



# GEORGIA

DEPARTMENT OF NATURAL RESOURCES

## ENVIRONMENTAL PROTECTION DIVISION

### Air Quality - Part 70 Operating Permit Amendment

**Facility Name:** Thiele Kaolin Company, Sandersville Plant  
**Facility Address:** 520 Kaolin Road  
Sandersville, Georgia 31082 (Washington County)  
**Mailing Address:** P. O. Box 1056  
Sandersville, Georgia 31082  
**Parent/Holding Company:** Thiele Kaolin Company  
**Facility AIRS Number:** 04-13-303-00006

In accordance with the provisions of the Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Georgia Rules for Air Quality Control, Chapter 391-3-1, adopted pursuant to and in effect under the Act, the Permittee described above is issued an amendment to the Part 70 Operating Permit for:

**The operation of the equipment associated with the recently purchased No. 3 Calciner.**

This Permit Amendment is conditioned upon compliance with all provisions of The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq, the Rules, Chapter 391-3-1, adopted and in effect under that Act, or any other condition of this Amendment and Permit No. 3295-303-0006-V-04-0. Unless modified or revoked, this Amendment expires simultaneously with Permit No. 3295-303-0006-V-04-0. This Amendment may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in App No. 658337 dated May 24, 2022; any other applications upon which this Amendment or Permit No. 3295-303-0006-V-04-0 are based; supporting data entered therein or attached thereto; or any subsequent submittal or supporting data; or for any alterations affecting the emissions from this source.

This Amendment is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 3 pages.



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Richard E. Dunn, Director  
Environmental Protection Division

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## Title V Permit Amendment

Thiele Kaolin Company, Sandersville Plant

Permit No.: 3295-303-0006-V-04-1

### PART 1.0 FACILITY DESCRIPTION

### PART 1.0 FACILITY DESCRIPTION

#### 1.3 Process Description of Modification

Thiele Kaolin Company purchased existing No. 3 Calciner, from its neighbor IMERYS - SANDERSVILLE CALCINE PLANT, and submitted Application No. 658337 requesting adding the equipment associated with said Calciner to its current Title V permit No. 3295-303-0006-V-04-0.

### PART 3.0 REQUIREMENTS FOR EMISSION UNITS

Note: Except where an applicable requirement specifically states otherwise, the averaging times of any of the Emissions Limitations or Standards included in this permit are tied to or based on the run time(s) specified for the applicable reference test method(s) or procedures required for demonstrating compliance.

#### 3.1.1 Additional Emission Units

Emission Units		Applicable Requirements/Standards	Air Pollution Control Devices	
ID No.	Description		ID No.	Description
M11	Bauer Premill Nos. 11, 12	40 CFR Subpart OOO 391-3-1-.02(2)(b) 391-3-1-.02(2)(p) 391-3-1-.02(1)(c)	M11C/M12C	Baghouse
M14	Bauer Postmill Nos. 14, 15, 16	40 CFR Subpart OOO 391-3-1-.02(2)(b) 391-3-1-.02(2)(p) 391-3-1-.02(1)(c)	M14C	Baghouse
H3	Calciner No. 3 Horizontal Mill	40 CFR Subpart OOO 391-3-1-.02(2)(b) 391-3-1-.02(2)(p) 391-3-1-.02(1)(c)	H3C	Baghouse
C3	Calciner No. 3	391-3-1-.02(2)(b) 391-3-1-.02(2)(p) 391-3-1-.02(1)(c)	C3C	Scrubber
K3	Calciner No. 3 Cooler/Conveyor	40 CFR Subpart OOO 391-3-1-.02(2)(b) 391-3-1-.02(2)(p) 391-3-1-.02(1)(c)	K3C	Baghouse
R26	Bulk Loading from Silo 26	391-3-1-.02(2)(b) 391-3-1-.02(2)(p) 391-3-1-.02(1)(c)	R26C	Baghouse
V22	Silo No. 22	391-3-1-.02(2)(b) 391-3-1-.02(2)(p) 391-3-1-.02(1)(c)	V22C	Bin Vent
V26	Silo No. 26	391-3-1-.02(2)(b) 391-3-1-.02(2)(p) 391-3-1-.02(1)(c)	V26C	Bin Vent

\* Generally applicable requirements contained in this permit may also apply to emission units listed above. The lists of applicable requirements/standards and corresponding permit conditions are intended as a compliance tool and may not be definitive.

### 3.2 Equipment Emission Caps and Operating Limits

- 3.2.11 The Permittee shall not exceed the PSD Increment for PM<sub>10</sub> (particulate matter less than or equal to 10 micrometers aerodynamic diameter) in accordance with the 40 CFR Part 52.21 *Prevention of Significant Deterioration of Air Quality*. Specifically, the increment consuming sources listed in the following Table shall not exceed the specified limit.  
[391-3-1-.02(1)(c)]

Title V Stack Code No.	Source ID	Increment Consuming Sources	PM <sub>10</sub> Emission Limit (lb/hr)
H3S	H3	Calcliner No. 3 Horizontal Mill	0.081
M11S / M12S	M11	Calcliner 3, Premills 11, 12	0.842
M14S	M14	Calcliner 3, Postmills 14, 15, 16	0.842
K3S	K3	Calcliner 3 Cooler	1.685
C3S	C3	Calcliner No. 3 Scrubber	1.171
V22S	V22	Bin Vent, Silo 22	0.146
V26S	V26	Bin Vent, Silo 26	0.012

A list of increment consuming sources subject to limits which will ensure compliance with the PSD increment. The limits are based on PM<sub>10</sub> Increment Modeling received on April 06, 1998.

- 3.2.12 The Permittee shall burn only natural gas, propane, or No. 2 fuel oil in Calcliner No. 3 (C3). The sulfur content of the No. 2 fuel oil shall not exceed 0.5 weight percent.  
[391-3-1-.03(2)(c) and 391-3-1-.02(2)(g)]

## PART 5.0 REQUIREMENTS FOR MONITORING (Related to Data Collection)

### 5.2 Specific Monitoring Requirements

- 5.2.12 The Permittee shall install, calibrate, maintain, and operate monitoring devices for the measurement of the indicated parameters on the following equipment. Data shall be recorded at the frequency specified below. Where such performance specification(s) exist, each system shall meet the applicable performance specification(s) of the Division's monitoring requirements.  
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
- A monitoring device for continuously monitoring and recording the pressure loss of the gas stream through Scrubber C3C. The pressure drop monitoring device must be certified by the manufacturer to be accurate within 5 percent of water column gauge pressure at the level of operation.
  - A monitoring device for continuously monitoring and recording the scrubbing liquid flow rate to Scrubber C3C. The liquid flow rate monitoring device must be certified by the manufacturer to be accurate within 5 percent of the design scrubbing liquid flow rate.

**PART 6.0 OTHER RECORD KEEPING AND REPORTING REQUIREMENTS**

**6.1 General Record Keeping and Reporting Requirements**

6.1.8 For the purpose of reporting excess emissions, exceedances or excursions in the report required in Condition 6.1.4, the following excess emissions, exceedances, and excursions shall be reported:  
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

- a. Excursions: (means for the purpose of this Condition and Condition 6.1.4, any departure from an indicator range or value established for monitoring consistent with any averaging period specified for averaging the results of the monitoring)
  - i. For Scrubber C3C any two-hour average of the wet scrubber pressure loss that is outside of the range established in Condition 5.2.12.
  - ii. For Scrubber C3C any two-hour average of the wet scrubber liquid flow rate that is less than the value established in Condition 5.2.12.

**6.2 Specific Record Keeping and Reporting Requirements**

6.2.7 The Permittee shall submit with the semiannual reports required by Condition 6.1.4, a 12 consecutive month total of fuel oil combusted in the Calciner (SD08), Spray Dryer 1 (SD01), Spray Dryer No. 2 (SD02), Spray Dryer No. 3 (SD03), Spray Dryer No. 4 (SD04), Spray Dryer No. 5 (SD05), and No. 3 Calciner (C3) respectively for each of the six months in the semiannual period. A 12 consecutive month total shall be the total for a month in the reporting period plus the totals for the previous eleven consecutive months.  
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i), PSD Avoidance 40 CFR Part 52.21]

## Title V Permit Amendment

Thiele Kaolin Company, Sandersville Plant

Permit No.: 3295-303-0006-V-04-1

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