27	00-FM-AQ0023 Rev. 1/2008 Pennsylvania Department of ENVIRONMENTAL PROTECTION						Commonwealth of Pennsylvania Department of Environmental Protection Air Quality Program			
	ate(s) of Inspection: TV □ PA □ 0/18/23 SM □ GP □ NM □ MEGA □		Permit #(s): PA-04-00740A, B, C	Expiratio	n Date:	Cas 04	e #: -00740	PF ID #: 775836		
	<sup>ompany Name:</sup> hell Chemical Appalachia LLC		Municipality: Potter Township				nty: aver			
SI /P	ant Name: HELL CHEM APPALACHIA PETROCHEMICALS COMPLEX		Physical Location: Route 18				eral ID — Plant Code ; -1624986-1	<b>#</b> :		
	esponsible Official: /illiam Watson			Mailing A 300 F	rankfort Ro	ad				
	tte: ieneral Manager			Mona	ca, PA 1506	61-2	210			
	none #(s): 24-709-2825									
N	lark (X) All Inspection Types T	nat	Apply To This In	spectio	on:					
	Full Compliance Evaluation (FCE)		Plan Approval Inspecti	on			File Review (FR)			
	Operating Permit Inspection (PI)		Initial Permit Inspection	n (IPI)		$\square$	Complaint Inspect	ion (CI)		
$\boxtimes$	Routine/Partial (RTPT)		Follow-Up Inspection (	Ref. Date:	)		Sample Collection (SC)			
	Minor Source(s) Inspection (RFD)	Image: Section (Ref. Date:)     Image: Section (SC)								
Other:     Image: Contract of the second secon										
Annual Compliance Certification Received: YES NO X N/A Date Received:										
AI	MS Report Received:	YE	S 🗌 NO 🗌 N/A		Date Received	d:				
N	lark (X) All Activities That Appl	y:			L					
	File Review		Pre-Inspection Briefing	I			Exit Interview/Brie	fing		
	Pre-Inspection Observations						Sample(s) Collect	ed		
	Visible Emissions Observations	Verify Operation of CE	MS			Other				
	ompliance Status: In O		-	waiting C	o. Report	Need	s a Follow-Up Insp	ection? 🗌 Yes 🛛 No		
5	IC: 2821 NAIC	5: Z	21112							
I	inspected Beaver, Vanport and F	otte	er Township this m	norning	and did not	obs	erve any malo	dors.		
	observed the Shell Chemicals fa	-ility	today from 8:45	AM to 1	0·45 AM	was	located at Gat	te #3 of the Shell		
	hemicals facility. I did not observed	-	· · · · · · · · · · · · · · · · · · ·							
fr	om the Elevated Flare and Cooli	ng T	Towers. The weat	her was	s overcast, o	dry a	and 49 degrees	s F.		
I	inspected Potter Township and C	ent	ter Township this r	norning	and did no	t ob	serve any malo	odors.		
Co	ompany Representative:	Title	9:		Signature:			Date:		
N	IEMO TO FILE									
	EP Representative:	Title			Signature:			Date/Time:		
Scott BeaudwayAir Quality SpecialistScott Beaudway/SB10/18/2								10/18/23		
ins	is document is official notification that a representa spection are shown above and on any attached pag sults or from any additional review of Department re	es, ar	nd may include violations unc	overed dur	ing the inspection.	Violat ed.	ions may also be disco	vered upon review of sample		
			n ID#: <b>3630954</b>	Date: 1	0/18/23 Re	viewe	ed By Krustin	Godkard		

## 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: Shell Chemical Appalachia LLC, 04-00740

10/18/2023 8:45 AM to 10:45 AM Source and Controls Status

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 (No Pilots)
034 Ethane Cracking Furnace 4- Operating (Hot Steam Standby)
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 - Not 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 LP Incinerator and 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 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) - 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</li>
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

# **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: <u>https://www.dep.pa.gov/Business/Air/Pages/default.aspx</u>

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>ra-epstacktesting@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
18-Oct-23 08:00:00	0.18	21.07	73.89	3.32	0.00	1.26	0.07	0.19	0.00	0.00	0.02	100.00
18-Oct-23 09:00:00	0.16	14.63	80.18	3.53	0.00	1.25	0.07	0.17	0.00	0.00	0.01	100.00
18-Oct-23 10:00:00	0.21	9.02	81.42	5.35	0.01	3.09	0.74	0.14	0.02	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
18-Oct-23 08:00:00	0.01	74.02	24.87	0.99	0.00	0.00	0.02	0.00	0.07	0.00	0.02	100.00
18-Oct-23 09:00:00	0.01	74.25	24.59	0.96	0.00	0.00	0.02	0.01	0.07	0.00	0.09	100.00
18-Oct-23 10:00:00	0.01	76.18	22.66	0.88	0.00	0.00	0.02	0.00	0.07	0.00	0.18	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
18-Oct-23 08:00:00	0.04	6.79	89.29	3.80	0.00	0.00	0.07	0.01	0.00	0.00	0.00	100.00
18-Oct-23 09:00:00	0.04	6.84	89.27	3.78	0.00	0.00	0.07	0.01	0.00	0.00	0.00	100.00
18-Oct-23 10:00:00	0.04	6.91	89.26	3.72	0.00	0.00	0.07	0.00	0.00	0.00	0.00	100.00

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