



Shell Chemical Appalachia LLC
300 Frankfort Rd
Monaca, PA 15061

June 7, 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 #1 NOx
Emissions Malfunction Report, May 29, 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 May 29 at ~8:37 AM a low flow alarm activated on the Unit #1 “A” SCR skid blower air resulting in a switch to “B” SCR blower. Air flow did not return to within specification resulting in shutdown of the SCR ammonia injection system. This resulted in two block-hour averages of elevated NOx emissions (above 2 ppmvd @ 15% O2).

Cogen Unit #1 was taken offline within ~30 minutes after the low flow alarm. The blower system has been inspected and foreign material from the internal muffler was found lodged at the common discharge header causing low flow from both blowers. Foreign material has been removed and Cogen Unit #1 restarted using “B” SCR skid blower air. Corrective action includes ordering and installing replacement filter kits for all six SCR skid air blowers across all Cogen Units. Replacements have been ordered.

- **Time when the incident was first observed, and duration of excess emissions**

May 29, 2022 at ~ 8:37 AM 2 block hours, 33 total minutes (Unit #1)

- **Estimated rate of excess emissions**

05/29/22 Unit #1 – NOx rates of 4.55 and 14.35 ppmvd NOx @ 15% O2, and 7.9 lbs total excess emissions over 2 block hours.

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 Beaudway, Air Quality Specialist
Anna Fabrizi, District Supervisor