Volatile Organic Compounds
NA	Not Applicable	**VOL**	Volatile Organic Liquids
NAAQS	National Ambient Air Quality Standards		
NESHAPS	National Emissions Standards for Hazardous Air Pollutants		

2.3. Authority

This permit is issued in accordance with West Virginia Air Pollution Control 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 R13-2661C. 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 R13-2661, R13-2661A, R13-2661B, R13-2661C, R13-2661D, 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 CFR 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 CFR § 61.145, 40 CFR § 61.148, and 40 CFR § 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 CFR § 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 CFR 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 or by private carrier with postage prepaid to the address(es), or submitted in electronic format by email as set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

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

DAQ Compliance and Enforcement[1]:
DEPAirQualityReports@wv.gov

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

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

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.

4.0. Source-Specific Requirements

4.1. Limitations and Standards

4.1.1. Emissions of PM and PM_{10} being emitted to the atmosphere from the emission points listed in Table 4.1.1. shall not exceed the corresponding rates as listed.

Table 4.1.1. Emissions of PM and PM_{10} by Emission Point

Emission Point ID	Emission Unit ID	Hourly PM and PM10 Emissions (lb/hr)	Annual* PM and PM10 Emission (TPY)
1E	1S, 2S, 19S	0.11	0.48
2E	3S	1.34	5.87
3E	4S[1], 5S[2], 6S, 7S, 8S, 9S	1.06	4.63
4E	10S	0.26	1.14
5E	12S,13S, 14S	0.19	0.84
7E	11S	0.16	0.72
8E	16S	0.26	1.14
9E	17S	0.17	0.75
10E	19S	0.10	0.42
11E	20S	0.26	1.14
12E	21S	0.16	0.72

* Compliance with the annual limit shall be based on 12 month rolling total.
1 – 4S will be by-passed and placed out of service after completion of Phase II as outline in Permit Application R13-2661C
2 – 5S will be demolished and removed as result of Phase II as outline in Permit Application R13-2661C.

4.1.2. Emissions of particulate matter from emission points 1E, 2E, 3E, 7E, 9E, 10E and 12E shall not exceed 20% opacity except for any period or periods aggregating no more than five minutes in any sixty-minute period which the visible emissions is less than 40% opacity during that period(s). **[45CSR§§7-3.1 and 7-3.2]**

4.1.3. Emission points 4E, 5E, 8E, and 11E shall not emit any visible emissions. **[45 CSR §7-3.7.]**

4.1.4. For the purposes of minimizing the release of fugitive particulate matter, the permittee shall maintain the access roads used by the permitted facility while in operation in such a manner that limits the release of such fugitive particulate matter to the lowest rate that is reasonably achievable. Measures to be employed include, but are not limited to good operating practices and when necessary the application of water or other particulate matter suppressants. **[45 CSR §§7-5.1. and 5.2.]**

4.1.5. **Operation and Maintenance of Air Pollution Control Equipment.** The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment listed in Section 1.0 and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in

this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary.
[45CSR§13-5.11.]

4.2. Monitoring Requirements

4.2.1. For the purpose of demonstrating compliance with the visible emission limits in 4.1.2. and 4.1.3. of this permit and proper operation of the respective control device(s), the permittee shall conduct visual observations of emission points 1E, 2E, 3E, 4E, 5E, 7E, 8E, 9E, 10E, 11E, and 12E. These observations shall be conducted using a U.S. EPA Method 22 trained observer and U.S. EPA Method 22 procedures.

a. Frequency of these observation shall be on daily basis when the process/emission unit is operating;

b. Duration of the observation shall be for a 2-minute period;

c. Threshold of triggering corrective action is upon detection of visible emissions with an average of >5% opacity for emission points 1E, 3E, 7E, 9E, 10E, 11E, and 12E. For emission point 2E the threshold of triggering corrective action will be set at 15% or greater opacity. For emission points 4E, 5E, 8E, and 11E the threshold of triggering corrective actions will be set at 0% opacity. If an observation of emission points 1E, 2E, 3E, 4E, 5E, 7E, 8E, 9E, 10E, 11E, or 12E is found to be emitting visible emissions using Method 22 procedures, the permittee shall conduct additional observations using a Method 9 as outlined in 45CSR7A-2.1.a.1. or other method approved by the Director within 24 hours of Method 22 observations to determine if the threshold for triggering corrective actions was reached. The observation of visible emissions above the corrective action threshold, as listed above, will be considered an excursion and corrective actions shall be implemented within ten (10) working days, except for emission points 4E, 5E, 8E, and 11E which shall be within 5 working days. An excursion does not necessarily indicate an exceedance of the applicable requirement or condition except for emission points 4E, 5E, 8E, and 11E. If corrective actions for emission points 1E, 2E, 3E, 4E, 5E, 7E, 8E, 9E, 10E, 11E and 12E fail to return the equipment to a no visible emission condition the permittee shall submit written correspondence to the Director outlining the cause of the excursion, additional corrective actions that will be undertaken, and a target date for the repairs (including any lead-times for replacement equipment from the manufacturer) within 10 days following the undertaking of the initial corrective actions. During this excursion period the facility shall conduct daily Method 9 observations until the unit has returned to a no visible emission condition. The excursion period for these units shall not exceed 15 working days without prior written approval from the Director or the facility shall cease operations.

4.2.2. For the control devices identified as 09C, 10C, and 11C, the permittee shall maintain and monitor the pressure drop across each of the identified control devices and record the measured reading once per month in a log book. When the annual visible emission observation is being performed for emission point 10E, the permittee shall record the pressure drop across the corresponding control device at the beginning of each observation run. Records of monthly readings shall be maintained in accordance with 3.4.1. of this permit.

4.2.3. For the control devices identified as 09C, 10C, and 11C, the permittee shall continuously measure the pressure drop across each of the identified control devices and record the measured reading once per month in a log book. When the annual visible emission observation is being performed for emission point 10E, the permittee shall record the pressure drop across the corresponding

control device at the beginning of each observation run. Records of monthly readings shall be maintained in accordance with 3.4.1. of this permit.

4.3. Testing Requirements

4.3.1. For the purpose of demonstrating compliance with the visible emission limits in Table 4.1.1. as the result of operating units 1E, 2E, 3E, 4E, 5E, 7E, 8E, 9E, 10E, 11E, and 12E beyond the allowable 15 working days or a date as otherwise specified by the Director with prior written approval, the permittee shall conduct performance testing of the emission point that had the unacceptable number of excursions in accordance with 4.2.1. to determine the particulate matter emission rate from the corresponding emission point using U.S. EPA Methods 1 through 5 in Appendix A of 40 CFR, Part 60 or an alternative test method approved by the Director. Such testing shall be conducted within 6 months (180 days) of the last excursion from the corresponding emission point while the facility is operating at 80% or greater of its hourly capacity. Such testing shall be conducted in accordance with 3.3.1 of this permit.

4.4. Recordkeeping Requirements

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

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

b. The date(s) analyses were performed;

c. The company or entity that performed the analyses;

d. The analytical techniques or methods used;

e. The results of the analyses; and

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

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

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

a. The equipment involved.

b. Steps taken to minimize emissions during the event.

c. The duration of the event.

d. The estimated increase in emissions during the event.

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

e. The cause of the malfunction.

f. Steps taken to correct the malfunction.

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

4.4.4. The permittee shall maintain daily records of throughput of material process by the permitted facility.

4.5. Reporting Requirements

4.5.1. The permittee shall report any exceedance of the limits in sections 4.1. to the Director within thirty (30) days. If corrective actions under section 4.2.1. are triggered the permittee must make notification as specified in section 4.2. Such reports shall be submitted in accordance with applicable conditions in Subsection 3.4 of this permit. Record of such reports shall be maintained in accordance with condition 3.3.1.

CERTIFICATION OF DATA ACCURACY

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

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

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

Telephone No. _____ Fax No. _____

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

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

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

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

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

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

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