27	00-FM-AQ0023 Rev. 1/2008 pennsylvania department of environmental protection		INSPECTIO	N RE	PORT	D		of Pennsylvania onmental Protection y Program
	31/23 SM □ GP		Permit #(s): PA-04-00740A, B, C	Expiration	n Date:	Case 04	• #: -00740	PF ID #: 775836
	^{mpany Name:} hell Chemical Appalachia LLC		Municipality: Potter Township	1		Cou Be	^{nty:} aver	
Sł /P	nt Name: HELL CHEM APPALACHIA ETROCHEMICALS COMPLEX		Physical Location: Route 18				eral ID — Plant Code # - 1624986-1	<i>t</i> :
	sponsible Official: /illiam Watson			Mailing A 300 Fi	^{ddress:} ankfort Ro	ad		
Tit G	eneral Manager			Mona	ca, PA 1506	61-2	210	
	one #(s): 24-709-2825							
Μ	ark (X) All Inspection Types T	hat	Apply To This In	spectio	n:		1	
	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)		Stack Test Observation	n			Multi-Media Inspec	ction (MM)
	Other:		Announced					
An	nual Compliance Certification Received:] YE	s 🗌 no 🖾 n/a		Date Received	1:		
All	MS Report Received:] YE	S 🗌 NO 🗌 N/A		Date Received	d:		
Μ	ark (X) All Activities That App	ly:						
	File Review		Pre-Inspection Briefing]			Exit Interview/Brief	fing
	Pre-Inspection Observations		Check For New/Unrep	orted Sour	ces		Sample(s) Collecte	ed
	Visible Emissions Observations		Verify Operation of CE	MS			Other	
SI I i I c Cl fro		nid-o cility ve a ng	21112 day today and did y today from 1:00 l any visible, fugitive Fowers. The weat	PM to 2 or male her was	erve any ma :00 PM. I w odor emissions clear, dry a	alod vas l ons and	ocated at Gate today. I obser 74 degrees F.	#3 of the Shell ved only steam
	mpany Representative: EMO TO FILE	Titl	e:		Signature:			Date:
	P Representative:	Titl	a.		Signature:			Date/Time:
	cott Beaudway		⁻ Quality Specialist	t	Scott Beau	Idwa	ay/SB	8/31/23
ins	s document is official notification that a representation are shown above and on any attached pagults or from any additional review of Department review of	jes, ar	nd may include violations und	covered duri	ng the inspection.	Violat		

Page	1	of 3
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Date: 8/31/23 Reviewed By Kristin Holland

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:

8/31/2023 1:00 PM to 2:00 PM Source and Controls Status

031 Ethane Cracking Furnace 1 - Operating (Normal/Cracking)
032 Ethane Cracking Furnace 2 - Operating (Normal/Cracking)
033 Ethane Cracking Furnace 3 - Operating (Normal/Cracking)
034 Ethane Cracking Furnace 4 - Operating (Normal/Cracking)
035 Ethane Cracking Furnace 5 - Not Operating (Pilots Only)
036 Ethane Cracking Furnace 6 - Not Operating (No Pilots)
037 Ethane Cracking Furnace 7 - Not Operating (Hot Steam Standby)

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 – Stand by
107 Natural Gas Fired Emergency Generator Engines - Standby

201 Ethylene Manufacturing Line - Operating
202 Polyethylene Manufacturing Lines – PE1 Operating, PE2 Operating, PE3 Not Operating
203 Process Cooling Tower - Operating
204 Low Pressure (LP) Header System - LP Incinerator out of service during the inspection window due to shear pin
break; vent gas routed to the Multi Point Ground Flare (MPGF)
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 - Operating502 Wastewater Treatment Plant - Operating503 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).

	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
31-Aug-23 13:00:00	13.74	7.14	63.82	4.49	0.00	8.41	0.11	0.05	0.00	1.17	1.06	100

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
31-Aug-23 13:00:00	1.10	34.61	58.04	3.26	0.00	1.99	0.24	0.04	0.06	0.63	0.04	100

	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
31-Aug-23 13:00:00	0.05	19.46	75.98	4.08	0.00	0.00	0.13	0.04	0.00	0.24	0.03	100

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