

# Part 70 Operating Permit Amendment

Permit Amendment No.: **3255-261-0047-V-04-4**      Effective Date: **May 16, 2005**

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

**Facility Address**        Highway 195, Andersonville, Georgia 31711

**Mailing Address:**      P.O. Box 37  
Andersonville, Georgia 31711 (Sumter County)

**Parent/Holding  
Company:**                Imerys

**Facility AIRS Number:**    04-13-261-00047

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:

Removal of hours of operation limitation for the IC Plant Jaw Crusher (I10), Barmac Crushing Circuit (I12), and Sizing and Bagging Operation (I13), the Rotary Dryer (BD2), Loading Chute (BD5) and increase of PM emissions for Barmac Crushing Circuit (I12) from 0.40 lbs/hr to 1.0 lbs/hr. Condition No. 3.2.2 is hereby amended to delete applicability of limitations on the hours of operation for Emission Unit ID No. I10, I12, I13, BD2 and BD5 and authorize PM emissions increase. Condition Nos. 6.1.7 and 6.2.3 is amended accordingly. Condition 4.2.2 is added to require PM emission testing.

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-15972 dated January 19, 2005 and letter dated February 21, 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.

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Director  
Environmental Protection Division

**Table of Contents**

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

**PART 3.0 REQUIREMENTS FOR EMISSION UNITS .....2**  
3.2 Equipment Emission Caps and Operating Limits .....3

**PART 4.0 REQUIREMENTS FOR TESTING.....4**  
4.2 Specific Testing Requirements.....4  
6.1 General Record Keeping and Reporting Requirements .....5  
6.2 Specific Record Keeping and Reporting Requirements.....7

**PART 1.0 FACILITY DESCRIPTION**

**1.3 Description of Modification**

The facility has submitted an application requesting the removal of limits on the hours of operation for the emission units in the IC Plant (Emission Unit ID Nos. I10, I12, and I13), the Building 4 Rotary Dryer (Emission Unit ID No. BD2), Loading Chute (Emission Unit ID No. BD5) and increase of PM emissions for Emission Unit ID Nos. I12 from 0.40 lbs/hr to 1.0 lbs/hr. as specified in Condition No. 3.2.2. The hours of operation limits are not necessary with the lower emission rate limits established in September of 1997.

Condition No. 3.2.2 limits the hours of operation for Jaw Crusher (Emission Unit ID No. I10) to no more than 3,000 hours per year and Barmac Crushing Circuit (Emission Unit ID No. I12), Sizing and Bagging Operation (Emission Unit ID No. I13), the Rotary Dryer (Emission Unit ID No. BD2) and Loading Chute (Emission Unit ID No. BD5) to no more than 5,500 hours per year each and PM emissions from Barmac Crushing Circuit (Emission Unit ID No. I12) to 0.40 lbs/hr.

The IC Plant Jaw Crusher (Emission Unit ID No. I10), Barmac Crushing Circuit (Emission Unit ID No. I12), and Sizing and Bagging Operation (Emission Unit ID No. I13) along with the IC Plant Loadout (Emission Unit ID No. ICTL) was considered to be one project when these emission units were originally permitted in 1995. The Rotary Dryer (Emission Unit ID No. BD2) and Loading Chute (Emission Unit ID No. BD5) was considered to be one project when these emission units were originally permitted in 1996.

Condition No. 3.2.2 (limits the hours of operation) will be modified to delete the references to Emission Unit ID No. I10, I12, I13, BD2 and BD5 and allow increase of PM emissions for Barmac Crushing Circuit (Emission Unit ID No. I12 to 1.0 lbs/hr. Condition Nos. 6.1.7 and 6.2.3 will be similarly modified. The remaining particulate matter emission limits for Emission Unit ID No. I10, I12, I13, BD2 and BD5 are sufficient for PSD avoidance. Condition 4.2.2 has been added for testing of the above emission units to verify compliance with Condition 3.2.2 PM limits.

## 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.

#### 3.1.2 Modified Emission Units

Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
I10	Jaw Crusher	391-3-1-.02(2)(b) 391-3-1-.02(2)(p) 40 CFR 60 Subpart OOO 40 CFR 52 part 52.21	2.2.1, 3.2.2, 3.3.1, 3.4.1, 3.4.2, 3.5.1, 3.5.2, 4.2.1, 5.2.1, 5.2.2, 5.2.3, 5.2.9, 6.1.4, 6.1.7, 6.2.1, 6.2.2	I11	Baghouse
I12	Barmac Crushing Circuit	391-3-1-.02(2)(b) 391-3-1-.02(2)(p) 40 CFR 60 Subpart OOO 40 CFR 52 part 52.21	2.2.1, 3.2.2, 3.3.1, 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, 5.2.9, 6.1.4, 6.1.7, 6.2.1, 6.2.2	B12	Baghouse
I13	Sizing and Bagging	391-3-1-.02(2)(b) 391-3-1-.02(2)(p) 40 CFR 60 Subpart OOO 40 CFR 52 part 52.21	2.2.1, 3.2.2, 3.3.1, 3.4.1, 3.4.2, 3.5.1, 3.5.2, 4.2.1, 5.2.1, 5.2.2, 5.2.3, 5.2.9, 6.1.4, 6.1.7, 6.2.1, 6.2.2	B13	Baghouse
BD2	Rotary Dryer	391-3-1-.02(2)(b) 391-3-1-.02(2)(p) 391-3-1-.02(2)(g) 40 CFR 60 Subpart UUU 40 CFR 52 part 52.21	2.2.1, 3.2.2, 3.2.3, 3.2.4, 3.3.2, 3.4.1, 3.4.2, 3.4.3, 3.5.1, 3.5.2, 4.2.1, 5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.9, 6.1.4, 6.1.7, 6.2.1, 6.2.2	BD3	Baghouse
BD5	Loading Chute	391-3-1-.02(2)(b) 391-3-1-.02(2)(p) 40 CFR 60 Subpart OOO 40 CFR 52 part 52.21	2.2.1, 3.2.2, 3.3.1, 3.4.1, 3.4.2, 3.5.1, 3.5.2, 4.2.1, 5.2.1, 5.2.2, 5.2.3, 5.2.9, 6.1.4, 6.1.7, 6.2.1, 6.2.2	BD7	Baghouse

## Title V Permit Amendment

### 3.2 Equipment Emission Caps and Operating Limits

#### Modified Conditions

- 3.2.2 The Permittee shall not exceed any particulate matter emission rate limit or any limit on hours of operation 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	Hours of Operation Not Exceed during any 12 Consecutive Months
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	5.3 lb/hr	5600 hr
K1 & K4	Cooler	Baghouse CBH4	14	3.12 lb/hr	

**PART 4.0 REQUIREMENTS FOR TESTING**

**4.2 Specific Testing Requirements**

**New Condition**

4.2.2 The Permittee shall conduct particulate matter emission tests on the emission units listed in Table 4.2.2 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)]

<b>Source Code(s)</b>	<b>Emission Units</b>	<b>Control Device (Source Code)</b>	<b>Stack</b>
I10	Jaw Crusher	Baghouse I11	30
I12	Barmac Crushing Circuit	Baghouse B12	27
I13	Sizing and Bagging	Baghouse B13	26
BD2	Rotary Dryer	Baghouse BD3	28
BD5	Loading Chute	Baghouse BD7	29

**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. Any 12-consecutive month period that the Roller Mill (RM3) was operated more than 5,600 hours.

- 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 SO<sub>2</sub> concentration, measured in accordance with Condition 5.2.7, which is greater than 310 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 twelve 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 twelve 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. A report, prepared from the records required by Condition 6.2.3, for Roller Mill (ID No. RM3). 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. 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.
  - 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**

### **Modified Condition**

- 6.2.3 The Permittee shall, each calendar month, record and maintain records of the hours of operation of the Roller Mill (ID No. RM3). Using these records, the Permittee shall determine and record, for each calendar month, a 12-consecutive month total of hours of operation for each of the emission units referenced above. 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.  
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]