



Duke Energy
Belews Creek Steam Station
3195 Pine Hall Road
Belews Creek, NC 27009
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December 12, 2018

ELECTRONIC SUBMITTAL

Ms. Linda Culpepper, Interim Director
North Carolina Division of Water Resources

Address: desocdata@ncdenr.gov

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

Dear Ms. Culpepper:

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 4th quarter 2018.

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 black ink, appearing to read "R. Anderson", written over a horizontal line.

Reginald D. Anderson
General Manager III, Regulated Stations
Belews Creek Steam Station
Power Generation Carolinas East

Duke Energy Carolinas, LLC - Belews Steam Station
Special Order by Consent - SOC No. S18-004
Monitoring Report for 4th Quarter of 2018

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	10/24/2018			6.3	< 200	0.591	332	7.98	< 1	543	0.289	< 1	< 1	< 0.2	< 0.2	11.1	< 1	0.06	2.1	0.49	120	320	127	14	418
S-06	10/24/2018			6.5	< 500	0.845**	58	9.97	< 1	2350	< 0.1	< 1	< 1	< 0.2	0.264	1.09	< 1	0.64	1.4	34	100	390	196	13	497
S-08	10/24/2018			6.2	< 100	0.526	49	< 5	< 1	93	< 0.1	< 1	< 1	< 0.2	< 0.2	< 1	4.13	0.41	< 0.1	11	19	110	30.8	14	141
S-09	10/24/2018			6.9	< 500	5.27	49	24.1	< 1	1280	0.372	< 1	< 1	< 0.2	0.483	3.88	2.18	1.7	< 0.5	250	10	430	234	13	565
S-10	10/24/2018			6.1	< 500	13.7	285	6.0	< 1	7470	1.12	< 1	< 1	0.367	< 0.2	12.4	< 1	0.16	5.3	20	380	1100	500	15	1250
Upstream Dan River	10/25/2018			7.3	< 100	1.82	29	< 5	< 1	< 50	< 0.1	< 1	< 1	< 0.2	0.354	< 1	< 1	0.39	< 0.1	4.9	4.6	84	26.6	9.2	96.4

*Annual Monitoring Only

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

Duke Energy Carolinas, LLC - Belews Steam Station
 Special Order by Consent - SOC No. S18-004
 Monitoring Report for 4th Quarter of 2018

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 Dan River	10/25/2018			7.3	< 100	1.53	22	< 5	< 1	< 50	< 0.1	< 1	< 1	< 0.2	< 0.2	< 1	< 1	0.38	< 0.1	3.7	4.6	64	23.2	9.5	78	
Instream Unnamed Tributary	10/24/2018			6.6	< 500	13.4	219	8.69	1	8660	0.558	< 1	< 1	0.456	< 0.2	10.5	< 1	0.11	5.3	92	380	1200	556	15	1340	
Belews Lake Instream S-06	10/24/2018			7.3	< 100	1.02	19	< 5	< 1	63	< 0.1	< 1	1.33	< 0.2	< 0.2	< 1	< 1	0.15	< 0.1	7.3	6.7	77	26.6	20	114	
Belews Lake Instream S-08 S-09	10/24/2018			7.3	100	1.2	20	< 5	< 1	62	< 0.1	< 1	1.54	< 0.2	< 0.2	< 1	< 1	0.09	< 0.1	7.3	6.6	80	27.5	22	113	

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