

Mr. Daniel A. Swartz  
The Colonial Brick Company  
P.O. Box 365  
Cayuga, IN 47928

Re: **165-10605**  
First Administrative Amendment to  
**Part 70 T165-7633-00002**

Dear Mr. Swartz:

The Colonial Brick Company was issued a Title V permit on January 15, 1999, for a stationary clay processing and brick manufacturing plant. A letter requesting a minor change of equipment nomenclature was received on February 5, 1999. Since there are no changes in permit conditions or increase in emissions, pursuant to the provisions of 2-7-11 the permit is hereby administratively amended as follows:

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)]  
[326 IAC 2-7-5(15)]

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The source consists of the following permitted emission units and pollution control devices:

- (a) One brick firing operation, consisting of the following equipment:
- (1) Six (6) small Periodic Brick Kilns each with a rated heat input of 4 mmBtu per hour, burning a 57% coal and 43% sawdust mixture, identified as K-3 **exhausting through stack S-2, K-5 and K-6 exhausting through stack S-3, K-6, K-7 exhausting through stack S-4, and K-9 and K-10 exhausting through stack S-5**, each with a maximum capacity of 460.87 pounds of brick per hour, ~~and exhausting through stacks S-2, S-5, S-6, S-7, S-9 and S-10, respectively~~ (K-6 and K-9 were damaged in a flood and were repaired in 1998),
  - (2) Five (5) large Periodic Brick Kilns each with a rated heat input of 5 mmBtu per hour, burning a 57% coal and 43% sawdust mixture, identified as K-1 **and K-2 exhausting through stack S-1, K-4 exhausting through stack S-2, K-8 exhausting through stack S-4, and K-11 exhausting through stack S-6**, each with a maximum capacity of 625.5 pounds of brick per hour, ~~and exhausting through stacks S-1, S-1, S-2, S-4 and S-6, respectively~~ (K-4 was damaged in a flood and was repaired in 1998), and

The corresponding information in section D.1 of the permit has been amended to reflect the above changes. Attached is the amended page of the permit. Replace the page in the original permit with the attached amended page.

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this modification and the following revised permit page to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Autumn M. Marker, at (800) 451-6027, press 0 and ask for Autumn Marker or extension (3-0242), or dial (317) 233-0242.

Sincerely,

Paul Dubenetzky, Chief  
Permits Branch  
Office of Air Management

Attachments

AMM

cc: File - Vermillion County  
U.S. EPA, Region V  
Vermillion County Health Department  
Air Compliance Section Inspector - Eric Courtright  
Compliance Data Section - Mindy Jones  
Administrative and Development - Janet Mobley  
Technical Support and Modeling - Nancy Landau

**PART 70 OPERATING PERMIT  
and ENHANCED NEW SOURCE REVIEW  
OFFICE OF AIR MANAGEMENT**

**Colonial Brick Corporation  
817 West Park St.,  
Cayuga, Indiana 47928**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 and 326 IAC 2-1-3.2 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T165-7633-00002	
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Management	Issuance Date: January 15, 1999

First Administrative Amendment: 165-10605	Pages Affected: 5 and 30
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date:

## SECTION A

## SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

The Permittee owns and operates a stationary clay processing and brick manufacturing plant.

Responsible Official: Daniel A. Swartz  
Source Address: 817 West Park Street, Cayuga, Indiana, 47928  
Mailing Address: P.O. Box 365, Cayuga, Indiana, 47928  
SIC Code: 3251  
County Location: Vermillion  
County Status: Attainment for all criteria pollutants  
Source Status: Part 70 Permit Program  
Major Source, under PSD

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

The source consists of the following permitted emission units and pollution control devices:

- (c) One brick firing operation, consisting of the following equipment:
- (1) Six (6) small Periodic Brick Kilns each with a rated heat input of 4 mmBtu per hour, burning a 57% coal and 43% sawdust mixture, identified as K-3 exhausting through stack S-2, K-5 and K-6 exhausting through stack S-3, K-7 exhausting through stack S-4, and K-9 and K-10 exhausting through stack S-5, each with a maximum capacity of 460.87 pounds of brick per hour (K-6 and K-9 were damaged in a flood and were repaired in 1998),
  - (2) Five (5) large Periodic Brick Kilns each with a rated heat input of 5 mmBtu per hour, burning a 57% coal and 43% sawdust mixture, identified as K-1 and K-2 exhausting through stack S-1, K-4 exhausting through stack S-2, K-8 exhausting through stack S-4, and K-11 exhausting through stack S-6, each with a maximum capacity of 625.5 pounds of brick per hour (K-4 was damaged in a flood and was repaired in 1998), and
- (b) One (1) grinder operation, operating within the grinder building, which has no exhaust, consisting of the following equipment:
- (1) One (1) Cayuga Brick Clay Grinder, identified as UV-9, with a maximum capacity of 12.8 tons of raw clay per hour,
  - (2) One (1) Maco Apron conveyer, with a maximum capacity of 15 tons of raw clay per hour, operating within the grinder building, which has no exhaust,
  - (3) One (1) shop built apron conveyor, with a maximum capacity of 15 tons of raw clay per hour,
  - (4) One (1) McClanahan Single Roll 24" x 36" crusher, with a maximum capacity of 20 tons of raw clay per hour,

## SECTION D.1

## FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)] One brick firing operation, consisting of the following equipment:

- (1) Six (6) small Periodic Brick Kilns each with a rated heat input of 4 mmBtu per hour, burning a 57% coal and 43% sawdust mixture, identified as K-3 exhausting through stack S-2, K-5 and K-6 exhausting through stack S-3, K-7 exhausting through stack S-4, and K-9 and K-10 exhausting through stack S-5, each with a maximum capacity of 460.87 pounds of brick per hour (K-6 and K-9 were damaged in a flood and were repaired in 1998).
- (2) Five (5) large Periodic Brick Kilns each with a rated heat input of 5 mmBtu per hour, burning a 57% coal and 43% sawdust mixture, identified as K-1 and K-2 exhausting through stack S-1, K-4 exhausting through stack S-2, K-8 exhausting through stack S-4, and K-11 exhausting through stack S-6, each with a maximum capacity of 625.5 pounds of brick per hour (K-4 was damaged in a flood and was repaired in 1998).

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### D.1.1 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1-1]

Pursuant to 326 IAC 7-1.1-1 (Sulfur Dioxide Emissions Limitations):

- (a) The SO<sub>2</sub> emissions from the six (6) small periodic brick kilns (ID K-3, K-5, K-6, K-7, K-9 and K-10) and the five (5) large periodic brick kilns (ID K-1, K-2, K-4, K-8 and K-11) shall not exceed six (6) pounds per mmBtu of coal combustion.
- (b) The sulfur content of the coal delivered to the six (6) small periodic brick kilns (ID K-3, K-5, K-6, K-7, K-9 and K-10) and the five (5) large periodic brick kilns (ID K-1, K-2, K-4, K-8 and K-11) shall not exceed 4.12% by weight, providing the fuel mixture remains 57% coal and 43% sawdust.

#### D.1.2 Particulate Emission Limitations [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Process Operations):

- (a) The allowable PM emission rate from each of the six (6) small periodic brick kilns (ID K-3, K-5, K-6, K-7, K-9 and K-10) shall not exceed 1.53 pounds per hour when each operating at a process weight rate of 460.87 pounds per hour.
- (b) The allowable PM emission rate from each of the five (5) large periodic brick kilns (ID K-1, K-2, K-4, K-8 and K-11) shall not exceed 1.88 pounds per hour when each operating at a process weight rate of 625.5 pounds per hour.

The pound per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

#### D.1.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.