



Cape Fear Steam Electric Plant
500 CP&L Road
Moncure, NC 27559

April 16, 2021

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

Address: 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 2021. Please note that the Oil and Grease (O&G) sample for Upstream Haw River was collected on 3/30/21.

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 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
UT Cape Fear River #1	3/23/2021	24	< 5	6.7	< 100	6.94	56	< 5	< 1	72	< 0.1	< 1	1.53	< 0.2	0.921	1.01	< 1	1.7	0.11	14	9.7	118	33.8	13	136
UT Cape Fear River #2	3/23/2021	3.9	< 5	6.6	< 200	1.37	23	< 5	< 1	664	< 0.1	< 1	< 1	< 0.2	< 0.2	1.56	< 1	0.07	0.44	110	17	271	132	13	383
Downstream Cape Fear River	3/23/2021	17	< 5	7.1	< 100	4.27	26	< 5	< 1	< 50	< 0.1	1.93	2.6	< 0.2	0.994	1.19	< 1	0.45	0.14	7	9.1	103	31	13	109
Upstream Haw River	3/23/2021	17	NA	6.8	< 100	** 3.97	27	< 5	< 1	< 50	< 0.1	1.74	2.39	< 0.2	0.999	1.21	< 1	0.41	0.15	7.6	9.9	118	32.3	13	117
Upstream Haw River	3/30/2021	NA	< 5	6.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	96
Upstream Deep River	3/23/2021	11	< 5	7	< 100	3.97	19	< 5	< 1	< 50	< 0.1	< 1	2.31	< 0.2	0.491	< 1	< 1	0.58	< 0.1	5.5	7.8	116	27.9	13	97
Upstream Shaddox Creek	3/23/2021	14	< 5	6.6	< 100	6.28	41	5.4	< 1	< 50	< 0.1	1.22	1.53	< 0.2	1.32	1.62	< 1	0.16	0.13	8.6	18	143	28.8	14	129

*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	umho/cm
Downstream Shaddox Creek	3/23/2021	16	< 5	6.3	< 100	6.2	37	6.18	< 1	< 50	< 0.1	1.71	2.13	< 0.2	1.23	1.9	< 1	0.31	0.13	12	14	114	33.9	14	130	

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