



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

April 12, 2021

ELECTRONIC SUBMITTAL  
Daniel Smith, Director  
North Carolina Division of Water Resources

Email Address: desocdata@ncdenr.gov

**Subject: First Quarter 2021 SOC Monitoring Results  
Special Order by Consent EMC SOC WQ S18-006  
Duke Energy Progress, LLC  
H.F. Lee Energy Complex  
Goldsboro, North Carolina**

Mr. Smith,

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 **First Quarter** of 2021 for the H. F. Lee Energy Complex.

If you have any questions or require further information, please contact Joyce Dishmon at (336) 394-5524, or via email at Joyce.Dishmon@duke-energy.com.

*"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  
Joyce Dishmon

Duke Energy Carolinas, LLC - HF Lee Station  
 Special Order by Consent - SOC No. S18-006  
 Monitoring Report for 1st Quarter of 2021

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-09	3/23/2021	66	< 5	7	350	** 4.12	129	< 5	104	1400	< 0.1	< 1	< 1	< 0.2	0.543	1.12	< 1	0.06	0.23	16	9.5	257	164	17	392
Upstream Neuse River	3/23/2021	26	< 5	6.9	< 100	3.69	33	< 5	< 1	< 50	< 0.1	1.06	1.57	< 0.2	0.912	< 1	< 1	0.64	< 0.1	6.7	8.8	90	23.5	15	98
Downstream Neuse River	3/23/2021	16	< 5	7.1	< 100	3.65	32	< 5	< 1	< 50	< 0.1	1	1.42	< 0.2	0.737	1.05	< 1	0.55	< 0.1	6.3	8.7	75	23.3	15	107
Downstream 2 Neuse River	3/23/2021	19	< 5	6.9	< 100	3.68	32	< 5	< 1	< 50	< 0.1	< 1	1.52	< 0.2	0.827	< 1	< 1	0.59	< 0.1	6.5	8.7	82	23.1	15	101
Upstream Half Mile Branch	3/23/2021	7.4	< 5	6.2	< 100	4.08	80	6.49	< 1	< 50	< 0.1	< 1	< 1	< 0.2	0.826	1.26	< 1	1.7	< 0.1	4.8	9.7	123	20.7	16	87
S-03A	3/23/2021	15	< 5	7	150	2.54	157	< 5	91.9	598	< 0.1	< 1	< 1	< 0.2	0.432	< 1	< 1	0.09	0.11	18	8.9	190	123	16	301

\*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	3/23/2021	24	< 5	6.3	< 100	4.46	73	5.6	2.07	66	< 0.1	1.15	1.14	< 0.2	0.824	1.5	< 1	0.68	< 0.1	7.9	7.7	122	32.9	12	124	

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