


2700-FM-AQ0023 Rev. 1/2008 		INSPECTION REPORT		Commonwealth of Pennsylvania Department of Environmental Protection Air Quality Program	
Date(s) of Inspection: 4/12/23	TV <input type="checkbox"/> SM <input type="checkbox"/> NM <input type="checkbox"/>	PA <input type="checkbox"/> GP <input type="checkbox"/> MEGA <input checked="" type="checkbox"/>	Permit #(s): PA-04-00740A, B, C	Expiration Date:	Case #: 04-00740
Company Name: Shell Chemical Appalachia LLC			Municipality: Potter Township	County: Beaver	
Plant Name: SHELL CHEM APPALACHIA /PETROCHEMICALS COMPLEX			Physical Location: Route 18		Federal ID — Plant Code #: 46-1624986-1
Responsible Official: William Watson			Mailing Address: 300 Frankfort Road		
Title: General Manager			Monaca, PA 15061-2210		
Phone #(s): 724-709-2825					
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 checked="" 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 checked="" type="checkbox"/> N/A			Date Received:		
AIMS Report Received: <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A			Date Received:		
Mark (X) All Activities That Apply:					
<input type="checkbox"/>	File Review	<input type="checkbox"/>	Pre-Inspection Briefing	<input type="checkbox"/>	Exit Interview/Briefing
<input 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
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 checked="" type="checkbox"/> No SIC: 2821 NAICS: 221112 I inspected Beaver and Vanport downwind of the Shell Chemicals facility early afternoon today and did not observe any malodors. I observed the Shell Chemicals facility today from 1:17 PM to 1:47 PM. The weather was clear, dry and 78 degrees F. I was located across the river at the at the Dock 6 building. I did not observe any visible, fugitive or malodor emissions. I crossed the Route 376 bridge across the Ohio River and inspected Potter Township. I also observed the Shell Chemicals facility today from their Gate #3 from 2:00 PM to 2:40 PM. I did not observe any visible, fugitive or malodor emissions. I crossed the Route 376 bridge across the Ohio River and inspected Vanport and Beaver downwind of the Shell Chemicals facility mid-afternoon today and did not observe any malodors.					
Company Representative: MEMO TO FILE		Title: -----	Signature: -----	Date: -----	
DEP Representative: Scott Beaudway		Title: Air Quality Specialist	Signature: Scott Beaudway/SB	Date/Time: 4/12/23	
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.					

Shell Chemical Appalachia LLC, 04-00740

Shell Chemicals supplied the following additional information concerning their Malfunction on 4/11/23 and their current operational status:

We are working on more information to the odor root cause:

Odors were generated by hydrocarbons entering the biotreaters section of the wastewater treatment plant. Cause of the hydrocarbons entering the biotreaters was pumping the flow equalization and oil removal (FEOR) tank A to a low level in late morning to early afternoon of 4/11. Wastewater flow to the biotreaters was temporarily stopped and reduced, and level within FEOR A was raised with the addition of makeup water as the short term corrective action. Investigation is initiated into the root cause.

Notably on the Source and Controls Operating Status:

- All furnaces on pilots only, all production units are down and not operating, utilities remain operational for support.
- We had the LP Incinerator out of service for repairs to an expansion joint during this time period. Any vent gas was temporarily rerouted to the multipoint ground flare which is part of the LP Flare System. The incinerator was restored to service on 4/13 in the early morning.

I contacted Shell Chemicals to inform them of my observations and to request the list of operating sources and control devices. Shell Chemicals provided a list of sources and control devices in operation at the time of my observations.

Sources reported to be in operation during my site observation:

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

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 - Not Operating
202 Polyethylene Manufacturing Lines - PE1, PE2, PE3 Not Operating
203 Process Cooling Tower - Operating
204 Low Pressure (LP) Header System - Operating Multipoint Ground Flare (LP Incinerator temporarily out of service for maintenance and routing to multipoint ground flare)
205 High Pressure (HP) Header System - Operating HP Ground Flare A and B and HP Elevated Flare
206 Spent Caustic Vent Header System - Operating Spent Caustic Vent Incinerator

301 Polyethylene Pellet Material Storage/Handling/Loadout - Not 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) - Not 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 except LP Incinerator temporarily out of service for maintenance as noted above. The LP Incinerator was brought back to temperature and restored to service on 4/13 at ~3:00AM

Shell Chemical Appalachia LLC, 04-00740

Effective January 16, 2021, all air quality applications, Permits, Requests for Determinations and initial Asbestos Notifications will be subject to new and/or increased fees. The new fees and other PADEP Air Quality information can be found at: <https://www.dep.pa.gov/Business/Air/Pages/default.aspx>

As of July 29, 2021, the Source Testing Section has gone paperless. An individual Source Testing Section reviewer may request a hard copy from the facility or the consultant. Note that the section will continue to require electronic submissions of protocols and reports to the resource email account (ra-epstacktesting@pa.gov or by disk and snail mail when the file is over 35 MBs). Periodic Monitoring reports (generally three 20-minute test runs) shall only be submitted to the regional office.

As of November 10, 2021, there have been some changes to how the regional offices will accept electronic submission. OnBase submissions of protocols and reports will no longer be accepted for Source Testing.

SWRO: Any email submission to ra-epstacktesting@pa.gov should also be CC-ed to ra-epswstacktesting@pa.gov. Beyond that email cc, no further submission is necessary to DEP SWRO (i.e. no hard copy or disk needed for SWRO).