27	00-FM-AQ0023 Rev. 1/2008 pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION	INSPECTION REPORT				Commonwealth of Pennsylvania Department of Environmental Protection Air Quality Program				
	te(s) of Inspection: TV]	Permit #(s): PA-04-00740A, B, C	Expiratio	n Date:	Cas 04	e #: -00740	PF ID #: 775836		
	mpany Name: hell Chemical Appalachia LLC		Municipality: Potter Township			Cou Be	^{nty:} aver			
Sł /P	INT Name: HELL CHEM APPALACHIA ETROCHEMICALS COMPLEX		Physical Location: Route 18				eral ID — Plant Code # -1624986-1	:		
	sponsible Official: 'illiam Watson			Mailing A	rankfort Ro	ad				
Tit	e: eneral Manager			Mona	ca, PA 1506	31-2	210			
	one #(s): 24-709-2825									
M	ark (X) All Inspection Types Th	nat	Apply To This In	spectio	n:					
	Full Compliance Evaluation (FCE)		Plan Approval Inspection	on			File Review (FR)			
	Operating Permit Inspection (PI)		Initial Permit Inspection	n (IPI)			Complaint Inspection (CI)			
\boxtimes	Routine/Partial (RTPT)		Follow-Up Inspection (Ref. Date:)		Sample Collection	ample Collection (SC)		
	Minor Source(s) Inspection (RFD)		Stack Test Observation	n			Multi-Media Inspec	ction (MM)		
	Other:		Announced							
An	nual Compliance Certification Received:	ΥE	S □ NO ⊠ N/A		Date Received	l:				
ΑII	MS Report Received:	ΥE	S NO N/A		Date Received	l:				
M	ark (X) All Activities That Appl	y:								
	File Review		Pre-Inspection Briefing	าg			Exit Interview/Briefing			
	Pre-Inspection Observations	Pre-Inspection Observations					Sample(s) Collected			
	Visible Emissions Observations		Verify Operation of CE	MS			Other			
	ompliance Status: In Out C: 2821 NAICS	_	Pending A 221112	waiting C	o. Report N	Need	s a Follow-Up Inspe	ction? 🗌 Yes 🔀 No		
Ιi	nspected Industry, Vanport and I	Зеа	over this morning a	ınd did	not observe	any	/ malodors.			
by	observed the Shell Chemicals fac the Dock 6 building. I did not of eam from the Elevated Flare and	bse	rve any visible, fu	gitive o	malodor en	niss	ions today. I o	bserved only		
H	nspected Industry, Vanport and I	3ea	aver late morning to	oday ar	nd did not ob	oser	ve any malodol	rs.		
	mpany Representative: EMO TO FILE	Title	tle: Signature:					Date:		
	P Representative:	Title Air	tle: Signature: Scott Beau				ay/SB	Date/Time: 12/13/23		

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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eFacts Inspection ID#: 3658439 Date: 12/13/23 Reviewed By Kristin Folland

Shell Chemical Appalachia LLC, 04-00740

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:

Note that the plant (all of ECU and all of PE) was down during this time.

12/13/2023 9:30 AM to 10:45 AM Source and Controls Status

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031 Ethane Cracking Furnace 1 –Operating (Hot Steam Standby)
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- 032 Ethane Cracking Furnace 2 –Not Operating (Pilot)
- 033 Ethane Cracking Furnace 3 Operating (Hot Steam Standby)
- 034 Ethane Cracking Furnace 4 –Not Operating (No Pilots)
- 035 Ethane Cracking Furnace 5 Operating (Hot Steam Standby)
- 036 Ethane Cracking Furnace 6 –Not Operating (Pilot)
- 037 Ethane Cracking Furnace 7 –Not Operating (No Pilots)
- 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 Not Operating, PE2 Not Operating, PE3 Not Operating
- 203 Process Cooling Tower Operating
- 204 Low Pressure (LP) Header System Operating Multipoint Ground Flare and LP Incinerator
- 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 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

Shell Chemical Appalachia LLC, 04-00740

PADEP Policy Information

DEP is now accepting permit and authorization applications, as well as other documents and correspondence, electronically through the OnBase Electronic Forms Upload tool. Please use the link below to view the webpage, get instructions, and submit documents:

https://www.dep.pa.gov/DataandTools/Pages/Application-Form-Upload.aspx

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

Shell Polymers HP Flare System GC Hourly Average Compositions*

	Elemental	•		•		•		•				•
	Hydrogen	Nitrogen	Methane	Ethane	Acetylene	Ethylene	C3	C4	C4 Olefins	C5	C6+	Total
Date and Time	% mol	% mol	% mol	% mol	% mol	% mol	% mol	% mol	% mol	% mol	% mol	% mol
13-Dec-23 09:00:00	0.06	8.97	84.84	4.85	0.00	1.01	0.21	0.04	0.00	0.00	0.01	100.00
13-Dec-23 10:00:00	0.06	8.99	84.81	4.99	0.00	0.89	0.21	0.04	0.00	0.00	0.01	100.00

Shell Polymers LP System Thermal Oxidizer GC Hourly Average Compositions*

	Elemental											
	Hydrogen	Nitrogen	Methane	Ethane	Acetylene	Ethylene	C3	C4	C4 Olefins	C5	C6+	Total
Date and Time	% mol	% mol	% mol	% mol	% mol	% mol	% mol	% mol	% mol	% mol	% mol	% mol
13-Dec-23 09:00:00	0.03	11.86	83.04	4.81	0.00	0.00	0.19	0.05	0.00	0.01	0.01	100.00
13-Dec-23 10:00:00	0.03	11.50	83.17	5.04	0.00	0.00	0.20	0.05	0.00	0.01	0.01	100.00

Shell Polymers LP System Multipoint Ground Flare PE1/2 Episodic Vent Header*

	Elemental											
	Hydrogen	Nitrogen	Methane	Ethane	Acetylene	Ethylene	C3	C4	C4 Olefins	C5	C6+	Total
Date and Time	% mol	% mol	% mol	% mol	% mol	% mol	% mol	% mol	% mol	% mol	% mol	% mol
13-Dec-23 09:00:00	0.03	22.89	72.74	4.13	0.00	0.00	0.17	0.04	0.00	0.00	0.00	100.00
13-Dec-23 10:00:00	0.03	23.15	72.33	4.27	0.00	0.00	0.17	0.04	0.00	0.00	0.00	100.00

^{*} All data still subject to final QC for purposes of emissions inventory calculations and submittals