



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
Four Penn Center – 1600 John F Kennedy Blvd
Philadelphia, Pennsylvania 19103-2852

Report Title: Clean Air Act Inspection of US Steel Edgar Thompson
Inspection Date(s): March 23, 2023
Regulatory Program(s): Title V, NESHAP
Company Name: US Steel Edgar Thompson Plant
Facility Name: US Steel Edgar Thompson Plant
Facility Location: 13th Street & Braddock Avenue
Braddock, PA 15104
Latitude: 40.2355 **Longitude:** -79.5138
County/Parish: Allegheny County
AFS Number: 3400076475
Permit Number: 0051a
NAICS Code: 3311110 **SIC:** 3312
Unique Project #: 3E23CA082A

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EPA Lead Inspector

Signature

Paul Arnold

Date

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Date

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I. Introduction

The United States Environmental Protection Agency (EPA) conducted Geospatial Measurement of Air Pollution (GMAP) monitoring at US Steel Edgar Thompson Plant (ET or Facility) to verify compliance with applicable State and Federal regulations. The Allegheny County Health Department (ACHD) was notified of the inspection on March 3, 2023, via email. On March 16, 2023, EPA notified the Facility of the planned inspection, via phone.

A. Summary of the Facility

The Facility is located at 13th Street and Braddock Avenue, Braddock, PA 15104. ET is an iron and steel making facility that primarily produces steel slabs. ET began operation in 1875. ET is sited on about 200 acres and operates 24 hours a day.

The Facility received a Title V Operating Permit (0051a), from ACHD issued on April 13, 2016 and amended on June 21, 2019.

ET is classified as a Major source for Carbon Monoxide (CO), Oxides of Nitrogen (NO_x), Particulate Matter (PM), Sulfur Dioxide (SO₂), Volatile Organic Compounds (VOC), and Hazardous Air Pollutants (HAPs). The Facility is subject, or potentially subject, to the following federal regulations:

- 40 CFR Part 63, Subpart FFFFF

B. Inspection Opening Conference

At 3:15 PM on March 22, 2023, EPA inspectors arrived at the Facility for GMAP monitoring and conducted a brief opening conference. ET was represented by Matthew DeLibero, Brett Tunno, Coleen Davis, and Chris Hardin. Gary Fischman and Cali Conley, of ACHD, were also present. EPA inspectors, Paul Arnold, Christopher Williams, Philip Myers, and Armando Bustamante presented their credentials and explained the purpose of the visit was to conduct mobile monitoring using Geospatial Measurement of Air Pollution (GMAP). Chris Williams explained that the GMAP vehicle had the capability to monitor Volatile Organic Compounds (VOC), Sulfur Dioxide (SO₂) and Benzene. EPA informed the facility representatives of their right to claim any confidential business information (CBI). At that time, ET representatives did not claim any photos or documentation as CBI.

II. Site Activity/Process Description

The ET Plant is a steel processing facility. ET is an iron and steel making facility that produces steel slabs. ET uses coke from the US Steel Clairton Plant to produce steel slabs. Coke is charged in the blast furnaces in the iron making process. Molten iron is transferred from the blast furnace into transfer ladles. The hot metal is then transferred to a hot metal mixer for desulfurization. Desulfurized hot metal is then introduced into the basic oxygen process (BOP), where the hot

metal is transformed into molten steel. The liquid steel is tapped from the BOP vessels and transferred to the Vacuum Degasser where the steel is refined.

The opening conference concluded at 10:45 AM.

III. Observations

EPA inspectors were led on a drive through the Facility at 10:50 AM by representatives of US Steel. At 10:53 AM, EPA initiated GMAP monitoring. Allason Holt and Nick Delphia, of ACHD, and Paul Arnold, Christopher Williams, Philip Myers, and Armando Bustamante, of EPA, were present during GMAP monitoring.

The EPA GMAP vehicle was lead through various interior roads of the Facility. EPA observed GMAP readings, which are represented in Table 1. A designation of “elevated” means elevated concentrations of the listed pollutant were measured above background levels using GMAP. Actual numeric concentration readings observed during the monitoring event were not yet verified at the time of this report, but can be shared, with ET, once the data becomes verified and available.

TABLE 1				
Time	VOC (ppb)	Benzene (ppb)	H2S(ppb)	Approximate Location
11:28 am	elevated			Boiler Blast Furnace
11:30 am	elevated			Boiler Blast Furnace

The GMAP monitoring concluded at 11:40 AM.

IV. Closing Conference

EPA inspectors and Allason Holt and Nick Delphia, of ACHD, and Coleen Davis, Matthew DeLibero, Brett Tunno, and Chris Hardin, of US Steel, had a brief closing conference to ask additional questions and discuss observations. The EPA inspectors noted that the investigation is on-going, and any areas of concern identified in the final reports do not necessarily reflect a violation or deviation, rather, they are areas that will require further investigation. EPA also noted that they would issue an inspection report within in 60 days, with a copy to the County. Simultaneously, EPA will perform a detailed review of records and may have additional questions. The inspection concluded at 12:00 PM.

The following have been identified as *potential* issues during the inspection. These are issues that require either further investigation by EPA, or additional information or explanation by ET.

- EPA detected elevated above background VOC concentrations above background using GMAP in the vicinity of the Boiler Blast Furnace.

V. List of Attachments

Attachment 1: Opening Conference sign in sheet.

