



**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

FROM: Karyn DeFranco, Inspector
AECAB (MN/OH)

THRU: Brian Dickens, Section Chief
AECAB (MN/OH)

TO: File

BASIC INFORMATION

Facility Name: Central Steel and Wire Co

Facility Location: 300 W 51st St., Chicago, IL 60632

Date of Inspection: 08/10/2021

EPA Inspector(s):

1. Karyn DeFranco, Inspector
2. Karina Kuc, Inspector

Other Attendees:

1. Paula Santiago, Safety Manager, Central Steel and Wire Co.
2. Daniel Orozco, General Manager of Operations, Central Steel and Wire Co.
3. Kenneth Stack, Production Shift Supervisor, Central Steel and Wire Co.

Contact Email Address: paula_santiago@centralsteel.com

Purpose of Inspection: To investigate compliance with the Clean Air Act and investigate HAP and VOC emissions.

Facility Type: Metal Service Center facility

Regulations Central to Inspection: Illinois SIP HAP and VOC emission limits.

Arrival Time: August 10th, 2021, 11:26 AM

Departure Time: August 10th, 2021, 1:36 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. Reason:
- Provided CBI warning to facility

The following information was obtained verbally from Central Steel and Wire Co. unless otherwise noted.

Company Ownership:

Ryerson acquired Central Steel and Wire Co. (Central Steel) approximately 3 years ago.

Process Description:

Steel, carbon and aluminum products such as tubes, bars, sheets, coils, etc. are brought to the facility via truck or rail and entered into Central Steel's internal database and then processed according to order specifications. Product processing includes sawing, shearing, burning, blasting, and coil processing, such as slitting and cutting. The finished products are stored onsite before being shipped to customers.

Staff Interview:

Central Steel currently has approximately 322 employees and typically operates 24 hours, 5 days per week. Central Steel estimates processing approximately 200,000-300,000 lbs/day of product.

Central Steel has four burning machines to heat steel products with an open flame. The steel is placed on top of metal grates with water underneath and then exposed to the open flame from the burning machines. The first and second burning machines are used to process mild steel and use natural gas to fuel the flame. The third burning machine is used to process mild steel as well and is an oxyburner that uses natural gas and oxygen to fuel the flame. The burner in Bay 5, "Burner 5," is a plasma burner and is used to process stainless steel and uses a combination of three gases, including nitrogen, to fuel the flame. Central Steel changes the grates to burner 5 every ~6-7 months to minimize smoke.

All burning machines except for burner 5 are vented to atmosphere. Burner 5 runs batch processes for ~40 hours per week. Burner 5 is vented to a baghouse, Machine No. 3845, which is manually turned on when burner 5 is running.

Central Steel has a new dip tank, installed ~3 months prior to the inspection, to remove rust from parts. The dip tank vents directly to the room. Central Steel also has a shop blaster that vents to a baghouse, Machine No. 3821. The baghouse for the shop blaster is on when the shop blaster is on and pressure is ideally maintained between 0-4 psig. Central Steel was unfamiliar with any baghouse maintenance on either baghouse.

TOUR INFORMATION

EPA Tour of the Facility: Yes

Data Collected and Observations:

EPA toured the facility. EPA inspected process areas, emission vents from units, and the two baghouses. The burner 5 machine was not operating at the time of the inspection and the associated baghouse, Machine No. 3845, was also not operating. EPA saw that the control panel for baghouse Machine No. 3845 was flashing green and read “maintenance required.”

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

Field Measurements: were not taken during this inspection.

CLOSING CONFERENCE

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

Requested documents:

- Current Air Permit;
- 2020 Records for both baghouses including:
 - Preventative maintenance (PM);
 - Maintenance and procedures;
 - Pressure readings;
 - Cleanouts/replacements/repair;
- Air emissions reporting (AER) and calculations spreadsheet for 2019 and 2020;
- SDS sheets and 2020 throughput of:
 - Degreasers;
 - Preventative rust spray;
 - Preventative rust dip used in the dip tank; and
 - Coolant(s) used at the facility including, but not limited to, coolants for the bandsaw and the KASTO saw systems;

Concerns: EPA discussed concerns about baghouse maintenance and the control panel on baghouse Machine No. 3845.

DIGITAL SIGNATURES

Report Author: **KARYN DEFRANCO**  Digitally signed by KARYN DEFRANCO
Date: 2021.09.08 13:54:14 -05'00'

Section Chief: **Brian Dickens**  Digitally signed by Brian Dickens
Date: 2021.09.09 07:07:21 -05'00'

Facility Name: Central Steel and Wire Co.
Facility Location: 500 W 51st St., Chicago, 60632
Date of Inspection: August 10, 2021

APPENDICES AND ATTACHMENTS

- 1.* Appendix A: Digital Image Log

Contains Items Claimed as CBI – Non-Releasable

Facility Name: Central Steel and Wire Co.

Facility Location: 500 W 51st St., Chicago, 60632

Date of Inspection: August 10, 2021

CONFIDENTIAL BUSINESS INFORMATION ATTACHMENT

NONE

Facility Name: *Facility Name*

Facility Location: *Facility Address*

Date of Inspection: *Select date by clicking on the arrow*

APPENDIX A: DIGITAL IMAGE LOG

1. Inspector Name: Karina Kuc	2. Archival Record Location: <i>C:\Users\kdefranc\OneDrive - Environmental Protection Agency (EPA)\Community Group\SE Chicago 2021\081021 Inspections\Central Wire and Steel\081021 Inspection Photos</i>
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Image Number	File Name	Date and Time (incl. Time zone and DST)	Description of Image
1	IMG_0001.JPG	2021:08:10 13:51:32	Baghouse Control Box (Machine No 3845). Baghouse for burner in Bay 5.
2	IMG_0002.JPG	2021:08:10 14:01:03	Pressure Gage Baghouse (Machine No. 3821) for Shop Blaster; Shop Blaster was not operating at the time.
3	IMG_0003.JPG	2021:08:10 14:14:41	Baghouse (Machine No. 3845) for burner in Bay 5.