



Missouri Department of dnr.mo.gov

NATURAL RESOURCES

Michael L. Parson, Governor

Carol S. Comer, Director

APR 10 2020

Jonathan Kennedy
Environmental & Regulatory Affairs Manager
Mississippi Lime Company
16147 U.S. Highway 61
Ste Genevieve, MO 63670

RE: New Source Review Permit - Project Number: 2020-02-014

Dear Jonathan Kennedy:

Enclosed with this letter is your permit to construct. Please study it carefully and refer to Appendix A for a list of common abbreviations and acronyms used in the permit. Also, note the special conditions on the accompanying pages. The document entitled, "Review of Application for Authority to Construct," is part of the permit and should be kept with this permit in your files. Operation in accordance with these conditions, your new source review permit application and with your amended operating permit is necessary for continued compliance. The reverse side of your permit certificate has important information concerning standard permit conditions and your rights and obligations under the laws and regulations of the State of Missouri.

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

If you were adversely affected by this permit decision, you may be entitled to pursue an appeal before the administrative hearing commission pursuant to Sections 621.250 and 643.075.6 RSMo. To appeal, you must file a petition with the administrative hearing commission within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the administrative hearing commission, whose contact information is: Administrative Hearing Commission, United States Post Office Building, 131 West High Street, Third Floor, P.O. Box 1557, Jefferson City, Missouri 65102, phone: 573-751-2422, fax: 573-751-5018, website: www.oh.mo.gov/ahc.



Recycled paper

Jonathan Kennedy
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If you have any questions regarding this permit, please do not hesitate to contact Chad Stephenson, at the Department of Natural Resources' Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or at (573) 751-4817. Thank you for your attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

A handwritten signature in blue ink that reads "Susan Heckenkamp". The signature is written in a cursive style and includes a flourish at the end.

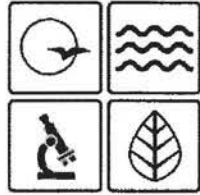
Susan Heckenkamp
New Source Review Unit Chief

SH:sca

Enclosures

c: Southeast Regional Office
PAMS File: 2020-02-014

Permit Number: **042020-005**



**MISSOURI
DEPARTMENT OF
NATURAL RESOURCES**

MISSOURI AIR CONSERVATION COMMISSION

PERMIT TO CONSTRUCT

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

Permit Number: **042020-005**

Project Number: 2020-02-014
Installation Number: 186-0001

Parent Company: Mississippi Lime Company

Parent Company Address: 3870 South Lindbergh Boulevard, Suite 200, St. Louis, MO 63127

Installation Name: Mississippi Lime Company

Installation Address: 16147 U.S. Highway 61, Ste Genevieve, MO 63670

Location Information: Ste. Genevieve County, S29, T38N, R9E

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

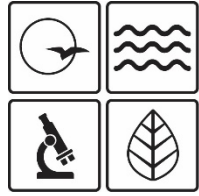
-
- Standard Conditions (on reverse) are applicable to this permit.
- Standard Conditions (on reverse) and Special Conditions are applicable to this permit.



Director or Designee
Department of Natural Resources

APR 10 2020

Effective Date



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

MISSOURI AIR CONSERVATION COMMISSION

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

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

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

Director or Designee
Department of Natural Resources

Effective Date

STANDARD CONDITIONS:

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

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

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

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

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

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

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

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

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

SPECIAL CONDITIONS:

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

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

Mississippi Lime Company
Ste. Genevieve County, S29, T38N, R9E

1. Limestone Processing Production Limit
 - A. Mississippi Lime Company shall limit its limestone processing to less than [REDACTED] tons in any consecutive 12-month rolling period from the equipment in Table 2 in the Project Description of this permit.
 - B. Mississippi Lime Company shall demonstrate compliance with Special Condition 1.A using Attachment A or another equivalent form that has been approved by the Air Pollution Control Program, including an electronic form.
2. Haul Road Watering
 - A. Mississippi Lime Company shall water all haul roads and vehicular activity areas listed in Table 2 whenever conditions exist which would cause visible fugitive emissions to enter the ambient air beyond the property boundary.
 - B. Watering may be suspended when the ground is frozen, during periods of freezing conditions when watering would be inadvisable for traffic safety reasons, or when there will be no traffic on the roads.
3. Record Keeping and Reporting Requirements
 - A. Mississippi Lime Company shall maintain all records required by this permit for not less than five years and shall make them available immediately to any Missouri Department of Natural Resources' personnel upon request.
 - B. Mississippi Lime Company shall report to the Air Pollution Control Program's Compliance/Enforcement Section, by mail at P.O. Box 176, Jefferson City, MO 65102 or by email at AirComplianceReporting@dnr.mo.gov, no later than 10 days after the end of the month during which any record required by this permit shows an exceedance of a limitation imposed by this permit.

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

Project Number: 2020-02-014

Installation ID Number: 186-0001

Permit Number:

Installation Address:

Mississippi Lime Company
16147 U.S. Highway 61
Ste Genevieve, MO 63670

Parent Company:

Mississippi Lime Company
3870 South Lindbergh Boulevard, Suite 200
St. Louis, MO 63127

Ste. Genevieve County, S29, T38N, R9E

REVIEW SUMMARY

- Mississippi Lime Company has applied for authority to construct limestone processing equipment.
- The application was deemed complete on February 25, 2020.
- HAP emissions are expected from the proposed equipment. HAPs of concern from this process are from the combustion of diesel fuel.
- 40 CFR Part 60 Subpart OOO, *Standards of Performance for Nonmetallic Mineral Processing Plants*, applies to the equipment.
- 40 CFR Part 63 Subpart ZZZZ, *National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines* applies to the diesel engines.
- 40 CFR 60 Subpart IIII, *Standards of Performance for Stationary Compression Ignition Internal Combustion Engines*
- None of the currently promulgated MACT regulations apply to the proposed equipment.
- Undocumented haul road watering is being used to control the emissions from the haul roads.
- This review was conducted in accordance with Section (5) of Missouri State Rule 10 CSR 10-6.060, *Construction Permits Required*. Potential emissions of all pollutants are conditioned below de minimis levels.
- This installation is located in Ste. Genevieve County, an attainment/unclassifiable area for all criteria pollutants.

- This installation is on the List of Named Installations found in 10 CSR 10-6.020(3)(B), Table 2. The installation is classified as item number 11, *Lime plants*. The installation's major source level is 100 tons per year and fugitive emissions are counted toward major source applicability.
- Ambient air quality modeling was not performed since potential emissions of the application are below de minimis levels.
- Emissions testing is not required for the equipment as a part of this permit. Testing may be required as part of other state, federal or applicable rules, specifically NSPS OOO.
- The installation shall update Part 70 Operating Permit application project number 2017-12-055 within 1 year of equipment startup.
- Approval of this permit is recommended with special conditions.

INSTALLATION DESCRIPTION

Mississippi Lime Company operates a lime processing plant in Ste. Genevieve, Missouri. Limestone is mined, crushed, kiln heated for calcination, hydrated, packaged, and shipped on site. The high calcium products are used in construction, environmental, food, and other markets. Mississippi Lime Company is a major source for Particulate Matter, SO_x, NO_x, VOCs, CO, and HAPs. The facility currently has a Part 70 Operating Permit renewal application submitted as part of Project No. 2017-05-077.

The following New Source Review permits have been issued to Mississippi Lime Company from the Air Pollution Control Program.

Table 1: Permit History

Permit Number	Description
072018-008	Burn natural gas at RK1, RK2
102017-015	Lime loadout
062017-010	Underground crushing plant
032016-005	Modification of stone screen and loadout system.
072015-011	New lime milling system and lime screening system.
082014-010	Temporary crushing operation.
042014-003	Temporary mine screening operation.
122013-009A	Amended emission calculations.
122013-009	A Section (5) permit issued on December 30, 2015 for the modification of three (3) existing kilns.
102013-009	Temporary portable crusher and screening operation.
072013-007	Temporary mine crushing operation.
112012-009B	Amended test conditions.
112012-009A	Amended two emission units and haul road at lime hydrating plant.

Permit Number	Description
112012-009	A Section (5) permit issued on November 19, 2012 for a new lime hydrating plant.
082011-002	A Section (5) permit issued on July 5, 2011 for hydration process.
042010-010	A Section (5) permit issued on April 16, 2010 for a transfer loading station to transfer finished lime product to temporary storage.
042009-001	A Section (5) permit for new limestone crushing, screening, and conveying equipment for the underground mine
072004-012	Vertical kilns-(netting).
052003-045	A Section (5) permit issued on May 2, 2003, for a new lime hydrator.
122002-007	A Section (8) permit for two (2) new Rotary Lime Kilns.
102002-008	A Section (5) permit issued on October 7, 2002, for a lime handling system.
082002-004	A Section (5) permit issued on August 9, 2002, for a new railcar transloading system.
092001-014	A Section (5) permit issued on September 19, 2001, for a new Vertical Kiln plant with supporting equipment.
112001-005	A Section (5) permit issued on November 6, 2001, for a new bagging operation.
052001-003	A Section (5) permit issued on May 4, 2001, to add two (2) additional hydrated lime storage silos, two (2) additional truck load out systems and one (1) additional rail load out system.
0999-009	A Section (3) Temporary Permit issued on September 14, 1999, to reclaim and remediate waste storage piles. Permit Expiration Date: July 31, 2001.
0799-015	A Section (5) permit issued on July 20, 1999, to revise Permit No. 0679-002 to account for increased potential emissions.
1198-020	A Section (5) permit issued on November 24, 1998, for a modification to the rotary kiln load out system.
0898-019	A Section (5) permit issued on August 17, 1998, for construction of a Maerz natural gas fired vertical lime kiln and ancillary equipment.
0198-006	A Section (5) permit issued on January 8, 1998, for the addition of a pneumatic conveying system from the Rotary Hydrate Plants No. 2 & No. 3 to Rotary Hydrate Plant No. 1.
0997-015	A Section (5) permit issued on September 11, 1997, for modifications to the lime handling and blending system at the Peerless Plant.
0897-035	A Section (5) permit issued on August 26, 1997, to amend Permit No. 0292-010A for a natural gas fired Maerz Vertical Lime Kiln to include an ancillary limestone feed and limestone processing system.
0897-018	A Section (5) permit issued on December 2, 1997, to replace an existing natural gas fired burner of the precipitated calcium carbonate system (MRPCC-2) with a larger burner.
0897-017	A Section (5) permit issued on August 20, 1997, for an underground limestone crushing operation.
0395-008	A Section (5) permit issued on February 10, 1995, to construct a new hydrate bulk bagging system.
0794-014	A Section (5) permit issued on July 20, 1994, to construct a Fuller pneumatic conveying system to convey precipitated calcium carbonate (PPC) from PPC Plant No. 1 to PPC Plant No. 2.
0292-010	A Section (5) permit issued on February 1, 1992, for the addition of a new natural gas fired Maerz Vertical Lime kiln.
1090-006	A Section (5) permit issued on October 11, 1990, for the addition of two (2) storage silos for lime hydrate.
0889-013	A Section (5) permit issued on August 30, 1989, to add a calcium carbonate slurry operation.
0588-008A	A Section (5) permit issued on May 31, 1988, for a milling operation.
1086-005A	A Section (5) permit issued on October 1, 1986, to construct a precipitated calcium carbonate plant (MRPCC-2).

Permit Number	Description
0284-008A to 010A	A Section (5) permit issued on February 21, 1984, to construct a rotary hydrator (MRH-3).
0480-006	A Section (8) permit issued on April 1, 1980, to construct two (2) rotary lime kiln systems.
0679-002	A Section (5) permit issued on June 6, 1979, for various crushing, conveying, storage and loading equipment.

PROJECT DESCRIPTION

Mississippi Lime Company proposes to install limestone processing equipment that includes conveyors, hoppers, screens, storage piles, front end loaders, and diesel engines powering some of the equipment. Stone will be drawn from an existing stone pile (EP-407) for the proposed stone processing equipment. Processed limestone from the new equipment will feed an existing hopper (EP-342D). This project will not debottleneck any of the processes upstream or downstream of the proposed project.

Table 2 below lists all emission points for the project.

Table 2. Project Emission Points Summary

Emission Unit	Description	MHDR (tph unless noted)	Control Device
EP-1083	Loader Filling from Existing Pile	██████	N/A
EP-1083B	Loader Vehicular Activity from Existing Pile to Hopper	██████	Undocumented Watering
EP-1084	Hopper	██████	N/A
EP-1084A	Hopper Engine	██████	N/A
EP-1085	Conveyor	██████	N/A
EP-1085A	Conveyor Engine	██████	N/A
EP-1086	Transfer point stone wash	██████	Moisture Content
EP-1086A	Stone wash engine	██████	Moisture Content
EP-1087	Conveyor	██████	Moisture Content
EP-1087A	Conveyor Engine	██████	Moisture Content
EP-1088A	Pile Forming	██████	Moisture Content
EP-1088B	Pile Vehicular Activity Area	██████	Undocumented Watering
EP-1088C	Pile Wind Erosion	██████	Moisture Content
EP-1089	Loader Filling from pile	██████	Moisture Content
EP-1090	Hopper	██████	Moisture Content
EP-1090A	Hopper Engine	██████	N/A

Emission Unit	Description	MHDR (tph unless noted)	Control Device
EP-1091	Conveyor	██████	Moisture Content
EP-1091A	Conveyor Engine	██████	N/A
EP-1092	Conveyor	██████	Moisture Content
EP-1092A	Conveyor Engine	██████	N/A
EP-1093	Wet Screen	██████	Moisture Content
EP-1094	Conveyor	██████	Moisture Content
EP-1095	Conveyor	██████	Moisture Content
EP-1096A	Pile Forming	██████	Moisture Content
EP-1096B	Pile Vehicular Activity Area	██████	Undocumented Watering
EP-1096C	Pile Wind Erosion	██████	Moisture Content
EP-1096D	Load out	██████	Moisture Content
EP-1097	Conveyor	██████	Moisture Content
EP-1098A	Pile Forming	██████	Moisture Content
EP-1098B	Pile Vehicular Activity Area	██████	Undocumented Watering
EP-1098C	Pile Wind Erosion	██████	Moisture Content
EP-1099	Loader Filling	██████	Moisture Content
EP-1100	Hopper	██████	Moisture Content
EP-1100A	Hopper Engine	██████	N/A
EP-1101	Conveyor	██████	Moisture Content
EP-1101A	Conveyor Engine	██████	N/A
EP-1102	Screen	██████	Moisture Content
EP-1102A	Screen Engine	██████	N/A
EP-1103	Screen to Existing Process Haul Road	██████	Undocumented Watering

¹All haul roads and vehicular activity areas combined are ████████ VMT/hr

²All storage piles combined are expected to be no more than ████████ acres

Mississippi Lime Company has requested to keep the design rates, emission factors, and control efficiencies of this project confidential per Missouri State Rules 10 CSR 10-6.210 *Confidential Information*. This is the public version of the permit. A confidential version exists under Project No. 2020-02-015.

EMISSIONS/CONTROLS EVALUATION

Particulate emissions from the hopper, screens, and conveyor operations were calculated using emission factors taken from the EPA document AP-42, *Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources*, Fifth Edition, Section 11.19.2 *Crushed Stone Processing and Pulverized Mineral Processing*. Controlled emission factors were used for emission units marked as moisture content control in Table 2 because limestone is washed and/or goes through a wet screen. Furthermore, Mississippi Lime Company is required in their Title V operating permit (OP2013-035B) to test the moisture content of rock from the underground mine and supply moisture content testing results showing the moisture content greater than 1.5 percent moisture by weight so additional testing is not required by this permit.

PM, PM₁₀, and PM_{2.5} emissions from haul roads and vehicular activity areas were calculated using the predictive equation from AP-42, Section 13.2.2 "Unpaved Roads," November 2006. A [REDACTED] control efficiency for PM and PM₁₀ and a [REDACTED] control efficiency for PM_{2.5} are applied to the emission calculations for the use of undocumented watering. The loaders will travel on a maximum of [REDACTED] ft of haul roads/vehicular activity areas associated with the new equipment.

PM, PM₁₀, and PM_{2.5} emissions from wind erosion of storage piles were calculated using an equation found in the Air Pollution Control Program's Emissions Inventory Questionnaire Form 2.8 "Storage Pile Worksheet." A moisture content of 1.5% was used.

PM, PM₁₀, and PM_{2.5} emissions from load-in (pile forming) and load-out (loader filling) of storage piles were calculated using the predictive equation from AP-42, Section 13.2.4. A moisture content of 1.5% was used.

Emissions from the diesel engines were calculated using emission factors from AP-42 Section 3.3 Gasoline and Diesel Industrial Engines," October 1996.

The following table provides an emissions summary for this project. Existing potential emissions were taken from permit 102017-015. Existing actual emissions were taken from the installation's 2018 EIQ. Conditioned potential emissions of the application represent the potential of the project with a production limit of [REDACTED] tons per consecutive 12 month period to remain under all de minimis levels.

Table 3: Emissions Summary (tpy)

Pollutant	Regulatory <i>De Minimis</i> Levels	Existing Potential Emissions	Existing Actual Emissions (2018 EIQ)	Conditioned Potential Emissions of the Project
PM	25.0	>250.0	N/D	24.97
PM ₁₀	15.0	>250.0	1160.76	9.74
PM _{2.5}	10.0	>250.0	561.83	3.56
SO _x	40.0	>250.0	1534.97	1.39
NO _x	40.0	>250.0	5433.96	21.20
VOC	40.0	>250.0	44.10	1.76
CO	100.0	>250.0	2571.10	5.02
HAPs	10.0/25.0	>25.0	28.03	0.02

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

PERMIT RULE APPLICABILITY

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

APPLICABLE REQUIREMENTS

Mississippi Lime Company shall comply with the following applicable requirements. The Missouri Air Conservation Laws and Regulations should be consulted for specific record keeping, monitoring, and reporting requirements. Compliance with these emission standards, based on information submitted in the application, has been verified at the time this application was approved. For a complete list of applicable requirements for your installation, please consult your operating permit.

GENERAL REQUIREMENTS

- *Operating Permits*, 10 CSR 10-6.065
- *Start-Up, Shutdown, and Malfunction Conditions*, 10 CSR 10-6.050
- *Submission of Emission Data, Emission Fees and Process Information*, 10 CSR 10-6.110
 - Per 10 CSR 10-6.110(4)(B)2.B(II) and (4)(B)2.C(II) a full EIQ is required for the first full calendar year the equipment (or modifications) approved by this permit are in operation.
 - Per 10 CSR 10-6.110(4)(B)2.B(II) and (4)(B)2.C(II) a full EIQ is required every year for Part 70 installations.
- *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin*, 10 CSR 10-6.170

- *Restriction of Emission of Visible Air Contaminants*, 10 CSR 10-6.220
- *Restriction of Emission of Odors*, 10 CSR 10-6.165

SPECIFIC REQUIREMENTS

- 40 CFR Part 63 Subpart ZZZZ, “National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines” applies to the diesel engines.
- 40 CFR 60 Subpart IIII, “Standards of Performance for Stationary Compression Ignition Internal Combustion Engines”
- 40 CFR Part 60 Subpart OOO, “Standards of Performance for Nonmetallic Mineral Processing Plants”, applies to the equipment.
- None of the National Emission Standards for Hazardous Air Pollutants (NESHAPS) or National Emission Standards for Hazardous Air Pollutants for Source Categories (MACTS) apply to the proposed equipment.
- *Control of Sulfur Dioxide Emissions*, 10 CSR 10-6.261. The limestone processing equipment complies with 10 CSR 10-6.261 (3)(C) if ultra-low sulfur diesel with a sulfur content of 15 ppm is used.

STAFF RECOMMENDATION

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

PERMIT DOCUMENTS

The following documents are incorporated by reference into this permit:

- The Application for Authority to Construct form, dated February 7, 2020, received February 11, 2020, designating Mississippi Lime Company as the owner and operator of the installation.

APPENDIX A

Abbreviations and Acronyms

% percent	Mgal 1,000 gallons
°F degrees Fahrenheit	MW megawatt
acfm actual cubic feet per minute	MHDR maximum hourly design rate
BACT Best Available Control Technology	MMBtu Million British thermal units
BMPs Best Management Practices	MMCF million cubic feet
Btu British thermal unit	MSDS Material Safety Data Sheet
CAM Compliance Assurance Monitoring	NAAQS National Ambient Air Quality Standards
CAS Chemical Abstracts Service	NESHAPs National Emissions Standards for Hazardous Air Pollutants
CEMS Continuous Emission Monitor System	NO_xnitrogen oxides
CFR Code of Federal Regulations	NSPS New Source Performance Standards
CO carbon monoxide	NSR New Source Review
CO₂ carbon dioxide	PMparticulate matter
CO_{2e} carbon dioxide equivalent	PM_{2.5}particulate matter less than 2.5 microns in aerodynamic diameter
COMS Continuous Opacity Monitoring System	PM₁₀particulate matter less than 10 microns in aerodynamic diameter
CSR Code of State Regulations	ppmparts per million
dscf dry standard cubic feet	PSD Prevention of Significant Deterioration
EQ Emission Inventory Questionnaire	PTEpotential to emit
EP Emission Point	RACT Reasonable Available Control Technology
EPA Environmental Protection Agency	RAL Risk Assessment Level
EU Emission Unit	SCC Source Classification Code
fps feet per second	scfm standard cubic feet per minute
ft feet	SDS Safety Data Sheet
GACT Generally Available Control Technology	SIC Standard Industrial Classification
GHG Greenhouse Gas	SIP State Implementation Plan
gpm gallons per minute	SMAL Screening Model Action Levels
gr grains	SO_x sulfur oxides
GWP Global Warming Potential	SO₂ sulfur dioxide
HAP Hazardous Air Pollutant	SSM Startup, Shutdown & Malfunction
hr hour	tph tons per hour
hp horsepower	tpy tons per year
lb pound	VMT vehicle miles traveled
lbs/hr pounds per hour	VOC Volatile Organic Compound
MACT Maximum Achievable Control Technology	
µg/m³ micrograms per cubic meter	
m/s meters per second	