



Shell Chemical Appalachia LLC
300 Frankfort Rd
Monaca, PA 15061

April 20, 2022

Mark Gorog P.E., Regional Manager Air Quality
Program Pennsylvania Department of Environmental
Protection Southwest Regional Office
400 Waterfront Drive
Pittsburgh, PA 15222

**RE: PA-04-00740C Source ID 102 Combustion Turbine/Duct Burner Unit #2 NOx
Emissions Malfunction Report, April 18, 2022**

Dear Mr. Gorog,

Shell Chemical Appalachia LLC (“Shell”) is submitting this incident report to the Pennsylvania Department of Environmental Protection (PADEP).

- **Name and location of the facility**
Shell Polymers Monaca
300 Frankfort Road, Monaca PA, 15061
- **Nature and cause of the incident**
On April 18 at ~4:00 AM a low flow alarm activated on the Unit #2 Selective Catalytic Reduction (SCR) skid blower air and tripped the SCR heaters off. The standby blower activated but was not able to correct the low flow. The low flow alarm then tripped the ammonia and supply air valves closed which interrupted the ammonia injection. This resulted in one block-hour average of elevated NOx emissions (above 2 ppmvd @ 15% O2).

Cogen Unit #2 was taken offline within 30 minutes after the low flow alarm. The blower has been inspected and a faulty flow transmitter has been identified. Corrective action includes replacement of the faulty transmitter prior to restarting the unit.
- **Time when the incident was first observed, and duration of excess emissions**
April 18, 2022 at ~ 4:00 AM 1 hour (Unit #2)
- **Estimated rate of excess emissions**
04/18/22 Unit #2 – NOx rate of 13.45 ppmvd NOx @ 15% O2, and 8.7 lbs total excess emissions over 1 block hour.

If you have any questions regarding this matter, please contact me at (724) 709-2467 or kimberly.kaal@shell.com.

Sincerely,

Kimberly Kaal

Kimberly Kaal
Environmental Manager, Attorney-in-Fact

CC:
Scott Beudway, Air Quality Specialist
Anna Fabrizi, District Supervisor