



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

SUBJECT: CLEAN AIR ACT INSPECTION REPORT
Buckeye East Chicago, East Chicago, IN

FROM: Jason Schenandoah
AECAB (IL/IN)

THRU: Nathan Frank, Section Supervisor
AECAB (IL/IN)

TO: File

BASIC INFORMATION

Facility Name: Buckeye East Chicago

Facility Location: 3823 Indianapolis Blvd. East Chicago, Indiana 46312; 400 E Columbus Dr.
East Chicago, Indiana

Date of Inspection: August 3, 2022

EPA Inspector(s):

1. Jason Schenandoah, Environmental Engineer
2. Meaghan Pashen, Environmental Engineer

Other Attendees:

1. Jason Symington, Operations Manager, Buckeye
2. Mike Cuddy, Lead Terminal Operator, Buckeye
3. Ryan Janesy, Operations Manager, Buckeye
4. Ryan Kelley, Terminal Specialist, Buckeye
5. Dhaval Shah, Air Specialist, Buckeye
6. Nicole Brower, Senior Engineer, Envirospec Engineering
7. Sasa Dunovic, IDEM inspector

Contact Email Address: RJanesy@buckeye.com

Purpose of Inspection: Tanks inspection

Facility Type: Terminal

Regulations Central to Inspection: NESHAP BBBBBB

Arrival Time: 8:30 am

Departure Time: 12:30 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. Reason: Not a small business
- ☒ Provided CBI warning to facility

The following information was obtained verbally from Buckeye Personnel unless otherwise noted.

Company Ownership: Ownership has not changed in the past five years, but the company changed from a privately owned company to a publicly traded company in 2019.

Process Description:

Buckeye East Chicago's facility is broken up into two portions, east and west, separated by a canal. The west portion operates several storage tanks containing gasoline, distillate, blend stocks, and propylene. Petroleum tanks are either domed external floating roofs (EFR) tanks or internal floating roof (IFR) tanks. Material in the west portion is transported into and out of the terminal via pipeline. The east portion operates several storage tanks containing gasoline, distillate, jet fuel, blend stocks, and butane. Petroleum liquids are stored in either EFR storage tanks, domed EFR storage tanks, or IFR storage tanks. The east portion also operates a 4-bay truck loading rack that distributes petroleum liquids; the truck loading rack vents to a vapor recovery unit (VRU) and has a vapor combustion unit (VCU) as back up emissions control. A 12-rail car loading rack is used exclusively for propylene. There is a portable VCU that may be used on the 12-railcar loading rack, but it is not currently used.

Staff Interview: Stack tests and regular maintenance are conducted on the portable VCU to meet permit requirements. In lieu of using the portable VCU to control emissions from the 12-railcar loading rack, gases are compressed in the railcar.

TOUR INFORMATION

EPA Tour of the Facility: Yes

Data Collected and Observations:

A Forward Looking Infrared (FLIR) camera was utilized during the inspection to perform optical gas imaging (OGI) throughout the facility. Emissions were visualized exiting a vent on Tank 137, that contains diesel. Buckeye personnel stated that diesel was actively loading into Tank 137 while OGI was being conducted. Emissions were imaged coming out of a vent on Tank 209. Tank 209 is an IFR storage tank and stores gasoline. OGI of Tank 202 demonstrated that emissions were escaping from the seal on the EFR. OGI of Tank 801 showed emissions escaping from several locations around the seal of the EFR. OGI of Tank 806 indicated that emissions were escaping between the EFR seal and the guiderail.

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

A digital photo log is detailed in Appendix A of this report.

Field Measurements: were not taken during this inspection.

CLOSING CONFERENCE

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

Requested documents:

- Last 5 years of annual seal inspections for Tanks 202, 801, and 806
- Last primary seal inspections for Tanks 202, 801, and 806
- Last out of service inspection report for Tank 209
- Last API inspection report for Tank 209

Compliance Assistance: All OGI video footage was shared with Buckeye.

DIGITAL SIGNATURES

Report Author: JASON
SCHENANDOAH Digitally signed by JASON
SCHENANDOAH
Date: 2022.09.23
14:56:56 -05'00'

Section Supervisor: Frank,
Nathan Digitally signed by Frank,
Nathan
Date: 2022.09.26
16:41:11 -05'00'

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APPENDICES AND ATTACHMENTS

I. Appendix A: Digital Image Log

Facility Name: Buckeye East Chicago

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APPENDIX A: DIGITAL IMAGE LOG

1. Inspector Name: Jason Schenandoah	2. Archival Record Location: ERC folder: Enf BuckeyeEastChicago IN 22 InspRep
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Image Number	File Name	Date and Time (incl. Time zone and DST)	Latitude and Longitude	Description of Image
1	MOV_0464	8/3/2022 9:42 am *		Accidental video capture
2	MOV_0465	8/3/2022 10:07 am *		Tank 137 emissions from vent
3	IR_0466	8/3/2022 **		Accidental photo
4	MOV_0467	8/3/2022 10:55 am *		Tank 209 emissions from vent
5	MOV_0468	8/3/2022 11:04 am *		Tank 202 emissions near EFR seal
6	MOV_0469	8/3/2022 11:11 am *		Tank 202 emissions near EFR seal
7	MOV_0470	8/3/2022 11:26 am *		Tank 801 emissions near EFR seal
8	MOV_0471	8/3/2022 11:28 am *		Tank 801 emissions near EFR seal
9	MOV_0472	8/3/2022 11:29 am *		Tank 801 emissions near EFR seal
10	MOV_0473	8/3/2022 11:36 am *		Tank 806 emissions near EFR seal and guide rail

* Digital image metadata was 5 hours off from actual image time and has been corrected in the table above

** Metadata was not preserved for this file