

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

**Permit Attachment No.:** 1455-289-0001-V-02-1      **Effective Date:** December 28, 2007

**Facility Name:**            **J. M. Huber Corporation – Macon Plant**  
822 Huber Road  
Macon, Georgia 31217 (Twiggs County)

**Mailing Address:**        822 Huber Road  
Macon, Georgia 31217

**Parent/Holding Company:**      J. M. Huber Corporation

**Facility AIRS Number:**    04-13-289 00001

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:

J. M. Huber plans to increase their usage of chemically treated kaolin production while leaving the total facility-wide production of processed kaolin unchanged.

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. 1455-289-0001-V-02-0. 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-17485 dated July 2, 2007; any other applications upon which this Permit or Permit No. 1455-289-0001-V-02-0 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 4 page(s).

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Director  
Environmental Protection Division

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**PART 1.0 FACILITY DESCRIPTION**

**1.3 Process Description of Modification**

J. M. Huber plans to increase their usage of chemically treated kaolin production while leaving the total facility-wide production of processed kaolin unchanged.

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**PART 3.0 REQUIREMENTS FOR EMISSION UNITS**

**3.1.1 Modified Emission Units**

Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
S-730	#2 Spray Dryer	40 CFR 52.21 Avoidance 40 CFR 63 NESHAP Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(g) 40 CFR 64	2.1.1, 3.2.1, 2.1.2, 3.4.1, 3.4.2, 3.4.4, 5.2.11, 5.2.13, 5.2.2, 5.2.3, 5.2.4, 5.2.9, 5.2.10, 6.1.7, 6.2.2, 6.2.3, 6.2.4, 6.2.6, 6.2.8, 6.2.9, <b>6.2.12, 6.2.13</b>	S-735 S-736	Baghouse Scrubber
S-687	#4 Spray Dryer	NSPS UUU 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(g) 40 CFR 64	3.3.2, 3.4.1, 3.4.2, 3.4.4 5.2.11, 5.2.12, 5.2.1, 5.2.4, 5.2.9, 5.2.10, 6.1.7, 6.2.2, 6.2.3, 6.2.4, 6.2.6, <b>6.2.12, 6.2.13</b>	S-689	Baghouse
S-760	Calcliner #1	40 CFR 52.21 Avoidance 40 CFR 63 NESHAP Avoidance 391-3-1-.02(2)(p)1 391-3-1-.02(2)(b) 391-3-1-.02(2)(g) 40 CFR 64	3.2.1, 2.1.2, 3.4.1, 3.4.2, 3.4.4, 5.2.11, 5.2.13, 5.2.2, 5.2.3, 5.2.4, 6.1.7, 6.2.8, 6.2.9, <b>6.2.12, 6.2.13</b>	S-764 S-767	Baghouse

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

**PART 4.0 REQUIREMENTS FOR TESTING**

4.1.4 Performance and compliance tests shall be conducted and data reduced in accordance with applicable procedures and methods specified in the **Division's Procedures for Testing and Monitoring Sources of Air Pollutants**. The methods for the determination of compliance with emission limits listed under Sections 3.2, 3.3, 3.4 and 3.5 of those procedures which pertain to the emission units listed in Section 3.1 of this Permit are as follows:

**a. Method 25: Volatile Organic Compounds (flame ionization detection)**

Minor changes in methodology may be specified or approved by the Director or his designee when necessitated by process variables, changes in facility design, or improvement or corrections which, in his opinion, render those methods or procedures, or portions thereof, more reliable.

[391-3-1-.02(3)(a)]

**PART 6.0 OTHER RECORD KEEPING AND REPORTING REQUIREMENTS****6.2 Specific Record Keeping and Reporting Requirements**

- 6.2.12 The Permittee shall maintain monthly usage records of each of the VOC-containing materials utilized at this facility. The records shall include the total weight of each of the materials used, and the VOC content (expressed as a weight percentage) of the material. All calculations used to determine the material usage and the VOC content should be kept as part of the monthly records. These records shall be kept available for inspection or submittal for five (5) years from the date of record.
- 6.2.13 The Permittee shall use the records required in Condition 6.2.12 and the equations in this condition to calculate combined total monthly VOC emissions from the entire facility. For the purpose of this condition, all the VOC compounds contained each of the VOC-containing materials utilized during the month are assumed emitted into the atmosphere (100% release). All demonstration calculations shall be kept as part of the records required in Condition 6.2.12. The Permittee shall use the monthly VOC emission rate to calculate the combined 12-month rolling total of VOC emissions from the entire facility for each calendar month. The Permittee shall notify the Division in writing if the combined total monthly VOC emissions from the entire facility exceed 20.8 tons during any calendar month. This notification shall be postmarked by the fifteenth day of the following month and shall include an explanation of how the Permittee intends to maintain compliance with Prevention of Significant Air Quality Deterioration Review.

$$E = \frac{\sum_{i=1}^n [(W_i) \times (C_i)]}{2000}$$

Where:

$E$  = Total VOC emissions during the month involved, ton;

$i$  = Identifier for each VOC-containing chemicals/material used during the month;

$n$  = 1, 2, 3, . . . . ., i.e., total number of the VOC-containing chemicals/materials used during the month;

$\sum$  = Sum of the items inside the square brackets;

$W_i$  = Total usage of the  $i^{\text{th}}$  VOC-containing chemicals/material during the month, pound;

$C_i$  = VOC content of the  $i^{\text{th}}$  VOC-containing chemicals/material used during the month, mass ratio or weight percentage divided by 100;

2000 = Conversion factor from pound to ton.

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