Chemours Update – Division of Air Quality
North Carolina Department of Environmental Quality
March 12, 2020
Air Related Information

  - Consent order
  - Links to Air Permit
  - Links to all air emissions testing performed
DAQ Required Air Emissions Testing

- Air Emissions Testing or “Stack Testing” Target compound – C₃ Dimer Acid (GenX) Week of:
  - 1/8/18 – PPA & Vinyl Ethers (VE) North
  - 1/22/18 - PPA & VE North
  - 2/26/18 - PPA & VE South
  - 3/19/18 - VE North, Polymers, Semiworks
  - 4/3/18 – VE South & VE North for HFPO
  - 4/23/18 – VE North HFPO
  - 5/14/18 – Polymers for E1
  - 6/11/18 – PPA & VE North Carbon bed
  - 7/16/18 – PPA scrubber efficiency
    - VE North carbon bed & Scrubber
  - 7/23/18 – PPA scrubber & carbon bed efficiency
  - 8/20/18 – VE South & VE North
  - 11/12/18 – VE North
  - 12/3/18 – VE North
  - 1/7/19 – VE South, PPA & Semiworks
  - 1/14/19 – Polymers, VE North & Semiworks
  - 1/21/19 – Polymers
  - 1/28/19 – Semiworks
  - 4/14/19 – VEN & PPA – Scubber, Stack, Carbon Bed
  - 4/30/19 - PPA – Scubber, Stack, Carbon Bed
  - 5/22/19 – VES
  - 6/10/19 – Inlet control device testing VEN, PPA,
  - July 2019 – Carbon Bed Efficiency
  - September 2019 – Carbon Bed Efficiency

https://deq.nc.gov/news/key-issues/genx-investigation/air-quality-sampling
DAQ Required Chemours to Complete the Following Actions Through the Order

• **Control Technology Improvements:** All emissions from Vinyl Ethers North are routed through the Division Waste Gas Scrubber, then the Second Phase Scrubber, and then the Carbon adsorber.
  - **Second Phase Scrubber on Division Waste Gas Scrubber** - completed November 7, 2018.
    - **Test to demonstrate a Carbon Adsorber control efficiency of 93% for GenX**
DAQ Required Chemours to Complete the Following Actions Through the Order

• **Control Technology Improvements: Thermal Oxidizer**
  • By December 31, 2019, control all PFAS in process streams routed to the TO at an efficiency of 99.99%. Chemours must test and submit a report within 90 days.
    • **Thermal Oxidizer** - installed and operational on 12/27/19.
    • **Testing for the 99.99% control efficiency** - occurred in February 2020.
    • Test report is due by 3/30/20.
DAQ Required Chemours to Complete the Following Actions Through the Order

• Division of Air Quality staff has been on site for every test performed - during the week, on weekends, at night and on holidays
DAQ Required Chemours to Complete the Following Actions Through the Order

- **GenX Emissions Reduction Milestones:**
  - Between October 6, 2018 - October 5, 2019, an 82% reduction of GenX air emissions. The final report demonstrating compliance shall be due on or before December 5, 2019.
    - Chemours submitted the report on 11/20/19. Chemours reported an annual reduction of 88% from the 2017 baseline. The DAQ continues to review the report and the underlying data.

- December 31, 2018 - December 30, 2019 92% reduction of GenX air emissions. The final report demonstrating compliance shall be due on or before 2/28/20.
  - Chemours submitted the report on 1/21/20. Chemours reported an annual reduction of 92% from the 2017 baseline. The DAQ continues to review the report and the underlying data.
DAQ Required Chemours to Complete the Following Actions Through the Order

- **GenX Emissions Reduction Milestones:**
  - By December 31, 2019 and for each consecutive twelve-month period following that date, Chemours shall reduce Facility-wide annual air emissions of GenX Compounds by at least 99% through testing and reporting.
    - DAQ will continue to require testing and reporting into the future.
Questions?

Mike Abraczinskas, EIT, CPM
Director
NC Division of Air Quality
919-707-8447
Michael.Abraczinskas@ncdenr.gov

Michael Pjetraj, P.E.
Deputy Director
NC Division of Air Quality
919-707-8497
Michael.Pjetraj@ncdenr.gov