

Mr. Michael Schall
Dalton Corporation Kendallville Manufacturing Facility
200 West Ohio Street
Kendallville, IN 46755

Re: Exempt Construction and Operation Status,
113-17109-00004

Dear Mr. Schall:

The application from Dalton Corporation Kendallville Manufacturing Facility, received on January 10, 2003, has been reviewed. The application is to install an Automatic Deburring Machine. Dalton currently utilizes a hydraulic press to perform the final cleaning of the castings for its customers. The proposed Automatic Deburring Machine will be used to finish the metal casting after processing through the press. The Automatic Deburring Machine will be used to remove a small piece of metal on the castings in order to create a better finish as requested by a customer. Based on the data submitted and the provisions of 326 IAC 2-7-1(21)(B) and 326 IAC 2-1.1-3(e)(1)(A), it has been determined that the Automatic Deburring Machine, to be located at 200 West Ohio Street Kendallville, Indiana, is an Insignificant Activity and is classified as exempt from air pollution permit requirements:

- (a) One (1) Automatic Deburring Machine with a maximum capacity of 5.5 tons per hour of metal, controlled by a baghouse identified as baghouse G to control PM and PM10 and exhausting through Stack I. Baghouse G is rated at 98% capture efficiency and 95% control efficiency.

The following conditions shall be applicable:

326 IAC 5-1-2 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations) except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of 15 minutes (60 readings) in a 6-hour period as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.

326 IAC 6-3 (Process Operations)

The particulate matter (PM) from the Automatic Deburring Machine units shall be limited by the following:

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour
and
P = process weight rate in tons per hour

This existing source has submitted their Part 70 application T113-6491-00004 on August 30, 1996. The equipment being reviewed under this permit shall be incorporated in the submitted Part 70 application.

Any change or modification, which may cause an increase in net emissions of PM or PM10 from the equipment may need an approval from the Office of Air Quality (OAQ).

Sincerely,

Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

GAS

cc: File - Noble County
Noble County Health Department
Air Compliance – Dick Sekula
Northern Regional Office
Permit Tracking
Technical Support and Modeling - Michele Boner
Compliance Data Section - Karen Nowak
TV Reviewer – T 113-6491-00004

Maximum throughput (metal) = 5.5 tons/hr
PM emission factor = 0.01 lb/ton metal AP-42 (Casting Finishing)
PM10 emission factor = 0.0045 lb/ton metal AP-42 (Casting Finishing)

PTE before control

Emissions (lb/hr) = Throughput (ton/hr) * Emission Factor (lb/ton metal)
PM Emissions = 0.055 lb/hr
PM10 Emissions = 0.02475 lb/hr

PM Emissions (lb/day) = Throughput (ton/hr) * Emission Factor (lb/ton metal) * 24(hrs/day)
PM Emissions = 1.32 lb/day
PM10 Emissions = 0.594 lb/day

Emissions (tpy) = Throughput (ton/hr) * Emission Factor (lb/ton metal) * 8760 (hr/yr) * (1/2000) (ton/lb)
PM Emissions = 0.2409 tpy
PM10 Emissions = 0.1084 tpy

PTE after control

Emissions (tpy) = Throughput (ton/hr) * Emission Factor (lb/ton metal) * (1-control * capture) * 8760 (hr/yr) * (1/2000) (ton/lb)

Baghouse Control Efficiency = 98%
Baghouse Capture Efficiency = 95%

PM Emissions = 0.0166 tpy
PM10 Emissions = 0.0075 tpy