

2700-FM-BAQ0023 2/2015 pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION		<h2 style="margin: 0;">INSPECTION REPORT</h2>		Commonwealth of Pennsylvania Department of Environmental Protection Air Quality Program	
Date(s) of Inspection:	TV <input type="checkbox"/> SM <input type="checkbox"/> NM <input type="checkbox"/>	PA <input checked="" type="checkbox"/> GP <input type="checkbox"/> MEGA <input checked="" type="checkbox"/>	Permit #(s):	Expiration Date:	Case #:
10/21/24			04-740		04-740
Company Name:			Municipality:	County:	
Shell Chemicals Appalachia			Potter Twp.	Beaver	
Plant Name:			Physical Location:	Federal ID — Plant Code #:	
Petrochemical Complex			Route 18	46-1624986-1	
Responsible Official:				Mailing Address:	
Nathan Levin				300 Frankfort Rd.	
Title:				Monaca, PA 15081-2210	
Phone #(s):					

Mark (X) All Inspection Types That Apply To This Inspection:

<input type="checkbox"/> Full Compliance Evaluation (FCE)	<input type="checkbox"/> Plan Approval Inspection	<input type="checkbox"/> File Review (FR)
<input type="checkbox"/> Operating Permit Inspection (PI)	<input type="checkbox"/> Initial Permit Inspection (IPI)	<input type="checkbox"/> Complaint Inspection (CI)
<input checked="" type="checkbox"/> Routine/Partial (RTPT)	<input type="checkbox"/> Follow-Up Inspection (Ref. Date: _____)	<input type="checkbox"/> Sample Collection (SC)
<input type="checkbox"/> Minor Source(s) Inspection (RFD)	<input type="checkbox"/> Stack Test Observation	<input type="checkbox"/> Multi-Media Inspection (MM)
<input type="checkbox"/> Other:	<input type="checkbox"/> Announced	

Annual Compliance Certification Received: <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	Date Received:
AIMS Report Received: <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	Date Received:

Mark (X) All Activities That Apply:

<input type="checkbox"/> File Review	<input checked="" type="checkbox"/> Pre-Inspection Briefing	<input checked="" type="checkbox"/> Exit Interview/Briefing
<input checked="" type="checkbox"/> Pre-Inspection Observations	<input type="checkbox"/> Check For New/Unreported Sources	<input type="checkbox"/> Sample(s) Collected
<input type="checkbox"/> Visible Emissions Observations	<input type="checkbox"/> Verify Operation of CEMS	<input type="checkbox"/> Other

Comments/Recommendations:

Enforcement since last FCE ☐ Yes ☒ No (If yes, attach summary)

I performed a Routine Partial Inspection (RTPT) at Shell Chemical Facility in Potter Twp.

Today USEPA was performing a site inspection at Shell chemicals. I was on site to observe the AS EPA inspection.

A copy of the list of names of attendee is attached to this report.

Compliance Status: <input checked="" type="checkbox"/> In <input type="checkbox"/> Out <input type="checkbox"/> Pending <input type="checkbox"/> Awaiting Co. Report	Needs a Follow-Up Inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No
Company Representative: <u>Kimberly Kane</u> Title: <u>Env. manager</u>	Signature: <u>[Signature]</u> Date: <u>10/21/24</u>
DEP Representative: <u>Scott Beaudway</u> Title: <u>AQS</u>	Signature: <u>[Signature]</u> Date/Time: <u>10/21/24</u>

This document is official notification that a representative of the Department of Environmental Protection, Air Quality Program, inspected the identified site. The findings of this inspection are shown above and on any attached pages, and may include violations uncovered during the inspection. Violations may also be discovered upon review of sample results or from any additional review of Department records. Notification will be forthcoming, if such violations are noted.



INSPECTION REPORT

Continued

Commonwealth of Pennsylvania
Department of Environmental Protection
Air Quality Program

We began with introduction of Shell, US EPA, PA DEP and NEIC (Denver). EPA asked NEIC to inspect the facility.

Kim Kaal led a plant overview, including power generation, Ethane → Ethylene → polyethylene production. Kim used a slide presentation. A copy of the slider will be provided to US EPA, and DEP.

Planned schedule for the rest of the week is 8 AM - 4 PM. EPA did already submit a records request to Shell. Shell continued with an overview of the facility, sources and control devices.

Shell provided paper records and documents for EPA.

The facility wastewater streams were discussed in detail, including ECF, Wash Water System, Cracked Gas Compressor, PreCooling + Drying, ~~CX~~ separation, Acidline Redistillation, Caustic scrubbing and spent ~~caustic~~ Caustic oxidation.

I was on site from 0900 to 1600 hours today. I did not observe any visible, fugitive or malodor emissions during my inspection today.

Tomorrow the plan is morning discussion in the conference room and afternoon site inspection.

Company -- plant name:

Initials of representative interviewed:

Date:

Shell chemicals Petrochemical Complex

10/21/24.

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Name	Company	Department	Date
AARON SIGNAROVITZ	Shell	Env	10/21/24
Brianna Leiker	EPA - NEIC		
Zel Nabiyar	EPA - NEIC		10/21/24
Milica Lukowich	EPA - NEIC		10/21/24
John Roble	Shell	Process Eng	10/21/24
Garrett Brewer	Shell	Production	10/21/24
Cindy Schafer	EPA - NEIC		10/21/24
Laura Kanapkin	EPA - NEIC	Env. Engineer	10/21/24
Andrew Rippert	EPA - NEIC	Env. Engineer	10/21/24
Kimberly Kase	Shell Environmental	Env. Mgr.	10/21/24
Bruce Augustint	EPA R3	Inspector	10/21/24
Scott Beaudway	PA DEP AQ	AQS	10/21/24
Amanda Illar	PA DEP CW	Clean Water Ops	10/21/24
FRED MULLNER	SHELL	ENV. ENGINEER	10/21/24
Tim Smolan	PA DEP CW	CLEAN WATER OPS	10/21/24
Gina Batiz	Consultant (Shell)	Env.	10/21/24
Kimberly Coy	Consultant (Shell)	ENV	10/21/2024
Allison Gieda	EPA Region 3	Env. Engineer	10/21/24
Jason Schulte	Shell	ENV ENG	10/21/24
Dean DeLuca	EPA Region 3	Physical Scientist	10/21/2024
LISA LORENZ	Shell	ENV	10/21/24
Bonnie Yu	Shell	Tech Ser, Dev, Inn	10/21/24
STEVE CHANDLER	Shell	Tech Manager	10/21/24
Jennifer Huddleston	Shell	HSE	10/21/24
Wes Carls	SAEN	PERF NOW	10/21/24
JAMES HOWELL	SHELL	PRODUCTION MGR	10/21/24
JULIAN WHITE	SHELL	ENGINEERING MGR	10/21/24
Lauren Uffelman	Shell	ENV	10/21/24
Laura Sabolyh	Shell	ENV.	10/21/24
Jack Sherrick	Shell	Process Engineer	10/21/24
Alan Binder	Shell	ENV.	10/21/24
Shane Solinger	Shell	PEI	10/21/24
Adrian Valenzuela	Shell	PEI	10/21/24
Jan Palmer	Shell	PEI	10/21/24

10/21/2024 9:00 AM to 4:00 PM Source and Controls Status

031 Ethane Cracking Furnace 1 – Not Operating (Pilots only)
032 Ethane Cracking Furnace 2 –Operating
033 Ethane Cracking Furnace 3 –Operating
034 Ethane Cracking Furnace 4 –Operating
035 Ethane Cracking Furnace 5 –Operating
036 Ethane Cracking Furnace 6 –Operating (Decoke)
037 Ethane Cracking Furnace 7 –Operating

101 Cogen 1 CT + DB – Operating
102 Cogen 2 CT + DB – Operating
103 Cogen 3 CT + DB – Operating

104 Cogeneration Plant Cooling Tower - Operating
105 Diesel-Fired Emergency Generator Engines - Standby
106 Fire Pump Engines - Standby
107 Natural Gas Fired Emergency Generator Engines - Standby

201 Ethylene Manufacturing Line –Operating
202 Polyethylene Manufacturing Lines
 PE1 Not Operating
 PE2 Operating
 PE3 Operating
203 Process Cooling Tower - Operating
204 Low Pressure (LP) Header System –Operating LP Incinerator/ Operating the Multipoint Ground Flare
205 High Pressure (HP) Header System –Operating HP Ground Flare A and B, HP Elevated Flare on Standby
206 Spent Caustic Vent Header System –Operating

301 Polyethylene Pellet Material Storage/Handling/Loadout – Operating
302 Liquid Loadout (Recovered Oil) - Not Operating
303 Liquid Loadout (Pyrolysis Fuel Oil, Light Gasoline) –Not Operating
304 Liquid Loadout (C3+, Butene, Isopentane, Isobutane, C3+ Ref) –Operating
305 Liquid Loadout (Coke Residue/Tar) – Not Operating

401 Storage Tanks (Recovered Oil, Equalization Wastewater) - Operating
402 Storage Tank (Spent Caustic) - Operating
403 Storage Tanks (Light Gasoline) - Operating
404 Storage Tanks (Hexene) - Operating
405 Storage Tanks (Misc Pressurized/Refrigerated) - Operating
406 Storage Tanks (Diesel Fuel > 150 Gallons) - Operating
407 Storage Tanks (Pyrolysis Fuel Oil) - Operating
408 Storage Tanks (Diesel Fuel < 150 Gallons) - Operating
409 Methanol Storage Vessels and Associated Components -Operating

501 Equipment Components - Operating
502 Wastewater Treatment Plant - Operating
503 Plant Roadways - In Use

All Listed Controls Operating