

April 14, 2020

ELECTRONIC SUBMITTAL

Mr. Daniel Smith, Director
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
1st 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 **1st quarter of 2020**. The annual monitoring requirements for TSS and Oil & Grease were also collected and analyzed in the first calendar quarter of 2020.

If you have any questions, please contact Mr. Robert Wylie (704) 382-4669 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,



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 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
S-01	2/27/2020	8.6	< 5	6.5	< 100	2.07	57	< 5	< 1	70	< 0.1	< 1	1.54	< 0.2	0.343	< 1	< 1	0.26	< 0.1	9.6	9.4	111	34.5	9	108
S-04	2/27/2020	21	< 5	6.6	< 100	2.93 **	64	< 5	< 1	236	< 0.1	1.04	1.05	< 0.2	0.367	2.99	< 1	0.03	< 0.1	49	66	302	135	15	389
S-05	2/27/2020	6.6	< 5	7	< 100	0.639	39	< 5	< 1	533	< 0.1	< 1	< 1	< 0.2	< 0.2	< 1	< 1	0.17	< 0.1	59	13	194	103	12	271
S-08	2/27/2020	96	< 5	7.6	130	5.99	44	55.8	< 1	215	< 0.1	4.06	10.7	< 0.2	2.41	3.64	< 1	0.41	0.16	62	18	173	88.6	10	233
S-09	2/27/2020	3	< 5	7.2	200	1.53	34	6.16	< 1	617	< 0.1	< 1	3.99	< 0.2	< 0.2	5.66	< 1	0.42	0.28	36	11	198	120	12	254
Upstream Yadkin	2/27/2020	17	< 5	7.3	< 100	2.11	34	< 5	< 1	< 50	< 0.1	2.25	1.75	< 0.2	0.924	< 1	< 1	1.2	< 0.1	4.8	5.2	87	24.9	10	30.3

*Annual Monitoring Only

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

Duke Energy Carolinas, LLC - Buck Steam Station
 Special Order by Consent - SOC No. S18-004
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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	-	-
		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 Yadkin	2/27/2020	14	< 5	7.3	< 100	2.66	33	< 5	< 1	< 50	< 0.1	1.96	1.74	< 0.2	0.878	< 1	< 1	1.2	< 0.1	4.7	5.2	81	24.6	10	72
Instream S-01 S-04*	2/27/2020	70	< 5	7.1	< 100	6.19	55	8.57	2.2	< 50	< 0.1	4.93	3.71	< 0.2	3	2.14	< 1	0.62	< 0.1	5.2	4	77	25.8	10	68
Instream S-05 S-14 S-15*	2/27/2020	52	< 5	7.1	< 100	5.25	55	7.71	2.65	61	< 0.1	4.37	3.28	< 0.2	2.42	1.82	< 1	0.42	< 0.1	7.9	5.8	88	32.6	11	83

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