


2700-FM-AQ0023 Rev. 1/2008 		INSPECTION REPORT		Commonwealth of Pennsylvania Department of Environmental Protection Air Quality Program	
Date(s) of Inspection: 5/16/23	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		PF ID #: 775836
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 Monaca, Center Township and Potter Township downwind of the Shell Chemicals facility this morning and did not observe any malodors. I did not observe any track out or fugitive dust from Gate #1.					
I crossed the Route 376 bridge and I observed Shell Chemicals facility today from 9:20 AM to 11:00 AM. I was located across the Ohio River at the Dock 6 building. I did not observe any visible, fugitive or malodor emissions. The weather was clear, dry and 57 degrees F.					
I inspected Vanport and Beaver downwind of the Shell Chemicals facility late morning and did not observe any malodors.					
I was on Shell Chemical's property from Noon to 12:40 PM today. I did not observe any visible, fugitive or malodor emissions. I did not observe any track out or fugitive dust from Gate #1.					
Company Representative: MEMO TO FILE		Title: -----	Signature: -----	Date: -----	
DEP Representative: Scott Beudway		Title: Air Quality Specialist	Signature: Scott Beudway/SB	Date/Time: 5/16/23	
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.					

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Significant roadwork is ongoing on Route 18 along the Shell Chemicals facility. I did observe a wet street sweeper in operation on Route 18 today.

I met with Daniel Gallo, Shell Chemicals, and also spoke with Alan Binder, Shell Chemicals, today. We discussed the recent complaints. I suggested that the dust complaint may be from track out from the unpaved employee parking lot. I suggested the use of a street sweeper and water truck to control possible fugitive dust emissions. We discussed the Notices of Violations that I will be issuing shortly (one for malodors observed on 4/12/23, one for VE on 3/5/23 and one for VE on 4/5/23) We also discussed the sample ports for stack testing purposes on the ground enclosed flares (C205A & C205B). Alan Binder stated that the ground enclosed flares (C205A & C205B) do not have sample ports for stack testing purposes. Alan also followed up with an email to that effect. Alan stated that further questions on the issue can be directed to Kim Kaal and himself.

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. Shell Chemicals also submitted records (attached) of an analysis of the gas composition for the material being routed to the flare.

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 LP Incinerator and Multipoint Ground Flare
205 High Pressure (HP) Header System - Operating HP Ground Flare B, Not Operating Ground Flare A and HP Elevated Flare - Isolated for Maintenance per RFD 10196
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

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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 the HP Ground Flare A and HP Elevated Flare which are down for maintenance per RFD 10196

PADEP Policy Information

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).

HP Flare System GC Hourly Average Compositions

Date and Time	Elemental Hydrogen % mol	Nitrogen % mol	Methane % mol	Ethane % mol	Acetylene % mol	Ethylene % mol	C3 % mol	C4 % mol	C4 Olefins % mol	C5 % mol	C6+ % mol	Total % mol
16-May-23 09:00:00	0.02	38.82	58.35	2.71	0.00	0.00	0.08	0.01	0.00	0.00	0.00	100.00
16-May-23 10:00:00	0.03	38.74	58.39	2.75	0.00	0.00	0.08	0.01	0.00	0.00	0.00	100.00
16-May-23 11:00:00	0.03	38.40	58.71	2.76	0.00	0.00	0.09	0.01	0.00	0.00	0.00	100.00
16-May-23 12:00:00	0.03	38.25	58.84	2.74	0.00	0.01	0.12	0.01	0.00	0.00	0.00	100.00

HP Ground Flare A and HP Elevated Flare are down for maintenance per RFD 10196

