



H.F. Lee Energy Complex  
Duke Energy Progress  
1199 Black Jack Church Road  
Goldsboro, N.C. 27530

January 2, 2020

ELECTRONIC SUBMITTAL  
Linda Culpepper, Director  
North Carolina Division of Water Resources

Email Address: desocdata@ncdenr.gov

**Subject: Fourth Quarter 2019 SOC Monitoring Results  
Special Order by Consent EMC SOC WQ S18-006  
Duke Energy Progress, LLC  
H.F. Lee Energy Complex  
Goldsboro, North Carolina**

Dear Ms. Culpepper,

In accordance with the paragraph 2. c. 4) of the NC Environmental Management Commission Special Order by Consent, EMC SOC WQ S18-006, Duke Energy Progress, LLC is hereby submitting the results of monitoring for the Fourth Quarter of 2019.

If you have any questions or require further information, please contact Mr. Steve Cahoon at 919-546-7457.

*"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."*

Respectfully submitted,

Jeffery D. Hines  
General Manager  
H. F. Lee Energy Complex

ecc: Jeffery D. Hines  
Sharat Gollamudi  
Steve Cahoon  
Lorie Tollie

Duke Energy Carolinas, LLC - HF Lee Station  
 Special Order by Consent - SOC No. S18-006  
 Monitoring Report for 4th Quarter of 2019

SAMPLING LOCATION	Date Sampled	TSS*	Oil and Grease*	pH	Fluoride	Mercury	Barium	Zinc	Arsenic	Boron	Cadmium	Chromium	Copper	Thallium	Lead	Nickel	Selenium	Nitrate/Nitrite as N	Bromides	Sulfates	Chlorides	TDS	Total Hardness	Temperature	Conductivity
		-	-	-	-	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	-	-	-	-	-	Total	-	-
		mg/L	mg/L	SU	ug/L	ng/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	°C
S-03A	11/25/2019	5	< 5	7.4	280	0.821	261	< 5	24.1	1170	< 0.1	< 1	< 1	< 0.2	< 0.2	< 1	< 1	0.23	0.2	48	13	326	237	13	518
S-09	11/25/2019			7.6	780	< 0.5 **	146	< 5	4.48	3120	< 0.1	< 1	< 1	< 0.2	< 0.2	< 1	< 1	0.21	0.46	46	11	464	381	14	744
Upstream Neuse River	11/25/2019			7.2	120	6.5	35	8.3	< 1	< 50	< 0.1	1.17	1.75	< 0.2	1.37	1.4	< 1	0.36	< 0.1	13	19	106	31.5	11	160
Downstream Neuse River	11/25/2019			7.1	120	5.57	36	7.9	< 1	< 50	< 0.1	1.18	1.62	< 0.2	1.34	1.35	< 1	0.35	< 0.1	13	19	110	31.8	12	161
Downstream 2 Neuse River	11/25/2019			7.4	120	3.99	35	7.45	< 1	< 50	< 0.1	1.06	1.63	< 0.2	1.13	1.18	< 1	0.39	< 0.1	13	19	108	31.8	12	167
Upstream Half Mile Branch	11/25/2019			6.4	< 100	4.4	121	8.93	< 1	< 50	< 0.1	< 1	< 1	< 0.2	0.567	< 1	< 1	2	< 0.1	15	18	120	37.7	12	145

\*Annual Monitoring Only

\*\*Duplicate was gathered at this location and the respective values averaged

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		-	-	-	-	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	-	-	-	-	-	Total	-	-	
		mg/L	mg/L	SU	ug/L	ng/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	°C	umho/cm	
Downstream Half Mile Branch	11/25/2019	4.1	< 5	6.2	< 100	3.68	113	10.5	1.32	< 50	< 0.1	< 1	1.09	< 0.2	0.446	1.02	< 1	1.5	< 0.1	21	17	123	47.6	10	165		

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