



Duke Energy
Belews Creek Steam Station
3195 Pine Hall Road
Belews Creek, NC 27009
(336) 445-0644 OFFICE
(336) 445-0423 FAX

March 31, 2020

ELECTRONIC SUBMITTAL

Mr. Danny Smith, 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 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 2020.

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,

Jeffrey A. Joyce on behalf of Reginald D. Anderson

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 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-02	3/9/2020	< 2.5	< 5	6.2	< 200	< 0.5	281	5.97	< 1	528	0.181	< 1	< 1	< 0.2	< 0.2	7.36	< 1	0.03	1.3	0.5	89	230	109	9	289
S-05***	1/0/1900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S-08	3/9/2020	3.2	< 5	6.5	< 100	0.525	49	< 5	< 1	93	< 0.1	< 1	< 1	< 0.2	< 0.2	< 1	3.98	0.29	< 0.1	8.3	17	112	29.8	15	127
S-09	3/9/2020	< 2.5	< 5	7.2	< 500	3.35	37	12.4	< 1	813	0.168	< 1	< 1	< 0.2	< 0.2	1.84	1.36	1.3	< 0.5	140	8.4	288	141	12	401
S-10	3/9/2020	< 2.5	< 5	6.3	< 500	13.8	273	5.3	< 1	7220	0.942	< 1	< 1	0.373	< 0.2	11.2	< 1	0.14	3.9	27	310	824	471	16	1090
Upstream Dan River	3/9/2020	4.2	< 5	7.2	< 100	1.99	28	< 5	< 1	< 50	< 0.1	< 1	< 1	< 0.2	0.295	< 1	< 1	0.35	< 0.1	4.7	4.5	84	24.8	9	81

*Annual Monitoring Only
**Duplicate was gathered at this location and the respective values averaged
***Sample not collected due to no flow

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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	3/9/2020	2.6	< 5	7.3	< 100	1.24	24	< 5	< 1	79	< 0.1	< 1	< 1	< 0.2	< 0.2	< 1	< 1	0.32	< 0.1	4.4	6.3	79	24.7	20	70
Instream Unnamed Tributary	3/9/2020	< 2.5	< 5	6.6	< 500	14.7	184	8.19	1.01	7600	0.414	< 1	< 1	0.329	< 0.2	9.59	< 1	0.12	3.7	81	290	922	505	14	1120
Belews Lake Instream S-06	3/9/2020	< 2.5	< 5	7.6	< 100	0.734**	18	< 5	< 1	54	< 0.1	< 1	1	< 0.2	< 0.2	< 1	< 1	0.19	< 0.1	6	5.4	70	24.8	11	80
Belews Lake Instream S-08 S-09	3/9/2020	< 2.5	< 5	7.2	140	0.737	18	< 5	< 1	51	< 0.1	< 1	1.32	< 0.2	< 0.2	< 1	< 1	0.19	< 0.1	6	5.5	76	24.8	15	81

*Annual Monitoring Only

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