



Chemours Update – Division of Air Quality

North Carolina Department of Environmental Quality

March 12, 2020



Air Related Information

- <https://deq.nc.gov/news/key-issues/genx-investigation>
 - 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 – Scrubber, Stack, Carbon Bed
- 4/30/19 - PPA – Scrubber, 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.
 - **Vinyl Ethers North Carbon Adsorber Project** - completed December 26, 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

