

Part 70 Operating Permit Amendment

Permit Amendment No.: 3255-261-0047-V-04-7 Effective Date: February 12, 2007

Facility Name: **C-E Minerals Plant 2**

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: 04-13-261-0047

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:

Modification of PSD avoidance limitations present in Condition 3.2.2 for Roller Mill Number 3 (Emission Unit ID Number RM3)

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. 3255-261-0047-V-04-0. Unless modified or revoked, this Permit Amendment expires simultaneously with Part 70 Permit No. 3255-261-0047-V-04-0.

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-16080 dated March 3, 2005 any other applications upon which this Permit Amendment or Permit No. 3255-261-0047-V-04-0 are based; supporting data entered therein or attached thereto; or any subsequent submittal or supporting data; or for any alterations affecting the emissions from this source.

This Permit Amendment is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 7 pages, which pages are a part of this Permit Amendment, and which hereby become part of Permit No. 3255-261-0047-V-04-0.

Director
Environmental Protection Division

Table of Contents

PART 1.0 FACILITY DESCRIPTION2
1.3 Process Description of Modification.....2

PART 3.0 REQUIREMENTS FOR EMISSION UNITS3
3.1. Emission Units Associated with this Amendment3
3.2 Equipment Emission Caps and Operating Limits3

PART 6.0 OTHER RECORD KEEPING AND REPORTING REQUIREMENTS.....5
6.1 General Record Keeping and Reporting Requirements5
6.2 Specific Record Keeping and Reporting Requirements.....7

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

The company is requesting the modification of the PSD avoidance limits for Roller Mill RM3 (Emission Unit ID No. RM3). Condition No. 3.2.2 limits the hours of operation for RM3 to no more than 5,600 hours per year. The company is requesting removing the hours of operation limit and lowering the mass emission limitation to 3.28 pounds PM per hour in order to avoid a PSD review for PM and PM-10. Condition No. 3.2.9 is being added to ensure that the sulfur content of the fuel combusted in Roller Mill RM3 is limited to 0.5 percent, by weight, to ensure that the rescinding of the operational limits for Roller Mill RM3 does not trigger a PSD review for SO₂ emissions. Condition Nos. 6.1.7b.x, 6.1.7d.i, and 6.2.3 associated with tracking the hours of operation is deleted. Condition No. 6.2.4 is modified in order to require that the fuel oil used in Roller Mill RM3 meet the sulfur content specified in Condition No. 3.2.9.

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.

3.1.1 Emission Units Associated with this Amendment

Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices		
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Stack ID Nos.	Description
RM3	Roller Mill No. 3	40 CFR Part 60 Subpart OOO 391-3-1-.02(2)(b) 391-3-1-.02(2)(g) 391-3-1-.02(2)(p) 40 CFR 52.21(j)	3.2.2, 3.2.9, 3.3.1, 3.3.3, 3.4.1, 3.4.2, 3.4.3, 3.5.1, 3.5.2, 5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.9, 6.1.4, 6.1.7, 6.2.4, and 6.2.2	RMB3	25	Baghouse

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

3.2 Equipment Emission Caps and Operating Limits

Modified Condition

3.2.2 The Permittee shall not exceed any particulate matter emission rate limit for emission units as listed in Table 3.2.2. The limits are in addition to any other applicable limitation. [40 CFR Part 52 Section 52.21, avoidance]

Table 3.2.2

Source Code(s)	Emission Units	Control Device (Source Code)	Stack	PM Emission Rates Not To Exceed
I10	Jaw Crusher	Baghouse I11	30	1.02 lb/hr
I12	Barmac Crushing Circuit	Baghouse B12	27	1.00 lb/hr
I13	Sizing and Bagging	Baghouse B13	26	0.30 lb/hr
BD2	Rotary Dryer	Baghouse BD3	28	2.45 lb/hr
BD5	Loading Chute	Baghouse BD7	29	0.86 lb/hr
RM3	Roller Mill	Baghouse RMB3	25	3.28 lb/hr
K1 & K4	Cooler	Baghouse CBH4	14	3.12 lb/hr

New Condition

3.2.9 The Permittee shall limit fuel oil fired in Roller Mill (Emission Unit ID RM3) to distillate only. For the purposes of this condition, distillate oil means fuel oil that complies with the specification for oil numbers 1 and 2 as defined in ASTM D396.

Title V Permit Amendment

New Condition

- 4.2.3 The Permittee shall conduct particulate matter emission tests on the emission units listed in Table 4.2.3 to demonstrate compliance with the PSD avoidance limit specified in Condition 3.2.2. The test shall be conducted within 90 days of issued date of this permit. The tests shall be conducted at the maximum anticipated production rate. The results of the performance test shall be submitted to the Division within 30 days of the completion of testing.
[40 CFR 70.6(a)(3)(i)(B) and 391-3-1-.02(3)]

Source Code(s)	Emission Units	Control Device (Source Code)	Stack
RM3	Roller Mill No. 3	Baghouse RMB3	25

PART 6.0 OTHER RECORD KEEPING AND REPORTING REQUIREMENTS**6.1 General Record Keeping and Reporting Requirements****Modified Condition**

6.1.7 For the purpose of reporting excess emissions, exceedances or excursions in the report required in Condition 6.1.4, the following excess emissions, exceedances, and excursions shall be reported:

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

- a. Excess emissions: (means for the purpose of this Condition and Condition 6.1.4, any condition that is detected by monitoring or record keeping which is specifically defined, or stated to be, excess emissions by an applicable requirement)

None required to be reported in accordance with Condition 6.1.4.

- b. Exceedances: (means for the purpose of this Condition and Condition 6.1.4, any condition that is detected by monitoring or record keeping that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) do not meet the applicable emission limitation or standard consistent with the averaging period specified for averaging the results of the monitoring)

i. Any 12-consecutive month period during which fuel oil was fired in the Rotary Dryer (BD2) more than 1,200 hours.

ii. Deleted.

iii. Deleted.

iv. Deleted.

v. Deleted.

vi. Deleted.

vii. Deleted.

viii. Deleted.

ix. Deleted.

x. Deleted.

xi. Any time when fuel other than natural gas, propane, or No. 2 fuel is fired in the Rotary Dryer (BD2).

xii. Any time when coal fired in a Rotary Kiln (K1, K2, K3, K4 or K5) contains more than 2.5% sulfur by weight.

xiii. Any time when fuel oil is fired that does not meet the definition of distillate oil as specified in Condition 6.2.4.

xiv. Any time when Baghouse CBH4 is not operated while processing dry kaolin, dry bauxitic, meta kaolin, or meta bauxitic clays in Cooler (K1) or Cooler (K4).

- c. Excursions: (means for the purpose of this Condition and Condition 6.1.4, any departure from an indicator range or value established for monitoring consistent with any averaging period specified for averaging the results of the monitoring)

Title V Permit Amendment

- i. Any two consecutive required daily determinations of visible emissions requiring action by Condition 5.2.2 a. or b. from the same source.
 - ii. Any visible emissions or mechanical failure or malfunction discovered by the walk through described in condition 5.2.6 that are not eliminated or corrected within 24 hours of first discovering the visible emissions or mechanical failure or malfunction.
 - iii. Each occurrence when the temperature at the inlet of any baghouse specified in condition 5.2.4 exceeds the filter bag design temperature or the equivalent filter bag design temperature recorded in accordance with condition 5.2.4.
 - iv. Any average SO₂ concentration, measured in accordance with Condition 5.2.7, which is greater than 450 ppm.
 - v. Any pH measurement below 5.0, measured in accordance with Condition 5.2.8.
 - vi. Any two-hour average of the wet scrubber pressure loss required by Condition 5.2.1 that is less than 10.8 inches of water column for each scrubber (1KZ, 2KZ, 3KZ, 4KZ, and 5KZ).
 - vii. Any two-hour average of the wet scrubber liquid flow rate required by Condition 5.2.1 that is less than 344 gallons per minute or greater than 516 gallons per minute for each scrubber (1KZ, 2KZ, 3KZ, 4KZ, and 5KZ).
 - viii. For scrubber CMD2, any two-hour block average of the wet scrubber pressure loss that is less than 90 percent of the value established in condition 5.2.10. For the purposes of this permit, a two-hour block average shall be defined as any one of the eight consecutive two-hour time periods between 12:00 midnight and the following midnight.
 - ix. For scrubber CMD2, any two-hour block average of the wet scrubber liquid flow rate that is less than 80 percent or more than 120 percent of the value established in condition 5.2.11. For the purposes of this permit, a two-hour block average shall be defined as any one of the eight consecutive two-hour time periods between 12:00 midnight and the following midnight.
- d. In addition to the excess emissions, exceedances and excursions specified above, the following should also be included with the report required in Condition 6.1.4:
- i. **Deleted.**
 - ii. The report shall contain fuel supplier certifications and a certified statement from a Responsible Official that the records of fuel supplier certifications submitted represent all of the fuel oil combusted during the semiannual period. If no fuel oil was combusted during the semiannual period, the report should so state.
 - iii. The report shall contain coal supplier records and a certified statement from a Responsible Official that the records of fuel supplier analyses submitted represent all of the coal combusted during the semiannual period. If no coal was combusted during the semiannual period, the report should so state.
 - iv. The report shall contain a certified statement from a Responsible Official showing all fuels that were fired in the Rotary Dryer (BD2) during the reporting period.
 - v. A report, prepared from the records required by Condition 6.2.7, of start and end times for the operation of Baghouse CBH4 and operations of Coolers K1

- and K4, which represent each day or portion of each day dry kaolin, dry bauxitic, meta kaolin, or meta bauxitic clay is processed.
- vi. A report, prepared from the records required by Condition 6.2.8 for Rotary Dryer (ID No. BD2). The report shall consist of six 12-consecutive month totals (a total for each month in the semiannual reporting period) of the hours of operation of the dryer on No. 2 fuel oil. A 12-consecutive month total shall be defined as the sum of the hours of operation for a month plus the total hours of operation for the previous 11 consecutive months.

6.2 Specific Record Keeping and Reporting Requirements

Deleted Condition

6.2.3 Deleted.