



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

June 22, 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 2nd quarter 2021.

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,

A handwritten signature in blue ink, appearing to read "Issa J. Zarzar".

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 2nd 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	6/9/2021			6.6	< 500	1.61	87	8.79	< 1	1270	< 0.1	< 1	< 2	< 0.2	0.539	2.74	< 1	0.04	0.96	130	56	399	135	21	643
UT Cape Fear River #2	6/9/2021			7.1	< 200	0.613	42	< 5	< 1	1060	< 0.1	< 1	< 2	< 0.2	< 0.2	1.78	< 1	0.22	0.68	130	22	337	179	25	503
Downstream Cape Fear River	6/9/2021			7.1	< 100	1.97	27	< 5	< 1	< 50	< 0.1	< 1	< 2	< 0.2	0.293	< 1	< 1	0.49	0.15	8.7	14	101	36.3	25	151
Upstream Haw River	6/9/2021			6.8	120	** 0.772	30	< 5	< 1	< 50	< 0.1	< 1	< 2	< 0.2	< 0.2	1.14	< 1	0.07	0.28	10	16	105	37.9	23	160
Upstream Deep River	6/9/2021			7.2	< 100	2.72	22	< 5	< 1	< 50	< 0.1	< 1	2.29	< 0.2	0.386	< 1	< 1	0.72	< 0.1	7	13	85	33.8	27	140
Upstream Shaddox Creek	6/9/2021			6.4	120	5.08	57	10	1.6	< 50	< 0.1	1.09	2.42	< 0.2	1.2	1.45	< 1	0.15	< 0.1	7.7	14	113	39.3	25	148

*Annual Monitoring Only

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

Duke Energy Carolinas, LLC - Cape Fear Steam Station
Special Order by Consent - SOC No. S19-001
Monitoring Report for 2nd 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	umho/cm
Downstream Shaddox Creek	6/9/2021			6.6	110	4.47	43	7.32	1.08	< 50	< 0.1	< 1	2.01	< 0.2	0.93	1.3	< 1	0.16	< 0.1	12	12	110	33.8	23	149	

*Annual Monitoring Only
**Duplicate was gathered at this location and the respective values averaged