

**December 7, 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

4th 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 **4th 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,

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 4th Quarter of 2020

SAMPLING LOCATION	Date Sampled	TSS*	Oil and Grease*	Hd	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		-
i		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	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	*c	umho/cm
Downstream Yadkin	10/21/2020			7.5	< 100	** 1.21	23	< 5	< 1	< 50	< 0.1	< 1	< 1	< 0.2	0.303	< 1	< 1	0.91	< 0.1	3.7	4.8	53	24.6	15	96
Instream S-01 S- 04*	10/21/2020			7.9	< 100	2.5	29	< 5	1.91	< 50	< 0.1	< 1	2.03	< 0.2	0.72	< 1	< 1	0.18	< 0.1	3.3	3.7	72	23.2	20	88
Instream S-05 S-14 S-15*	10/21/2020			7.4	< 100	2.42	35	< 5	2.36	< 50	< 0.1	1.12	2.1	< 0.2	0.779	< 1	< 1	0.2	< 0.1	4.7	5.1	73	28.4	20	101

## Duke Energy Carolinas, LLC - Buck Steam Station Special Order by Consent - SOC No. S18-004 Monitoring Report for 4th Quarter of 2020

SAMPLING LOCATION	Date Sampled	TSS*	Oil and Grease*	Нd	Fluoride	Mercury	Barium	Zinc	Arsenic	Boron	Cadmium	Chromium	Copper	Thallium	Lead	Nickel	Selenium	Nitrate/Nitrite as N	Bromides	Sulfates	Chlorides	ZOT	Total Hardness	Temperature	Conductivity
	]	-	-		-	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	-	-	-		-	Total		
	Ì	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	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	*c	umho/cm
S-01	10/21/2020		-	7.7	< 100	1.04	147	< 5	< 1	148	< 0.1	< 1	< 1	< 0.2	< 0.2	< 1	< 1	0.03	< 0.1	8.5	14	146	69.7	16	214
S-04	10/21/2020			7.1	< 100	3.53	64	< 5	< 1	247	< 0.1	< 1	< 1	< 0.2	0.357	2.81	< 1	0.03	< 0.1	47	72	260	141	16	420
S-05	10/21/2020			6.7	< 100	0.776	38	< 5	<1	619	< 0.1	< 1	< 1	< 0.2	< 0.2	< 1	< 1	0.11	< 0.1	65	15	193	111	17	304
S-08	10/21/2020			6.9	< 100	2.87	26	29.1	< 1	307	< 0.1	< 1	1.13	< 0.2	< 0.2	1.93	< 1	0.34	0.13	82	25	217	116	18	364
S-09	10/21/2020			6.9	200	1.28	37	< 5	< 1	769	< 0.1	< 1	3.12	< 0.2	< 0.2	6.98	< 1	0.52	0.36	46	15	225	143	17	349
Upstream Yadkin	10/21/2020			7.3	< 100	1.35	24	< 5	< 1	< 50	< 0.1	< 1	< 1	< 0.2	0.423	< 1	<1	0.91	< 0.1	3.8	4.8	60	24.1	15	95

<sup>\*\*</sup>Duplicate was gathered at this location and the respective values averaged