

A8019
MANILADEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: On-site Inspection

A801968736

FACILITY: UNISTRUT INTERNATIONAL CORPORATION		SRN / ID: A8019
LOCATION: 4205 Elizabeth Street, WAYNE		DISTRICT: Detroit
CITY: WAYNE		COUNTY: WAYNE
CONTACT: Chuck Elliott , Environmental, Health and Safety Manager		ACTIVITY DATE: 07/27/2023
STAFF: Jill Zimmerman	COMPLIANCE STATUS: Compliance	SOURCE CLASS: SM OPT OUT
SUBJECT: Target Inspection		
RESOLVED COMPLAINTS:		

DATE OF INSPECTION : 7/27/2023
TIME OF INSPECTION : 11:30 am
INSPECTED BY : Jill Zimmerman
PERSONNEL PRESENT : Chuck Elliott
FACILITY PHONE NUMBER : 734-727-4012
FACILITY EMAIL : celliott@atkore.com

FACILITY BACKGROUND

Unistrut International is an opt-out facility located in a light industrial/commercial/residential area just southwest of Michigan Avenue and Wayne Road. The facility produces metal framing and structure components which are used in the construction industry and metal step grading for the construction and automotive industry. Atkore International, the parent company, took control over Unistrut in December 2010.

Unistrut operates about two shifts per day, six days per week.

REQUIRED PPE

For safety purposes, I wore steel toed safety boots, hard hat, safety glasses and hearing protections.

COMPLAINT/COMPLIANCE HISTORY

No complaints have been issued to this facility during at least the last five years. No Violation Notices have been issued in at least the last five years.

PROCESS EQUIPMENT AND CONTROLS

Unistrut produces metal shelving and brackets using metal working including stamping and zinc plating is also used on some parts. Light assembly, packaging, storage, and shipping of parts is also done onsite.

The heat-treating furnace (EU-HEATTREAT) is no longer being used at this facility and was removed from the site about a month before the onsite inspection.

Some parts are coated in either a zinc plating line or a galvanization line. The zinc plating is used for more decorative and indoor purposes where less corrosion protection is needed. Galvanizing is done for parts to be used outdoors which need more corrosion protection.

The zinc plating line (EU-ZNPLATING) uses a series of dip tanks to coat metal parts. The parts are dipped in two soap tanks and a rinse tank. Next the parts are electrocleaned, followed by surface activation (HCL to improve adhesion). Zinc plating is next, then rinse followed by brighter, an acid solution and a sealer. The emissions from the tanks are collected in vents and sent through a scrubber located on the roof. The major HAP emitted in this process is HCL, but actual HCL emissions are small. Wastes from the unit are run through an on-site wastewater treatment before disposal into the city sewer system. The facility is in the process of replacing this zinc line with a new line.

The hot dip galvanizing line, which was installed in 2008, uses a series of heated dip tanks for "prep coating". The parts are dipped into tank in the following order: soap, rinse, surface activation (HCL), rinse, flux (inorganic salts which improves adhesion). The parts are dried and then put into the zinc pot for galvanizing. The facility has submitted demonstration showing that the process is exempt from permitting under Rule 290. Emissions are controlled with a scrubber and are expected to be under 500 pounds per month as required by the exemption. The Rule 290 demonstration can be found in the facility file.

There are about seven presses both automatic and hand-fed and three nut lines which are exempt from permitting by Rule 285 (I)(i). In the "old pack" area, there are several "spring machines" which are used to attach metal springs to nuts, which are exempt form permitted by Rule 285 (I)(i).

The "Skinny Dipper" (EU-SKINNYDIPPER) and two burn-off ovens (EUBLU-SURF-OVENS) have been removed from the facility in 2004. The facility installed a soil vapor extraction (SVE) system in May 2007 to remove TCE from the soil. The SVE system equipment has been removed from the facility, though the facility continues to monitor the site.

The remainder of the facility is used for warehouse space or shipping and receiving space. There is one boiler on site, which is rated at 300,000 BTU/hr and operates on natural gas. This boiler is exempt from permitting by Rule 282 (b)(i).

INSPECTION NARRATIVE

I arrived at the facility and met with Mr. Elliott, who explained that some changes to the facility included sending heat treated parts offsite to be treated. Next, we walked through the facility. During the onsite inspection, the scrubber for the galvanizing line appeared to be operating properly.

APPLICABLE RULES/PERMIT CONDITIONS

Permit 180-02 is an opt-out permit.

EU-BLU-SURF-OVENS – This emission unit was not evaluated since it has been removed from the facility

EU-HEATTREAT – This emission unit was not evaluated since it was removed from the facility.

EU-ZNPLATING – This emission unit was not evaluated. This unit is currently being revamp and the facility feels that the newly revamped hot galvanized process will be exempt from permitting.

EU-SKINNYDIPPER – This emission unit was not evaluated since it has been removed from this facility.

EU-FACILITY

Emission Limits (5.1a-5.1c) – Compliance. The facility reported zero VOC emissions in MAERS. This seems to be accurate since the majority of processes under this permit are no longer operating.

Testing (5.2) – NA – Emission testing is not required at this time.

Recordkeeping/Reporting/Notification

5.3 Compliance – The facility maintained a binder in the office of the MSDS for all chemicals used at the facility. This binder was reviewed during the onsite inspection.

5.4, 5.5 Undetermined – The monthly records were not reviewed since most of the processes at this location either were not operating or are no longer at this location.

MAERS REPORT REVIEW

The MAERS was received on time and appears to have been submitted accurately.

FINAL COMPLIANCE DETERMINATION

Unistrut appear to be operating in compliance with all state and federal regulations as well as all evaluated permit conditions. The facility was interested in exploring options to determine if the Opt-Out permit was still required since the majority of the equipment has been removed from the facility or no longer operates.

NAME



DATE

7/11/2024

SUPERVISOR

JK