27	00-FM-AQ0023 Rev. 1/2008 pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION		INSPECTIO	N RE	PORT	Commonwealth of Pennsylvania Department of Environmental Protect Air Quality Program					
	e(s) of Inspection: TV]	Permit #(s): PA-04-00740A, B, C	Expiratio	n Date:	Case 04 -		PF ID #: 775836			
	mpany Name: nell Chemical Appalachia LLC		Municipality: Potter Township			Be Fede	eaver				
SH /Pl	nt Name: IELL CHEM APPALACHIA ETROCHEMICALS COMPLEX		Physical Location: Route 18								
W	sponsible Official: illiam Watson			Mailing A	address: rankfort Ro	ad					
	eneral Manager			Mona	ca, PA 1506	1-2	210				
	one #(s): 24-709-2825										
M	ark (X) All Inspection Types Th	nat	Apply To This Ins	spection	n:						
	Full Compliance Evaluation (FCE)		Plan Approval Inspection	on			File Review (FR)				
	Operating Permit Inspection (PI)		Initial Permit Inspection	ı (IPI)		\boxtimes	Complaint Inspection	n (CI)			
\boxtimes	Routine/Partial (RTPT)		Follow-Up Inspection (I	Ref. Date:)		Sample Collection (S	SC)			
	Minor Source(s) Inspection (RFD)		Stack Test Observation	า		Multi-Media Inspection (MM)					
	Other:		Announced								
An	nual Compliance Certification Received:	ΥE	S NO N/A		Date Received	:					
AII	AS Report Received:	ΥE	S NO NA		Date Received	:					
M	ark (X) All Activities That Appl	y:									
	File Review		Pre-Inspection Briefing	าg			Exit Interview/Briefing				
	Pre-Inspection Observations		Check For New/Unreported Sources				Sample(s) Collected				
	Visible Emissions Observations		Verify Operation of CE	erify Operation of CEMS			Other				
	mpliance Status: 🔲 In 🗌 Ou C: 2821 NAICS		☐ Pending ☐ A 221112	waiting C	Co. Report N	leeds	s a Follow-Up Inspec	tion? 🗌 Yes 🔀 No			
Li	nspected Beaver, Vanport and Ir	ndu	stry this morning a	nd did	not observe	any	malodors.				
at	observed the Shell Chemicals fact the Dock 6 building. I did not obtain the Elevated Flare and	se	rve any visible, fug	jitive or	malodor em	nissi	ons today. I obs	served only			
Li	nspected Industry, Vanport and I	Bea	aver mid-day today	and di	d not observ	e a	ny malodors.				
ob ob	contacted Shell Chemicals to info entrol devices. Shell Chemicals poservations. Shell Chemicals also aterial being routed to the flare.	oro	vided a list of sour	ces and	d control dev	ices	s in operation at	the time of my			
	mpany Representative: EMO TO FILE	Title	e:	·	Signature:			Date:			
	P Representative:	Title	_{e:} r Quality Specialist	Signature: Scott Beau	Signature: Scott Beaudway/SB						
Thi	ا s document is official notification that a representat	tive o	of the Department of Environm	nental Prot	ection, Air Quality F	Progra	ım, inspected the identifie	d 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 2 eFacts Inspection ID#: 3607170 Date: 8/29/23 Reviewed By

Shell Chemical Appalachia LLC, 04-00740

Sources reported to be in operation during my site observation:

8/29/2023 10:29 AM to 12:07 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 (Hot Steam Standby, transitioning to Feed In at the end of window)
- 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 Operating (Normal/Cracking; transitioning to Hot Steam Standby at end of window)
- 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- operating, PE3 down
- 203 Process Cooling Tower Operating
- 204 Low Pressure (LP) Header System Operating LP Incinerator and Multipoint Ground Flare (MPGF); Incinerator down starting at 11:26 AM due to shear pin break- all flow to the incinerator routed to the thermal oxidizer header of the 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 -Operating
- 302 Liquid Loadout (Recovered Oil) Not Operating
- 303 Liquid Loadout (Pyrolysis Fuel Oil, Light Gasoline) Operating for a portion of the inspection window
- 304 Liquid Loadout (C3+, Butene, Isopentane, Isobutane, C3+ Ref) Operating for a portion of the inspection window
- 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

All Listed Controls Operating

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
29-Aug-23 10:00:00	26.88	15.61	44.13	3.46	0.00	4.90	0.83	0.08	1.54	2.54	0.03	100
29-Aug-23 11:00:00	29.25	6.94	47.62	3.81	0.00	4.70	2.32	0.52	2.13	2.67	0.03	100
29-Aug-23 12:00:00	29.04	7.38	45.94	3.71	0.00	4.37	4.26	0.37	2.62	2.27	0.03	100
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1												

Shell Polymers LP System Thermal Oxidizer GC Hourly Average Compositions*

							<u> </u>					
	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
29-Aug-23 10:00:00	3.42	78.13	6.62	0.78	0.00	7.65	0.01	0.04	2.03	1.20	0.13	100
29-Aug-23 11:00:00	3.05	65.53	20.57	1.44	0.00	7.11	0.02	0.06	1.05	1.15	0.02	100
29-Aug-23 12:00:00	2.18	43.19	45.52	2.69	0.00	4.92	0.05	0.04	0.63	0.76	0.03	100
	Flow routed to MPGF Thermal Oxidizer header starting at 11:26 AM due to thermal oxidizer shear pin break											
		·			•			•				

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
29-Aug-23 10:00:00	0.04	11.97	83.53	4.35	0.00	0.00	0.10	0.02	0.00	0.00	0.00	100
29-Aug-23 11:00:00	0.03	12.20	83.20	4.45	0.00	0.00	0.10	0.02	0.00	0.00	0.00	100
29-Aug-23 12:00:00	0.03	13.12	82.25	4.49	0.00	0.00	0.09	0.02	0.00	0.00	0.00	100

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