



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 a construction permit for:

Multiple changes to the Atrex mixing system including the addition of an 2nd Atrex Mixer.

This Permit Amendment shall also serve as a final amendment to the Part 70 Permit unless objected to by the U.S. EPA or withdrawn by the Division. The Division will issue a letter when this Operating Permit amendment is finalized.

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-05-0**. Unless modified or revoked, this Amendment expires upon issuance of the next Part 70 Permit for this source. This Amendment evidence of noncompliance with any of the above; or for any misrepresentation made in **Application No. 886400** dated **January 9, 2025**; any other applications upon which this Amendment or Permit No. **3295-303-0006-V-05-0** 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 7 pages.

Jeffrey W. Cown

Jeffrey W. Cown, Director
Environmental Protection Division



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PART 1.0 FACILITY DESCRIPTION**1.3 Process Description of Modification**

The Permittee has proposed multiple changes to the Atrex mixing system including the addition of an 2nd Atrex Mixer that will vent indoors after a scrubber. The new “Atrex Mixer #2 400A Weigh Belt” Source ID SC33 will be controlled by the new attached SB54 Dust Collector and will vent inside. A new – “Atrex Mixer #2 Screw Conveyor” Source ID SC34 will also be installed and will emit indoors. The existing Atrex Grinder/Mixer source ID SM05 will vent indoors after the scrubbing system instead of venting to the atmosphere through baghouses SB20 and SB21. All new sources will vent inside building and will not increase emissions to atmosphere.

The “Slurry system silo 400A weigh belt will exhaust to a new attached SB55 Dust Collector instead of baghouse SB23.

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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 Updated Emission Units

Emission Units		Applicable Requirement(s) / Standard(s)	Air Pollution Control Devices	
ID No.	Description		ID No.(s)	Description
SPRAY DRYERS				
SD01	Spray Dryer No. 1	391-3-1-.02(2)(b) 391-3-1-.02(2)(p)2 391-3-1-.02(2)(g)	SB01	Baghouse
SD02	Spray Dryer No. 2	391-3-1-.02(2)(b) 391-3-1-.02(2)(p)2 391-3-1-.02(2)(g)	SB02	Baghouse
SD03	Spray Dryer No. 3	391-3-1-.02(2)(b) 391-3-1-.02(2)(p)2 391-3-1-.02(2)(g)	SB03	Baghouse
SC31	Railcar Loading at Spray Dryer No. 3			
SD04	Spray Dryer No. 4	391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(g) 40 CFR Part 52.21	SB04	Baghouse
SD05 SC17	Spray Dryer No. 5 Railcar Loading at Spray Dryer No. 5	391-3-1-.02(2)(p)1 391-3-1-.02(2)(g) NSPS UUU NSPS OOO 40 CFR Part 52.21	SB05	Baghouse
SD06	Spray Dryer No. 6	391-3-1-.02(2)(p)1 391-3-1-.02(2)(g) NSPS UUU 40 CFR Part 52.21	SW01 SB06	Heat Recovery Scrubber Baghouse
SD07	Spray Dryer No. 7	391-3-1-.02(2)(p)1 391-3-1-.02(2)(g) NSPS UUU 40 CFR Part 52.21	SW03 SB07	Heat Recovery Scrubber Baghouse
CALCINERS				
SD08	Calciner No. 1	391-3-1-.02(2)(p)1 391-3-1-.02(2)(g) NSPS UUU 40 CFR Part 52.21	SW01 SB06 Or SW02 SW01	Heat Recovery Scrubber Baghouse Or Venturi Scrubber Heat Recovery Scrubber
SD09	Calciner No. 2	391-3-1-.02(2)(p)1 391-3-1-.02(2)(g) NSPS UUU 40 CFR Part 52.21	SW03 SB07 Or SW04 SW03	Heat Recovery Scrubber Baghouse Or Venturi Scrubber Heat Recovery Scrubber

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Emission Units		Applicable Requirement(s) / Standard(s)	Air Pollution Control Devices	
ID No.	Description		ID No.(s)	Description
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
BAGGERS, RECEIVERS, SILOS, AND BUCKET ELEVATORS				
SC01	Bucket Elevator at Spray Dryer No. 2	391-3-1-.02(2)(b) 391-3-1-.02(2)(p)1	SB08	Baghouse
SC02	Bucket Elevator at Spray Dryer No. 3	391-3-1-.02(2)(b) 391-3-1-.02(2)(p)1	SB45	Baghouse
SC03	Bucket Elevator and Railcar Loading at Spray Dryer No. 4	391-3-1-.02(2)(p)1 NSPS OOO	SB10	Baghouse (Exhausts Internally)
SP07	One ton Bagger at Calciner Warehouse	391-3-1-.02(2)(p)1 NSPS OOO	SB50 SB48	Baghouse (Exhausts Internally)
SC04	Bucket Elevator at Spray Dryer No. 4 Silo Loading	391-3-1-.02(2)(b) 391-3-1-.02(2)(p)1	SB11	Baghouse
SC05	50 lb. Bagger Scavenger	391-3-1-.02(2)(b) 391-3-1-.02(2)(p)1	SB12	Baghouse (Exhausts Internally)
SS02	Silo 100B for Spray Dryer Products	391-3-1-.02(2)(p)1 NSPS OOO 40 CFR Part 52.21	SB31	Bin vent
SC06	Pneumatic Conveyor to Product Conveyor/Receiver on Silo 200B	391-3-1-.02(2)(p)1 NSPS OOO 40 CFR Part 52.21	SB13	Baghouse
SC07	Pneumatic Conveyor to Product Conveyor/Receiver on No. 1 Calciner	391-3-1-.02(2)(p)1 NSPS OOO 40 CFR Part 52.21	SB14	Baghouse
SC08	Pneumatic Conveyor to Product Conveyor/Receiver on Silo 300B	391-3-1-.02(2)(p)1 NSPS OOO 40 CFR Part 52.21	SB15 SB16	Baghouse
SC09	Pneumatic Conveyor to Product Conveyor/Receiver on Silo 400B	391-3-1-.02(2)(p)1 NSPS OOO 40 CFR Part 52.21	SB17	Baghouse
SS03	Silo 100A	391-3-1-.02(2)(p)1 NSPS OOO 40 CFR Part 52.21	SB32	Bin vent
SC11	Pneumatic Conveyor to Product Conveyor/Receiver on Silo 200A	391-3-1-.02(2)(p)1 NSPS OOO 40 CFR Part 52.21	SB18	Baghouse
SC12	Pneumatic Conveyor to Product Conveyor/Receiver on Calciner No. 2	391-3-1-.02(2)(p)1 NSPS OOO 40 CFR Part 52.21	SB19	Baghouse
SC13	Pneumatic Conveyor to Product Conveyor/Receiver on Silo 300A	391-3-1-.02(2)(p)1 NSPS OOO 40 CFR Part 52.21	SB20 SB21	Baghouse
SC14	Pneumatic Conveyor to Product Conveyor/Receiver on Silo 400A	391-3-1-.02(2)(p)1 NSPS OOO 40 CFR Part 52.21	SB22	Baghouse
SC18	Railcar Loading at Calciner Nos. 1 and 2	391-3-1-.02(2)(p)1 NSPS OOO	SB25	Baghouse (Exhausts Internally)
R26	Bulk Loading from Silo 26	391-3-1-.02(2)(b) 391-3-1-.02(2)(p)	R26C	Baghouse

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Emission Units		Applicable Requirement(s) / Standard(s)	Air Pollution Control Devices	
ID No.	Description		ID No.(s)	Description
		391-3-1-.02(1)(c)		
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
SC30	Calcliner Railcar Compactor Loading Chute	391-3-1-.02(2)(p)1 NSPS OOO	SB53	Bin Vent (Exhausts Internally)
SLURRY SYSTEM				
SC15	Slurry system silo 400A weigh belt	391-3-1-.02(2)(p)1 NSPS OOO	SB55	Dust Collector (Exhausts Internally)
SC32	Slurry system silo 400B screw conveyor	391-3-1-.02(2)(p)1	---	---
SC33	Atrex Mixer #2 400A Weigh Belt	391-3-1-.02(2)(p)1 NSPS OOO	SB54	Dust Collector (Exhausts Internally)
SC34	Atrex Mixer #2 Screw Conveyor	391-3-1-.02(2)(p)1	---	---
MILLS				
SM01	Calcliner No. 1 premills (5)	391-3-1-.02(2)(p)1 NSPS OOO	SB13	Baghouse
SM02	Calcliner No. 1 postmills (8)	391-3-1-.02(2)(p)1 NSPS OOO	SB17	Baghouse
SM03	Calcliner No. 2 premills (3)	391-3-1-.02(2)(p)1 NSPS OOO	SB18	Baghouse
SM04	Calcliner No. 2 postmills (8)	391-3-1-.02(2)(p)1 NSPS OOO	SB22	Baghouse
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	Calcliner 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
SILOS, CONVEYORS, BUCKET ELEVATORS AND BAGGERS				
SS13	Silo No. 1	391-3-1-.02(2)(b) 391-3-1-.02(2)(p)2	SB40	Bin vent
SS14	Silo No. 2	391-3-1-.02(2)(b) 391-3-1-.02(2)(p)2	SB41	Bin vent
SS15	Silo No. 3	391-3-1-.02(2)(b) 391-3-1-.02(2)(p)2	SB42	Bin vent
SS16	Silo No. 4	391-3-1-.02(2)(b) 391-3-1-.02(2)(p)2	SB43	Bin vent
SS17	Silo No. 5	391-3-1-.02(2)(b) 391-3-1-.02(2)(p)2	SB45	Baghouse
SM05	Atrex Grinder/Mixer	391-3-1-.02(2)(p)1	n/a	n/a

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Emission Units		Applicable Requirement(s) / Standard(s)	Air Pollution Control Devices	
ID No.	Description		ID No.(s)	Description
SM06	Atrex Mixer # 2	391-3-1-.02(2)(p)1	n/a	n/a
SP10	Stamlyer Feeder/Slicer (Crusher)	391-3-1-.02(2)(p)1 NSPS OOO	--	None
SS10	Avant Mine Silo 1	391-3-1-.02(2)(p)1 NSPS OOO	SB37	Bin Vent
SS11	Avant Mine Silo 2	391-3-1-.02(2)(p)1 NSPS OOO	SB38	Bin Vent
SC26	Big Bagging Feed Screw #1	391-3-1-.02(2)(p)1 NSPS OOO	SB26 SB27	Bin Vent Baghouse
SC27	Bagging Bucket Elevator	391-3-1-.02(2)(p)1 NSPS OOO	SB26 SB27	Bin Vent Baghouse
SS06	Existing Big Bagging Bin	391-3-1-.02(2)(p)1 NSPS OOO	SB26 SB27	Bin Vent Baghouse
SP03	#1 Big Bagger – 2000 lbs	391-3-1-.02(2)(p)1 NSPS OOO	SB26	Baghouse
SP04	#2 Big Bagger – 2000 lbs	391-3-1-.02(2)(p)1 NSPS OOO	SB26	Baghouse
SS07	M1-3 50# Bag Bagging Bin – 100 Tons	391-3-1-.02(2)(p)1 NSPS OOO	SB35	Bin Vent
SP05	Impeller Packers 1-4	391-3-1-.02(2)(p)1 NSPS OOO	SB29	Baghouse
SC19	Big Bag Reclaim Unit	391-3-1-.02(2)(p)1 NSPS OOO	SB26	Baghouse
SC20	Big Bag Reclaim Screw Conveyor	391-3-1-.02(2)(p)1 NSPS OOO	SB26 SB27	Bin Vent Baghouse
SC21	Wire Mesh Conveyor	391-3-1-.02(2)(p)1 NSPS OOO	SB28 SB29	Baghouse
SC22	Conveying Belt System	391-3-1-.02(2)(p)1 NSPS OOO	SB28 SB29	Baghouse
SS08	Takeaway Reclaim Hopper	391-3-1-.02(2)(p)1 NSPS OOO	SB28 SB29	Baghouse
SC23	Takeaway Reclaim Screw Conveyor	391-3-1-.02(2)(b) 391-3-1-.02(2)(p)1 NSPS OOO	SB28 SB29	Baghouse
SC24	Little Bag Reclaim Unit	391-3-1-.02(2)(p)1 NSPS OOO	SB28 SB29	Baghouse
SC25	Big Bagging Feed Screw Conveyor #2	391-3-1-.02(2)(p)1 NSPS OOO	SB26 SB27	Bin Vent Baghouse
SS05	Slurry System #1 Make down Bin	391-3-1-.02(2)(b) 391-3-1-.02(2)(p)1	SB34	Bin Vent
SS09	#3 Interstitial Silo	391-3-1-.02(2)(p)1 NSPS OOO	SB36	Bin Vent
SS12	Soda Ash Silo	391-3-1-.02(2)(p)1 NSPS OOO	SB39	Baghouse
SS18	Reject Bin CA 1,2 #2 Intersty	391-3-1-.02(2)(p)1 NSPS OOO	SB49	Baghouse
SS19	Steel Bin No. 2	391-3-1-.02(2)(b) 391-3-1-.02(2)(p)1	SB51	Bin Vent
SS20	Steel Bin No. 1	391-3-1-.02(2)(p)1 NSPS OOO	SB52	Bin Vent

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Emission Units		Applicable Requirement(s) / Standard(s)	Air Pollution Control Devices	
ID No.	Description		ID No.(s)	Description
SC28	Calcliner Compactor Conveyor	391-3-1-.02(2)(p)1 NSPS OOO	--	None (Exhausts Internally)

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