



Duke Energy
Marshall Steam Station
8329 East NC Hwy 150
Terrell, NC 28682
828-478-7700

Nov. 27, 2018

ELECTRONIC SUBMITTAL

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

Subject: Duke Energy Carolinas, LLC.
Marshall Steam Station
EMC SOC WQ S17-009
4nd Quarter 2018 - Monitoring Data Results

Dear Ms. Culpepper:

In accordance with paragraph 2. e. 3) of the NC Environmental Management Commission Special Order by Consent, EMC SOC WQ S17-009, Duke Energy Carolinas, LLC. (Duke) is hereby submitting the monitoring results for the 4th Quarter of 2018.

If you have any questions, please contact Brad Loveland (704) 609-5637.

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 "Rick Roper".

Rick Roper
General Manager III
Marshall Steam Station Manager

Duke Energy Carolinas, LLC - Marshall Steam Station
Special Order by Consent - SOC No. S17-009
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-01	10/31/2018			6.6	< 200	1.12**	107	< 5	< 1	1010	< 0.1	1.5	< 1	< 0.2	< 0.2	2.36	1.02	0.12	0.95	65	50	220	137	13	374
Instream Lake Norman Holdsclaw Creek Arm	10/31/2018			7.9	< 100	1.41	17	< 5	< 1	< 50	< 0.1	< 1	1.35	< 0.2	0.226	< 1	< 1	0.36	< 0.1	2.6	3	< 25	13.3	17	65
Upstream Catawba River Lake Norman	10/31/2018			7.3	< 100	0.89	15	< 5	< 1	< 50	< 0.1	< 1	1.94	< 0.2	< 0.2	< 1	< 1	0.32	< 0.1	3.1	3.9	< 25	14	19	48
Downstream Catawba River Lake Norman	10/31/2018			7.1	< 100	0.912	15	< 5	< 1	< 50	< 0.1	< 1	1.93	< 0.2	< 0.2	< 1	< 1	0.23	< 0.1	3.1	4	< 25	14.4	20	48
Downstream Catawba River Lake Norman 2	10/31/2018			7	< 100	0.929	16	< 5	< 1	< 50	< 0.1	< 1	2.03	< 0.2	< 0.2	< 1	< 1	0.25	< 0.1	3.1	3.8	34	14.4	19	48

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