

U-63-14-11864

FY 2019 Insp -

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

U63141186447398

FACILITY: Firebolt Group, Inc.		SRN / ID: U631411864
LOCATION: 28059 Center Oaks Court, Wixom		DISTRICT: Southeast Michigan
CITY: Wixom		COUNTY: OAKLAND
CONTACT:		ACTIVITY DATE: 12/17/2018
STAFF: Iranna Konanahalli	COMPLIANCE STATUS: Compliance	SOURCE CLASS:
SUBJECT: FY 2019 inspection of Firebolt Group, Inc. ("Firebolt")		
RESOLVED COMPLAINTS:		

**Firebolt Group, Inc. (U-63-14-11864)**  
**28059 Center Oaks Court**  
**Wixom, Michigan 48393-3347**

**www.Firebolt-Group.com**

**Name change (USRN reassign): TecArt Industries, Inc. (U-63-14-11864) → Firebolt Group, Inc. (U-63-14-11864) due to merger of Estrakon and TecArt. About April 2014, Diversified Machine, Inc. (DMI) moved out due to an acquisition and consolidation by Chassix. About July 2014, Firebolt Group, Inc. moved in upon the merger.**

**Permit-to-Install: Rules 285 exempt process equipment.**

On December 17, 2018, I conducted a level 2 self-initiated **FY 2019 inspection** of Firebolt Group, Inc. ("Firebolt"), located at 28059 Center Oaks Court, Wixom, Michigan 48393-3347. 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; and Michigan Department of Environmental Quality, Air Quality Division (MDEQ -AQD) administrative rules.

During the FY 2019 inspection, Ms. Kimberly Perrigan (via phone) (Phone: 248-624-8880-ext. 100; Fax: 248-624-8066; Cell: NA; E-mail: Kim.Perrigan@Firebolt-Group.com), CFO, and Mr. Brian Sciackitano (Phone: 248-624-8880-ext. 104; Fax: 248-624-8066; Cell: 219-313-3533; E-mail: Brian.Sciackitano@Firebolt-Group.com), Chief Operating Officer, assisted me.

Mr. Tony Lobaito (Phone: 248-624-8880-ext. 401; Fax: 248-624-8066; Cell: NA; E-mail: Tony.Lobaito@Firebolt-Group.com), Plant Manager, was not present.

About April 2014, Diversified Machine, Inc. ("DMI") moved out due to the acquisition by Chassix and Firebolt moved in due the merger about July 2014. This information is obtained from Mr. Steve Kozak (Phone: 248-948-9000; Cell: 248-505-1676) of Signature Assoc. About April 2013, Platinum Equity, LLC, merged Wixom based Diversified Machine, Inc. and Troy-based SMW Automotive, Inc. as Chassix, Inc., which was born leveraged. At Southfield, Platinum Equity consolidated casting and machining businesses. DMI and SMW had combined revenue of 1.2 billion dollars (2013). Platinum acquired SMW about January 2012.

Estrakon, a display company of Ann Arbor, purchased TecArt Industries of Wixom and formed Firebolt Group. Upon the merger (about July 2014), Firebolt moved into this Wixom building. Firebolt is a manufacturer of point-of-purchase signs, LED and digital displays.

Cutting and grinding machines, silk-screening, digital printing, etc., equipment / processes are installed to manufacture displays and signs. Large bag filters are installed to control particulate matter. Firebolt uses acetone (almost eliminated based upon my advice of fire and explosion hazard), IPA, and other solvents for cleaning purposes. All filtered exhaust is released to in-plant environment. The machines are exempt from Rule 336.1201 (Permit-to-Install) pursuant to Rule 336.1285(l).

#### **Four saws with large bags**

Four saws, which cut cardboard, aluminum, plastic, acrylic, polycarbonate, etc., sheets, are installed and operating. Each saw is equipped with a portable capture device that captures particulate emissions using vacuum and ducts to a filter system. All filtered exhaust is released to in-plant environment. The machines are exempt from Rule 336.1201 (Permit-to-Install) pursuant to Rule 336.1285(2)(l). The saws are hardly used due to substantial volume reduction of aluminum profile products.

#### **Five CNC routers**

Five (5) Multicam 3000 series CNC routers are installed and operating. Each CNC machine is equipped with a portable capture device that captures particulate emissions using vacuum and ducts to a 2-bag filter system. Each capture device is associated with a two-bag (30 gallons per bag, 60 gallons total, each bag: 2 feet diameter & 4 feet height) filter system. The captured particulates from each capture device drop into a two-bag hopper that has 30-gallon (each bag) plastic bag. Filtered exhaust air is released to in-plant environment. The machines are exempt from Rule 336.1201 (Permit-to-Install) pursuant to Rule 336.1285(2)(l). However, heat from the machines is vented to outside ambient air.

Filter System: Grizzly Industrial Model G 1030Z2P Polar Bear Series, 3HP Dust Collector.

Mostly acrylic dust is collected and recycled.

#### **Silk-screen and digital printing machines**

One screen printing machine is present. The machine is now practically idle because two replacement digital printing machines handle all printing needs. The silk-screen machine may be replaced in future. Silk-screening cannot match quality of digital printing. Some ink smell was detected in the printing area.

The silk-screen machine is exempt from Rule 336.1201 (Permit-to-Install) pursuant to Rule 336.287(2)(e).

#### **Solvents**

Small quantities of miscellaneous solvents such as acetone, IPA (isopropyl alcohol) are used (about 2 gallons per month). The solvents are used for cleaning purposes. There is no solvent degreaser (e.g. Safety-Kleen). Based upon my advice of fire and explosion hazards, Firebolt almost eliminated use of acetone. Furthermore, acetone is stored in safe area.

Acetone (CAS # 67-64-1, C<sub>3</sub>H<sub>6</sub>O = CH<sub>3</sub>-CO-CH<sub>3</sub>) is not VOC pursuant to 336.1122 (V-definitions) (f)(xiii). However, acetone has high potential for fire and explosion due to low

boiling point (BP = 133 °F), low flash point (FP = - 4 (negative) °F) and wide flammability range (flammability range = 2.5 %v (LEL) – 12.8%v (UEL)). Per Rule 336.1122 Definitions (V). (f) (xiii), Acetone is NOT "Volatile organic compound (VOC)"

### **Diversified Machine, Inc. ("DMI")**

Previously (before April 2014), DMI occupied this building. DMI is manufacturing company specializing in powertrain components and safety critical auto-frames. About April 2013, Platinum Equity, LLC, merged Diversified Machine, Inc. and SMW Automotive, Inc. into Chassix, Inc., which is involved in casting and machining. DMI owned ten (10) manufacturing facilities; Chassix consolidated all operations. Chassix headquartered in Southfield operates a plant in Warren: SMW Automotive, 23300 Blackstone Ave., Warren MI 48089 (U50-12-0340: CNC machines with Smoghogs).

### **Conclusion**

Plastic, metal cutting, silk-screening, wood cutting, etc. machines are from Rule 336.1201 per Rule, 285 as properly designed operated filter systems are installed. About April 2014, DMI moved out. About April 2014, Diversified Machine, Inc. moved out.

NAME Bluemahall:

DATE 12/28/2018

SUPERVISOR

Joyce B

