



Duke Energy
Belews Creek Steam Station
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Belews Creek, NC 27009
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January 28, 2021

ELECTRONIC SUBMITTAL
Mr. Danny Smith, 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 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 fourth quarter 2020.

If you have any questions, please contact Ms. Lori Tollie (336) 854-4916.

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,

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

Duke Energy Carolinas, LLC - Belews 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*	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	11/17/2020			6.2	< 200	< 0.500	214	< 5	< 1	421	0.129	< 1	< 1	< 0.2	< 0.2	5.32	< 1	0.03	1.2	0.6	80	157	90.7	11	292
S-06	11/17/2020			6.4	100	1.12	29	5.44	< 1	646	< 0.1	1.05	1.01	< 0.2	0.429	< 1	< 1	0.74	0.14	10	18	170	76.6	10	229
S-08	11/17/2020			6.5	< 100	**< 0.500	44	< 5	< 1	72	< 0.1	< 1	< 1	< 0.2	< 0.2	< 1	3.24	0.38	< 0.1	7.7	16	97	25.7	14	115
S-09	11/17/2020			6.5	< 200	2.39	40	10.5	< 1	634	0.127	< 1	< 1	< 0.2	< 0.2	1.54	1.1	0.89	< 0.2	120	7.7	259	115	13	325
S-10	11/17/2020			6.1	< 500	10.7	201	< 5	< 1	5620	0.578	< 1	< 1	0.279	< 0.2	7.4	< 1	0.12	3.5	26	290	605	359	13	893
Upstream Dan River	11/17/2020			6.5	< 100	11.7	60	10.7	< 1	< 50	< 0.1	4.77	3.42	< 0.2	3.19	2.15	< 1	0.22	< 0.1	3.4	2.5	102	18.9	12	63

*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 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
Downstream Dan River	11/17/2020			6.6	< 100	7.67	47	7.36	< 1	< 50	< 0.1	3.52	3.04	< 0.2	2.18	1.58	< 1	0.28	< 0.1	3.3	2.6	85	17.6	12	66
Instream Unnamed Tributary	11/17/2020			6.5	< 500	0.971	52	< 5	< 1	1510	< 0.1	< 1	< 1	< 0.2	< 0.2	1.57	< 1	0.1	0.96	13	78	191	116	11	351
Belews Lake Instream S-06	11/17/2020			6.4	< 100	< 0.500	17	< 5	< 1	< 50	< 0.1	< 1	< 1	< 0.2	< 0.2	< 1	< 1	0.09	< 0.1	5.6	5.2	58	22.7	17	84
Belews Lake Instream S-08 S-09	11/17/2020			6.1	< 100	2.74	21	< 5	< 1	< 50	< 0.1	< 1	1.62	< 0.2	0.681	< 1	< 1	0.12	< 0.1	5.2	4.5	78	20.6	17	78

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Sample Number	Description	Test	Parameter	Result	RDL	2B Limit	Permit Limit
2020032536	S-09	ICP_TRM	Total Hardness (Ca and Mg)	115	0.05	100	500
2020032537	S-10	Dionex	Chloride	289	5	230	600
2020032537	S-10	ICP_TRM	Total Hardness (Ca and Mg)	359	0.05	100	600
2020032537	S-10	TDS	TDS	605	25	500	1200
2020032538	Upstream Dan River B_2_DRUPSOC	IMS_TRM	Lead (Pb) Low Level	3.19	0.2	3	
2020032540	Instream Unnamed Tributary	ICP_TRM	Total Hardness (Ca and Mg)	116	0.05	100	800