



April 15, 2020

ELECTRONIC SUBMITTAL  
Mr. Danny Smith, Director  
North Carolina Division of Water Resources

Address: [desocdata@ncdenr.gov](mailto:desocdata@ncdenr.gov)

Subject: Duke Energy Progress, LLC  
Cape Fear Facility  
EMC SOC WQ S19-001

Dear Mr. Smith:

In accordance with paragraph 2.c.4 of the NC Environmental Management Commission Special Order of Consent, EMC SOC WQ S19-001, Duke Energy Progress, LLC is hereby submitting the monitoring results for the 1st quarter 2020.

If you have any questions, please contact Ms. Joyce Dishmon (336) 623-0238.

*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 fines and imprisonment for knowing violations*

Sincerely,

Issa J. Zarzar  
General Manager – East Region  
CCP Operations and Maintenance

Duke Energy Carolinas, LLC - Cape Fear Steam Station  
Special Order by Consent - SOC No. S19-001  
Monitoring Report for 1st Quarter of 2020

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
UT Cape Fear River #1	3/19/2020	59	< 5	6.6	< 100	14.4	82	13.4	1.28	74	< 0.1	3.22	4.77	< 0.2	3.11	3.11	< 1	0.64	0.12	15	9.5	97	28.3	20	114
UT Cape Fear River #2	3/19/2020	22	< 5	6.7	130	**1.01	16	< 5	< 1	822	< 0.1	< 1	< 1	< 0.2	< 0.2	1.39	< 1	0.02	0.51	130	15	297	155	20	449
Downstream Cape Fear River	3/19/2020	3.4	< 5	7.2	< 100	2.77	20	5.04	< 1	< 50	0.226	< 1	1.65	0.225	0.502	< 1	< 1	0.72	< 0.1	8.1	11	75	29.6	16	123
Upstream Haw River	3/19/2020	6.4	< 5	7.2	< 100	1.95	26	< 5	< 1	< 50	< 0.1	< 1	1.71	< 0.2	0.36	1.12	< 1	0.59	0.18	11	12	91	30.4	16	131
Upstream Deep River	3/19/2020	3.1	< 5	7.3	< 100	2.68	18	< 5	< 1	< 50	< 0.1	< 1	1.57	< 0.2	0.32	< 1	< 1	0.56	< 0.1	7.6	11	78	29	17	118
Upstream Shaddox Creek	3/19/2020	8.6	< 5	6.9	110	6.24	44	6.85	1.03	< 50	< 0.1	1.24	1.4	< 0.2	1.2	1.52	< 1	0.13	0.12	9.2	24	121	31.2	20	155

\*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	-	-
		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
Downstream Shaddox Creek	3/19/2020	9.3	< 5	7.1	< 100	4.71	34	< 5	< 1	< 50	< 0.1	1.03	1.69	< 0.2	0.626	1.31	< 1	0.67	0.16	12	15	110	33.5	16	148

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