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Governor

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Secretary

MICHAEL ABRACZINSKAS
Director



NORTH CAROLINA
Environmental Quality

August 19, 2019

Mr. Brian Long
Plant Manager
Chemours Company Fayetteville Works
22828 NC Highway 87 West
Fayetteville, NC 28306

SUBJECT: GenX Hourly Emissions Data Request
Air Quality Permit No. 03735T45
Chemours Company Fayetteville Works
Facility ID: 0900009, Fayetteville, Bladen County
Facility Classification: Title V

Dear Mr. Long:

The North Carolina Division of Air Quality (DAQ) has been measuring the concentrations of Gen-X resulting from wet and dry deposition at several sites around the Chemours Fayetteville Works Facility. To better understand the relationship between your air emissions and the measured deposition at the five nearfield fixed sites operated by the DAQ, we have been conducting air dispersion modeling for various periods of time in 2018 and 2019. To date we have used annual average source-specific emission rates in our analyses. To more accurately model emissions based on actual operations at your facility, we are requesting that you to provide us with hourly GenX emissions rate estimates for each source in the attached table for three specific weeks:

1. February 19-26, 2019
2. April 9-16, 2019
3. February 4-12, 2019.

In addition, please review the release parameters that we have used in our modeling analyses, provided in the attached tables, to verify their accuracy. Included in the table for point sources are exit velocities and release temperatures that were measured during stack testing, with the date of the stack test noted. Please review the information and provide us with the appropriate values to use for each of the weeks above.



North Carolina Department of Environmental Quality | Division of Air Quality

217 West Jones Street | 1641 Mail Service Center | Raleigh, North Carolina 27699-1641

919.707.8400

Brian Long, Chemours
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Please contact Tom Anderson at Tom.Anderson@ncdenr.gov or 919-707-8723 if you need further clarification.

Sincerely,



Michael A. Abraczinskas, Director

NC Division of Air Quality, NCDEQ

Cc: Tom Anderson, DAQ

Michael Pjetraj, DAQ



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Table 1. Point Source Parameters

Point Source ID	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Stack Height (ft)	Temp. (°F)	Exit Velocity (fps)	Stack Diameter (ft)	Stack Test Date
DIV/VE_N	698,294	3,857,943	45	85.0	89.3	68.1	3.0	16-Jan-19 17-Apr-19
					42.3	68.8		
					83.0	58.1		
PPA	697,657	3,858,173	45	85.0	73.1	107.0	1.6	10-Jun-19 17-Jan-19
					83.0	44.1		
					60.0	42.3		
VE_S	698,341	3,857,848	45	81.0	64.1	117.5	2.3	9-Jan-19 22-May-19
					78.3	23.1		
					90.3	21.9		
POLY	698,288	3,857,894	45	75.0	49.7	39.9	2.5	10-Jan-19 19-Jan-19
					57.5	34.3		
					57.7	34.3		
SEMI	698,287	3,858,078	45	27.8	65.9	34.7	2.3	7-Jan-19 30-Apr-19
					67.7	36.8		
					86.3	37.0		

Table 2. Volume Source Parameters

Volume Source ID	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Release Height (ft)	Initial Hor. Dimension (ft)	Initial Vert. Dimension (ft)
VE NF	698,295	3,857,929	45	15.0	6.9	13.9
VE SF	698,346	3,857,831	45	48.0	5.1	44.7
PPAF	697,653	3,858,140	45	10.4	11.5	9.7



