

DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION  
ACTIVITY REPORT: Self Initiated Inspection

*FY2016 Insp*

N700234758

FACILITY: Owens Corning - Automotive Market Development	SRN / ID: N7002
LOCATION: 46500 Humboldt Drive, NOVI	DISTRICT: Southeast Michigan
CITY: NOVI	COUNTY: OAKLAND
CONTACT:	ACTIVITY DATE: 05/26/2016
STAFF: Iranna Konanahalli <i>JK</i>	COMPLIANCE STATUS: Compliance
SUBJECT: FY 2016 SM CMS level 2 self-initiated inspection of Owens Corning Composite Materials, Inc.	SOURCE CLASS: SM OPT OUT
RESOLVED COMPLAINTS:	

*N7002 - SAR - 2016 05 26*

**Owens Corning Composite Materials, Inc. (N7002)**  
**OC Automotive Division**  
**46500 Humboldt Drive**  
**Novi, Michigan 48377-2434**

**PTI ROP Opt-out PTI No. 203-01A dated April 24, 2002 (FG-FACILITY, 2.1a: 9 tpy Single HAP and 2.1b: 22.5 tpy Aggregate HAPs).**

**PTI Mod: PTI No. 203-01 (R&D) → PTI No. 203-01A (change from R&D to Mfg.)**

**PTI Voids: PTI No. 203-01 (4/24/2002)**

On October May 26, 2016, I conducted a **SM CMS** level 2 self-initiated inspection of Owens Corning Composite Materials, Inc. ("the company" or "Owens Corning" or "OC"), OC Automotive Division, located at 46500 Humboldt Drive, Novi, Michigan 48377-2434. The inspection was conducted to determine compliance with the Federal Clean Air Act; Article II, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451; Michigan Department of Environmental Quality, Air Quality Division (MDEQ-AQD) rules; and PTI No. 203-01A (ROP Synthetic Minor).

During the FY 2016 inspection Mr. George "Leroy" Richardson (Phone: 248-668-7536; Mobile: 248-961-1643; E-mail: [George.Richardson@OwensCorning.com](mailto:George.Richardson@OwensCorning.com)), Machine Technician and Field Services, and Mr. Evan Tracey (Cell: 248-668-7559; [Evan.Tracey@OwensCorning.com](mailto:Evan.Tracey@OwensCorning.com)), Production Supervisor, assisted me. Mr. Richardson, who is with Belcan Corporation, an engineering consulting and staffing firm, Cincinnati, Ohio, replaced LaRue Burrell.

LaRue Burrell (Phone: 248-668-7624; Mobile: 248-388-0995; E-mail: [LaRue.Burrell@ownenscorning.com](mailto:LaRue.Burrell@ownenscorning.com)), Facility Technician, separated, about December 2014, as CBRE contract was terminated. Mr. Steve Gilson (Phone: 248-379-2817 – cell; E-mail: [steve.gilson@cbre.com](mailto:steve.gilson@cbre.com)), Building Engineer, Technical Services, CB Richard Ellis, Inc. (CBRE), 2000 Town Center, Suite 500, Southfield, MI 48075, also separated. Mr. Burrell supervised Mr. Gilson.

Mr. James A. Singer (Phone: 248-668-7626; Mobile: 248-388-1084), Lead Maintenance Engineer with BTE, also separated as CBRE contract terminated about December 2014. Building Technology Engineers (BTE), BTE of North America, LLC, are facilities management contractors.

About 2008, CB Richard Ellis, Inc. (CBRE), a bought BTE.

Mr. Robert D. Colvin (Phone: 502-261-9064-ext. 227), EHS Leader for Owens Corning, separated from Owens in 2009.

Owens Corning is trying to sell Novi facility for over a decade. As staffing level now (FY 2016) is reduced to less than 10, OC is aggressively trying to sell this Novi building.

Owens Corning is primarily a Research and Development (R&D) facility with light production of automobile exhaust insulation products. Owens Corning decided use Silentex Process for production and hence obtained the ROP opt-out (ROP Synthetic Minor) permit (PTI No. 203-01A) with 9.0 (single) /22.5 (aggregate) HAP limits; Silentex Process emits styrene although it has not been used recently. However, Silentex production process is located in Louisville, Kentucky. Owens Corning operated Louisville facility from 2010 thru 2012. About 2012, OC sold Louisville facility. Once again, Silentex Process at Novi facility is used only for R&D and light industrial production.

On November 13, 2014, LaRue stated that OC did NOT store and use styrene anymore.

Pursuant Rule 336.1283, the following R&D processes exist (Silentex – light industrial):

1. Silentex Process: It involves filling polyolefin plastic bags with glass fibers for sound insulation of mufflers; occasionally mufflers are directly filled with glass fibers. A cyclone followed by a filter pad must be used to control emissions. Production Silentex Process is located at Louisville, Kentucky, which was recently (about 2012) sold. However light industrial production is done at Novi. No stack testing is done for particulate emissions rate (PTI No. 203-01A, SC EU-SILENTEX, 1.1a: 0.03 pounds per 1,000 pounds of exhaust gases and 1.1b: 0.1 pounds per hour). 3 pleated filter systems are present to control particulate emissions (PTI No. 203-01A, SC EU-SILENTEX, 1.4: cyclone followed in series by the filter pad); no cyclone is present. No visible emissions from Silentex process (PTI No. 203-01A, SC EU-SILENTEX, 1.2: max. 10 percent opacity). Only emissions are particulate and no solvents (PTI No. 203-01A, FG-FACILITY, 2.1a: 9 tpy Single HAP and 2.1b: 22.5 tpy Aggregate HAPs). During the FY 2016 inspection, Silentex Process was idled for the day break. The Silentex Process is operated five days per week.
2. One Sheet Molding Compound (SMC) Research Line: Mixers for styrene and glass fibers. This is styrene, CAA HAP, emissions source. The process was removed in 2010. The process is moved to Grandville, Ohio.
3. One Sheet Molding Compound Laboratory. The process was removed in 2010. The process is moved to Grandville, Ohio.
4. One structured reaction injection molding research unit: Iso and Poly are mixed and molded. The unit was not operated for 8 years. The process was removed in 2010. The process is moved to Grandville, Ohio.
5. One wire coating research process: Extruder glass fibers are coated with a composite material; no VOC. Ran once in CY2007. The process was removed in 2010. The

process is moved to Grandville, Ohio.

6. One resin transfer molding research unit. The process was removed in 2007. The process is moved to Grandville, Ohio.
7. One natural gas fired curing oven: 1 million BTU per hour heat input. The oven is still present. But the oven is locked out since 2012. The oven is used as a storage space.
8. One direct fill machine (fiberglass into mufflers) was installed about February 2016. The machine is used for R & D and training purposes. There is no exhaust to outside ambient air. The machine is exempt from Rule 336.1201 (Permit-to-Install) pursuant to Rule 336.1285(I).

Silentex process, if production ran, was expected to use 800 pounds of glass fiber per hour. It would be styrene emissions source. Hence, Owens Corning obtained the opt-out permit (PTI No. 203-01A). During the FY 2016 inspection Silentex process is running on light production mode (idled for the day).

#### Miscellaneous

No parts cleaner, emergency generator, paint spray booth.

#### Conclusion

Owens Corning at Novi is primarily a R&D facility, which may be sold as soon as a buyer is found. Now light production is done (FY2016). Styrene is neither stored nor used at Novi.

NAME A. K. Hannahall DATE 06/01/2016 SUPERVISOR CJE