



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, ILLINOIS 60604**

DATE: See Date of Section Chief Signature Below

SUBJECT: CLEAN AIR ACT INSPECTION REPORT
Orion Industries, Chicago, Illinois

FROM: Sasha Letuchy, Environmental Engineer
AECAB (MI/WI)

THRU: Sarah Marshall, Section Chief
AECAB (MI/WI)

TO: File

BASIC INFORMATION

Facility Name: Orion Industries

Facility Location: 5492 N. Northwest Hwy. Chicago, Illinois 60630

Date of Inspection: 9/14/2021

EPA Inspector(s):

1. Sasha Letuchy, Environmental Engineer
2. Victoria Nelson, Environmental Engineer

Other Attendees:

1. Wally Slowik, Maintenance Manager
2. Jeremy Riviera, Safety and Health Manager (only present at the very end of the inspection)

Contact Email Address: jeremyr@orioncoat.com

Purpose of Inspection: Clean Air Act Inspection

Facility Type: Coating

Regulations Central to Inspection: Illinois State Implementation Plan

Arrival Time: 1:45 pm

Departure Time: 3:30 pm

Inspection Type:

- Unannounced Inspection
- Announced Inspection

OPENING CONFERENCE

- Presented Credentials
- Stated authority and purpose of inspection
- Provided Small Business Resource Information Sheet
- Small Business Resource Information Sheet not provided.
- Provided CBI warning to facility

The following information was obtained verbally from Wally Slowik unless otherwise noted.

Process Description:

Orion receives customer supplied parts in various sizes from various industries. First, the parts are cleaned, or grit blasted as needed. Then, coatings are sprayed onto the parts in a spray paint booth. Coating application is either done manually or applied automatically, depending on the booth. Particulate matter emissions from coating application are routed through a filter at the back of each spray booth and ducted to exhaust stacks at the roofline. Filters are visually inspected daily and changed out when needed. Filter replacement is logged in a log book.

Following coating application, parts are placed in curing ovens. Emissions from the curing ovens exhaust to the roof. Some parts require multiple cures. When there is a shortage of curing ovens, some parts may receive a flash cure prior to being moved to a different curing oven for its final cure.

The facility operates approximately 50 spray booths and approximately 50 curing ovens.

Orion records the weight of the coatings applied.

Staff Interview: Orion owns and operates another facility at 5170 N. Northwest Hwy. Teflon coatings are applied at the 5492 N. Northwest Hwy location. Wally was unsure whether they are used at the 5170 N. Northwester Hwy. location.

TOUR INFORMATION

EPA Tour of the Facility: Yes

Data Collected and Observations:

EPA inspectors observed various spray booths and curing ovens throughout the facility and asked to see the spray booth logbooks associated with a few of the spray booths. The logbook associated with Machine 3002 was missing. An indoor fan was operating near the spray booth associated with Machine 503. The logbook associated with Machine 514 showed that the filter(s) were changed frequently in September 2021 (five times), but had only been changed five times between February and August 2021. EPA was unable to cross check the filter change outs with operating hours of the unit. It was also unclear from the logbook whether a notation that Filter Number(s) Changed 12 meant all 12 filters were changed or only Filter Number 12 was changed.

EPA observed the grit blasting area. Emissions from each grit blaster are routed to particulate filters. One large grit blaster machine is controlled by a torit with cartridge filters.

Finally, EPA toured the second floor of the building which is co-operated by the Surface Solution Group, LLC. The parts coated in this area are for the medical industry. The process is more automated, and the parts are automatically coated and then automatically moved into the curing oven.

Photos and/or Videos: were taken during the inspection.

RECORDS REVIEW

1. Logbooks during the facility tour.

CLOSING CONFERENCE

- Provided U.S. EPA point of contact to the facility

Requested documents:

- Operating Permits
- Construction Permits
- Copy of filter log for all machines for 2021 and data on which machines ran on which days
- VOC testing
- Annual emissions report and associated calculations
- Identify which lines use a teflon coating and provide the SDS for coatings used
- Provide design airflow for the spray booths and curing ovens (including fan capacity and other specs)

Concerns: EPA stated that it was concerned with the spray booth logbooks. One logbook was missing and another had inconsistent change outs. EPA also noted that the spray booths did not have very significant suction.

DIGITAL SIGNATURES

Report Author: **ALEXANDR A LETUCHY** Digitally signed by
ALEXANDRA LETUCHY
Date: 2021.10.25
08:50:42 -05'00'

Section Chief: **SARAH MARSHALL** Digitally signed by
SARAH MARSHALL
Date: 2021.10.26
11:16:39 -05'00'

Facility Name: Orion Industries

Facility Location: 5492 N. Northwest Hwy. Chicago, Illinois 60630

Date of Inspection: September 14, 2021

APPENDICES AND ATTACHMENTS

1. Photo Log (One photo is CBI)

Facility Name: Orion Industries

Facility Location: 5492 N. Northwest Hwy. Chicago, Illinois 60630

Date of Inspection: September 14, 2021

APPENDIX A: DIGITAL IMAGE LOG

1. Inspector Name: Victoria Nelson	2. Archival Record Location: <i>C:\Users\aletuchy\OneDrive - Environmental Protection Agency (EPA)\Cases\Orion\Photos</i>
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Image Number	File Name	Date and Time (Central Daylight Time)	Description of Image
1	IMG_0001.JPG	2021:09:14 14:35:05	3002 Machine
2	IMG_0002.JPG	2021:09:14 14:39:19	503 Spray Booth
3	IMG_0003.JPG	2021:09:14 14:40:12	503 Spray Booth with Nearby Fan
4	IMG_0004.JPG	2021:09:14 14:49:38	Spray Booth 514 Log
5	IMG_0005.JPG	2021:09:14 14:49:44	Spray Booth 514 Log cont.
6	IMG_0006.JPG	2021:09:14 14:51:20	314 Fan Speed Controller
7	IMG_0007.JPG	2021:09:14 14:54:19	511 Spray Booth
8	IMG_0008.JPG	2021:09:14 14:56:53	Large Spray Booth (CBI)