

# ADEQ

ARKANSAS  
Department of Environmental Quality

JUL 19 2012

Richard Lee  
Compliance Manager  
Saint Gobain Ceramics & Plastics, Inc.  
5300 Gerber Road  
Fort Smith, AR 72904-1699

Re: Notice of Administrative Amendment  
AFIN: 66-00219, Permit No.: 0492-AOP-R8

Dear Mr. Lee:

Enclosed is Permit 0492-AOP-R8 completed in accordance with the provisions of Section 19.407 of Regulation No. 19, *Regulations of the Arkansas Plan of Implementation for Air Pollution Control*.

The revision to Specific Condition 8 and corrections to Specific Conditions 13, 14 and 16 as outlined in your June amendment request have been made.

Please place the revised permit in your files.

Sincerely,



Mike Bates  
Chief, Air Division

db  
Enclosure

# ADEQ OPERATING AIR PERMIT

Pursuant to the Regulations of the Arkansas Operating Air Permit Program, Regulation 26:

Permit No. : 0492-AOP-R8

IS ISSUED TO:

Saint Gobain Ceramics & Plastics, Inc.  
5300 Gerber Road  
Fort Smith, AR 72904-1699  
Sebastian County  
AFIN: 66-00219

THIS PERMIT AUTHORIZES THE ABOVE REFERENCED PERMITTEE TO INSTALL, OPERATE, AND MAINTAIN THE EQUIPMENT AND EMISSION UNITS DESCRIBED IN THE PERMIT APPLICATION AND ON THE FOLLOWING PAGES. THIS PERMIT IS VALID BETWEEN:

August 6, 2008 AND August 5, 2013

THE PERMITTEE IS SUBJECT TO ALL LIMITS AND CONDITIONS CONTAINED HEREIN.

Signed:



Mike Bates  
Chief, Air Division

JUL 19 2012

Date

Saint Gobain Ceramics & Plastics, Inc.  
Permit #: 0492-AOP-R8  
AFIN: 66-00219

Table of Contents

<b>SECTION I: FACILITY INFORMATION</b> .....	4
<b>SECTION II: INTRODUCTION</b> .....	5
<b>Summary of Permit Activity</b> .....	5
<b>Process Description</b> .....	5
<b>Regulations</b> .....	6
<b>Emission Summary</b> .....	7
<b>SECTION III: PERMIT HISTORY</b> .....	13
<b>SECTION IV: SPECIFIC CONDITIONS</b> .....	16
<b>SECTION V: COMPLIANCE PLAN AND SCHEDULE</b> .....	32
<b>SECTION VI: PLANTWIDE CONDITIONS</b> .....	33
<b>SECTION VII: INSIGNIFICANT ACTIVITIES</b> .....	35
<b>SECTION VIII: GENERAL PROVISIONS</b> .....	36
Appendix A – 40 CFR Part 60, Subpart OOO	

Saint Gobain Ceramics & Plastics, Inc.  
Permit #: 0492-AOP-R8  
AFIN: 66-00219

#### List of Acronyms and Abbreviations

A.C.A.	Arkansas Code Annotated
AFIN	ADEQ Facility Identification Number
CFR	Code of Federal Regulations
CO	Carbon Monoxide
HAP	Hazardous Air Pollutant
lb/hr	Pound Per Hour
MVAC	Motor Vehicle Air Conditioner
No.	Number
NO <sub>x</sub>	Nitrogen Oxide
PM	Particulate Matter
PM <sub>10</sub>	Particulate Matter Smaller Than Ten Microns
SNAP	Significant New Alternatives Program (SNAP)
SO <sub>2</sub>	Sulfur Dioxide
SSM	Startup, Shutdown, and Malfunction Plan
Tpy	Tons Per Year
UTM	Universal Transverse Mercator
VOC	Volatile Organic Compound

Saint Gobain Ceramics & Plastics, Inc.  
Permit #: 0492-AOP-R8  
AFIN: 66-00219

**SECTION I: FACILITY INFORMATION**

PERMITTEE: Saint Gobain Ceramics & Plastics, Inc.

AFIN: 66-00219

PERMIT NUMBER: 0492-AOP-R8

FACILITY ADDRESS: 5300 Gerber Road  
Fort Smith, AR 72904-1699

MAILING ADDRESS: 5300 Gerber Road  
Fort Smith, AR 72904-1699

COUNTY: Sebastian County

CONTACT NAME: Richard Lee

CONTACT POSITION: Compliance Manager

TELEPHONE NUMBER: 479-424-3670

REVIEWING ENGINEER: Derrick Brown

UTM North South (Y): Zone 15: 3921643.83 m

UTM East West (X): Zone 15: 374920.79 m

Saint Gobain Ceramics & Plastics, Inc.  
Permit #: 0492-AOP-R8  
AFIN: 66-00219

## **SECTION II: INTRODUCTION**

### **Summary of Permit Activity**

Saint-Gobain Ceramics & Plastics, Inc. (66-00219) owns and operates a facility located at 5300 Gerber road in Fort Smith which manufacturers proppants. This permit amendment revised Specific Condition 8, and corrects Specific Conditions 13, 14 and 16.

### **Process Description**

Proppants are small sintered, high density spherical grains ranging in size from approximately 12 U.S. mesh to 80 U.S. mesh. These sintered spheres are used in the oil and gas industry to increase the well's flow rate. After the drilling of a new well is complete and the casing installed, the rock formation at the bottom of the well must be fractured to maximize the gas or oil flow. A viscous material, mixed with the proper size propants, enters the fissures and prevents them from closing when the pressure is relieved.

The basic raw materials used to manufacture the propants are heat treated and calcined bauxite ore. The ores are delivered to the facility in covered dump trucks and unloaded at the receiving station at one of the two process buildings. The ore is then conveyed to storage. The calcined ores are conveyed to a small feed tank which in turn feeds to a rotary mill. The ore is reduced to fine particles in preparation for the forming operation. The milled ore is conveyed to the forming areas where there are mixing lines at each plant. All mixers are batch type. Milled ore, water and binder are introduced into the mixer, where high-energy rotors compact and pelletize the mix.

The moist spheres are conveyed from the forming area into natural gas or diesel fuel-fired continuously fed dryers, where the moisture content is reduced from approximately 21% by weight to 8%. From the dryers, the product is sent to a screening deck to eliminate over- and under-sized material. Material of optimum size is then sent to the kiln feed tank and the screened off material is sent back to the forming area to be reformed. The "green" product is conveyed from the kiln feed tanks to one of the continuous feed kilns. The kilns are fired with either natural gas or diesel fuel and are heated to the necessary sintering temperature. The spheres exit the kiln as red-hot ceramic proppants.

The product flows directly into an air swept rotary cooler following the kilns. Following the coolers, the product is conveyed to a screening deck where any remaining off-spec material is screened off and discarded. Fired and sintered ceramic material cannot be reworked.

The kilns and the dryers may be fired with either natural gas or diesel fuel. Due to the high temperature, the kilns must be cooled or heated slowly to prevent the bricks from cracking or the drum from warping. It takes several days to bring a kiln from ambient to operating temperature. These conditions mandate that the kilns be continuously fired and that two different types of fuel be available for use.

Saint Gobain Ceramics & Plastics, Inc.  
Permit #: 0492-AOP-R8  
AFIN: 66-00219

The sintered and sized product is conveyed to finished product storage tanks. The product is packaged in 50- to 100-pound bags, in super sacks, and/or truck or rail shipping. The majority of the product is shipped in bulk from the railcar loadout or one of the five truck loadouts.

### Regulations

The following table contains the regulations applicable to this permit.

Regulations
Arkansas Air Pollution Control Code, Regulation 18, effective June 18, 2010
Regulations of the Arkansas Plan of Implementation for Air Pollution Control, Regulation 19, effective July 9, 2012
Regulations of the Arkansas Operating Air Permit Program, Regulation 26, effective July 9, 2012
40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants – [SN-18, SN-19, SN-20, SN-21, SN-22, SN-23, SN-25, SN-28, SN-29, SN-31, SN-34, SN-38, SN-39, SN-45, SN-46, SN-47, SN-48, SN-50, SN-51, SN-52, SN-53, SN-54, SN-56, SN-57, SN-58, SN-59, SN-60, SN-61, and SN-66]

Saint Gobain Ceramics & Plastics, Inc.  
 Permit #: 0492-AOP-R8  
 AFIN: 66-00219

### Emission Summary

The following table is a summary of emissions from the facility. This table, in itself, is not an enforceable condition of the permit.

EMISSION SUMMARY				
Source Number	Description	Pollutant	Emission Rates	
			lb/hr	tpy
Total Allowable Emissions		PM	63.6	245.6
		PM <sub>10</sub>	62.3	239.7
		SO <sub>2</sub>	55.7	244.0
		VOC	1.6	6.2
		CO	23.4	190.3
		NO <sub>x</sub>	108.4	245.0
HAPs		HCl*	0.77	3.34
		Cl*	0.57	2.47
		HF*	2.58	11.28
Air Contaminants **		F**	0.39	1.70
01	Plant #1 Ore Conveyor/Crush Tank Filter	PM	1.1	1.7
		PM <sub>10</sub>	1.1	1.7
02	Plant #1 Ore Dump Station Filter	PM	0.6	0.9
		PM <sub>10</sub>	0.2	0.3
03	Removed per October 2010 request.			
04	Kiln No. 1, 7.7 MMBtu/hr	Removed.		
04	Kiln No. 1, 7.7 MMBtu/hr (Process)	Removed.		
05	Plant #1 Mixers No. 1 through No. 6 Filter	PM	0.2	0.7
		PM <sub>10</sub>	0.2	0.7
06	Plant #1 North/South Tank Bin Vents Filter	PM	0.1	0.4
		PM <sub>10</sub>	0.1	0.4
07	Plant #1 Screening/Kiln Feed Area Filter	PM	1.7	3.4
		PM <sub>10</sub>	1.7	3.4
SN-09	Plant No. 1, Dryer No. 1, 46 MMBtu/hr	PM	1.2	30.7~
		PM <sub>10</sub>	1.2	30.7~
		SO <sub>2</sub>	2.5	244.0~
		VOC	0.1	6.2~



Saint Gobain Ceramics & Plastics, Inc.  
 Permit #: 0492-AOP-R8  
 AFIN: 66-00219

EMISSION SUMMARY				
Source Number	Description	Pollutant	Emission Rates	
			lb/hr	tpy
		CO	3.9	190.3~
		NO <sub>x</sub>	2.7	245.0~
SN-09	Plant No. 1, Dryer No. 1, 46 MMBtu/hr (Process)	PM	0.5	1.9
		PM <sub>10</sub>	0.5	1.9
SN-10	Rotary Kiln No. 2, Plant No. 1, 20 MMBtu/hr	Routed to SN-67.		
SN-11	Plant #1 Ball Mill Filter	PM	0.6	0.7
		PM <sub>10</sub>	0.6	0.7
SN-12	Plant #1 Product Cooler Filter	PM	3.5	12.6
		PM <sub>10</sub>	3.5	12.6
SN-13	Plant No. 1, Dryer No. 2, 46 MMBtu/hr	PM	1.2	30.7~
		PM <sub>10</sub>	1.2	30.7~
		SO <sub>2</sub>	2.5	244.0~
		VOC	0.1	6.2~
		CO	3.9	190.3~
		NO <sub>x</sub>	2.7	245.0~
SN-13	Plant No. 1, Dryer No. 2, 46 MMBtu/hr (Process)	PM	0.5	1.9
		PM <sub>10</sub>	0.5	1.9
SN-14	Plant #1 DCF Tank Filter	PM	0.1	0.1
		PM <sub>10</sub>	0.1	0.1
SN-15	South Tank Bin Vent	Rerouted to SN-06.		
SN-16	Plant #1 Ore Transport Mill Area Filter	PM	0.4	1.4
		PM <sub>10</sub>	0.4	1.4
SN-17	Truck Loadout	Rerouted to SN-08.		
SN-18	Plant #2 Ore Truck Unloading Filter	PM	0.6	1.0
		PM <sub>10</sub>	0.6	1.0
SN-19	Plant #2 Raw Material Silo Transport Filter	PM	1.7	3.0
		PM <sub>10</sub>	1.7	3.0
SN-20	Plant #2 Silo Loadout Filter	PM	2.2	8.0
		PM <sub>10</sub>	2.2	8.0
SN-21A	Plant #2 Fuller Ball Mill Filter #1	PM	0.75	3.15
		PM <sub>10</sub>	0.75	3.15
SN-21B	Plant #2 Fuller Ball Mill Filter #2	PM	0.75	3.15
		PM <sub>10</sub>	0.75	3.15
SN-22	Plant #2 Ball Mill Feed Vessel Vent Filter	PM	0.2	0.6

Saint Gobain Ceramics & Plastics, Inc.  
 Permit #: 0492-AOP-R8  
 AFIN: 66-00219

EMISSION SUMMARY				
Source Number	Description	Pollutant	Emission Rates	
			lb/hr	tpy
		PM <sub>10</sub>	0.2	0.6
SN-23	Plant #2 Ball Mill Feed Vent No.2 Filter	PM PM <sub>10</sub>	0.1 0.1	0.2 0.2
SN-24	Source removed from permit – 2000.			
SN-25	Plant #2 Binder Storage Vessel Vent Filter	PM PM <sub>10</sub>	0.2 0.2	0.1 0.1
SN-26	Plant No. 2, Dryer No. 1, 49.0 MMBtu/hr	PM PM <sub>10</sub> SO <sub>2</sub> VOC CO NO <sub>x</sub>	1.2 1.2 2.6 0.3 4.2 7.4	30.7~ 30.7~ 244.0~ 6.2~ 190.3~ 245.0~
SN-26	Plant No. 2, Dryer No. 1, 49.0 MMBtu/hr (Process)	PM PM <sub>10</sub>	1.0 1.0	3.9 3.9
SN-27	Plant #2, dryer No. 2, 24.5 MMBtu/hr	PM PM <sub>10</sub> SO <sub>2</sub> VOC CO NO <sub>x</sub>	0.6 0.6 1.3 0.3 2.1 3.5	30.7~ 30.7~ 244.0~ 6.2~ 190.3~ 245.0~
SN-27	Plant #2, dryer No. 2, 24.5 MMBtu/hr (Process)	PM PM <sub>10</sub>	1.0 1.0	3.9 3.9
SN-28	Forming Area Dust Collection Baghouse	PM PM <sub>10</sub>	2.8 2.8	11.5 11.5
SN-29	Plant No. 2, Kiln and Cooler, 60.0 MMBtu/hr	Routed to SN-67.		
SN-31	Plant #2 Sizing Area Vent/Fired Screening Filter	PM PM <sub>10</sub>	0.2 0.2	0.4 0.4
SN-32/ SN-33	Plant #2 Finished Product Loadout Tanks Filter	PM PM <sub>10</sub>	0.4 0.4	0.6 0.6
SN-34	Plant #2 Shipping Area Vent (Truck Loadout)/Deduster Filter	PM PM <sub>10</sub>	0.2 0.2	0.2 0.2
SN-35	Diesel Fuel Storage Tank	Insignificant Activity.		
SN-36	Diesel Fuel Storage Tank	Insignificant Activity.		

Saint Gobain Ceramics & Plastics, Inc.  
 Permit #: 0492-AOP-R8  
 AFIN: 66-00219

EMISSION SUMMARY				
Source Number	Description	Pollutant	Emission Rates	
			lb/hr	tpy
SN-37	Source removed from permit – 1998.			
SN-08/ SN-38	Plant #1 Finished Product Loadout Filter	PM PM <sub>10</sub>	0.6 0.6	0.9 0.9
SN-39	350 Baghouse	PM PM <sub>10</sub>	0.8 0.8	3.2 3.2
SN-40	Plant #1 Side #1 R/W Blower	PM PM <sub>10</sub>	0.2 0.2	0.5 0.5
SN-41	Plant #1 Side #2 R/W Blower	PM PM <sub>10</sub>	0.2 0.2	0.5 0.5
SN-42	Plant #1 DCF Blower	PM PM <sub>10</sub>	0.1 0.1	0.1 0.1
SN-43	Plant #2 R/W Blower	PM PM <sub>10</sub>	0.3 0.3	1.0 1.0
SN-44	Plant #2 R/W Blower	PM PM <sub>10</sub>	0.3 0.3	1.0 1.0
SN-45	340 Baghouse	PM PM <sub>10</sub>	0.8 0.8	3.2 3.2
SN-46	360 Baghouse	PM PM <sub>10</sub>	0.8 0.8	3.2 3.2
SN-47	370 Baghouse	PM PM <sub>10</sub>	0.8 0.8	3.2 3.2
SN-48	This equipment was not installed.			
SN-49	Plant to Plant Finished Product Conveyor Filter & Cleaning Booth/SN-04 Backup Filter	PM PM <sub>10</sub>	0.1 0.1	0.1 0.1
SN-50	Plant No. 2 Mill Conveyor Filter	PM PM <sub>10</sub>	0.3 0.3	1.0 1.0
SN-51	Non-point Source Emissions	PM PM <sub>10</sub>	3.5 3.5	20.0 20.0
SN-52	This equipment was not installed.			
SN-53	Plant #2 Ball Mill Area – DC 221 Filter	PM PM <sub>10</sub>	1.9 1.9	8.1 8.1
SN-54	Plant #2 400 Area – DC 440 Filter	PM PM <sub>10</sub>	1.9 1.9	7.7 7.7

Saint Gobain Ceramics & Plastics, Inc.  
 Permit #: 0492-AOP-R8  
 AFIN: 66-00219

EMISSION SUMMARY				
Source Number	Description	Pollutant	Emission Rates	
			lb/hr	tpy
SN-55	Plant #1 Bin Vent Mixer 6 – Baghouse	PM	0.1	0.5
		PM <sub>10</sub>	0.1	0.5
SN-56	Line #3 Mixing Area Baghouse	PM	1.8	6.2
		PM <sub>10</sub>	1.8	6.2
SN-57	Line #3 Dryer, 56 MMBtu/hr	PM	1.4	30.7~
		PM <sub>10</sub>	1.4	30.7~
		SO <sub>2</sub>	3.0	244.0~
		VOC	0.3	6.2~
		CO	4.7	190.3~
		NO <sub>x</sub>	2.1	245.0~
SN-57	Line #3 Dryer, 56 MMBtu/hr (Process)	PM	3.3	11.9
		PM <sub>10</sub>	3.3	11.9
SN-58	Line #3 Screen Area Baghouse	PM	2.6	9.2
		PM <sub>10</sub>	2.6	9.2
SN-59	Line #3 Milled Feed Vessel Filter	Insignificant Activity.		
SN-60	Line #3 Binder Feed Vessel Filter	Insignificant Activity.		
SN-61	Line #3 Rework Feed Vessel Filter	PM	1.0	1.6
		PM <sub>10</sub>	1.0	1.6
SN-62	Line #3 Pneumatic Conveyance	PM	0.1	0.2
		PM <sub>10</sub>	0.1	0.2
SN-63	Line #3 Pneumatic Conveyance	PM	0.1	0.1
		PM <sub>10</sub>	0.1	0.1
SN-64	Binder Storage Vessel Vent Filter	PM	0.6	2.7
		PM <sub>10</sub>	0.6	2.7
SN-65	Iron Ore Storage Vessel Vent Filter	PM	0.1	0.1
		PM <sub>10</sub>	0.1	0.1
SN-66	Plant-to-Plant Pneumatic Finished Product Conveyance	PM	0.3	0.3
		PM <sub>10</sub>	0.3	0.3
SN-67	Dry Scrubber-Baghouse Unit	PM	10.2	44.7
		PM <sub>10</sub>	10.2	44.7
		SO <sub>2</sub>	44.7	244.0~
		VOC	0.4	6.2~
		CO	6.0	190.3~
		NO <sub>x</sub>	92.7	245.0~
		HCl*	0.77	3.34
		Cl*	0.57	2.47

Saint Gobain Ceramics & Plastics, Inc.  
 Permit #: 0492-AOP-R8  
 AFIN: 66-00219

EMISSION SUMMARY				
Source Number	Description	Pollutant	Emission Rates	
			lb/hr	tpy
		HF*	2.58	11.28
		F	0.39	1.70
SN-68	Waste Lime Silo Bin Vent	PM	1.0	0.3
		PM <sub>10</sub>	1.0	0.3
SN-69	Waste Lime Loadout Operation	PM	0.4	0.2
		PM <sub>10</sub>	0.4	0.2
SN-70	Rotary Mill Baghouse	PM	1.5	13.2
		PM <sub>10</sub>	1.0	8.6
SN-71 /SN-72	Plant #1 Ore Receiving and Storage Bins	PM	0.6	0.9
		PM <sub>10</sub>	0.2	0.2

\*HAPs included in the VOC totals. Other HAPs are not included in any other totals unless specifically stated.

\*\*Air Contaminants such as ammonia, acetone, and certain halogenated solvents are not VOCs or HAPs.

~Plantwide Combustion Bubble.

Saint Gobain Ceramics & Plastics, Inc.  
Permit #: 0492-AOP-R8  
AFIN: 66-00219

### SECTION III: PERMIT HISTORY

492-A was issued to Norton Company on May 26, 1978. 492-A permitted Norton to construct and operate a sintered aluminum oxide manufacturing plant at the present location with an annual production capacity of 20,000 tons per year.

492-AR-1 was issued to the Norton Company on May 22, 1981. 492-AR-1 permitted the installation and operation of a new sintering kiln (SN-10), a new ball mill (SN-11), mixing and sizing equipment (SN-16), and a product cooler system.

492-AR-2 was issued to the Norton Company on January 22, 1982. 492-AR-2 permitted the installation and operation of a new dryer (SN-13) with associated baghouse.

492-AR-3 was issued to Norton-Alcoa Proppants on July 24, 1985. 492-AR-3 permitted the construction and operation of new expanded facilities (SN-18 through SN-34). The permit also recognized the facility's name change from Norton Company to Norton-Alcoa Proppants.

492-AR-4 was issued to Norton-Alcoa Proppants on September 30, 1998 to reclassify the facility as a synthetic minor with annual PM<sub>10</sub> emissions of 91.3 tons per year. The permit also included two previously unlisted sources, the railcar loadout (SN-08), and the truck loadout (SN-17). The permit also includes the plant to plant pneumatic conveyor (SN-38) as a new source.

492-AR-5 was issued to Norton-Alcoa Proppants on September 30, 1999. The permit was issued to allow the installation of a back up bucket elevator which increased the operating efficiency of the facility, but with no increase in emissions. A new baghouse (SN-39) was added with this permit modification. Several sources were also listed for the first time as being subject to 40 CFR 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants.

492-AR-6 was issued to Norton Alcoa Proppants on February 16, 2000. The permit was issued to allow the manufacture of an alternate product at the facility. Permit limits were: PM - 135.7 tpy, PM<sub>10</sub> - 91.3 tpy, SO<sub>2</sub> - 0.8 tpy, VOC - 25.0 tpy, CO - 18.8 tpy, NO<sub>x</sub> - 75.1 tpy, Formaldehyde - 4.61 tpy, Ethylene Glycol - 7.86 tpy, and Phenol 9.40 tpy.

An administrative amendment was issued to the above permit on March 10, 2000. It was determined during testing for the above permit that SN-24 did not vent to atmosphere and was not an emission source. Its emission limits were removed from the permit. Permit limits were: PM - 134.4 tpy, PM<sub>10</sub> - 90.1 tpy, SO<sub>2</sub> - 0.8 tpy, VOC - 25.0 tpy, CO - 18.8 tpy, NO<sub>x</sub> - 75.1 tpy, Formaldehyde - 4.61 tpy, Ethylene Glycol - 7.86 tpy, and Phenol 9.40 tpy.

492-AR-7 was issued to Norton Alcoa Proppants on July 12, 2000. The permit was issued to allow the manufacture to revise cycle times to increase throughput. Permit limits were: PM - 139.8 tpy, PM<sub>10</sub> - 94.3 tpy, SO<sub>2</sub> - 0.8 tpy, VOC - 25.0 tpy, CO - 18.8 tpy, NO<sub>x</sub> - 75.1 tpy, Formaldehyde - 4.61 tpy, Ethylene Glycol - 7.86 tpy, and Phenol 9.40 tpy.

Saint Gobain Ceramics & Plastics, Inc.  
Permit #: 0492-AOP-R8  
AFIN: 66-00219

492-AR-8 was issued to Norton Alcoa Proppants on September 15, 2001. The permit was issued to allow seven minor changes to the previous permit. The primary changes were to allow diesel fuel as a fully permitted fuel and to remove the HAPS containing materials from the process. Permit limits were: PM - 144.9 tpy, PM<sub>10</sub> - 95.3 tpy, SO<sub>2</sub> - 90.0 tpy, VOC - 3.6 tpy, CO - 54.2 tpy, and NO<sub>x</sub> - 98.5 tpy.

492-AOP-R0 was issued to Norton Proppants, Inc. on August 5, 2002. The permit allowed several changes to the previous permit including recalculating several of the emission sources. Permit limits were: PM - 178.1 tpy, PM<sub>10</sub> - 178.1 tpy, SO<sub>2</sub> - 90.0 tpy, VOC - 5.6 tpy, CO - 84.2 tpy, and NO<sub>x</sub> - 153.1 tpy.

Permit No. 0492-AOP-R1 was issued to Norton Proppants, a Division of Saint-Gobain Ceramics and Plastics on November 27, 2003. This modification was issued to allow several minor process changes. Permit limits were: PM - 208.5 tpy, PM<sub>10</sub> - 208.5 tpy, SO<sub>2</sub> - 90.0 tpy, VOC - 5.6 tpy, CO - 84.2 tpy, and NO<sub>x</sub> - 153.1 tpy.

Permit No. 0492-AOP-R2 was issued to Norton Proppants, a Division of Saint-Gobain Ceramics and Plastics on July 13, 2004. This modification was issued to allow the installation of a third forming line. Permit limits were: PM - 235.2 tpy, PM<sub>10</sub> - 235.2 tpy, SO<sub>2</sub> - 90.0 tpy, VOC - 7.1 tpy, CO - 105.2 tpy, and NO<sub>x</sub> - 191.0 tpy.

Permit No. 0492-AOP-R3 was issued to Saint-Gobain Proppants on November 18, 2004. Two pneumatic conveyances (SN-62 & SN-63) are added to the permit on this modification. Permit limits were: PM - 235.5 tpy, PM<sub>10</sub> - 235.5 tpy, SO<sub>2</sub> - 90.0 tpy, VOC - 7.1 tpy, CO - 105.2 tpy, and NO<sub>x</sub> - 153.1 tpy.

Permit No. 0492-AOP-R4 was issued April 7, 2007. This permit modification allowed the facility to add 3 small new sources to the facility. A binder tank vent filter (SN-64), an iron ore tank vent filter (SN-66) and a dust collector for a plant-to-plant conveyance (SN-66) will be added to the facility. Several other changes will be made to existing sources. A supplemental dust collector will be added at the Plant #2 Kiln/cooler so it will then be controlled by 2 dust collectors. Two baghouses will be improved or replaced (SN-09 & SN-11). Two sources will be removed from the permit (SN-48 & SN-52) which were never installed. Two sources (SN-59 & SN-60) will be moved to the Insignificant Activities List since they vent inside the building. Three sources (SN-61, SN-62 & SN-63) will be combined to exhaust through a single stack.

Permit No. 0492-AOP-R5 was issued February 21, 2008. Issuance of this permit was prompted by the submittal of the facility's renewal Title V air permit application. Included in the renewal was the removal of SN-64 and SN-65 as affected sources for 40 CFR Part 60, Subpart OOO. Basis for the removal of these sources from the affected source list was because SN-64 is a bulk storage tank for cornstarch and SN-65 is a bulk storage tank for iron ore (hematite). An affected facility storage bin is defined as a facility for storage of nonmetallic minerals prior to further processing or loading. Cornstarch and hematite are not defined as nonmetallic minerals by 40 CFR Part 60, Subpart OOO. Also included is the installation of a new baghouse (Plant #2 Fuller Mill filter #2).

Saint Gobain Ceramics & Plastics, Inc.  
Permit #: 0492-AOP-R8  
AFIN: 66-00219

Permit No. 0492-AOP-R6 was issued September 16, 2008. This minor permit modification replaced a baghouse (SN-38), installed additional ductwork and pickup points to supplement the dust collection system for SN-38 and SN-39, and increased the annual throughput for SN-38 to 31,200 tons per year. This minor permit modification increased annual PM and PM<sub>10</sub> emissions by 0.1 tons per year to 245.25 tons.



**SECTION IV: SPECIFIC CONDITIONS**

SN-09, SN-10, SN-13, SN-26, SN-27, SN-27, SN-29 and SN-27

Combustion Sources

Source Description

There are three kilns (SN-10, and SN-29) and five dryers (SN-09, SN-13, SN-26, SN-27 and SN-57) that are the fired equipment operating in the process at the facility. Each source is permitted for full time operation at maximum capacity on either natural gas or low sulfur diesel fuel. The emission limits are based on using the fuel which causes the highest emissions of that pollutant.

Specific Conditions

- The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by Specific Condition 15. [Regulation 19, §19.501 et seq., and 40 CFR Part 52, Subpart E]

SN	Description	Pollutant	lb/hr	tpy
04	Kiln No. 1, 7.7 MMBtu/hr	Removed.		
09	Plant No. 1, Dryer No. 1, 46 MMBtu/hr	PM <sub>10</sub>	1.2	*
		SO <sub>2</sub>	2.5	
		VOC	0.3	
		CO	3.9	
		NO <sub>x</sub>	2.7	
10	Rotary Kiln No. 2, Plant No. 1, 20 MMBtu/hr	Reroute to SN-67.		
13	Plant No. 1, Dryer No. 2, 46 MMBtu/hr	PM <sub>10</sub>	1.2	*
		SO <sub>2</sub>	2.5	
		VOC	0.3	
		CO	3.9	
		NO <sub>x</sub>	2.7	
26	Plant No.2, Dryer No. 1, 49.0 MMBtu/hr	PM <sub>10</sub>	1.2	*
		SO <sub>2</sub>	2.6	
		VOC	0.3	
		CO	4.2	
		NO <sub>x</sub>	7.4	
27	Plant No. 2, Dryer No. 2, 24.5 MMBtu/hr	PM <sub>10</sub>	0.6	*
		SO <sub>2</sub>	1.3	
		VOC	0.3	
		CO	2.1	
		NO <sub>x</sub>	3.5	

Saint Gobain Ceramics & Plastics, Inc.  
 Permit #: 0492-AOP-R8  
 AFIN: 66-00219

SN	Description	Pollutant	lb/hr	tpy
29	Plant No. 2, Kiln and Cooler, 60.0 MMBtu/hr	Reroute to SN-67.		
57	Line #3 Dryer, 56 MMBtu/hr	PM <sub>10</sub>	1.4	*
		SO <sub>2</sub>	3.0	
		VOC	0.3	
		CO	4.7	
		NO <sub>x</sub>	2.1	

\*Plantwide Bubble for Combustion Sources.

2. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by Specific condition 15. [Regulation 18, §18.801, and A.C.A. §8-4-203 as referenced by A.C.A. §8-4-304 and §8-4-311]

SN	Description	Pollutant	lb/hr	tpy
04	Kiln No. 1, 7.7 MMBtu/hr	Removed.		
09	Plant No. 1, Dryer No. 1, 46 MMBtu/hr	PM	1.2	30.7*
10	Rotary Kiln No. 2, Plant No. 1, 20 MMBtu/hr	Reroute to SN-67.		
13	Plant No. 1, Dryer No. 2, 46 MMBtu/hr	PM	1.2	30.7*
26	Plant No.2, Dryer No. 1, 49.0 MMBtu,hr	PM	1.2	30.7*
27	Plant No. 2, Dryer No. 2, 24.5 MMBtu/hr	PM	1.2	30.7*
29	Plant No. 2, Kiln and Cooler, 60.0 MMBtu/hr	Reroute to SN-67.		
57	Line #3 Dryer, 56 MMBtu/hr	PM	1.4	30.7*

\*Plantwide Bubble for combustion sources.

Saint Gobain Ceramics & Plastics, Inc.  
Permit #: 0492-AOP-R8  
AFIN: 66-00219

3. Visible emissions may not exceed the limits specified in the following table of this permit as measured by EPA Reference Method 9. [§18.501 of Regulation 18, §19.503 of Regulation 19, 40 CFR Part 52, Subpart E and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311]

SN	Limit	Regulatory Citation
09, 10, 13, 26, 27, 29, 57	5%	§18.501 of Regulation 18 & A.C.A.
	20%	§19.503 & 40 CFR Part 52, Subpart E

4. The combustion sources may only be fired with pipeline quality natural gas or low sulfur diesel fuel. Low sulfur diesel fuel must have a sulfur content of no more than 0.05 weight percent sulfur. [§19.705 of Regulation 19, A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311 & 40 CFR 70.6]
5. The permittee shall maintain records of the sulfur content of all shipments of diesel fuel received at the facility. These records shall be maintained on site and made available to Department personnel upon request. [§19.705 of Regulation 19 & 40 CFR Part 52, Subpart E]
6. Visible emissions from the Combustion sources shall not exceed 5% when firing natural gas and 20% when firing low sulfur diesel fuel as measured by EPA Method 9. [§18.501 of Regulation 18 and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311]
7. The permittee shall conduct daily observations of the opacity from sources SN-09, SN-10, SN-26, SN-27, SN-29 and SN-57 when burning low sulfur diesel and keep a record of these observations. If the permittee detects visible emissions, the permittee must immediately take action to identify and correct the cause of the visible emissions. After implementing the corrective action, the permittee must document that the source complies with the visible emissions requirements. The permittee shall maintain records of the cause of any visible emissions and the corrective action taken. The permittee must keep these records onsite and make them available to Department personnel upon request. [§19.503 of Regulation 19 and 40 CFR Part 52, Subpart E]
8. The permittee shall test each kiln, Sources SN-10 and SN-29, at the SN-67 stack, to ensure compliance with the Carbon Monoxide pound per hour emission rate of 6 pounds per hour (as stated in Specific Condition 22) at least once every five years beginning with this permit action. The test shall be conducted in accordance with Plantwide Condition #3 using EPA Reference Method 10. The permittee shall test the source within 90% of its rated capacity. [Regulation 19, §19.702 and 40 CFR Part 52, Subpart E]

Saint Gobain Ceramics & Plastics, Inc.  
 Permit #: 0492-AOP-R8  
 AFIN: 66-00219

SN-01 through SN-14, SN-16, SN-18 through SN-23, SN-25 through SN-34, SN-38, SN-39, SN-45 through SN-55, SN-56 through SN-66, SN-70, SN-71/72

Particulate Sources

Source Description

Saint-Gobain Proppants operates a facility with three manufacturing trains which produce proppants used in completions of oil and gas wells. A more complete description of the service for each source is contained in the process description at the beginning of this permit.

Specific Conditions

9. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by each source being permitted at its maximum capacity for pound per hour rates and limited annually by fuel usage. [Regulation 19, §19.501 et seq. and 40 CFR Part 52, Subpart E]

SN	Description	Pollutant	lb/hr	tpy
SN-01	Plant #1 Ore conveyor/Crush Tank Filter	PM <sub>10</sub>	1.1	1.7
SN-02	Plant #1 Ore Dump Station Filter	PM <sub>10</sub>	0.2	0.3
SN-03	Plant #1 Ball Mill No. 1 Filter	Removed.		
SN-04	Plant #1 Kiln No. 1 Filter (Process)	Removed.		
SN-05	Plant #1 Mixers No. 1 through No. 6 Filter	PM <sub>10</sub>	0.2	0.7
SN-06	Plant #1 North/South Tank Bin Vents Filter	PM <sub>10</sub>	0.1	0.4
SN-07	Plant #1 Screening/Kiln Feed Area Filter	PM <sub>10</sub>	1.7	3.4
SN-08 /SN-38	Plant #1 Finished Product Loadout Filter	PM <sub>10</sub>	0.6	0.9
SN-09	Plant #1, Dryer No. 1 Filter (process)	PM <sub>10</sub>	0.5	1.9
SN-10	Plant #1 Rotary Kiln No. 2 Filter (process)	Reroute to SN-67.		
SN-11	Plant #1 Ball Mill Filter	PM <sub>10</sub>	0.6	0.7
SN-12	Plant #1 Product Cooler Filter	PM <sub>10</sub>	3.5	12.6
SN-13	Plant #1, Dryer No.2 Filter (process)	PM <sub>10</sub>	0.5	1.9
SN-14	Plant #1 DCF Tank Filter	PM <sub>10</sub>	0.1	0.1

Saint Gobain Ceramics & Plastics, Inc.  
 Permit #: 0492-AOP-R8  
 AFIN: 66-00219

SN	Description	Pollutant	lb/hr	tpy
SN-15	South Tank Bin Vent	Rerouted to SN-06		
SN-16	Plant #1 Ore Transport Mill Area Filter	PM <sub>10</sub>	0.4	1.4
SN-17	Truck Loadout	Rerouted to SN-08		
SN-18	Plant #2 Ore Truck Unloading Filter	PM <sub>10</sub>	0.6	1.0
SN-19	Plant #2 Raw Material Silo Transport Filter	PM <sub>10</sub>	1.7	3.0
SN-20	Plant #2 Silo Loadout Filter	PM <sub>10</sub>	2.2	8.0
SN-21A	Plant #2 Fuller Ball Mill Filter #1	PM <sub>10</sub>	0.75	3.15
SN-21B	Plant #2 Fuller Ball Mill Filter #2	PM <sub>10</sub>	0.75	3.15
SN-22	Plant #2 Ball Mill Feed Vessel Vent Filter	PM <sub>10</sub>	0.2	0.6
SN-23	Plant #2 Ball Mill Feed Vent No.2 Filter	PM <sub>10</sub>	0.1	0.2
SN-24	Source removed from permit – 2000			
SN-25	Plant #2 Binder Storage Vessel Vent Filter	PM <sub>10</sub>	0.2	0.1
SN-26	Plant #2, Dryer No. 1 Exhaust Vent Filter (process)	PM <sub>10</sub>	1.0	3.9
SN-27	Plant #2, Dryer No. 2 Exhaust Vent Filter (process)	PM <sub>10</sub>	1.0	3.9
SN-28	Forming Area Dust Collection Baghouse	PM <sub>10</sub>	2.8	11.5
SN-29	Plant #2 Cooler and Kiln Exhaust Filters	Reroute to SN-67.		
SN-31	Plant #2 Sizing Area Vent/Fired Screening Filter	PM <sub>10</sub>	0.2	0.4
SN-32 /SN-33	Plant #2 Finished Product Loadout Tanks Filter	PM <sub>10</sub>	0.4	0.6
SN-34	Plant #2 Shipping Area Vent (Truck Loadout)/Deduster Filter	PM <sub>10</sub>	0.2	0.2
SN-35	Diesel Fuel Storage Tank	Insignificant Activity		
SN-36	Diesel Fuel Storage Tank	Insignificant Activity		
SN-37	Source removed from permit – 1998			
SN-49	Plant to Plant Finished Product Conveyor Filter & Cleaning Booth/SN-04 Backup Filter	PM <sub>10</sub>	0.1	0.1
SN-39	350 Baghouse	PM <sub>10</sub>	0.8	3.2

Saint Gobain Ceramics & Plastics, Inc.  
 Permit #: 0492-AOP-R8  
 AFIN: 66-00219

SN	Description	Pollutant	lb/hr	tpy
SN-40	Plant #1 Side #1 R/W Blower	PM <sub>10</sub>	0.2	0.5
SN-41	Plant #1 Side #2 R/W Blower	PM <sub>10</sub>	0.2	0.5
SN-42	Plant #1 DCF Blower	PM <sub>10</sub>	0.1	0.1
SN-43	Plant #2 R/W Blower	PM <sub>10</sub>	0.3	1.0
SN-44	Plant #2 R/W Blower	PM <sub>10</sub>	0.3	1.0
SN-45	340 Baghouse	PM <sub>10</sub>	0.8	3.2
SN-46	360 Baghouse	PM <sub>10</sub>	0.8	3.2
SN-47	370 Baghouse	PM <sub>10</sub>	0.8	3.2
SN-48	This equipment was not installed.			
SN-50	Plant No. 2 Mill Conveyer Filter	PM <sub>10</sub>	0.3	1.0
SN-51	Non-point Source Emissions	PM <sub>10</sub>	3.5	20.0
SN-52	This equipment was not installed.			
SN-53	Plant #2 Ball Mill Area – DC 221 Filter	PM <sub>10</sub>	1.9	8.1
SN-54	Plant #2 400 Area – DC 440 Filter	PM <sub>10</sub>	1.9	7.7
SN-55	Plant #1 Bin Vent Mixer 6 – Baghouse	PM <sub>10</sub>	0.1	0.5
SN-56	Line #3 Mixing Area Baghouse	PM <sub>10</sub>	1.8	6.2
SN-57	Line #3 Dryer Area Baghouse (process)	PM <sub>10</sub>	3.3	11.9
SN-58	Line #3 Screen Area Baghouse	PM <sub>10</sub>	2.6	9.2
SN-59	Line #3 Milled Feed Vessel Filter	Insignificant Activity		
SN-60	Line #3 Binder Feed Vessel Filter	Insignificant Activity		
SN-61	Line #3 Rework Feed Vessel Filter	PM <sub>10</sub>	1.0	1.6
SN-62	Line #3 Pneumatic Conveyance	PM <sub>10</sub>	0.1	0.2
SN-63	Line #3 Pneumatic Conveyance	PM <sub>10</sub>	0.1	0.1
SN-64	Binder Storage Vessel Vent Filter	PM <sub>10</sub>	0.6	2.7
SN-65	Iron Ore Storage Vessel Vent Filter	PM <sub>10</sub>	0.1	0.1
SN-66	Plant-to-Plant Pneumatic Finished Product Conveyance	PM <sub>10</sub>	0.3	0.3

Saint Gobain Ceramics & Plastics, Inc.  
 Permit #: 0492-AOP-R8  
 AFIN: 66-00219

SN	Description	Pollutant	lb/hr	tpy
SN-70	Rotary Mill Baghouse	PM <sub>10</sub>	1.0	8.6
SN-71 /SN-72	Plant #1 Ore Receiving and Storage Bins	PM <sub>10</sub>	0.2	0.2

10. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by each source being permitted at its maximum capacity for pound per hour rates and limited annually by fuel usage. [Regulation 18, §18.801 and A.C.A. §8-4-203 as referenced by A.C.A. §8-4-304 and §8-4-311]

SN	Description	Pollutant	lb/hr	tpy
SN-01	Plant #1 Ore Conveyor/Crush Tank Filter	PM	1.1	1.7
SN-02	Plant #1 Ore Dump Station Filter	PM	0.6	0.9
SN-03	Plant #1 Ball Mill No. 1 Filter	Removed.		
SN-04	Plant #1 Kiln No. 1 Filter (Process)	Removed.		
SN-05	Plant #1 Mixers No. 1 through No. 6 Filter	PM	0.2	0.7
SN-06	Plant #1 North/South Tank Bin Vents Filter	PM	0.1	0.4
SN-07	Plant #1 Screening/Kiln Feed Area Filter	PM	1.7	3.4
SN-08 /SN-38	Plant #1 Finished Product Loadout Filter	PM <sub>10</sub>	0.6	0.9
SN-09	Plant #1, Dryer No. 1 Filter (process)	PM	0.5	1.9
SN-10	Plant #1 Rotary Kiln No. 2 Filter (process)	Reroute to SN-67.		
SN-11	Plant #1 Ball Mill No. Filter	PM	0.6	0.7
SN-12	Plant #1 Product Cooler Filter	PM	3.5	12.6
SN-13	Plant #1, Dryer No.2 Filter (process)	PM	0.5	1.9
SN-14	Plant #1 DCF Tank Filter	PM	0.1	0.1
SN-15	South Tank Bin Vent	Rerouted to SN-06		
SN-16	Plant #1 Ore Transport Mill Area Filter	PM	0.4	1.4
SN-17	Truck Loadout PM <sub>10</sub>	Rerouted to SN-08		

Saint Gobain Ceramics & Plastics, Inc.  
 Permit #: 0492-AOP-R8  
 AFIN: 66-00219

SN	Description	Pollutant	lb/hr	tpy
SN-18	Plant #2 Ore Truck Unloading Filter	PM	0.6	1.0
SN-19	Plant #2 Raw Material Silo Transport Filter	PM	1.7	3.0
SN-20	Plant #2 Silo Loadout Filter	PM	2.2	8.0
SN-21A	Plant #2 Fuller Ball Mill Filter #1	PM	0.75	3.15
SN-21B	Plant #2 Fuller Ball Mill Filter #2	PM	0.75	3.15
SN-22	Plant #2 Ball Mill Feed Vessel Vent Filter	PM	0.2	0.6
SN-23	Plant #2 Ball Mill Feed Vent No.2 Filter	PM	0.1	0.2
SN-24	Source removed from permit – 2000			
SN-25	Plant #2 Binder Storage Vessel Vent Filter	PM	0.2	0.1
SN-26	Plant #2, Dryer No. 1 Exhaust Vent Filter (process)	PM	1.0	3.9
SN-27	Plant #2, Dryer No. 2 Exhaust Vent Filter (process)	PM	1.0	3.9
SN-28	Forming Area Dust Collection Baghouse	PM	2.8	11.5
SN-29	Plant #2 Cooler and Kiln Exhaust Filters	Reroute to SN-67.		
SN-31	Plant #2 Sizing Area Vent/Fired Screening Filter	PM	0.2	0.4
SN-32 /SN-33	Plant #2 Finished Product Loadout Tanks Filter	PM	0.4	0.6
SN-34	Plant #2 Shipping Area Vent (Truck Loadout)/Deduster Filter	PM	0.2	0.2
SN-35	Diesel Fuel Storage Tank	Insignificant Activity		
SN-36	Diesel Fuel Storage Tank	Insignificant Activity		
SN-37	Source removed from permit – 1998			
SN-49	Plant to Plant Finished Product Conveyor Filter & Cleaning Booth/SN-04 Backup Filter	PM	0.1	0.1
SN-39	350 Baghouse	PM	0.8	3.2
SN-40	Plant #1 Side #1 R/W Blower	PM	0.2	0.5
SN-41	Plant #1 Side #2 R/W Blower	PM	0.2	0.5
SN-42	Plant No. 1 DCF Blower	PM	0.1	0.1



Saint Gobain Ceramics & Plastics, Inc.  
 Permit #: 0492-AOP-R8  
 AFIN: 66-00219

SN	Description	Pollutant	lb/hr	tpy
SN-43	Plant #2 R/W Blower	PM	0.3	1.0
SN-44	Plant #2 R/W Blower	PM	0.3	1.0
SN-45	340 Baghouse	PM	0.8	3.2
SN-46	360 Baghouse	PM	1.9	8.1
SN-47	370 Baghouse	PM	0.8	3.2
SN-48	This equipment was not installed.			
SN-50	Plant #2 Mill Conveyer Filter	PM	0.3	1.0
SN-51	Non-point Source Emissions	PM	3.5	20.0
SN-52	This equipment was not installed.			
SN-53	Plant #2 Ball Mill Area – DC 221 Filter	PM	1.9	8.1
SN-54	Plant #2 400 Area – DC 440 Filter	PM	1.9	8.1
SN-55	Plant #1 Bin Vent Mixer 6 – Baghouse	PM	0.1	0.5
SN-56	Line #3 Mixing Area Baghouse	PM	1.8	6.2
SN-57	Line #3 Dryer Area Baghouse (process)	PM	3.3	11.9
SN-58	Line #3 Screen Area Baghouse	PM	2.6	9.2
SN-59	Line #3 Milled Feed Vessel Filter	Insignificant Activity		
SN-60	Line #3 Binder Feed Vessel Filter	Insignificant Activity		
SN-61	Line #3 Rework Feed Vessel Filter	PM	1.0	1.6
SN-62	Line #3 Pneumatic Conveyance	PM	0.1	0.2
SN-63	Line #3 Pneumatic Conveyance	PM	0.1	0.1
SN-64	Binder Storage Vessel Vent Filter	PM	0.6	2.7
SN-65	Iron Ore Storage Vessel Vent Filter	PM	0.1	0.1
SN-66	Plant-to-Plant Pneumatic Finished Product Conveyance	PM	0.3	0.3
SN-70	Rotary Mill Baghouse	PM	1.4	13.2
SN-71 /SN-72	Plant #1 Ore receiving and Storage Bins	PM	0.6	0.9

Saint Gobain Ceramics & Plastics, Inc.  
 Permit #: 0492-AOP-R8  
 AFIN: 66-00219

11. Visible emissions may not exceed the limits specified in the following table of this permit as measured by EPA Reference Method 9.

SN	Limit	Regulatory Citation
01-14, 16, 18 - 23, 25-34, 38, 39, 45-55, 56-61	5%	§18.501 of Regulation 18 & A.C.A.

12. If visible emissions are detected at the Particulate sources, then the permittee shall immediately conduct a 6 minute opacity reading in accordance with EPA Reference Method #9. The results of these observations or readings shall be recorded in a log which shall be maintained on site and made available to Department personnel upon request.
13. The permittee shall not exceed a throughput of 76,000 tons at SN-38 per consecutive twelve month period. [§19.705 of Regulation 19, A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311 & 40 CFR 70.6]
14. The permittee shall not produce more than 256,000 tons of ceramic beads (standard proppant product) per consecutive twelve month period. [§19.705 of Regulation 19 and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311]
15. The permittee shall not receive more than 350,000 tons of Ore at SN-70 and SN-21 combined, per consecutive twelve month period. [§19.705 of Regulation 19 and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311].
16. The permittee shall not receive more than 150,000 tons of Ore at SN-02 per consecutive twelve month period. [§19.705 of Regulation 19, and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311 and 40 CFR 70.6]
17. The permittee shall maintain monthly records which demonstrate compliance with Specific Conditions 13, 14, 15, and 16. Records shall be updated by the fifteenth day of the month following the month for which the records pertain. These records shall be kept on site, and shall be made available to Department personnel upon request. A copy of the results of these records shall be submitted with the semi-annual report required in General Provision No. 7. [§19.705 of Regulation 19 and 40 CFR Part 52, Subpart E]
18. SN-18, SN-19, SN-20, SN-21, SN-22, SN-23, SN-25, SN-28, SN-31, SN-34, SN-38\*, SN-39, SN-45, SN-46, SN-47, SN-48, SN-49, SN-50, SN-52, SN-53, SN-54, SN-55, SN-56, SN-57(process), SN-58, SN-59, SN-60 and SN-61 are subject to NSPS 40 CFR 60, Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants. No additional limits are necessary at this time to assure compliance other than those previously listed. The sources have been tested to meet the following standards [§19.304 of Regulation 19 and 40 CFR 60, Subpart OOO]:

Saint Gobain Ceramics & Plastics, Inc.  
 Permit #: 0492-AOP-R8  
 AFIN: 66-00219

Test Method	Standard
EPA Method 5 or 17	Not in excess of 0.05 g/dscm particulate matter
EPA Method 9	Not in excess of 15% opacity

SN-18, SN-19, and SN-20 are non-stack emissions; therefore, testing for particulate was not required.

\* A special request for alternate testing for SN-38 was sent to EPA Region VI, April 3, 2000. Letter dated May 11, 2000 from John R. Hepola waived requirement for particulate matter testing for the source. Source No. 66 is an identical process to SN-38 and is therefore subject to the alternate testing approved May 11, 2000.

19. SN-29B (Routed to SN-67) and SN-66\* are subject to NSPS 40 CFR 60, Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants. Within 60 days of the facility achieving the maximum production rate when the proposed changes in this permit are activated but no later than 180 days after their initial start up, these sources shall be tested to meet the following standards [§19.304 of Regulation 19 and 40 CFR 60, Subpart OOO]:

Test Method	Standard
EPA Method 5 or 17	Not in excess of 0.05 g/dscm particulate matter
EPA Method 9	Not in excess of 15% opacity

\* - see Specific Condition No. 13

#### Particulate Compliance Assurance Monitoring Plan Conditions

20. SN-56, SN-57, SN-58, and SN-61 are subject to and shall comply with all applicable provisions of §19.304 of Regulation 19, 40 CFR Part 52, Subpart E, and Section §64.6 for Compliance Assurance Monitoring.
- a. The permittee shall daily monitor opacity from each exhaust.
  - b. A full Method 9 opacity observation will be performed if visible emissions in excess of the permit limit are noted.
  - c. Each source shall be inspected weekly. Maintenance and repair shall be performed on an as needed basis. Records shall be kept of all weekly equipment inspections and of any maintenance performed.
  - d. Maintenance and repair of systems shall be performed in accordance with the manufacturer's specifications.

Saint Gobain Ceramics & Plastics, Inc.  
Permit #: 0492-AOP-R8  
AFIN: 66-00219

21. SN-56, SN-57, SN-58, and SN-61 are subject and shall comply will all applicable provisions of §19.304 of Regulation 19, 40 CFR Part 52, Subpart E, and Section §64.9 for Compliance Assurance Monitoring. The following information pertaining to exceedances or excursions from permitted values shall be submitted in semi-annual reports in accordance with General Provision #7 as outlined in 40 CFR §70.6.
  - a. The permittee shall maintain records for SN-56, SN-57, SN-58, and SN-61 that summarize the number, duration, and cause of excursions or exceedances of emission limits as well as corrective action taken. [40 CFR §64.9(a)(2)(i) and §64.9(b)]
  - b. The permittee shall maintain a quality improvement plan (QIP) threshold for each indicator of no more than nine excursions or 5% of the daily averages in a six-month period. [40 CFR §64.9(a)(2)(iii) and §64.9(b)]
  - c. The permittee shall development and implement a new QIP if the threshold is exceeded during any six-month period. [40 CFR §64.9(a)(2)(iii) and §64.9(b)]
  - d. The permittee shall maintain records for SN-03 that describes the actions taken to implement the QIP. Upon completion of the QIP, documentation shall be maintained to confirm that the plan was completed and reduced the likelihood of similar excursions or exceedances. [40 CFR §64.9(a)(2)(iii) and §64.9(b)]

Saint Gobain Ceramics & Plastics, Inc.  
 Permit #: 0492-AOP-R8  
 AFIN: 66-00219

SN-67, SN-68 and SN-69

Dry Scrubber-Baghouse Unit (SN-67), Waste Lime silo bin Vent (SN-68) and Waste Lime Loading Operation (SN-69)

Source Description

The Dry Scrubber-Baghouse Unit is used to treat exhaust from SN-10 and SN-29. The exhaust gas is transferred to the venture reactor where hydrated lime is injected as a dry scrubbing agent. The exhaust from venture reactor is collected by a baghouse to remove lime and particulate matter prior to discharge to the atmosphere. Waste Lime from the dry scrubber is stored in a silo and located into trucks for off site disposal. A sealing boot is applied between the bottom of the silo load-out tube to the truck opening to limit fugitive dust. The vendor estimates a removal efficiency of 85% for SO<sub>2</sub> and 98% for HF.

Specific Conditions

22. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by Specific Condition 25 and 26. [Regulation 19 §19.501 et seq. and 40 CFR Part 52, Subpart E]

SN	Description	Pollutant	lb/hr	tpy
SN-67	Dry Scrubber-Baghouse Unit	PM <sub>10</sub>	10.2	44.7
		SO <sub>2</sub>	44.7	*
		VOC	0.4	*
		CO	6.0	*
		NO <sub>x</sub>	92.7	*
		HCl	0.77	3.34
		Cl	0.57	2.47
		HF	2.58	11.28
		F	0.39	1.70
SN-68	Waste Lime Silo Bin Vent	PM <sub>10</sub>	1.0	4.5
SN-69	Waste Lime Loading Operations	PM <sub>10</sub>	0.4	0.2

\*Plantwide Bubble for Combustion sources.

Saint Gobain Ceramics & Plastics, Inc.  
 Permit #: 0492-AOP-R8  
 AFIN: 66-00219

23. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by Specific Condition 25 and 26. [Regulation 18 §18.801 and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311]

SN	Description	Pollutant	lb/hr	tpy
SN-67	Dry Scrubber-Baghouse Unit	PM	10.2	44.7
SN-68	Waste Lime Silo Bin Vent	PM	1.0	4.5
SN-69	Waste Lime Loading Operations	PM	0.4	0.2

24. Visible emissions from SN-67, SN-68 and SN-69 shall not exceed 5% as measured by EPA Method 9. [§18.501 of Regulation 18 and A.C.A §8-4-203 as referenced by §8-4-304 and §8-4-311]
25. The permittee shall observe visible emissions from SN-67 and SN-68 daily. A full EPA Method 9 opacity observation will be performed if any visible emissions are noted. The permittee shall maintain records of all the observations and Full Method 9 Readings (when necessary). [§18.501 of Regulation 18 and A.C.A §8-4-203 as referenced by §8-4-304 and §8-4-311]

SO<sub>2</sub> Compliance Assurance Monitoring Plan Conditions

26. SN-67 is subject to and shall comply with all applicable provisions of §19.304 of Regulation 19, 40 CFR Part 52, Subpart E, and Section §64.6 for Compliance Assurance Monitoring.
- a. The permittee shall maintain a scrubber lime feed rate of at least 33.6 pounds of lime per ton of lightweight product or 42 pounds of lime per ton of high strength product.
  - b. The permittee shall continuously monitor scrubbing agent (lime) feed rate and spent lime recirculation rate.
  - c. The feed and recirculation systems shall be inspected weekly. Maintenance and repair shall be performed on an as needed basis. Records shall be kept of all weekly equipment inspections and of any maintenance performed.
  - d. Maintenance and repair of systems shall be performed in accordance with the manufacturer's specifications.
27. SN-67 is subject to and shall comply with all applicable provisions of §19.304 of Regulation 19, 40 CFR Part 52, Subpart E, and Section §64.9 for Compliance Assurance Monitoring. The following information pertaining to exceedances or excursions from permitted values shall be submitted in semi-annual reports in accordance with General Provision #7 as outlined in 40 CFR §70.6

Saint Gobain Ceramics & Plastics, Inc.

Permit #: 0492-AOP-R8

AFIN: 66-00219

- a. The permittee shall maintain records for SN-67 that summarize the number, duration, and cause of excursions or exceedances of emission limits as well as corrective action taken. [40 CFR §64.9(a)(2)(i) and §64.9(b)]
- b. The permittee shall maintain records for SN-67 that summarize the number, duration, and cause of monitoring equipment downtime incidents, other than routine downtime for calibration checks. [40 CFR §64.9(a)(2)(i) and §64.9(b)]
- c. The permittee shall maintain a quality improvement plan (QIP) threshold for each indicator of no more than nine excursions or 5% of the daily averages in a six-month period. [40 CFR §64.9(a)(2)(iii) and §64.9(b)]
- d. The permittee shall develop and implement a new QIP if the threshold is exceeded during any six-month period. [40 CFR §64.9(a)(2)(iii) and §64.9(b)]
- e. The permittee shall maintain records for SN-03 that describes the actions taken to implement the QIP. Upon completion of the QIP, documentation shall be maintained to confirm that the plan was completed and reduced the likelihood of similar excursions or exceedances. [40 CFR §64.9(a)(2)(iii) and §64.9(b)]

#### Particulate Compliance Assurance Monitoring Plan Conditions

28. SN-67 is subject to and shall comply with all applicable provisions of §19.304 of Regulation 19, 40 CFR Part 52, Subpart E, and Section §64.6 for compliance Assurance Monitoring.
  - a. The permittee shall daily monitor opacity from each exhaust.
  - b. A full Method 9 opacity observation will be performed if visible emissions in excess of the permit limit are noted.
  - c. Each source shall be inspected weekly. Maintenance and repair shall be performed on an as needed basis. Records shall be kept of all weekly equipment inspections and of any maintenance performed.
  - d. Maintenance and repair of systems shall be performed in accordance with the manufacturer's specifications.
29. SN-67 is subject to and shall comply with all applicable provisions of §19.304 of Regulation 19, 40 CFR Part 52, Subpart E, and Section §64.9 for Compliance Assurance Monitoring. The following information pertaining to exceedances or excursions from permitted values shall be submitted in semi-annual reports in accordance with General Provision #7 as outlined in 40 CFR §70.6.
  - a. The permittee shall maintain records for SN-67 that summarize the number, duration, and cause of excursions or exceedances of emission limits as well as corrective action taken. [40 CFR §64.9(a)(2)(i) and §64.9(b)]
  - b. The permittee shall maintain a quality improvement plan (QIP) threshold for each indicator of no more than nine excursions or 5% of the daily averages in a six-month period. [40 CFR §64.9(a)(2)(iii) and §64.9(b)]

Saint Gobain Ceramics & Plastics, Inc.  
Permit #: 0492-AOP-R8  
AFIN: 66-00219

- c. The permittee shall develop and implement a new QIP if the threshold is exceeded during any six-month period. [40 CFR §64.9(a)92)(iii) and §64.9(b)]
  - d. The permittee shall maintain records for SN-03 that describes the actions taken to implement the QIP. Upon completion of the QIP, documentation shall be maintained to confirm that the plan was completed and reduced the likelihood of similar excursions or exceedances. [40 CFR §64.9(a)(2)(iii) and §64.9(b)]
30. The permittee shall keep a copy of the facility's CAM (Compliance Assurance Monitoring) Plan (for all sources applicable to CAM) on-site and have it readily available to Department personnel upon request. [§18.501 of Regulation 18 and A.C.A §8-4-203 as referenced by §8-4-304 and §8-4-311]
31. Within five years from the date of the issuance of 0492-AOP-7 and every 5-years thereafter, the permittee shall test SN-67 to measure HF pound per hour emissions in accordance with EPA Reference Method 26A, 320, or equivalent from SN-67. During the compliance test, the SN-10 and SN-29 will operate at maximum production level. This test shall be performed to demonstrate compliance with the facility's permitted control efficiency of 98% for HF at the scrubber. Any equivalent testing method must first be approved by the Department. The results of this testing will be submitted to the Department in accordance with General Condition No. 7. [§18.1002 of Regulation 18, and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311]
32. Within five years from the date of the issuance of 0492-AOP-7 and every 5-years thereafter, the permittee shall test SN-67 to measure SO<sub>2</sub> pound per hour emissions in accordance with EPA Reference Method 6, or equivalent from SN-67. During the compliance test, the SN-10 and SN-29 will operate at maximum production level. This test shall be performed to demonstrate compliance with the facility's permitted control efficiency of 85% for SO<sub>2</sub> at the scrubber. Any equivalent testing method must first be approved by the Department. The results of this testing will be submitted to the Department in accordance with General Condition No. 7. [§19.702 of Regulation 19, and 40 CFR Part 52, Subpart E]



Saint Gobain Ceramics & Plastics, Inc.  
Permit #: 0492-AOP-R8  
AFIN: 66-00219

## **SECTION V: COMPLIANCE PLAN AND SCHEDULE**

Saint Gobain Ceramics & Plastics, Inc. will continue to operate in compliance with those identified regulatory provisions. The facility will examine and analyze future regulations that may apply and determine their applicability with any necessary action taken on a timely basis.

Saint Gobain Ceramics & Plastics, Inc.  
Permit #: 0492-AOP-R8  
AFIN: 66-00219

## SECTION VI: PLANTWIDE CONDITIONS

1. The permittee shall notify the Director in writing within thirty (30) days after commencing construction, completing construction, first placing the equipment and/or facility in operation, and reaching the equipment and/or facility target production rate. [Regulation 19, §19.704, 40 CFR Part 52, Subpart E, and A.C.A. §8-4-203 as referenced by A.C.A. §8-4-304 and §8-4-311]
2. If the permittee fails to start construction within eighteen months or suspends construction for eighteen months or more, the Director may cancel all or part of this permit. [Regulation 19, §19.410(B) and 40 CFR Part 52, Subpart E]
3. The permittee must test any equipment scheduled for testing, unless otherwise stated in the Specific Conditions of this permit or by any federally regulated requirements, within the following time frames: (1) new equipment or newly modified equipment within sixty (60) days of achieving the maximum production rate, but no later than 180 days after initial start up of the permitted source or (2) operating equipment according to the time frames set forth by the Department or within 180 days of permit issuance if no date is specified. The permittee must notify the Department of the scheduled date of compliance testing at least fifteen (15) days in advance of such test. The permittee shall submit the compliance test results to the Department within thirty (30) days after completing the testing. [Regulation 19, §19.702 and/or Regulation 18 §18.1002 and A.C.A. §8-4-203 as referenced by A.C.A. §8-4-304 and §8-4-311]
4. The permittee must provide:
  - a. Sampling ports adequate for applicable test methods;
  - b. Safe sampling platforms;
  - c. Safe access to sampling platforms; and
  - d. Utilities for sampling and testing equipment.

[Regulation 19, §19.702 and/or Regulation 18, §18.1002 and A.C.A. §8-4-203 as referenced by A.C.A. §8-4-304 and §8-4-311]
5. The permittee must operate the equipment, control apparatus and emission monitoring equipment within the design limitations. The permittee shall maintain the equipment in good condition at all times. [Regulation 19, §19.303 and A.C.A. §8-4-203 as referenced by A.C.A. §8-4-304 and §8-4-311]
6. This permit subsumes and incorporates all previously issued air permits for this facility. [Regulation 26 and A.C.A. §8-4-203 as referenced by A.C.A. §8-4-304 and §8-4-311]

Saint Gobain Ceramics & Plastics, Inc.  
Permit #: 0492-AOP-R8  
AFIN: 66-00219

7. The permittee shall demonstrate compliance with the Plantwide Combustion Limit in Specific Condition #1, by completing the following material balance for the following pollutants for each month the facility operates. [§19.705 of Regulation 19 and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311]:

$$30.7 \text{ TPY PM}_{10} = (0.0033)(B)(\text{ton}/2000 \text{ lbs}) + (C)(7.6)(\text{ton}/2000 \text{ lbs})$$

$$30.7 \text{ TPY PM} = (0.0033)(B)(\text{ton}/2000 \text{ lbs}) + (C)(7.6)(\text{ton}/2000 \text{ lbs})$$

$$6.2 \text{ TPY VOC} = (0.0003)(B)(\text{ton}/2000 \text{ lbs}) + (C)(5.5)(\text{ton}/2000 \text{ lbs})$$

$$244.0 \text{ TPY SO}_2 = (0.142)(A)(B)(\text{ton}/2000 \text{ lbs}) + (C)(0.6)(\text{ton}/2000 \text{ lbs}) + (D)(1.53 \text{ lb}/\text{ton})(\text{ton}/2000)$$

$$190.3 \text{ TPY CO} = (0.005)(B)(\text{ton}/2000 \text{ lbs}) + (C)(84)(\text{ton}/2000 \text{ lbs})$$

$$245.0 \text{ TPY NO}_x = (0.02)(B)(\text{ton}/2000 \text{ lbs}) + (C@ \text{SN-09})(58.7)(\text{ton}/2000 \text{ lbs}) + (C@ \text{SN-13})(58.7)(\text{ton}/2000 \text{ lbs}) + (C@ \text{SN-26})(71.4)(\text{ton}/2000 \text{ lbs}) + (C@ \text{SN-27})(142.86)(\text{ton}/2000 \text{ lbs}) + (C@ \text{SN-57})(37.5)(\text{ton}/2000 \text{ lbs}) + (C@ \text{SN-67})(562.5)(\text{ton}/2000 \text{ lbs})$$

Where:

- A = Weigh percent sulfur in the diesel fuel consumed.  
(i.e.: if fuel is 0.05% sulfur, then A = 0.05)  
B = Gallons of diesel fuel burned.  
C = Million standard cubic feet of natural gas used per year.  
D = Tons of final product produced.

The facility shall keep satisfactory usage and content records to complete the above equation on site. The facility shall also complete a summation of the resultant of the above equations for the previous 12 months operation each month. The records from the above material balances shall be kept on site and made available to Department personnel upon request. A copy of the results of this calculation shall be submitted with the semi-annual report required in General Provision No. 7.

Saint Gobain Ceramics & Plastics, Inc.  
Permit #: 0492-AOP-R8  
AFIN: 66-00219

### SECTION VII: INSIGNIFICANT ACTIVITIES

The following sources are insignificant activities. Any activity that has a state or federal applicable requirement shall be considered a significant activity even if this activity meets the criteria of §26.304 of Regulation 26 or listed in the table below. Insignificant activity determinations rely upon the information submitted by the permittee in an application dated October 2010.

Description	Category
Gas fired Pilot Plant	A-1
Two 0.6 MMBtu/hr Hot Water Heaters	A-1
Two Laboratory Vent Hoods	A-5
Three Portable Emergency Use Electrical Generators	B-16
One Diesel Fuel Storage Tank	A-3
Two 15,000 gallon Diesel Storage Tanks	A-13
Two Line #3 Milled Feed Vessel Filters	A-13

Saint Gobain Ceramics & Plastics, Inc.  
Permit #: 0492-AOP-R8  
AFIN: 66-00219

### SECTION VIII: GENERAL PROVISIONS

1. Any terms or conditions included in this permit which specify and reference Arkansas Pollution Control & Ecology Commission Regulation 18 or the Arkansas Water and Air Pollution Control Act (A.C.A. §8-4-101 et seq.) as the sole origin of and authority for the terms or conditions are not required under the Clean Air Act or any of its applicable requirements, and are not federally enforceable under the Clean Air Act. Arkansas Pollution Control & Ecology Commission Regulation 18 was adopted pursuant to the Arkansas Water and Air Pollution Control Act (A.C.A. §8-4-101 et seq.). Any terms or conditions included in this permit which specify and reference Arkansas Pollution Control & Ecology Commission Regulation 18 or the Arkansas Water and Air Pollution Control Act (A.C.A. §8-4-101 et seq.) as the origin of and authority for the terms or conditions are enforceable under this Arkansas statute. [40 CFR 70.6(b)(2)]
2. This permit shall be valid for a period of five (5) years beginning on the date this permit becomes effective and ending five (5) years later. [40 CFR 70.6(a)(2) and Regulation 26 §26.701(B)]
3. The permittee must submit a complete application for permit renewal at least six (6) months before permit expiration. Permit expiration terminates the permittee's right to operate unless the permittee submitted a complete renewal application at least six (6) months before permit expiration. If the permittee submits a complete application, the existing permit will remain in effect until the Department takes final action on the renewal application. The Department will not necessarily notify the permittee when the permit renewal application is due. [Regulation 26 §26.406]
4. Where an applicable requirement of the Clean Air Act, as amended, 42 U.S.C. 7401, et seq. (Act) is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, the permit incorporates both provisions into the permit, and the Director or the Administrator can enforce both provisions. [40 CFR 70.6(a)(1)(ii) and Regulation 26 §26.701(A)(2)]
5. The permittee must maintain the following records of monitoring information as required by this permit.
  - a. The date, place as defined in this permit, and time of sampling or measurements;
  - b. The date(s) analyses performed;
  - c. The company or entity performing the analyses;
  - d. The analytical techniques or methods used;
  - e. The results of such analyses; and
  - f. The operating conditions existing at the time of sampling or measurement.

[40 CFR 70.6(a)(3)(ii)(A) and Regulation 26 §26.701(C)(2)]

Saint Gobain Ceramics & Plastics, Inc.  
Permit #: 0492-AOP-R8  
AFIN: 66-00219

6. The permittee must retain the records of all required monitoring data and support information for at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. [40 CFR 70.6(a)(3)(ii)(B) and Regulation 26 §26.701(C)(2)(b)]
7. The permittee must submit reports of all required monitoring every six (6) months. If permit establishes no other reporting period, the reporting period shall end on the last day of the anniversary month of the initial Title V permit. The report is due within thirty (30) days of the end of the reporting period. Although the reports are due every six months, each report shall contain a full year of data. The report must clearly identify all instances of deviations from permit requirements. A responsible official as defined in Regulation No. 26, §26.2 must certify all required reports. The permittee will send the reports to the address below:

Arkansas Department of Environmental Quality  
Air Division  
ATTN: Compliance Inspector Supervisor  
5301 Northshore Drive  
North Little Rock, AR 72118-5317

[40 CFR 70.6(a)(3)(iii)(A) and Regulation 26 §26.701(C)(3)(a)]

8. The permittee shall report to the Department all deviations from permit requirements, including those attributable to upset conditions as defined in the permit.
  - a. For all upset conditions (as defined in Regulation 19, § 19.601), the permittee will make an initial report to the Department by the next business day after the discovery of the occurrence. The initial report may be made by telephone and shall include:
    - i. The facility name and location;
    - ii. The process unit or emission source deviating from the permit limit;
    - iii. The permit limit, including the identification of pollutants, from which deviation occurs;
    - iv. The date and time the deviation started;
    - v. The duration of the deviation;
    - vi. The average emissions during the deviation;
    - vii. The probable cause of such deviations;
    - viii. Any corrective actions or preventive measures taken or being taken to prevent such deviations in the future; and
    - ix. The name of the person submitting the report.

Saint Gobain Ceramics & Plastics, Inc.  
Permit #: 0492-AOP-R8  
AFIN: 66-00219

The permittee shall make a full report in writing to the Department within five (5) business days of discovery of the occurrence. The report must include, in addition to the information required by the initial report, a schedule of actions taken or planned to eliminate future occurrences and/or to minimize the amount the permit's limits were exceeded and to reduce the length of time the limits were exceeded. The permittee may submit a full report in writing (by facsimile, overnight courier, or other means) by the next business day after discovery of the occurrence, and the report will serve as both the initial report and full report.

- b. For all deviations, the permittee shall report such events in semi-annual reporting and annual certifications required in this permit. This includes all upset conditions reported in 8a above. The semi-annual report must include all the information as required by the initial and full reports required in 8a.

[Regulation 19 §19.601 and §19.602, Regulation 26 §26.701(C)(3)(b), and 40 CFR 70.6(a)(3)(iii)(B)]

9. If any provision of the permit or the application thereof to any person or circumstance is held invalid, such invalidity will not affect other provisions or applications hereof which can be given effect without the invalid provision or application, and to this end, provisions of this Regulation are declared to be separable and severable. [40 CFR 70.6(a)(5), Regulation 26 §26.701(E), and A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311]
10. The permittee must comply with all conditions of this Part 70 permit. Any permit noncompliance with applicable requirements as defined in Regulation 26 constitutes a violation of the Clean Air Act, as amended, 42 U.S.C. §7401, et seq. and is grounds for enforcement action; for permit termination, revocation and reissuance, for permit modification; or for denial of a permit renewal application. [40 CFR 70.6(a)(6)(i) and Regulation 26 §26.701(F)(1)]
11. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the conditions of this permit. [40 CFR 70.6(a)(6)(ii) and Regulation 26 §26.701(F)(2)]
12. The Department may modify, revoke, reopen and reissue the permit or terminate the permit for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [40 CFR 70.6(a)(6)(iii) and Regulation 26 §26.701(F)(3)]
13. This permit does not convey any property rights of any sort, or any exclusive privilege. [40 CFR 70.6(a)(6)(iv) and Regulation 26 §26.701(F)(4)]

Saint Gobain Ceramics & Plastics, Inc.  
Permit #: 0492-AOP-R8  
AFIN: 66-00219

14. The permittee must furnish to the Director, within the time specified by the Director, any information that the Director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee must also furnish to the Director copies of records required by the permit. For information the permittee claims confidentiality, the Department may require the permittee to furnish such records directly to the Director along with a claim of confidentiality. [40 CFR 70.6(a)(6)(v) and Regulation 26 §26.701(F)(5)]
15. The permittee must pay all permit fees in accordance with the procedures established in Regulation 9. [40 CFR 70.6(a)(7) and Regulation 26 §26.701(G)]
16. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes provided for elsewhere in this permit. [40 CFR 70.6(a)(8) and Regulation 26 §26.701(H)]
17. If the permit allows different operating scenarios, the permittee shall, contemporaneously with making a change from one operating scenario to another, record in a log at the permitted facility a record of the operational scenario. [40 CFR 70.6(a)(9)(i) and Regulation 26 §26.701(I)(1)]
18. The Administrator and citizens may enforce under the Act all terms and conditions in this permit, including any provisions designed to limit a source's potential to emit, unless the Department specifically designates terms and conditions of the permit as being federally unenforceable under the Act or under any of its applicable requirements. [40 CFR 70.6(b) and Regulation 26 §26.702(A) and (B)]
19. Any document (including reports) required by this permit must contain a certification by a responsible official as defined in Regulation 26, §26.2. [40 CFR 70.6(c)(1) and Regulation 26 §26.703(A)]
20. The permittee must allow an authorized representative of the Department, upon presentation of credentials, to perform the following: [40 CFR 70.6(c)(2) and Regulation 26 §26.703(B)]
  - a. Enter upon the permittee's premises where the permitted 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 required under the conditions of this permit;
  - c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and



Saint Gobain Ceramics & Plastics, Inc.  
Permit #: 0492-AOP-R8  
AFIN: 66-00219

- d. As authorized by the Act, sample or monitor at reasonable times substances or parameters for assuring compliance with this permit or applicable requirements.
21. The permittee shall submit a compliance certification with the terms and conditions contained in the permit, including emission limitations, standards, or work practices. The permittee must submit the compliance certification annually within 30 days following the last day of the anniversary month of the initial Title V permit. The permittee must also submit the compliance certification to the Administrator as well as to the Department. All compliance certifications required by this permit must include the following: [40 CFR 70.6(c)(5) and Regulation 26 §26.703(E)(3)]
    - a. The identification of each term or condition of the permit that is the basis of the certification;
    - b. The compliance status;
    - c. Whether compliance was continuous or intermittent;
    - d. The method(s) used for determining the compliance status of the source, currently and over the reporting period established by the monitoring requirements of this permit; and
    - e. Such other facts as the Department may require elsewhere in this permit or by §114(a)(3) and §504(b) of the Act.
  22. Nothing in this permit will alter or affect the following: [Regulation 26 §26.704(C)]
    - a. The provisions of Section 303 of the Act (emergency orders), including the authority of the Administrator under that section;
    - b. The liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance;
    - c. The applicable requirements of the acid rain program, consistent with §408(a) of the Act; or
    - d. The ability of EPA to obtain information from a source pursuant to §114 of the Act.
  23. This permit authorizes only those pollutant emitting activities addressed in this permit. [A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311]
  24. The permittee may request in writing and at least 15 days in advance of the deadline, an extension to any testing, compliance or other dates in this permit. No such extensions are authorized until the permittee receives written Department approval. The Department may grant such a request, at its discretion in the following circumstances:
    - a. Such an extension does not violate a federal requirement;
    - b. The permittee demonstrates the need for the extension; and
    - c. The permittee documents that all reasonable measures have been taken to meet the current deadline and documents reasons it cannot be met.

Saint Gobain Ceramics & Plastics, Inc.  
Permit #: 0492-AOP-R8  
AFIN: 66-00219

[Regulation 18 §18.314(A), Regulation 19 §19.416(A), Regulation 26 §26.1013(A), A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, and 40 CFR Part 52, Subpart E]

25. The permittee may request in writing and at least 30 days in advance, temporary emissions and/or testing that would otherwise exceed an emission rate, throughput requirement, or other limit in this permit. No such activities are authorized until the permittee receives written Department approval. Any such emissions shall be included in the facility's total emissions and reported as such. The Department may grant such a request, at its discretion under the following conditions:
- a. Such a request does not violate a federal requirement;
  - b. Such a request is temporary in nature;
  - c. Such a request will not result in a condition of air pollution;
  - d. The request contains such information necessary for the Department to evaluate the request, including but not limited to, quantification of such emissions and the date/time such emission will occur;
  - e. Such a request will result in increased emissions less than five tons of any individual criteria pollutant, one ton of any single HAP and 2.5 tons of total HAPs; and
  - f. The permittee maintains records of the dates and results of such temporary emissions/testing.

[Regulation 18 §18.314(B), Regulation 19 §19.416(B), Regulation 26 §26.1013(B), A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, and 40 CFR Part 52, Subpart E]

26. The permittee may request in writing and at least 30 days in advance, an alternative to the specified monitoring in this permit. No such alternatives are authorized until the permittee receives written Department approval. The Department may grant such a request, at its discretion under the following conditions:
- a. The request does not violate a federal requirement;
  - b. The request provides an equivalent or greater degree of actual monitoring to the current requirements; and
  - c. Any such request, if approved, is incorporated in the next permit modification application by the permittee.

[Regulation 18 §18.314(C), Regulation 19 §19.416(C), Regulation 26 §26.1013(C), A.C.A. §8-4-203 as referenced by §8-4-304 and §8-4-311, and 40 CFR Part 52, Subpart E]