



Duke Energy Carolinas  
Belews Creek Steam Station  
3195 Pine Hall Road  
Belews Creek, NC 27009

April 30, 2021

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

Address: [desocdata@ncdenr.gov](mailto:desocdata@ncdenr.gov)

Subject: Duke Energy Carolinas, LLC  
Belews Creek Steam Station  
EMC SOC WQ S18-004

Dear Mr. Smith:

In accordance with paragraph 3.e.3) of the NC Environmental Management Commission Special Order of Consent, EMC SOC WQ S18-004, Duke Energy Carolinas, LLC is hereby submitting the monitoring results for the 1st quarter 2021.

If you have any questions, please contact Ms. Lori Tollie (336) 408-2591.

*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 that reads "Michael Lanning".

Michael Lanning  
General Manager III, Regulated Stations  
RRECC Belews Creek Steam Station

Duke Energy Carolinas, LLC - Belews Steam Station  
Special Order by Consent - SOC No. S18-004  
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
S-02	3/9/2021	< 2.5	< 5	6.9	< 200	2.37	237	< 5	< 1	452	0.152	< 1	< 1	< 0.2	< 0.2	5.32	< 1	0.06	1.2	3.5	77	202	89.8	11	275
S-06	3/9/2021	3.8	< 5	7.6	110	0.779	23	< 5	< 1	540	< 0.1	< 1	< 1	< 0.2	< 0.2	< 1	< 1	0.47	0.12	10	17	148	67.8	15	196
S-08	3/9/2021	14	< 5	7.2	< 100	0.64	46	< 5	< 1	76	< 0.1	< 1	< 1	< 0.2	< 0.2	< 1	3.26	0.29	< 0.1	7.5	17	124	28.7	14	117
S-09	3/9/2021	12	< 5	7.6	< 200	2.82	32	7.28	< 1	494	< 0.1	< 1	< 1	< 0.2	< 0.2	< 1	< 1	0.87	< 0.2	90	7.8	206	93.5	14	270
S-10	3/9/2021	9.1	< 5	6.7	< 500	4.93	184	< 5	< 1	5190	0.562	< 1	< 1	0.263	< 0.2	6.44	< 1	0.12	3	24	240	596	328	18	898
Upstream Dan River	3/9/2021	6.2	< 5	7.2	< 100	1.53	32	< 5	< 1	< 50	< 0.1	< 1	< 1	< 0.2	0.378	< 1	< 1	0.36	< 0.1	4.8	4.4	98	26.6	13	81

\*Annual Monitoring Only

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

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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 Dan River	3/9/2021	12	< 5	7.2	< 100	1.36	26	< 5	< 1	< 50	< 0.1	< 1	< 1	< 0.2	0.397	< 1	< 1	0.37	< 0.1	3.7	3.9	99	20.3	9	65
Instream Unnamed Tributary	3/9/2021	< 2.5	< 5	6.7	< 500	1.01	44	< 5	< 1	1380	< 0.1	< 1	< 1	< 0.2	< 0.2	1.11	< 1	0.05	0.89	12	72	223	107	13	306
Belews Lake Instream S-06	3/9/2021	< 2.5	< 5	7.9	< 100	** 0.649	17	< 5	< 1	< 50	< 0.1	< 1	< 1	< 0.2	< 0.2	< 1	< 1	0.31	< 0.1	5.4	5	85	23.7	13	77
Belews Lake Instream S-08 S-09	3/9/2021	< 2.5	< 5	7.6	< 100	0.695	17	< 5	< 1	< 50	< 0.1	< 1	2.26	< 0.2	< 0.2	< 1	< 1	0.23	< 0.1	5.5	5	81	23.6	20	80

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Sample Number	Description	Test	Parameter	Result	RDL	2B Limit	Permit Limit
2021006874	S-10	Dionex	Chloride	241	5	230	600
2021006874	S-10	ICP_TRM	Total Hardness (Ca and Mg)	328	0.05	100	600
2021006874	S-10	TDS	TDS	596	25	500	1200
2021006877	Instream Unnamed Tributary	ICP_TRM	Total Hardness (Ca and Mg)	107	0.05	100	800