DEPARTMENT OF ENVIRONMENTAL QUALITY

AIR QUALITY DIVISION
ACTIVITY REPORT: Self Initiated Inspection

14252

M425235566	/ / (Low) Comme
FACILITY: Tri-Tec Polymers, Inc.	SRN / ID: M4252
LOCATION: 212 ELM ST, HOLLY	DISTRICT: Southeast Michigan
CITY: HOLLY	COUNTY: OAKLAND
CONTACT:	ACTIVITY DATE: 07/12/2016
STAFF: Iranna Konanahalli / COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: FY 2016 inspection Tri-Tec Polymers, Inc. ("Tri-Tec")	
RESOLVED COMPLAINTS:	

M4252 - SAR_ 2016 07 12

E & M Industries, Inc. (M4252) Tri-Tec Polymers, Inc. (M4252)

209 Elm Street

Holly, Michigan 48442-1404

Files: Mark all files for E & M Industries, Inc. out of business or moved out from 209 Elm Street, Holly

SRN reassign (2016): E & M Industries, Inc. (M4252) – moved out or out of business. → Tri-Tec Polymers, Inc. (M4252) – moved into this building about 2010

PTIs denied: PTI Nos. 367-96 (01/17/1997) & 357-96 (01/17/1997)

PTI voids: PTI Nos. 238-91A (06/18/2001), 238-91 (03/05/1997), 267-85A (06/18/2001) & 267-85 (03/05/1997)

On July 12, 2016, I conducted level-2 self-initiated inspections of E & M Industries, Inc. ("E & M") and Tri-Tec Polymers, Inc. ("Tri-Tec"), a Teflon billets and seals manufacturing company, located at 209 Elm Street, Holly, Michigan 48442-1404. 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.

Tri-Tec Polymers, Inc. (M4252)

During the FY 2016 inspection, Mr. Rory J. Scheving (Phone: 248-369-8080; Cell: 810-240-8302; Fax: NA; E-mail: Rory@TriTecPolymers.com), President and Owner, assisted me.

Tri-Tec is in the business of manufacturing Teflon (poly-tetra-fluoro-ethylene, PTFE, $(C_2F_4)_n$, CAS# 9002-84-0) seals, gaskets, billets, etc.; Teflon is a Du Pont brand name for the material. Molecular formula $(C_2F_4)_n$ suggests Teflon consists only of carbon (C) and Fluorine (F) with strong C-F polar-covalent bond. Tri-Tec buys generic Teflon. Tri-Tec moved into this Holly building about 2010. There are two parts to the plant: manual Teflon powder compression (low production) area and automated Teflon pallets compression (high production) area. A wide variety of molds is present for molding Teflon sealing products.

While manual compression (hand pressure) into a mold use Teflon powder and machine powered molding uses Teflon pallets. Thus pressed Teflon molds (both manual and machine compression) are baked at ≈700 °F in two natural-gas-fired sintering ovens (Grieve). 12-24-hour sintering results in inter-molecular bonding reaction to produce indestructible plastics;

oven hold times at the temperature of ≈700 °F vary with geometry and dimensions. Teflon products have resistance to corrosive reagents and offer low coefficient of friction.

Except natural gas fired sintering ovens (2), manufacturing processes and equipment do not exhaust air contaminants to outside ambient air. The processes and equipment are exempt from Rule 336.1201 (Permit-to-Install) pursuant to Rules 282, 285, etc.

E & M Industries, Inc. (M4252)

Mark all files for E & M Industries, Inc. out of business or moved out from 209 Elm Street, Holly

Conclusion

E & M Industries, Inc. out of business or moved out. Tri-1	ec is in the business of
manufacturing Teflon seals, gaskets, billets, etc.	
NAME Il Cucure had DATE 07/18/2016.	CTF
NAME WILLIAM DATE 1/18/2016	SUPERVISOR