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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------|
| 2700-FM-AQ0023 Rev. 1/2008<br>                                                                                                                                                                                                                                                                                                                                                                             |                                                                                           | <b>INSPECTION REPORT</b>                                                                               |                                               | Commonwealth of Pennsylvania<br>Department of Environmental Protection<br>Air Quality Program |                                                   |
| Date(s) of Inspection:<br><b>5/23/23</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                    | TV <input type="checkbox"/><br>SM <input type="checkbox"/><br>NM <input type="checkbox"/> | PA <input type="checkbox"/><br>GP <input type="checkbox"/><br>MEGA <input checked="" type="checkbox"/> | Permit #(s):<br><b>PA-04-00740A, B, C</b>     | Expiration Date:                                                                              | Case #:<br><b>04-00740</b>                        |
| Company Name:<br><b>Shell Chemical Appalachia LLC</b>                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                           |                                                                                                        | Municipality:<br><b>Potter Township</b>       | County:<br><b>Beaver</b>                                                                      |                                                   |
| Plant Name:<br><b>SHELL CHEM APPALACHIA<br/>/PETROCHEMICALS COMPLEX</b>                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                           |                                                                                                        | Physical Location:<br><b>Route 18</b>         |                                                                                               | Federal ID — Plant Code #:<br><b>46-1624986-1</b> |
| Responsible Official:<br><b>William Watson</b>                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                           |                                                                                                        | Mailing Address:<br><b>300 Frankfort Road</b> |                                                                                               |                                                   |
| Title:<br><b>General Manager</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                           |                                                                                                        | <b>Monaca, PA 15061-2210</b>                  |                                                                                               |                                                   |
| Phone #(s):<br><b>724-709-2825</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                           |                                                                                                        |                                               |                                                                                               |                                                   |
| <b>Mark (X) All Inspection Types That Apply To This Inspection:</b>                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                           |                                                                                                        |                                               |                                                                                               |                                                   |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Full Compliance Evaluation (FCE)                                                          | <input type="checkbox"/>                                                                               | Plan Approval Inspection                      | <input type="checkbox"/>                                                                      | File Review (FR)                                  |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Operating Permit Inspection (PI)                                                          | <input type="checkbox"/>                                                                               | Initial Permit Inspection (IPI)               | <input checked="" type="checkbox"/>                                                           | Complaint Inspection (CI)                         |
| <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Routine/Partial (RTPT)                                                                    | <input type="checkbox"/>                                                                               | Follow-Up Inspection (Ref. Date: _____)       | <input type="checkbox"/>                                                                      | Sample Collection (SC)                            |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Minor Source(s) Inspection (RFD)                                                          | <input type="checkbox"/>                                                                               | Stack Test Observation                        | <input type="checkbox"/>                                                                      | Multi-Media Inspection (MM)                       |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Other:                                                                                    | <input type="checkbox"/>                                                                               | Announced                                     |                                                                                               |                                                   |
| Annual Compliance Certification Received: <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A                                                                                                                                                                                                                                                                                                                                                  |                                                                                           |                                                                                                        | Date Received:                                |                                                                                               |                                                   |
| AIMS Report Received: <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A                                                                                                                                                                                                                                                                                                                                                                      |                                                                                           |                                                                                                        | Date Received:                                |                                                                                               |                                                   |
| <b>Mark (X) All Activities That Apply:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                           |                                                                                                        |                                               |                                                                                               |                                                   |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | File Review                                                                               | <input type="checkbox"/>                                                                               | Pre-Inspection Briefing                       | <input type="checkbox"/>                                                                      | Exit Interview/Briefing                           |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Pre-Inspection Observations                                                               | <input type="checkbox"/>                                                                               | Check For New/Unreported Sources              | <input type="checkbox"/>                                                                      | Sample(s) Collected                               |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Visible Emissions Observations                                                            | <input type="checkbox"/>                                                                               | Verify Operation of CEMS                      | <input type="checkbox"/>                                                                      | Other                                             |
| Compliance Status: <input checked="" type="checkbox"/> In <input type="checkbox"/> Out <input type="checkbox"/> Pending <input type="checkbox"/> Awaiting Co. Report Needs a Follow-Up Inspection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                      |                                                                                           |                                                                                                        |                                               |                                                                                               |                                                   |
| SIC: 2821 NAICS: 221112                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                           |                                                                                                        |                                               |                                                                                               |                                                   |
| I inspected Potter Township downwind of the Shell Chemicals facility this morning and did not observe any malodors. I did not observe any track out or fugitive dust from Gate #1. Significant roadwork is ongoing on Route 18 along the Shell Chemicals facility.                                                                                                                                                                                                                          |                                                                                           |                                                                                                        |                                               |                                                                                               |                                                   |
| I crossed the Route 376 bridge and I inspected Vanport downwind of the Shell Chemicals facility this morning and did not observe any malodors. I observed Shell Chemicals facility today from 10:45 AM to 12:00 PM. I was located across the Ohio River at the Dock 6 building. I did not observe any visible, fugitive or malodor emissions. The weather was clear, dry and 73 degrees F.                                                                                                  |                                                                                           |                                                                                                        |                                               |                                                                                               |                                                   |
| I inspected Vanport and Beaver downwind of the Shell Chemicals facility mid-day today and did not observe any malodors.                                                                                                                                                                                                                                                                                                                                                                     |                                                                                           |                                                                                                        |                                               |                                                                                               |                                                   |
| Company Representative:<br><b>MEMO TO FILE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                           | Title:<br>-----                                                                                        | Signature:<br>-----                           | Date:<br>-----                                                                                |                                                   |
| DEP Representative:<br><b>Scott Beaudway</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                           | Title:<br><b>Air Quality Specialist</b>                                                                | Signature:<br><b>Scott Beaudway/SB</b>        | Date/Time:<br><b>5/23/23</b>                                                                  |                                                   |
| 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. |                                                                                           |                                                                                                        |                                               |                                                                                               |                                                   |

## 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:

5/23/2023 10:45AM to 12:00PM Source and Controls Status

031 Ethane Cracking Furnace 1 - Not Operating (Pilots Only)  
032 Ethane Cracking Furnace 2 - Operating (Hot Steam Standby)  
033 Ethane Cracking Furnace 3 - Not Operating (Pilots Only)  
034 Ethane Cracking Furnace 4 - Not Operating (Pilots Only)  
035 Ethane Cracking Furnace 5 - Not Operating (Pilots Only)  
036 Ethane Cracking Furnace 6 - Not Operating (Pilots Only)  
037 Ethane Cracking Furnace 7 - 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 - Standby  
107 Natural Gas Fired Emergency Generator Engines - Standby

201 Ethylene Manufacturing Line - Not Operating (Preparing for Startup)  
202 Polyethylene Manufacturing Lines - PE1, PE2, PE3 Not Operating (Preparing for Startup)  
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 - 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 - Operating  
502 Wastewater Treatment Plant - Operating  
503 Plant Roadways - In Use

All Listed Controls Operating

## **PADEP Policy Information**

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 ([ra-epstacktesting@pa.gov](mailto:ra-epstacktesting@pa.gov)) 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 [ra-epstacktesting@pa.gov](mailto:ra-epstacktesting@pa.gov) should also be CC-ed to [ra-epswstacktesting@pa.gov](mailto:ra-epswstacktesting@pa.gov). Beyond that email cc, no further submission is necessary to DEP SWRO (i.e. no hard copy or disk needed for SWRO).

