

502(b)(10) Permit for Part 70 Source

Permit Attachment No.: 3255-261-0047-V-04-8 Effective Date: July 30, 2007

Facility Name: **C-E Minerals Plant 2**
Highway 195
Andersonville, Georgia 31711, Sumter County

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

**Parent/Holding
Company:** Imerys

Facility AIRS Number: 04-13-261-00047

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 or in effect under the Act, the Permittee described above is issued a SIP Construction and Operating Permit for:

The installation and operation of a Ball Mill system (Emission Unit ID No. IC45) in Plant No. 2 to increase production capacity and a Baghouse (APCD ID No. BH47) for controlling particulate matter emissions.

This modification qualifies as a Section 502(b)(10) change to the Part 70 source in accordance with Georgia Air Quality Control Rule 391-3-1-.03(10)(b)(5).

This Permit 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 or in effect under that Act, or any other condition of this Permit and Permit No. 3255-261-0047-V-04-0. Unless modified or revoked, this Permit expires upon issuance of the next Part 70 Permit for this source.

This Permit 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-17290 dated March 1, 2007; any other applications upon which this Permit 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 is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 7 page(s), which pages are a part of this Permit, and which hereby become part of Permit No. 3255-261-0047-V-04-0.

Director
Environmental Protection Division

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PART 1.0 FACILITY DESCRIPTION

1.3 Process Description of Modification

C-E Minerals is proposing to add a Ball Mill system to the Plant 2 investment casting area. The new ball mill system will be designated Emission Unit ID No. IC45. The particulate matter (PM) emissions from the new ball mill system will be controlled by a baghouse (APCD ID No.BH47) that will have a maximum process airflow rate of 16,248 dscf/min.

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**3.1.1 Additional Emission Units**

Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
IC45	Ball Mill System	391-3-1-.02(2)(b) 391-3-1-.02(2)(p) 40 CFR 60 Subpart OOO	3.3.1, 3.4.1, 5.2.1, 5.2.16, 5.2.17, 6.1.18	BH47	Baghouse

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

PART 5.0 REQUIREMENTS FOR MONITORING (Related to Data Collection)**5.2 Specific Monitoring Requirements****Revised Condition**

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*
Roller Mill RM3	RMB3	Baghouse	Pressure drop	Weekly
Roller Mill RM2	RMB2	Baghouse	Pressure drop	Weekly
Cage Mill CM2	CMB2	Baghouse	Pressure drop	Weekly
Rotary Dryer BD2	BD3	Baghouse	Pressure drop	Weekly
Loading Chute BD5 & Loading BD8	BD7	Baghouse	Pressure drop	Weekly
Barmac BC13	BH13	Baghouse	Pressure drop	Weekly
Hopper Loadout HL2	BL2	Baghouse	Pressure drop	Weekly
Hopper Loadout HL3	BL3	Baghouse	Pressure drop	Weekly
Railcar Loadout FG21	BH21	Baghouse	Pressure drop	Weekly
Casting System IC43	BH43	Baghouse	Pressure drop	Weekly
Barmac IC40	BH40	Baghouse	Pressure drop	Weekly
Sizing & Bagging I13	B13	Baghouse	Pressure drop	Weekly
Barmac Crusher I12	B12	Baghouse	Pressure drop	Weekly
Jaw Crusher I10	I11	Baghouse	Pressure drop	Weekly
Ball Mill System	IC45	Baghouse	Pressure drop	Weekly
Cooler 1K and 4K	CBH4	Baghouse	Pressure drop	Weekly
Ball Mill System IC45	BH47	Baghouse	Pressure drop	Weekly
Rotary Kiln 1K	1KZ	Scrubber	Scrubbing liquid flow rate	Continuous
			Pressure drop	Continuous
Rotary Kiln 2K	2KZ	Scrubber	Scrubbing liquid flow rate	Continuous
			Pressure drop	Continuous
Rotary Kiln 3K	3KZ	Scrubber	Scrubbing liquid flow rate	Continuous
			Pressure drop	Continuous
Rotary Kiln 4K	4KZ	Scrubber	Scrubbing liquid flow rate	Continuous
			Pressure drop	Continuous
Rotary Kiln 5K	5KZ	Scrubber	Scrubbing liquid flow rate	Continuous
			Pressure drop	Continuous
Cage Mill CM2	CMS2	Scrubber	Scrubbing liquid flow rate	Continuous
			Pressure drop	Continuous

* Weekly means each week or portion of each week of operation of the associated emission unit that is required to utilize baghouse controls.

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5.2.16 The Permittee shall perform a check of visible emissions from the Ball Mill Baghouse (APCD ID No. BH47). 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, the Permittee shall perform an inspection as specified in paragraph e of this condition.

[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 the baghouse is 5 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.
- c. For each source that requires action in accordance with condition 5.2.2 a or b, 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.
- e. For each operational day when atmospheric conditions or sun position prevent a daily visible emissions check as specified in paragraph d of this condition, the Permittee shall perform an operation and maintenance check as specified by Condition No. 5.2.17.

- 5.2.17 Within 60 days of the issuance of this permit, the Permittee shall develop and implement a Preventive Maintenance Program for the baghouse specified in condition 5.2.1 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****Revised Condition**

6.1.8 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 period of 12 consecutive months during which the total emissions of any single HAP from the emission units listed in Table 3.1.1 (Emission Unit ID Nos. BD09, B2, BC14, and A1M) are equal to or exceed 10 tons (or any lesser quantity for a single hazardous air pollutant that the U.S. EPA may establish by rule);
- ii. Any period of 12 consecutive months during which the combined emissions of all HAP compounds from the emission units listed in Table 3.1.1 (Emission Unit ID Nos. BD09, B2, BC14, and A1M) are equal to or exceed 25 tons;
- iii. Any period of 12 consecutive months during which the total VOC emissions from the silane process associated with emission units listed in table 3.1.1 are equal to or exceed 39 tons.
- iv. Any use of fuel other than propane, natural gas, or No. 2 fuel oil in Rotary Dryer BD09 (Emission Unit ID No. BD09).
- 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)
- i. Any two consecutive required daily determinations of visible emissions requiring action by Condition 5.2.13 a. or b. from the same source.

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- ii. Any two consecutive required daily determinations of visible emissions requiring action by Condition 5.2.16 a. or b. from the same source.

- 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 6.2.12 and 6.2.14 for the VOC and HAPs emissions. The report shall consist of six 12-consecutive month totals (a total for each month in the semiannual reporting period) of the VOC and HAPs emissions. A 12-consecutive month total shall be defined as the sum of the VOC and HAPs emissions for a month plus the total VOC and HAPs emissions for the previous 11 consecutive months.