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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>1/24/23</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 <b>Needs a Follow-Up Inspection?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>SIC: 2821 NAICS: 221112  |   |  |   |   |   |
| I inspected Beaver and Vanport downwind of the Shell Chemicals facility late morning today and did not observe any malodors.  |   |  |   |   |   |
| I observed Shell Chemicals Appalachia LLC's facility today from 11:05 AM to 12:05 PM. I was located across the Ohio River near the Old Lock and Dam 6 Building. I did not observe any visible, fugitive or malodor emissions today. The weather was overcast, with flurries and 33 degrees F.   |   |  |   |   |   |
| I crossed the Rt 376 bridge and inspected Monaca and Center Township 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>1/24/23</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 her 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.

### Sources reported to be in operation during my site observation:

- 031 Ethane Cracking Furnace 1 - Operating Cracking
- 032 Ethane Cracking Furnace 2 - Not Operating (Pilots Only)
- 033 Ethane Cracking Furnace 3 - Operating Cracking
- 034 Ethane Cracking Furnace 4 - Operating Cracking
- 035 Ethane Cracking Furnace 5 - Operating Cracking
- 036 Ethane Cracking Furnace 6 - Operating Cracking
- 037 Ethane Cracking Furnace 7 - Not Operating (Pilots Only)
  
- 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 - Operating, 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 (Not Elevated Flare)
- 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) - Butene Load In and C3+ Load Out
- 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) - Not 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

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).