



September 8, 2020

ELECTRONIC SUBMITTAL

S. Daniel Smith
North Carolina Division of Water Resources

Address: desocdata@ncdenr.gov

Subject: Duke Energy Carolinas, LLC
Buck Steam Station / Combined Cycle
EMC SOC WQ S18-004
3rd Quarter 2020 - Monitoring Data Results

Dear Mr. Smith:

In accordance with paragraph 2. e. 3) of the NC Environmental Management Commission Special Order by Consent, EMC SOC WQ S18-004, Duke Energy Carolinas, LLC is hereby submitting the monitoring results for the **3rd quarter of 2020**.

If you have any questions, please contact Mr. Steve Cahoon (919) 546-7457 or Dale Wooten (704) 630-3086.

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 "Kristopher C Eisenrieth", with a long horizontal line extending to the right.

Kristopher C Eisenrieth
General Manager
Buck Combined Cycle

Duke Energy Carolinas, LLC - Buck Steam Station
Special Order by Consent - SOC No. S18-004
Monitoring Report for 3rd 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
S-01	8/12/2020			6.7	110	0.912	162	< 5	< 1	193	< 0.1	< 1	< 1	< 0.2	< 0.2	< 1	< 1	0.09	< 0.1	12	17	160	75.8	24	235
S-04	8/12/2020			6.6	< 100	2.96	65	< 5	< 1	251	< 0.1	< 1	< 1	< 0.2	0.277	2.64	< 1	0.03	< 0.1	48	72	292	134	19	431
S-05	8/12/2020			6.6	100	1.02	42	< 5	< 1	631	< 0.1	< 1	< 1	< 0.2	< 0.2	< 1	< 1	0.12	< 0.1	66	16	222	108	24	324
S-08	8/12/2020			7	120	0.936	20	21.3	< 1	222	< 0.1	< 1	2.09	< 0.2	0.215	1.24	< 1	0.08	0.13	53	17	137	71.8	28	232
S-09	8/12/2020			7.1	200	4.34	52	10.6	< 1	900	< 0.1	4.09	8.24	< 0.2	1.71	9.48	< 1	0.48	0.42	48	16	239	147	21	347
Upstream Yadkin	8/12/2020			6.7	< 100	2.84	28	< 5	< 1	< 50	< 0.1	1.43	1.76	< 0.2	1.04	< 1	< 1	0.95	< 0.1	3.8	4.9	68	22.1	28	78

*Annual Monitoring Only

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

Duke Energy Carolinas, LLC - Buck Steam Station
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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	-	-	-	-	-	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 Yadkin	8/12/2020			6.7	< 100	2.64	27	< 5	< 1	< 50	< 0.1	1.21	1.76	< 0.2	1.05	< 1	< 1	0.89	< 0.1	3.8	4.8	76	22.3	29	78	
Instream S-01 S-04*	8/12/2020			8.6	< 100	1.16	24	< 5	4.27	< 50	< 0.1	< 1	1.23	< 0.2	0.49	< 1	< 1	< 0.01	< 0.1	2.4	4.7	59	23.8	34	79	
Instream S-05 S-14 S-15*	8/12/2020			8.3	< 100	** 1.20	28	< 5	5.64	< 50	< 0.1	< 1	1.12	< 0.2	0.663	< 1	< 1	0.01	< 0.1	2.7	5.6	64	27.1	32	83	

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