2700-FM-AQ0023 Rev. 1/2008 pennsylvania DEPARTMENT OF EINTRONHERMA, PROTECTION		INSPECTION REPORT		Commonwealth of Pennsylvania Department of Environmental Protection Air Quality Program	
Date(s) of Inspection: TV PA SM GP NM MEGA	Permit #(s): PA-04-00740A	Expiration Date: 5/28/21	Case #: 04-00740	PF ID #: 775836	
Company Name: Shell Chemical Appalachia LLC	Municipality: Potter Township	Municipality: Potter Township		County: Beaver	
Plant Name:	Physical Location: Route 18		Federal ID — Plant Code #: 46-1624986-1		
Responsible Official: Jeff Krafve	,	Mailing Address: 4301 Dutch R			
Title: General Manager		Beaver, PA 15			
Phone #(s): 724-709-2411		2001011111			
Mark (X) All Inspection Types Th	at Apply To This In	spection:)	
Full Compliance Evaluation (FCE)	Plan Approval Inspect		File Review (F	R)	
Operating Permit Inspection (PI)	Initial Permit Inspectio	n (IPI)	Complaint Insp	pection (CI)	
Routine/Partial (RTPT)	Follow-Up Inspection (Ref. Date:	Sample Collection (SC)		
Minor Source(s) Inspection (RFD)	Stack Test Observation]	Multi-Media Ins	spection (MM)	
Other: ADMIN	Announced		· · · · · · · · · · · · · · · · · · ·		
Annual Compliance Certification Received: YE	S NO N/A	Date Recei	ved:		
AIMS Report Received: YES		Date Recei	ved:		
Mark (X) All Activities That Apply:				Annual of the second of the se	
File Review	Pre-Inspection Briefing		Exit Interview/B	riefing	
Pre-Inspection Observations	Check For New/Unreported Sources Sample(s) Collected				
Visible Emissions Observations	Verify Operation of CEMS Other				
Compliance Status: In Out SIC: 2821 NAICS: Today I performed an Administration Complex located in Beaver County. each source and control device and was provided by Mr. James Sewell, S	inspection of the SI The admin inspection	nell Chemical Ap on's intent was to	a Follow-Up Inspection ppalachia LLC Petro verify the construence tatus of the facility.	ochemical	
Currently, Shell's administrative office County. Shell is leasing this space u he Petrochemical Complex. Shell estimated that the Petrochemic	es for their asset teant estitute the completion of	am is located at a of the construction	on of the administra	Road, Beaver ative building at	
ompany Representative: Title:				3	
M. James Sewell	CSU ENLINUMENTALM Attorney-ib-Foot	6ignature:	1-70	Date: 11/27/19	
EP Representative: Title:	Quality Specialist	Signature:	- Beaulieres	Date/Time: 11/20/19	

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This document is official notification that a representative of the Department of Environmental Protection, Air Quality Program, inspected the identified site. The findings of
in the findings of the period and the period and the period of the period of the period of 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 penalment records. Notification will be enthanced during the inspection. Violations may also be discovered upon review of
and of any allegated pages, and find include violations uncovered during the inspection. Violations may also be discovered upon southing as
sample results or from any additional review of Department records. Notification will be forthcoming, if such violations during the inspection. Violations may also be discovered upon review of control records. Notification will be forthcoming, if such violations are noted
The sound of some any additional review of Department records, should callon will be forneoming, it such violations are noted

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, ago <u>r</u>	of 3	eFacts Inspection ID#: 2960869	Date: 11/20/19	Reviewed By	

Shell Chemical Appalachia LLC, Potter Township, 04-00740

The estimated start-up for the Water Treatment and Wastewater Treatment is mid-2020, followed by the Cogeneration area in 2020, and approximately one year afterward the completion of construction/initial production. Currently, there are ~7500 workers on site, between the day and night shift.

The Emergency Response Plan is essentially finished, although we need to finalize some specific information in the ERP for the administrative office phone numbers and secondary containment area final dimensions once construction is completed. The Incident Command Post is the site administrative office and several local offsite alternative locations (Hilton Garden Inn in Monaca, PA or The Willows in Industry, PA) have been identified.

The following is a list of all permitted sources at the facility and their current status:

Source ID	Source Name	Status
031	ETHANE CRACKING FURNACE #1	Construction has commenced
032	ETHANE CRACKING FURNACE #2	Construction has commenced
033	ETHANE CRACKING FURNACE #3	Construction has commenced
034	ETHANE CRACKING FURNACE #4	Construction has commenced
035	ETHANE CRACKING FURNACE #5	Construction has commenced
036	ETHANE CRACKING FURNACE #6	Construction has commenced
037	ETHANE CRACKING FURNACE #7	Construction has commenced
101	COMBUSTION TURBINE/DUCT BURNER UNIT #1	Construction has commenced
102	COMBUSTION TURBINE/DUCT BURNER UNIT #2	Construction has commenced
103	COMBUSTION TURBINE/DUCT BURNER UNIT #3	Construction has commenced
104	COGENERATION PLANT COOLING TOWER(S)	Construction has commenced
105	EMERGENCY GENERATOR ENGINES (4)	Engines will NOT be installed
106	FIRE PUMP ENGINES (3)	Construction has commenced, only 2 engines will be installed
201	ETHYLENE MANUFACTURING LINE	Construction has commenced
202	POLYETHYLENE MANUFACTURING LINES	Construction has commenced
203	PROCESS COOLING TOWER(S)	Construction has commenced
204	LOW PRESSURE (LP) HEADER SYSTEM	Construction has commenced
205	HIGH PRESSURE (HP) HEADER SYSTEM	Construction has commenced
206	SPENT CAUSTIC VENT HEADER SYSTEM	Construction has commenced
301	POLYETHYLENE PELLET MATERIAL STORAGE/HANDLING/LOADOUT	Construction has commenced
302	LIQUID LOADOUT (RECOVERED OIL)	Construction has commenced
303	LIQUID LOADOUT (PYROLYSIS FUEL OIL, LIGHT GASOLINE)	Construction has commenced

304	LIQUID LOADOUT (C3+)	Construction has commenced	
305	LIQUID LOADOUT (COKE RESIDUE/TAR)	Construction has commenced	
401	STORAGE TANKS (RECOVERED OIL, EQUALIZATION WASTEWATER)	Construction has commenced	
402	STORAGE TANK (SPENT CAUSTIC)	Construction has commenced	
403	STORAGE TANKS (LIGHT GASOLINE)	Construction has commenced	
404	STORAGE TANKS (HEXENE)	Construction has commenced	
405	STORAGE TANKS (MISC PRESSURIZED/REFRIGERATED)	Construction has commenced	
406	STORAGE TANKS (DIESEL FUEL)	Construction has commenced	
407	STORAGE TANKS (PYROLYSIS FUEL OIL)	Construction has commenced	
501	EQUIPMENT COMPONENTS	Construction has commenced	
502	WASTEWATER TREATMENT PLANT	Construction has commenced	
503	PLANT ROADWAYS	Roadways are currently unpaved	

Shell Chemical Appalachia LLC, Potter Township, 04-00740

Source ID	Source Name	Status
C031	SCR (ETHANE CRACKING FURNACE #1)	Construction has NOT commenced
C032	SCR (ETHANE CRACKING FURNACE #2)	Construction has NOT commenced
C033	SCR (ETHANE CRACKING FURNACE #3)	Construction has NOT commenced
C034	SCR (ETHANE CRACKING FURNACE #4)	Construction has NOT commenced
C035	SCR (ETHANE CRACKING FURNACE #5)	Construction has NOT commenced
C036	SCR (ETHANE CRACKING FURNACE #6)	Construction has NOT commenced
C037	SCR (ETHANE CRACKING FURNACE #7)	Construction has NOT commenced
C101	SCR (UNIT #1)	Construction has commenced (Catalyst has not been installed)
C101A	OXIDATION CATALYST (UNIT #1)	Construction has commenced (Catalyst has not been installed)
C102	SCR (UNIT #2)	Construction has commenced (Catalyst has not been installed)
C102A	OXIDATION CATALYST (UNIT #2)	Construction has commenced (Catalyst has not been installed)
C103	SCR (UNIT #3)	Construction has commenced (Catalyst has not been installed)
C103A	OXIDATION CATALYST (UNIT #3)	Construction has commenced (Catalyst has not been installed)
C104	DRIFT ELIMINATORS (COGEN COOLING TOWER)	Construction has commenced

C202	DADTICLU ATT FUTEDO (FE	
	PARTICULATE FILTERS (PE MFG)	Construction has commenced
C203	DRIFT ELIMINATORS (PROCESS COOLING TOWER)	Construction has commenced
C204	LP SYSTEM	Construction has commenced
C204A	LP INCINERATOR	Construction has commenced
C204B	LP MULTIPOINT GROUND FLARE (MPGF)	
C205	HP SYSTEM	Construction has commenced
C205A		Construction has commenced
	HP GROUND FLARE #1	Construction has commenced
C205B	HP GROUND FLARE #2	Construction has commenced
C205C	HP ELEVATED FLARE	Construction has commenced
C206	SPENT CAUSTIC VENT INCINERATOR	Construction has commenced
C301	FABRIC FILTERS (PE PELLET STORAGE/HANDLING/LOADOUT)	Construction has commenced (Filters have not been installed)
C406	CARBON CANISTERS (DIESEL STORAGE TANKS)	Construction has NOT commenced

The High Voltage Switch Gear Source construction has commenced. It is a potential source of SF6, Greenhouse Gas, emissions. Shell Chemical Appalachia LLC has entered into a consent order and agreement with PADEP on 11/11/19 regarding SF6. A start up notification for the high voltage SF6 equipment was sent to PADEP as required. High voltage equipment started to be energized beginning 11/12/19.

Fence line monitoring for the presence of fugitive emissions has begun. The passive monitoring equipment has been installed. Passive monitoring was started in mid-October to work out logistical items and begin to obtain background levels. There will be both continuous monitors and passive samplers on site.

The Plan Approval was extended on 5/17/19. The current Plan Approval will expire on 5/28/21.

The facility has received one dust complaint in May 2019. It was addressed by applying water to the area of the site where it was believed to be coming from. PA DEP received one dust complaint in July 2019. No fugitive emissions violations were observed. The complaint was closed.