

N2122

FY 2018 Sched Insp.

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

N212242260

FACILITY: TRANSIGN INC		SRN / ID: N2122
LOCATION: 3777 AIRPORT RD, WATERFORD		DISTRICT: Southeast Michigan
CITY: WATERFORD		COUNTY: OAKLAND
CONTACT:		ACTIVITY DATE: 10/02/2017
STAFF: Iranna Konanahalli	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: FY 2018 Scheduled Inspection of Transign, LLC		
RESOLVED COMPLAINTS:		

**Transign, LLC. (N2122)**  
**Safety Technology International, Inc. (STI) (N2122)**  
**3777 Airport Road**  
**Waterford, Michigan 48329-1304**

**Transign, LLC. (U-63-17-08326)**  
**281 Collier Road, Auburn Hills, MI 48326-1409**

**www: TransignLLC.com.**

**PTIs to be voided: PTI Nos. 539-89 (Permit Engineer Chris Stock) for steel parts prime coating process (approved: 08/21/1989; SC 14: 0.91 tons of VOC per year) and 283-89 (Permit Engineer Dave Fiedler) for soil aeration (approved: 06/19/1989). PTI No. 283-89 is voided on September 30, 1989, via SC 17; however, AQD must issue a void letter and update permit cards. AQD issued all permits to Transign, LLC. (N2122) at Waterford.**

**SRN reassign: Transign, LLC. (N2122) → Safety Technology International, Inc. (STI) (N2122) as Transign moved, about May 2017, to 281 Collier Road, Auburn Hills, MI 48326 (U-63-17-08326) from 3777 Airport Road, Waterford.**

On October 02 (Waterford) and October 23 (Auburn Hills), 2017, I conducted a level-2 **FY2018 Scheduled Inspections** of Transign, LLC (at two locations) and Safety Technology International, Inc. (STI) ("Transign" & "STI") located at:

1. N2122: Transign, LLC, 3777 Airport Road, Waterford, Michigan 48329-1304
2. U-63-17-08326: Transign, LLC, 281 Collier Road, Auburn Hills, MI 48326
3. N2122: Safety Technology International, Inc. ("STI"), 3777 Airport Road, Waterford, Michigan 48329-1304

The inspections were 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 2018 inspection, Mr. Brandon Bilodean (Phone: 248-673-9898; Fax: NA; Cell: NA; E-mail: bBilodean@STI-USA.com), Assembly Supervisor, Safety Technology International, assisted me.

During the FY 2018 inspection, Mr. Steve Kase (Phone: 248-623-6400 or 8F55-535-7446 - Toll Free; Fax: 248-623-2930; Cell: NA; E-mail: SteveKase@TransignLLC.com), VP Operations, Transign, Auburn Hills, assisted me.

The purpose of the scheduled inspection was to inspect a company that has not been inspected for over a decade by MDEQ-AQD.

### **Transign (LLC. U-63-17-08326)**

Founded by James Youngblood in 1959, Transign has been providing the transit industry with LED destination signs, roller curtains, run number boxes, and stop requested signs. With invention of new technologies, Transign practically shifted to LED products such as interior and exterior LED destination and passenger information signs, automated voice announcements, etc. Hence, there is no need for coating spray booth. STI bought the Waterford building about 2012 and let out a part of the building to Transign, which later, about May 2017, moved to 281 Collier Road, Auburn Hills. Previously, Transign owned the Waterford building. Transign operated at Waterford since 1974 until it moved out in 2017.

Upon moving to Auburn Hills, Transign leased the 281 Collier Road building from the property owner Usztan (248-332-7448), 261 Collier Road. Usztan is a custom builder and contractor. Based upon the AQD's complaint investigation, Usztan has a wood stove that uses waste wood from its construction sites. Underneath Usztan's office space's concrete floor is a network of hot water pipes. Warm floor is an exclusive source of heat for the office and there is no forced air heating. Water for the network is heated by a well-designed wood stove located in the backyard. Hot water is pumped to circulate underneath the concrete floor.

At Auburn Hills, Transign assembles LED products. Two Mimaki JV-130 printers are present. Printers use ink cartridges. About 100 cartridges per year are used. Each cartridge contains  $\approx 0.4$  liters of ink. Hence, annually  $\approx 40$  liters (10.6 gallons) of ink is used. No exhaust to outside ambient air. No ventilation system. I did NOT detect any odor while printers were operating.

Ink cartridge is supplied by Mimaki Engineering Co., Ltd. of Japan.

Flash Point (FP) = 71 °C. Auto Ignition = NA °C. Boiling Point (BP) = 176 °C @ 760 mm Hg. Vapor Pressure (VP) = 133 Pascal. Specific Gravity (SG, Water = 1.0) = NA. Density ( $\rho$ ) @ 68 °F = NA. Flammability range = 2.2 %v (LEL) – 33%v (UEL).

No painting. No solvent cleaning.

### **Safety Technology International, Inc. (STI) (N2122)**

Safety Technology International, Inc. (STI) performs only assembly of fire safety and security products such as fire alarms. The parts needed for assembly are molded at Safety Technology International, Inc., 2306 Airport Road, Waterford. STI bought the Waterford

building about 2012 and let out a part of the building to Transign, which later moved, about May 2017, to 281 Collier Road, Auburn Hills.

STI performs printing of its packaging materials: pad printers and UV printers (in all, about 5 printers) are present. All printers (5), except one (1), use printer ink cartridges. One UV printer that uses liquid ink uses about 1 liter of ink per year. None of the printers release emissions to outside ambient air; no ventilation system. I did not detect any odor near the printers.

No painting. No solvent cleaning.

### **Conclusion**

About May 2017, Transign moved to 281 Collier Road, Auburn Hills. PTI Nos. 539-89 and 283-89 must be voided. At all locations, each process is exempt from Rule 336.1201.

NAME *D. McManahall*

DATE *11/02/2017*

SUPERVISOR *Joyce B.*

