

DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION  
ACTIVITY REPORT: Scheduled Inspection

B732126543

FACILITY: DURAMIC SEGMENTS & ABRASIVE PRODUCTS, LLC		SRN / ID: B7321
LOCATION: 24135 GIBSON DRIVE, WARREN		DISTRICT: Southeast Michigan
CITY: WARREN		COUNTY: MACOMB
CONTACT: Paul Westerfield , Plant Manager		ACTIVITY DATE: 08/21/2014
STAFF: Robert Elmouchi	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Scheduled inspection.		
RESOLVED COMPLAINTS:		

On August 21, 2014, I conducted an unannounced scheduled inspection of Duramic Segments & Abrasive Products (Duramic), located at 24135 Gibson Drive, Warren, Michigan. This facility is uniquely identified by the Air Quality Division with the State Registration Number (SRN) of **B7321**. The purpose of this inspection was to determine the facility's compliance with the requirements of the Federal Clean Air Act; Article II, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451); and the administrative rules.

I entered the facility, met with Mr. Paul R. Westerfield, Plant Manager and explained the purpose of the inspection. Duramic manufactures grinding wheels and grinding segments. Duramic's process is described in activity report CA\_B732107214. The process has remained the same since the previous inspection conducted on June 2, 2011.

I began the inspection by answering Mr. Westerfield's questions regarding R208a registration. I explained that R208a registration is required when a facility had the potential to emit air contaminants at or above the thresholds for a Title V source. Per the inspection conducted in 2011, it appeared that Duramic is a true minor source therefore R208a registration did not appear to be required. Furthermore, the process of heating the frit (a mixture of silica and fluxes that is fused at high temperature to make glass) to fuse abrasive particles appears to be exempt from the R 336.1201 requirement to obtain an approved permit to install per R 336.1282(a)(iii). R 336.1282(a)(i) and R 336.1282(a)(ii) may also be appropriate exemptions.

Mr. Westerfield escorted me during the inspection of the facility. The tunnel kiln I observed during the inspection conducted in 2011 is still on site. The kiln is natural gas fired but has not been connected to the utility and therefore is not operational. The nameplate on the kiln appears to indicate that the maximum Btu heat input is 4.9 million Btu per hour. Therefore, if operated, this process appears to be exempt from R201 per R 282(a)(iii). I did advise Mr. Westerfield that Duramic must evaluate the applicability of the R 336.1278 exclusion from exemptions before operating the kiln because the higher throughput of the kiln, and associated increase in emissions, might exclude the facility from using the R 282(a)(iii) exemption.

Only three electric fired kilns were operational during this inspection. These kilns are located in the north shop and are identified as 14, 15 and 16. Each kiln has an A and B side. In the south shop, kilns 5, 6, 7, 8, 9, 10 and 11 were not capable of operating. Only kiln 12 is capable of operating but is not used because of lower efficiency.

The electric kilns have a four to five day cycle. The cycle consists of three steps; load, smoke, and temp. The kilns are loaded with 5,100 to 5,200 pounds of product per batch.

I observed the mixing room where frit and other materials are mixed. The room has an exhaust system which is controlled by a cyclone and baghouse, which emit to the general in-plant environment. This process appears to be exempt from R201 per R 336.1285(l)(vi)(C).

**CONCLUSION**

Duramic Segments & Abrasive Products appears to be a minor source in compliance with the Michigan Air Pollution Control rules.

NAME

*Robert Elmouchi*

DATE

9/5/14

SUPERVISOR

CTE