

Part 70 Operating Permit Amendment

Permit Amendment No.: **3291-261-0070-V-01-1** Effective Date: **December 27, 2004**

Facility Name: **C. E. Minerals Plant 6**

Facility Address Highway 195
Andersonville, Georgia 31711 (Sumter County)

Mailing Address: P. O. Box 37
Andersonville, Georgia 31711

**Parent/Holding
Company:** Imerys

Facility AIRS Number: 04-13-261-00070

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:

To reconfigure the equipment to process nonmetallic minerals.

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 Permit Amendment and Permit No. 3291-261-0070-V-01-0. Unless modified or revoked, this Permit Amendment expires simultaneously with Part 70 Permit no. 3291-261-0070-V-01-0.

This Permit 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 Application No. TV-15050 dated February 12, 2004 revised on August 20, 2004; any other applications upon which this Permit Amendment or Permit No. 3291-261-0070-V-01-0 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 Permit Amendment is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached **8** pages, which pages are a part of this Permit Amendment, and which hereby become part of Permit No. 3291-261-0070-V-01-0.

Director
Environmental Protection Division

Table of Contents

PART 1.0 FACILITY DESCRIPTION.....1
1.3 Process Description of Modification..... 1

PART 3.0 REQUIREMENTS FOR EMISSION UNITS2
3.1 Emission Units2
3.2 Equipment Emission Caps and Operating Limits2
3.3 Equipment Federal Rule Standards.....3
3.4 Equipment SIP Rule Standards3

PART 4.0 REQUIREMENTS FOR TESTING.....5
4.2 Specific Testing Requirements.....5

PART 5.0 REQUIREMENTS FOR MONITORING (Related to Data Collection)6
5.2 Specific Monitoring Requirements6

PART 6.0 OTHER RECORD KEEPING AND REPORTING REQUIREMENTS8
6.1 General Record Keeping and Reporting Requirements8

PART 1.0 FACILITY DESCRIPTION

1.3 Process Description of Modification

The current operations of crushing, sizing and packaging or bulk loading of mineral aggregates will be retained. The existing plant will be reconfigured to process nonmetallic minerals from the adjacent Plant 1. The proposed operations will comprise two production lines in parallel, designated as “East” and “West”, to accommodate processing of two different grades of Mulcoa.

Title V Permit Amendment

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 Emission Units

Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
CS02	East Crushing, Screening and Packaging System	40 CFR Part 60 LL 40 CFR Part 60 OOO 391-3-1-.02(2)(p) 391-3-1-.02(2)(b)	2.2.1, 3.2.1, 3.3.1, 3.3.2, 3.4.1, 3.4.2, 3.5.1, 3.5.2, 4.2.1, 4.2.2, 5.2.1, 5.2.2, 5.2.3, 5.2.5, 6.1.7, 6.1.9, 6.2.1	A1	Baghouse (ST01)
CS03	West Crushing, and Screening System	40 CFR Part 60 LL 40 CFR Part 60 OOO 391-3-1-.02(2)(p) 391-3-1-.02(2)(b)	2.2.1, 3.2.1, 3.3.1, 3.3.2, 3.4.1, 3.4.2, 3.5.1, 3.5.2, 4.2.1, 4.2.2, 5.2.1, 5.2.2, 5.2.3, 5.2.5, 6.1.7, 6.1.9, 6.2.1	A4	Baghouse (ST02)
PS01	West Packaging System	40 CFR Part 60 LL 40 CFR Part 60 OOO 391-3-1-.02(2)(p) 391-3-1-.02(2)(b)	2.2.1, 3.2.1, 3.3.1, 3.3.2, 3.4.1, 3.4.2, 3.5.1, 3.5.2, 4.2.1, 4.2.2, 5.2.1, 5.2.2, 5.2.3, 5.2.5, 6.1.7, 6.1.9, 6.2.1	A3	Baghouse (ST03)
PM03	Rail Car Loading System	40 CFR Part 60 LL 40 CFR Part 60 OOO 391-3-1-.02(2)(p) 391-3-1-.02(2)(b)	2.2.1, 3.2.1, 3.3.1, 3.3.2, 3.4.1, 3.4.2, 3.5.1, 3.5.2, 4.2.1, 5.2.1, 5.2.2, 5.2.5, 6.1.7, 6.2.1	None	None

* Generally applicable requirements contained in this permit may also apply to emission units listed above.

3.2 Equipment Emission Caps and Operating Limits

3.2.1 The Permittee shall not exceed any particulate matter emission rate limit or any limit on operating hours for emission units as listed in Table 3.2.1. The limits are in addition to any other applicable limitation.

[40 CFR Part 52 Section 52.21, PSD avoidance]

Table 3.2.1

Source Code(s)	Emission Units	Control Device (Source Code)	Stack	PM Emission Rates Not To Exceed	Operating hours not to exceed during any 12 consecutive months
CS02	East Crushing, Screening and Packaging System	Baghouse A1	ST01	2.7 lb/hr	5,100 hours
SC03	West Crushing, and Screening System	Baghouse A4	ST02	1.6 lb/hr	5,100 hours
PS01	West Packaging System	Baghouse A3	ST03	1.3 lb/hr	5,100 hours
PM03	Rail Car Loading System	None	None	0.0	5,100 hours

3.3 Equipment Federal Rule Standards

- 3.3.2 The Permittee shall comply with the provisions of 40 CFR Part 60, Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants" for all subject equipment (for reference, see listing in Table 3.1). In particular, for sources subject to Subpart OOO, the Permittee shall comply with the following for each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, and enclosed truck or railcar loading station:
[40 CFR 60.672 (a) thru (h)]

The Permittee shall not discharge or cause the discharge into the atmosphere, from each piece of processing equipment subject to 40 CFR 60 Subpart OOO, any

- a. fugitive emissions greater than 10 percent opacity from any transfer point on belt conveyor and 15 percent opacity from any crusher.
- b. stack emissions which:
 - i. Contain particulate matter in excess of 0.05 g/dscm (0.022 grains/dscf).
 - ii. Exhibit greater than 7 percent opacity.
- c. stack emissions, from any baghouse that controls emissions from only an individual enclosed storage bin which:
 - i. Exhibit greater than 7 percent opacity.
- d. visible emissions from:
 - i. Wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin.
 - ii. Screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.

3.4 Equipment SIP Rule Standards

- 3.4.1 The Permittee shall comply with the provisions of Georgia Air Quality Control Rule 391-3-1-.02(2)(p)1. "Particulate Emissions from Kaolin and Fullers Earth Processes". The Permittee shall not discharge, or cause the discharge from any source put in operation or extensively altered after January 01, 1972, particulate matter in total quantities equal to or exceeding the allowable rates specified in the below equations, unless otherwise specified in this Permit. Table 3.1 of this Permit specifies sources affected by this Condition.

$$E = 3.59P^{0.62} ; \text{ for equipment with process input weight rate up to and including 30 tons per hour;}$$

Title V Permit Amendment

$E = 17.31P^{0.16}$, for equipment with process input weight rate above 30 tons per hour.

where E = The emission rate is in pounds per hour.

P = The process input weight rate is in tons per hour.

- 3.4.2 The Permittee shall not cause, let, suffer, permit or allow emissions from any air contaminant source the opacity of which is equal to or greater than forty (40) percent.
[391-3-1-.02(2)(b)1]

PART 4.0 REQUIREMENTS FOR TESTING

4.2 Specific Testing Requirements

- 4.2.2 Within 60 days after achieving the maximum production rate at which the equipment will be operated, but no later than 180 days after initial startup, the Permittee shall conduct a performance test for Particulate Matter and Visible Emissions on baghouses A1, A3 and A4, In accordance with the provisions of 40 CFR Part 60.
[40 CFR 60.8]

PART 5.0 REQUIREMENTS FOR MONITORING (Related to Data Collection)

5.2 Specific Monitoring Requirements

5.2.1 The Permittee shall install, calibrate, maintain, and operate monitoring devices for the measurement of the indicated parameters on the equipment in the following table. Data shall be recorded at the frequencies specified. 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)]

Emission Unit	Control Device ID	Description of Control Device	Parameter to be monitored	Recording Frequency*
East Crushing, Screening and Packaging System	A1	Baghouse	Pressure drop	Weekly
West Crushing, and Screening System	A4	Baghouse	Pressure drop	Weekly
West Packaging System	A3	Baghouse	Pressure drop	Weekly

* Weekly means each week or portion of each week of operation of the associated emission unit.

5.2.2 The Permittee shall perform a check of visible emissions from all baghouses (including process baghouses) controlling emissions from sources listed in Section 3.1 of this permit, and from sources added or replaced in accordance with the provisions of condition 7.1.2. The Permittee shall retain a record in a daily visible emissions (VE) log suitable for inspection or submittal. The check shall be conducted at least once for each day or portion of each day of operation using procedures a through d below except when atmospheric conditions or sun positioning prevent any opportunity to perform the daily VE check. Any operational day when atmospheric conditions or sun position prevent a daily reading shall be reported as monitor downtime in the report required by Condition 6.1.4.

[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

- a. Determine, in accordance with the procedures specified in paragraph d of this condition, if visible emissions are present at the discharge point to the atmosphere from each of the sources and record the results in the daily (VE) log. For sources that exhibit visible emissions, the Permittee shall comply with paragraph b or c of this condition.

- b. For each source determined to be emitting visible emissions, the Permittee shall determine whether the emissions equal or exceed the opacity action level at any time during the determination for that source using the procedure specified in paragraph d of this condition, except that the person performing the determination shall have received additional training acceptable to the Division to recognize the appropriate opacity level and the determination shall cover a period of three minutes. The opacity action level for baghouses subject to the emission limitations of the NSPS regulations is 5 percent, and for baghouses not subject to NSPS regulations is 10 percent. The results shall be recorded in the daily (VE) log. For sources that exhibit visible emissions of greater than or equal to the opacity action level, the Permittee shall comply with paragraph c of this condition.

Title V Permit Amendment

- c. For each source that requires action in accordance with paragraph a or b of this condition, the Permittee shall determine the cause of the excursion and correct the problem in the most expedient manner possible. The Permittee shall note the cause of the excursion, the pressure drop, any other pertinent operating parameters, and the corrective action taken in the maintenance log.
- d. The person performing the determination shall stand at a distance of at least 15 feet, which is sufficient to provide a clear view of the plume against a contrasting background with the sun in the 140° sector at his/her back. Consistent with this requirement, the determination shall be made from a position such that the line of vision is approximately perpendicular to the plume direction. Only one plume shall be in the line of sight at any time when multiple stacks are in proximity to each other.

5.2.3 Within 60 days of the issuance of this permit, the Permittee shall develop and implement a Preventive Maintenance Program for the baghouses specified in condition 5.2.2 to assure that the provisions of condition 8.17.1 are met. The program shall be subject to review and modification by the Division and shall include the pressure drop ranges that indicate proper operation for each baghouse. At a minimum, the following operation and maintenance checks shall be made on at least a weekly basis, and a record of the findings and corrective actions taken shall be kept in a maintenance log:

[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

- a. Record the pressure drop across each baghouse and ensure that it is within the appropriate range.
- b. For baghouses equipped with compressed air cleaning systems, check the system for proper operation. This may include checking for low pressure, leaks, proper lubrication, and proper operation of timer and valves.
- c. For baghouses equipped with reverse air cleaning systems, check the system for proper operation. This may include checking damper, bypass, and isolation valves for proper operation.
- d. For baghouses equipped with shaker cleaning systems, check the system for proper operation. This may include checking shaker mechanism for loose or worn bearings, drive components, mounting; proper operation of outlet/isolation valves; proper lubrication.
- e. Check dust collector hoppers and conveying systems for proper operation.

PART 6.0 OTHER RECORD KEEPING AND REPORTING REQUIREMENTS

6.1 General Record Keeping and Reporting Requirements

- 6.1.9 The Permittee shall retain monthly records of operating hours for emission units listed in Table 3.2.1. The records shall be used to determine the twelve consecutive month total operating hours. The Permittee shall submit written reports of actual operating hours of the emission units listed in Table 3.2.1. The reports shall cover each semiannual period ending June 30 and December 31 of each year, shall be postmarked by the 30th day following the end of each reporting period, July 30 and January 30, respectively.
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]