27	00-FM-AQ0023 Rev. 1/2008						Commonwealth	of Pennsylvania	
	pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION		INSPECTIO	N RE	EPORT	D	onmental Protection Program		
	te(s) of Inspection: TV PA SM GP NM MEGA]	Permit #(s): PA-04-00740A, B, C	Expiration	on Date:	04-	• #: -00740	PF ID #: 775836	
	mpany Name: nell Chemical Appalachia LLC		Municipality: Potter Township			Cou Be	_{nty:} aver		
SH	nt Name: HELL CHEM APPALACHIA		Physical Location: Route 18				eral ID — Plant Code # -1624986-1	:	
Re	ETROCHEMICALS COMPLEX sponsible Official: illiam Watson			Mailing A	Address: rankfort Ro	ad			
Titl									
	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	spection	n:				
	Full Compliance Evaluation (FCE)		Plan Approval Inspecti	on			File Review (FR)		
	Operating Permit Inspection (PI)		Initial Permit Inspection	n (IPI)		\boxtimes	Complaint Inspection (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:	ΥE	S □ NO ⊠ N/A		Date Received	:			
AII	MS Report Received:	ΥE	S NO NA		Date Received	:			
M	ark (X) All Activities That Appl	y:							
	File Review		Pre-Inspection Briefing	ļ			Exit Interview/Brief	ing	
	Pre-Inspection Observations		Check For New/Unrepo	orted Sou	rces		Sample(s) Collecte	ed	
	Visible Emissions Observations		Verify Operation of CE	MS			Other		
	mpliance Status: In O	-		waiting C	o. Report N	leeds	s a Follow-Up Inspe	ection? 🗌 Yes 🔀 No	
	C: 2821 NAICS nspected Monaca, Center Towns		221112 o and Potter Towns	ship thi	s morning ar	nd d	lid not observe	anv malodors.	
	•			•				·	
	observed the Shell Chemicals fac nemicals facility. I did not observ								
	om the Elevated Flare and Coolir								
1 11	nspected Industry, Vanport and I	Dea	aver mid-day today	and di	a not observ	e a	ny maiodors.		
	bserved the Shell Chemicals fac								
	e Dock 6 building. I did not obse om the Elevated Flare and Coolir								
110	on the Lievated Flare and Oodin	ı	TOWOIS. THE WEAT	iici wa	b partiy sulli	.y, C	ny ana 1 0 acy		
Ca	mnony Ponrocontative:	T:41	٥٠		Cianotura			Data	
	mpany Representative: EMO TO FILE	Titl	u . 		Signature:			Date:	
	P Representative:	Title	e.		Signature:			Date/Time:	
	cott Beaudway		_{e.} r Quality Specialist	:	Scott Beau	dwa	ıy/SB	2/16/24	
Thi	s document is official notification that a representa							lied site. The findings of this	

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.

Page 1 of 3 eFacts Inspection ID#: 3713057 Date: 2/16/24 Reviewed By

Kristin Hodlard

Shell Chemical Appalachia LLC, 04-00740

501 Equipment Components - Operating502 Wastewater Treatment Plant - Operating

503 Plant Roadways - In Use

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: 02/16/2024 11:35 AM to 2:05 PM Source and Controls Status 031 Ethane Cracking Furnace 1 – Operating 032 Ethane Cracking Furnace 2 - Operating (Hot Steam Standby) 033 Ethane Cracking Furnace 3 - Operating 034 Ethane Cracking Furnace 4 – Operating 035 Ethane Cracking Furnace 5 – Operating 036 Ethane Cracking Furnace 6 - Operating (Hot Steam Standby) 037 Ethane Cracking Furnace 7 – Operating (Decoke) 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 –Operating 202 Polyethylene Manufacturing Lines -PE1 Operating PE2 Not Operating PE3 Not Operating 203 Process Cooling Tower - Operating 204 Low Pressure (LP) Header System - Operating LP Incinerator and Operating 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 301 Polyethylene Pellet Material Storage/Handling/Loadout - Operating 302 Liquid Loadout (Recovered Oil) - Not Operating 303 Liquid Loadout (Pyrolysis Fuel Oil, Light Gasoline) –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

Shell Chemical Appalachia LLC, 04-00740

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: 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
16-Feb-24 11:00:00	51.40	2.45	40.29	2.31	0.00	2.93	0.10	0.02	0.49	0.00	0.00	100.00
16-Feb-24 12:00:00	51.51	1.88	41.42	2.34	0.00	2.68	0.08	0.02	0.08	0.00	0.00	100.00
16-Feb-24 13:00:00	51.15	1.69	42.53	2.34	0.00	2.17	0.07	0.02	0.00	0.00	0.03	100.00
16-Feb-24 14:00:00	50.78	1.85	43.28	2.39	0.00	1.61	0.06	0.02	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
16-Feb-24 11:00:00	0.62	84.35	8.37	0.53	0.00	1.66	0.14	2.61	1.17	0.51	0.03	100.00
16-Feb-24 12:00:00	0.66	84.58	7.90	0.51	0.00	1.77	0.15	2.87	0.98	0.55	0.03	100.00
16-Feb-24 13:00:00	0.63	84.65	7.91	0.51	0.00	1.70	0.15	2.93	0.96	0.54	0.03	100.00
16-Feb-24 14:00:00	0.64	84.72	7.89	0.52	0.00	1.69	0.13	2.85	0.97	0.55	0.03	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
16-Feb-24 11:00:00	0.03	11.61	82.88	5.12	0.00	0.00	0.17	0.04	0.00	0.00	0.14	100.00
16-Feb-24 12:00:00	0.03	11.64	82.79	5.17	0.00	0.00	0.17	0.04	0.00	0.00	0.15	100.00
16-Feb-24 13:00:00	0.03	11.59	82.90	5.15	0.00	0.00	0.15	0.04	0.00	0.00	0.14	100.00
16-Feb-24 14:00:00	0.03	11.56	82.86	5.25	0.00	0.00	0.13	0.03	0.00	0.00	0.14	100.00

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