27	00-FM-AQ0023 Rev			INSPECTION REPORT				Commonwealth of Pennsylvania Department of Environmental Protection			
	pennsy DEPARTMENT OF ENVI	VIVANIA		INSPECTIO	NKE	PURI		Air Quality			
	te(s) of Inspection: 0/3/23	TV PA SM GP MEGA]	Permit #(s): PA-04-00740A, B, C	Expiratio	n Date:	Case #: 04-00740		PF ID #: 775836		
	mpany Name: nell Chemical <i>A</i>	Appalachia LLC		Municipality: Potter Township				County: Beaver			
Sŀ	int Name: HELL CHEM APPA ETROCHEMICALS			Physical Location: Route 18			Federal ID — Plant Code #: 46-1624986-1				
Re	sponsible Official: /illiam Watson	-			Mailing A	^{ddress:} rankfort Ro	ad				
G	eneral Manage	r			Mona	ca, PA 1506	61-2	210			
	one #(s): 24-709-2825										
		ection Types Th	nat	Apply To This Ins	spectio	n:					
	Full Compliance Eva	aluation (FCE)		Plan Approval Inspection	on			File Review (FR)			
	Operating Permit Ins	spection (PI)		Initial Permit Inspection	ı (IPI)		\boxtimes	Complaint Inspecti	on (CI)		
\boxtimes	Routine/Partial (RTF	PT)		Follow-Up Inspection (I	Ref. Date:)		Sample Collection (SC)			
	Minor Source(s) Insp	pection (RFD)		Stack Test Observation	า			Multi-Media Inspection (MM)			
	Other:			Announced							
An	nual Compliance Cert	tification Received:	YE	S NO N/A		Date Received	d:				
All	MS Report Received:		YE	S NO N/A		Date Received	d:				
M	ark (X) All Acti	vities That Appl	y:								
	File Review			Pre-Inspection Briefing				Exit Interview/Briefing			
	Pre-Inspection Obse	ervations		Check For New/Unreported Sources				Sample(s) Collected			
	Visible Emissions O	bservations		Verify Operation of CE	MS			Other			
	mpliance Status: C: 2821	⊠ In □ Ou	_	☐ Pending ☐ A ^a 21112	waiting C	o. Report I	Needs	a Follow-Up Inspe	ection? 🗌 Yes 🗵 No		
Oi	0. 2021	NAIC	J. Z	21112							
	nspected Monadalodors.	ca, Center Towns	ship	and Potter Towns	ship ea	rly this morn	ing a	and did not ob	serve any		
"	alodors.										
			•	today from 8:00 A							
				iny visible, fugitive 「owers. The weat					red only steam		
								•			
П	nspected Mona	ca, Center Towns	snip	and Potter Towns	snip this	s morning ai	na a	id not observe	any maiodors.		
Со	mpany Representativ	re:	Title	e:	Signature:				Date:		
	EMO TO FILE								-		
DE	P Representative:		Title	e:		Signature:			Date/Time:		
S	cott Beaudway		Air	Quality Specialist		Scott Beau	dwa	y/SB	10/3/23		
Thi	s document is official no	tification that a represental	ive o	f the Department of Environr	mental Prote	ection, Air Quality I	Progra	m, inspected the identi	ied 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#: 3623745 Date: 10/3/23 Reviewed By

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

10/3/2023 8:00 AM to 10:00 AM Source and Controls Status

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031 Ethane Cracking Furnace 1 - Operating (Normal/Cracking)
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- 032 Ethane Cracking Furnace 2 Operating (Normal/Cracking)
- 033 Ethane Cracking Furnace 3 Operating (Hot Steam Standby)
- 034 Ethane Cracking Furnace 4 Operating (Normal/Cracking)
- 035 Ethane Cracking Furnace 5 Not Operating (No Pilots)
- 036 Ethane Cracking Furnace 6 Not Operating (No Pilots)
- 037 Ethane Cracking Furnace 7 Operating (Normal/Cracking)
- 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 PE2 Operating, PE1 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 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
- 409 Methanol Storage Vessels and Associated Components -Operating
- 501 Equipment Components Operating
- 502 Wastewater Treatment Plant Operating
- 503 Plant Roadways In Use

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+	Tota
Date and Time	% mol	% mol	% mol	% mol	% mol	% mol	% mol	% mol	% mol	% mol	% mol	% mol
03-Oct-23 08:00:00	44.07	9.75	39.54	2.96	0.00	3.62	0.06	0.01	0.00	0.00	0.00	100.00
03-Oct-23 09:00:00	44.55	8.68	39.98	3.11	0.00	3.62	0.06	0.00	0.00	0.00	0.00	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
03-Oct-23 08:00:00	6.47	75.24	2.09	0.84	0.00	13.76	0.00	0.06	0.11	1.26	0.15	100.00
03-Oct-23 09:00:00	6.25	76.03	2.09	0.83	0.00	13.27	0.00	0.06	0.11	1.23	0.13	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
03-Oct-23 08:00:00	0.03	9.36	85.24	5.21	0.00	0.00	0.13	0.02	0.00	0.00	0.00	100.00
03-Oct-23 09:00:00	0.04	6.41	87.65	5.76	0.00	0.00	0.13	0.01	0.00	0.00	0.00	100.00

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