Chemours - Fayetteville Works
Draft Air Permit Modification to Reduce PFAS Emissions

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Permitting Section
Chemours Air Quality Permit Application to Install Thermal Oxidizer/Scrubber System

- Project Background
- Permit Requirements
- Compliance Methods: Testing, Monitoring, Recordkeeping, Reporting
- Timeline
Project Background

April 2018
- DAQ Notification
- Chemours commitment to 99% reduction of GenX emissions from baseline

July 2018
- At DAQ request, Chemours submittal of Permit Application to incorporate 99 percent reduction of GenX emissions

November 2018
- Proposed Consent Order signed to formalize the April 27th commitment to reduce air emissions

January 2019
- Permit drafted to incorporate proposed consent order
- Public Comment Period Begins for Draft Air Permit
**Draft Permit Requirements**

**GenX Facility-wide Limit:**

23.027 pounds per year

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**Thermal Oxidizer/Scrubber System**

- 99.99% Emission Reduction of all PFAS, including GenX Compounds
- Replacing existing scrubbers

**Carbon Absorbers**

- Installed in May 2018
- Control Vinyl Ethers North indoor fugitive emissions and PPA process

**Enhanced Leak Detection and Repair**

- Designed to detect leaks sooner and at lower concentrations
- Increased inspection locations
- Replacement/improvement of components with low-E technology
Compliance Methods

• Initial Performance Tests
• Annual Performance Tests
• Inspection and Monitoring
• Calculation of facility-wide emissions
• Recordkeeping
• Reporting
• Onsite Inspections
Compliance Methods – Thermal Oxidizer/Scrubber System

Initial Emissions Testing
- Confirm system achieves 99.99% emission reduction
- Establish Operating Parameters

Continuous Compliance Monitoring
- **Oxidizer**: Firebox temperature and volumetric flowrate at the oxidizer inlet
- **Scrubber**: pH and flowrate of scrubbing liquid

Annual Emissions Testing
- Ensure proper operation of oxidizer and scrubber
- Establish/confirm operating parameters
Compliance Methods – Carbon Adsorbers

Quarterly Emissions Testing
• Required quarterly to determine carbon replacement schedule and operating parameters
• Establish post-control emissions

Continuous Monitoring
• Hours of operation or production rate or other DAQ-approved parameter

Annual Emissions Testing
• Ensures that carbon adsorbers continue to operate in compliance

Department of Environmental Quality
Enhanced Leak Detection and Repair

Approved Plan will address:

• Pressure Testing – 0.5 psig pressure drop; 30-min intervals
• Enhanced audial, visual, olfactory inspections
• Instrument monitoring
• Identification and tagging of additional LDAR components
• Enhanced area monitoring
• Replacement or improvement program for valves and connectors
Additional Compliance Requirements

• Shutdown and Malfunction Plan
  ➢ Thermal Oxidizer/Scrubber System and Carbon Adsorbers
  ➢ Approval from DAQ required
  ➢ Requires sources routed to control devices to be shut down if the control device malfunctions
  ➢ Establishes how Chemours will maintain the control devices to minimize malfunctions

• Recordkeeping
  ➢ All records necessary to determine compliance with emission limit
  ➢ Testing results
  ➢ Monitoring data
  ➢ Production data and hours of operation
  ➢ Inspections
  ➢ Malfunction events

• Onsite Inspections

• Reports
  ➢ Semiannual basis
  ➢ Ongoing requirement to disclose
Estimated Timeline

• Public Comment Period began January 18th
• Comment period closes on February 22nd.
• After this meeting we will be holding a Public Hearing on the Air Permit
• Hearing Officer’s Report due 30 days after the close of today’s hearing
• Director’s Final Permitting Action (i.e., issue or deny) – expected end of March/beginning of April
Contact Information

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More Information Available Online:  