

Enclosure 14 to  
LTR-RAC-20-94  
Date: December 18, 2020

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## Enclosure 14

Response to Request for Additional Information  
Monthly Discharge Monitoring Reports



Westinghouse Electric Company LLC  
Nuclear Fuel  
Columbia Fuel Site  
5801 Bluff Road  
Hopkins, South Carolina 29061  
USA

SC Department of Health & Environmental  
Control  
Bureau of Water  
ATTN: Compliance Assurance Division  
2600 Bull Street  
Columbia, South Carolina 29201

Direct tel: 803-647-1000  
Direct fax: 803-695-3964  
e-mail: [logsdocj@westinghouse.com](mailto:logsdocj@westinghouse.com)

Our ref: LTR-RAC-19-93

SC-DHEC NPDES DMR – October 2019

November 22, 2019

Dear Sirs and Madams:

RE: NPDES Permit #SC0001848

The enclosed Discharge Monitoring Report is submitted to fulfill the NPDES summary reporting requirements. This monthly summary covers the monitoring period from October 1, 2019, through October 31, 2019. All received sample results were within NPDES permit limits.

On October 2, 16, 23, and 30, the weekly total residual chlorine (TRC) sample results tested below the PQL of 0.05 mg/l and were therefore reported as zero. Chlorine is analyzed by the Westinghouse onsite chemical laboratory by SM 4500-CL G-2011.

On October 9, the monthly E. coli result tested below the PQL of 1 MPN/100 ml and was therefore reported as zero. E. coli is analyzed by Access Analytical according to SM 9223 B-2004.

If you have any questions regarding the enclosed reports, please contact Ms. Cynthia Logsdon, Environment Health & Safety, at (803) 647-3171.

Sincerely,

A handwritten signature in black ink, appearing to read 'Michael Annacone', written over a horizontal line.

WESTINGHOUSE ELECTRIC COMPANY  
Michael Annacone  
Vice President, Columbia Fuel Operations

NAME WESTINGHOUSE ELECTRIC COMPANY LLC  
 ADDRESS 5801 BLUFF ROAD, HOPKINS, SC 29061-9121

SC0001848			001 1		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2019	10	01	2019	10	31

MAJOR 79 CM FINAL LIMITS

DMR VALID: 07/01/2014 - 03/31/2018

FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA


NOTE: Read Instructions before completing this form.

LOCATION 5801 BLUFF RD

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
00300 LAB ID: 40561 Dissolved Oxygen MLOC=1	SAMPLE MEASUREMENT ***** *****	***** *****	***** *****	***** *****	7.6	***** *****	***** *****	MG/L	0	01/07	GR
	PERMIT REQUIREMENT ***** *****	***** *****	***** *****	***** *****	1.0 INST MIN	***** *****	***** *****			01/07	GR
00310 LAB ID: 10120 BOD - 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	13.6	22.9		***** *****	12.7	17.9	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	30 MO AVG	60 DAILY MX	LBS/ DAY	***** *****	REPORT MO AVG	REPORT DAILY MX			01/07	24
00400 LAB ID: 40561 pH Standard Units MLOC=P	SAMPLE MEASUREMENT ***** *****	***** *****	***** *****	***** *****	6.42	***** *****	8.47	SU	0	01/01	CN
	PERMIT REQUIREMENT ***** *****	***** *****	***** *****	***** *****	REPORT INST MIN	***** *****	REPORT INST MAX			01/01	CN
00530 LAB ID: 40561 Total Suspended Solids (TSS) MLOC=1	SAMPLE MEASUREMENT	7.7	9.1		***** *****	8.1	10.0	MG/L	0	01/07	24
	PERMIT REQUIREMENT	32 MO AVG	64 DAILY MX	LBS/ DAY	***** *****	REPORT MO AVG	REPORT DAILY MX			01/07	24
00610 LAB ID: 40561 Ammonia - Nitrogen Total as N MLOC=1	SAMPLE MEASUREMENT	2.83	7.67		***** *****	2.36	5.89	MG/L	0	01/07	24
	PERMIT REQUIREMENT	50 MO AVG	100 DAILY MX	LBS/ DAY	***** *****	REPORT MO AVG	REPORT DAILY MX			01/07	24
00665 LAB ID: 32010 Phosphorous, Total MLOC=1	SAMPLE MEASUREMENT ***** *****	***** *****	***** *****	***** *****	***** *****	1.2	1.2	MG/L	0	01/30	24
	PERMIT REQUIREMENT ***** *****	***** *****	***** *****	***** *****	***** *****	REPORT MO AVG	REPORT DAILY MX			01/30	24
50050 LAB ID: 40561 Flow in Conduit or Thru Treatment Plant MLOC=1	SAMPLE MEASUREMENT	0.105	0.156		***** *****	***** *****	***** *****	***** *****	0	01/01	CN
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	***** *****	***** *****	***** *****	***** *****		01/01	CN

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 Michael Annacone  
 Vice President, Columbia Fuel Operations

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 FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
803	647-3171	2019	11	22
AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) MLOC=P - Allowable PH is 6.0 - 9.0

PERMITTEE NAME/ADDRESS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

NAME WESTINGHOUSE ELEC LLC/ COLUMBIA  
ADDRESS 5801 BLUFF ROAD, HOPKINS, SC 29061-9121

SC0001848  
PERMIT NUMBER

001 1  
DISCHARGE NUMBER

MAJOR 79 CM FINAL LIMITS

FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2019	10	01		2019	10	31

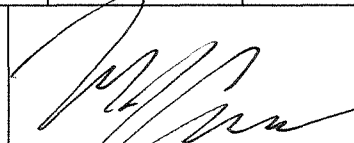
DMR VALID: 07/01/2014 – 03/31/2018  
NOTE: Read Instructions before completing this form.

LOCATION 5801 BLUFF RD

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
50060 LAB ID: 40561 Total Residual Chlorine MLOC=1		***** *****	***** *****	***** *****	***** *****	0.01 0.5 MO AVG	0.05 1.0 DAILY MX	MG/L	0 01/07	GR
51040 LAB ID: 32571 E. Coli (MPN/100ml) MLOC=1		***** *****	***** *****	***** *****	***** *****	0 126 30DAVGEO	0 349 DAILY MX	MPN/100 ML	0 01/30	GR
72107 LAB ID: 40561 Length of Longest pH Excursion MLOC=P		***** *****	***** *****	***** *****	***** *****	***** *****	0 60 INST MAX	MIN-UTES	0 01/01	CN
72108 LAB ID: 40561 % of Time Exceeding pH Limits MLOC=P		***** *****	***** *****	***** *****	***** *****	***** *****	0 1 INST MAX	PERCENT	0 01/01	CN

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
Michael Annacone  
Vice President, Columbia Fuel Operations

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE	DATE		
803 647-3171	2019	11	22
AREA CODE NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) MLOC=P – Allowable PH is 6.0 -9.0 On October 2, 16, 23 and 30, the weekly total residual chlorine (TRC) sample results tested below the PQL of 0.05 mg/l and were therefore reported as zero. Chlorine is analyzed by the Westinghouse onsite chemical laboratory by SM 4500-CL G-2011. On October 9, the monthly E. coli result tested below the PQL of 1 MPN/100 ml and was therefore reported as zero. E. coli is analyzed by Access Analytical according to SM 9223 B-2004.



Westinghouse Electric Company LLC  
Nuclear Fuel  
Columbia Fuel Site  
5801 Bluff Road  
Hopkins, South Carolina 29061  
USA

SC Department of Health & Environmental  
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ATTN: Compliance Assurance Division  
2600 Bull Street  
Columbia, South Carolina 29201

Direct tel: 803-647-1000  
Direct fax: 803-695-3964  
e-mail: [logsdocj@westinghouse.com](mailto:logsdocj@westinghouse.com)

Our ref: LTR-RAC-19-102

SC-DHEC NPDES DMR – November 2019

December 19, 2019

Dear Sirs and Madams:

RE: NPDES Permit #SC0001848

The enclosed Discharge Monitoring Report is submitted to fulfill the NPDES summary reporting requirements. This monthly summary covers the monitoring period from November 1, 2019, through November 30, 2019. All received sample results were within NPDES permit limits.

On November 13, 20 and 27, the weekly total residual chlorine (TRC) sample results tested below the PQL of 0.05 mg/l and were therefore reported as zero. Chlorine is analyzed by the Westinghouse onsite chemical laboratory by SM 4500-CL G-2011.

On November 13, the monthly E. coli result tested below the PQL of 1 MPN/100 ml and was therefore reported as zero. E. coli is analyzed by Access Analytical according to SM 9223 B-2004.

If you have any questions regarding the enclosed reports, please contact Ms. Cynthia Logsdon, Environment Health & Safety, at (803) 647-3171.

Sincerely,

A handwritten signature in black ink, appearing to read 'Michael Annacone', written over a horizontal line.

WESTINGHOUSE ELECTRIC COMPANY  
Michael Annacone  
Vice President, Columbia Fuel Operations

NAME WESTINGHOUSE ELEC TRIC COMPANY LLC  
 ADDRESS 5801 BLUFF ROAD, HOPKINS, SC 29061-9121

SC0001848			001 1		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2019	11	01	2019	11	30

MAJOR 79 CM FINAL LIMITS

FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA

DMR VALID: 07/01/2014 - 03/31/2018


LOCATION 5801 BLUFF RD

NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
00300 LAB ID: 40561 Dissolved Oxygen MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	8.6	*****	*****	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	1.0 INST MIN	*****	*****				
00310 LAB ID: 10120 BOD - 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	9.5	13.7	LBS/DAY	*****	10.4	17.6	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	30 MO AVG	60 DAILY MX		*****	REPORT MO AVG	REPORT DAILY MX				
00400 LAB ID: 40561 pH Standard Units MLOC=P	SAMPLE MEASUREMENT	*****	*****	*****	6.34	*****	8.50	SU	0	01/01	CN
	PERMIT REQUIREMENT	*****	*****	*****	REPORT INST MIN	*****	REPORT INST MAX				
00530 LAB ID: 40561 Total Suspended Solids (TSS) MLOC=1	SAMPLE MEASUREMENT	4.1	5.3	LBS/DAY	*****	4.6	6.1	MG/L	0	01/07	24
	PERMIT REQUIREMENT	32 MO AVG	64 DAILY MX		*****	REPORT MO AVG	REPORT DAILY MX				
00610 LAB ID: 40561 Ammonia - Nitrogen Total as N MLOC=1	SAMPLE MEASUREMENT	4.31	8.68	LBS/DAY	*****	4.37	6.67	MG/L	0	01/07	24
	PERMIT REQUIREMENT	50 MO AVG	100 DAILY MX		*****	REPORT MO AVG	REPORT DAILY MX				
00665 LAB ID: 32010 Phosphorous, Total MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	1.2	1.2	MG/L	0	01/30	24
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	REPORT DAILY MX				
50050 LAB ID: 40561 Flow in Conduit or Thru Treatment Plant MLOC=1	SAMPLE MEASUREMENT	0.107	0.185	MGD	*****	*****	*****	*****	0	01/01	CN
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX		*****	*****	*****				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 Michael Annacone  
 Vice President, Columbia Fuel Operations

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 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
	803	647-3171	2019	12	19
AREA CODE	NUMBER	YEAR	MO	DAY	

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) MLOC=P - Allowable PH is 6.0 -9.0

NAME WESTINGHOUSE ELEC LLC/ COLUMBIA  
ADDRESS 5801 BLUFF ROAD, HOPKINS, SC 29061-9121


SC0001848		001 1					
PERMIT NUMBER		DISCHARGE NUMBER					
MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2019	11	01		2019	11	30

MAJOR  
79 CM FINAL LIMITS

DMR VALID: 07/01/2014 - 03/31/2018  
NOTE: Read Instructions before completing this form.

FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA  
LOCATION 5801 BLUFF RD

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
50060 LAB ID: 40561 Total Residual Chlorine MLOC=1		***** *****	***** *****	***** *****	***** *****	0.17	0.66	MG/L	0	01/07	GR
		***** *****	***** *****	***** *****	***** *****	0.5 MO AVG	1.0 DAILY MX			01/07	GR
51040 LAB ID: 32571 E. Coli (MPN/100ml) MLOC=1		***** *****	***** *****	***** *****	***** *****	0	0	MPN/ 100 ML	0	01/30	GR
		***** *****	***** *****	***** *****	***** *****	126 30DAVGEO	349 DAILY MX			01/30	GR
72107 LAB ID: 40561 Length of Longest pH Excursion MLOC=P		***** *****	***** *****	***** *****	***** *****	***** *****	0	MIN-UT ES	0	01/01	CN
		***** *****	***** *****	***** *****	***** *****	***** *****	60 INST MAX			01/01	CN
72108 LAB ID: 40561 % of Time Exceeding pH Limits MLOC=P		***** *****	***** *****	***** *****	***** *****	***** *****	0	PER- CENT	0	01/01	CN
		***** *****	***** *****	***** *****	***** *****	***** *****	1 INST MAX			01/01	CN

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael Annacone Vice President, Columbia Fuel Operations	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 FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			803	647-3171	2019	12	19
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) MLOC=P - Allowable PH is 6.0 -9.0 On November 13, 20 and 27, the weekly total residual chlorine (TRC) sample results tested below the PQL of 0.05 mg/l and were therefore reported as zero. Chlorine is analyzed by the Westinghouse onsite chemical laboratory by SM 4500-CL G-2011. On November 13, the monthly E. coli result tested below the PQL of 1 MPN/100 ml and was therefore reported as zero. E. coli is analyzed by Access Analytical according to SM 9223 B-2004.



**Westinghouse**

Westinghouse Electric Company LLC  
Nuclear Fuel  
Columbia Fuel Site  
5801 Bluff Road  
Hopkins, South Carolina 29061  
USA

SC Department of Health & Environmental  
Control  
Bureau of Water  
ATTN: Compliance Assurance Division  
2600 Bull Street  
Columbia, South Carolina 29201

Direct tel: 803-647-1000  
Direct fax: 803-695-3964  
e-mail: [logsdocj@westinghouse.com](mailto:logsdocj@westinghouse.com)

Our ref: LTR-RAC-20-8

SC-DHEC NPDES DMR – December 2019  
with 4<sup>th</sup> Quarter 2019 Fluoride Report

January 24, 2020

Dear Sirs and Madams:

RE: NPDES Permit #SC0001848

The enclosed Discharge Monitoring Report is submitted to fulfill the NPDES summary reporting requirements. This monthly summary covers the monitoring period from December 1, 2019, through December 31, 2019. All received sample results were within NPDES permit limits.

On December 4, 18 and 27, the weekly total residual chlorine (TRC) sample results tested below the PQL of 0.05 mg/l and were therefore reported as zero. Chlorine is analyzed by the Westinghouse onsite chemical laboratory by SM 4500-CL G-2011.

On December 11, the monthly E. coli result tested below the PQL of 1 MPN/100 ml and was therefore reported as zero. E. coli is analyzed by Access Analytical according to SM 9223 B-2004.

Also find attached the 4<sup>th</sup> Quarter 2019 Fluoride report, as required.

If you have any questions regarding the enclosed reports, please contact Ms. Cynthia Logsdon, Environment Health & Safety, at (803) 647-3171.

Sincerely,

WESTINGHOUSE ELECTRIC COMPANY  
Michael Annacone  
Vice President, Columbia Fuel Operations



NAME WESTINGHOUSE ELECTRIC COMPANY LLC  
 ADDRESS 5801 BLUFF ROAD, HOPKINS, SC 29061-9121

SC0001848			001 1		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2019	12	01	2019	12	31

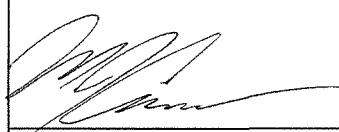
MAJOR 79 CM FINAL LIMITS

DMR VALID: 07/01/2014 - 03/31/2018

FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA

NOTE: Read Instructions before completing this form.

LOCATION 5801 BLUFF RD

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
00300 LAB ID: 40561 Dissolved Oxygen MLOC=1	SAMPLE MEASUREMENT	***** *****	***** *****	***** *****	10.5	***** *****	***** *****	MG/L	0	01/07	GR	
	PERMIT REQUIREMENT	***** *****	***** *****	***** *****	1.0 INST MIN	***** *****	***** *****				01/07	GR
00310 LAB ID: 10120 BOD - 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	9.5	16.4	LBS/ DAY	***** *****	9.6	13.7	MG/L	0	01/07	GR	
	PERMIT REQUIREMENT	30 MO AVG	60 DAILY MX		***** *****	REPORT MO AVG	REPORT DAILY MX				01/07	24
00400 LAB ID: 40561 pH Standard Units MLOC=P	SAMPLE MEASUREMENT	***** *****	***** *****	***** *****	6.51	***** *****	8.37	SU	0	01/01	CN	
	PERMIT REQUIREMENT	***** *****	***** *****	***** *****	REPORT INST MIN	***** *****	REPORT INST MAX				01/01	CN
00530 LAB ID: 40561 Total Suspended Solids (TSS) MLOC=1	SAMPLE MEASUREMENT	5.5	6.4	LBS/ DAY	***** *****	5.8	9.1	MG/L	0	01/07	24	
	PERMIT REQUIREMENT	32 MO AVG	64 DAILY MX		***** *****	REPORT MO AVG	REPORT DAILY MX				01/07	24
00610 LAB ID: 40561 Ammonia - Nitrogen Total as N MLOC=1	SAMPLE MEASUREMENT	8.2	15.8	LBS/ DAY	***** *****	7.4	11.6	MG/L	0	01/07	24	
	PERMIT REQUIREMENT	50 MO AVG	100 DAILY MX		***** *****	REPORT MO AVG	REPORT DAILY MX				01/07	24
00665 LAB ID: 32010 Phosphorous, Total MLOC=1	SAMPLE MEASUREMENT	***** *****	***** *****	***** *****	***** *****	1.1	1.1	MG/L	0	01/30	24	
	PERMIT REQUIREMENT	***** *****	***** *****	***** *****	***** *****	REPORT MO AVG	REPORT DAILY MX				01/30	24
50050 LAB ID: 40561 Flow in Conduit or Thru Treatment Plant MLOC=1	SAMPLE MEASUREMENT	0.118	0.163	MGD	***** *****	***** *****	***** *****	***** *****	0	01/01	CN	
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX		***** *****	***** *****	***** *****		***** *****			01/01
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael Annacone Vice President, Columbia Fuel Operations	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 FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.				 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE		DATE		
TYPED OR PRINTED	AREA CODE	NUMBER	YEAR	MO				DAY				

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) MLOC=P - Allowable PH is 6.0 -9.0

PERMITTEE NAME/ADDRESS


NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

NAME WESTINGHOUSE ELEC LLC/ COLUMBIA  
ADDRESS 5801 BLUFF ROAD, HOPKINS, SC 29061-9121  
FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA  
LOCATION 5801 BLUFF RD

SC0001848			001 1				
PERMIT NUMBER			DISCHARGE NUMBER				
MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2019	12	01		2019	12	31

MAJOR 79 CM FINAL LIMITS  
DMR VALID: 07/01/2014 – 03/31/2018  
NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
50060 LAB ID: 40561 Total Residual Chlorine MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.03	0.10	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	0.5 MO AVG	1.0 DAILY MX				
51040 LAB ID: 32571 E. Coli (MPN/100ml) MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	0	0	MPN/100 ML	0	01/30	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	126 30DAVGEO	349 DAILY MX				
72107 LAB ID: 40561 Length of Longest pH Excursion MLOC=P	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	MIN-UTES	0	01/01	CN
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	60 INST MAX				
72108 LAB ID: 40561 % of Time Exceeding pH Limits MLOC=P	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	PERCENT	0	01/01	CN
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	1 INST MAX				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael Annacone Vice President, Columbia Fuel Operations	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 FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.		TELEPHONE		DATE		
			803	647-3171	2020	01	24
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) MLOC=P – Allowable PH is 6.0 -9.0 On December 4, 18, and 27, the weekly total residual chlorine (TRC) sample results tested below the PQL of 0.05 mg/l and were therefore reported as zero. Chlorine is analyzed by the Westinghouse onsite chemical laboratory by SM 4500-CL G-2011. On December 11, the monthly E. coli result tested below the PQL of 1 MPN/100 ml and was therefore reported as zero. E. coli is analyzed by Access Analytical according to SM 9223 B-2004.

PERMITTEE NAME/ADDRESS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

NAME WESTINGHOUSE ELECTRIC COMPANY LLC  
ADDRESS 5801 BLUFF ROAD  
HOPKINS, SC 29061-9121

SC0001848  
PERMIT NUMBER

001 2  
DISCHARGE NUMBER

MAJOR  
79 CM FINAL LIMITS

FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA

LOCATION 5801 BLUFF RD

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	10	01	FROM	2019	12	31
						TO

DMR VALID: 04/01/2013 - 03/31/2018

NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
00951 LAB ID: 40561 Fluoride, Total	SAMPLE MEASUREMENT	*****	*****	*****	*****	3.469	6.060	MG/L	0	01/07	24
MLOC=1	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	REPORT DAILY MAX			01/90	24
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  Michael Annacone Vice President Columbia Fuel Operations	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	TELEPHONE		DATE				
		803	647-3171	2020	01	24		
TYPED OR PRINTED	KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

The plant discharged daily during the 4th quarter 2019. Discharge effluents were sampled weekly, 13 days of the 92 days discharged.



# Westinghouse

Westinghouse Electric Company LLC  
Nuclear Fuel  
Columbia Fuel Site  
5801 Bluff Road  
Hopkins, South Carolina 29061  
USA

SC Department of Health & Environmental  
Control  
Bureau of Water  
ATTN: Compliance Assurance Division  
2600 Bull Street  
Columbia, South Carolina 29201

Direct tel: 803-647-1000  
Direct fax: 803-695-3964  
e-mail: [logsdocj@westinghouse.com](mailto:logsdocj@westinghouse.com)

Our ref: LTR-RAC-20-23

SC-DHEC NPDES DMR – January 2020

February 27, 2020

Dear Sirs and Madams:

RE: NPDES Permit #SC0001848

The enclosed Discharge Monitoring Report is submitted to fulfill the NPDES summary reporting requirements. This monthly summary covers the monitoring period from January 1, 2020, through January 31, 2020. All received sample results were within NPDES permit limits.

On January 2, 8, 15, and 29, the weekly total residual chlorine (TRC) sample results tested below the PQL of 0.05 mg/l and were therefore reported as zero. Chlorine is analyzed by the Westinghouse onsite chemical laboratory by SM 4500-CL G-2011.

On January 8, the monthly E. coli result tested below the PQL of 1 MPN/100 ml and was therefore reported as zero. E. coli is analyzed by Access Analytical according to SM 9223 B-2004.

If you have any questions regarding the enclosed reports, please contact Ms. Cynthia Logsdon, Environment Health & Safety, at (803) 647-3171.

Sincerely,

WESTINGHOUSE ELECTRIC COMPANY  
Michael Annacone  
Vice President, Columbia Fuel Operations

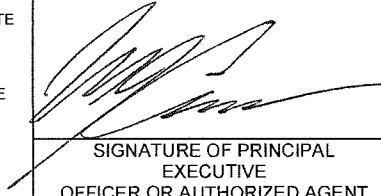
NAME WESTINGHOUSE ELECTRIC COMPANY LLC  
 ADDRESS 5801 BLUFF ROAD, HOPKINS, SC 29061-9121

SC0001848			001 1			
PERMIT NUMBER			DISCHARGE NUMBER			
MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
2020	01	01	TO	2020	01	31

MAJOR 79 CM FINAL LIMITS  
 DMR VALID: 07/01/2014 - 03/31/2018  
 NOTE: Read Instructions before completing this form.

FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA  
 LOCATION 5801 BLUFF RD

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
00300 LAB ID: 40561 Dissolved Oxygen MLOC=1	SAMPLE MEASUREMENT	***** *****	***** *****	***** *****	9.8	***** *****	***** *****	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	***** *****	***** *****	***** *****	1.0 INST MIN	***** *****	***** *****		0	01/07	GR
00310 LAB ID: 10120 BOD - 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	8.5	11.75	LBS/ DAY	***** *****	8.5	10.1	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	30 MO AVG	60 DAILY MX		***** *****	REPORT MO AVG	REPORT DAILY MX		0	01/07	24
00400 LAB ID: 40561 pH Standard Units MLOC=P	SAMPLE MEASUREMENT	***** *****	***** *****	***** *****	6.42	***** *****	8.31	SU	0	01/01	CN
	PERMIT REQUIREMENT	***** *****	***** *****	***** *****	REPORT INST MIN	***** *****	REPORT INST MAX		0	01/01	CN
00530 LAB ID: 40561 Total Suspended Solids (TSS) MLOC=1	SAMPLE MEASUREMENT	7.2	8.0	LBS/ DAY	***** *****	7.3	10.0	MG/L	0	01/07	24
	PERMIT REQUIREMENT	32 MO AVG	64 DAILY MX		***** *****	REPORT MO AVG	REPORT DAILY MX		0	01/07	24
00610 LAB ID: 40561 Ammonia - Nitrogen Total as N MLOC=1	SAMPLE MEASUREMENT	9.3	12.0	LBS/ DAY	***** *****	9.5	12.2	MG/L	0	01/07	24
	PERMIT REQUIREMENT	50 MO AVG	100 DAILY MX		***** *****	REPORT MO AVG	REPORT DAILY MX		0	01/07	24
00665 LAB ID: 32010 Phosphorous, Total MLOC=1	SAMPLE MEASUREMENT	***** *****	***** *****	***** *****	***** *****	0.71	0.71	MG/L	0	01/30	24
	PERMIT REQUIREMENT	***** *****	***** *****	***** *****	***** *****	REPORT MO AVG	REPORT DAILY MX		0	01/30	24
50050 LAB ID: 40561 Flow in Conduit or Thru Treatment Plant MLOC=1	SAMPLE MEASUREMENT	0.118	0.175	MGD	***** *****	***** *****	***** *****	***** *****	0	01/01	CN
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX		***** *****	***** *****	***** *****		***** *****	0	01/01

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael Annacone Vice President, Columbia Fuel Operations	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 FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			803	647-3171	2020	02	27
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) MLOC=P - Allowable PH is 6.0 -9.0

PERMITTEE NAME/ADDRESS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

NAME WESTINGHOUSE ELEC LLC/ COLUMBIA  
ADDRESS 5801 BLUFF ROAD, HOPKINS, SC 29061-9121

SC0001848		001 1					
PERMIT NUMBER		DISCHARGE NUMBER					
MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2020	01	01		2020	01	31


MAJOR 79 CM FINAL LIMITS  
DMR VALID: 07/01/2014 – 03/31/2018  
NOTE: Read Instructions before completing this form.

FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA  
LOCATION 5801 BLUFF RD

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
50060 LAB ID: 40561 Total Residual Chlorine MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.19	0.96	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	0.5 MO AVG	1.0 DAILY MX			01/07	GR
51040 LAB ID: 32571 E. Coli (MPN/100ml) MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	0	0	MPN/100 ML	0	01/30	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	126 30DAVGEO	349 DAILY MX			01/30	GR
72107 LAB ID: 40561 Length of Longest pH Excursion MLOC=P	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	MIN-UTES	0	01/01	CN
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	60 INST MAX			01/01	CN
72108 LAB ID: 40561 % of Time Exceeding pH Limits MLOC=P	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	PERCENT	0	01/01	CN
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	1 INST MAX			01/01	CN

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
Michael Annacone  
Vice President, Columbia Fuel Operations

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 FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
	803	647-3171	2020	02	27
	AREA CODE	NUMBER	YEAR	MO	DAY

TYPED OR PRINTED

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) MLOC=P – Allowable PH is 6.0 -9.0 On January 2, 8, 15, and 29, the weekly total residual chlorine (TRC) sample results tested below the PQL of 0.05 mg/l and were therefore reported as zero. Chlorine is analyzed by the Westinghouse onsite chemical laboratory by SM 4500-CL G-2011. On January 8, the monthly E. coli result tested below the PQL of 1 MPN/100 ml and was therefore reported as zero. E. coli is analyzed by Access Analytical according to SM 9223 B-2004.



# Westinghouse

Westinghouse Electric Company LLC  
Nuclear Fuel  
Columbia Fuel Site  
5801 Bluff Road  
Hopkins, South Carolina 29061  
USA

SC Department of Health & Environmental  
Control  
Bureau of Water  
ATTN: Compliance Assurance Division  
2600 Bull Street  
Columbia, South Carolina 29201

Direct tel: 803-647-1000  
Direct fax: 803-695-3964  
e-mail: [logsdocj@westinghouse.com](mailto:logsdocj@westinghouse.com)

Our ref: LTR-RAC-20-33

SC-DHEC NPDES DMR – February 2020

March 26, 2020

Dear Sirs and Madams:

RE: NPDES Permit #SC0001848

The enclosed Discharge Monitoring Report is submitted to fulfill the NPDES summary reporting requirements. This monthly summary covers the monitoring period from February 1, 2020, through February 29, 2020. All received sample results were within NPDES permit limits.

On February 5, 12, and 19, the weekly total residual chlorine (TRC) sample results tested below the PQL of 0.05 mg/l and were therefore reported as zero. Chlorine is analyzed by the Westinghouse onsite chemical laboratory by SM 4500-CL G-2011.

On February 12, the monthly E. coli result tested below the PQL of 1 MPN/100 ml and was therefore reported as zero. E. coli is analyzed by Access Analytical according to SM 9223 B-2004.

If you have any questions regarding the enclosed reports, please contact Ms. Cynthia Logsdon, Environment Health & Safety, at (803) 647-3171.

Sincerely,

WESTINGHOUSE ELECTRIC COMPANY  
Michael Annacone  
Vice President, Columbia Fuel Operations

NAME WESTINGHOUSE ELECRIC COMPANY LLC  
 ADDRESS 5801 BLUFF ROAD, HOPKINS, SC 29061-9121

SC0001848			001 1		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2020	02	01	2020	02	29

MAJOR 79 CM FINAL LIMITS

FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA

DMR VALID: 07/01/2014 - 03/31/2018

LOCATION 5801 BLUFF RD

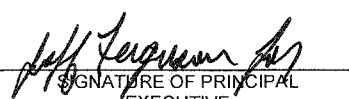
NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
00300 LAB ID: 40561 Dissolved Oxygen  MLOC=1		SAMPLE MEASUREMENT ***** *****	***** *****	***** *****	9.8	***** *****	***** *****	MG/L	0	01/07	GR
		PERMIT REQUIREMENT ***** *****	***** *****	***** *****	1.0 INST MIN	***** *****	***** *****			01/07	GR
00310 LAB ID: 10120 BOD - 5 Day (20 Degrees C) MLOC=1		SAMPLE MEASUREMENT 10.6	15.6		***** *****	9.5	13.5	MG/L	0	01/07	24
		PERMIT REQUIREMENT 30 MO AVG	60 DAILY MX	LBS/ DAY	***** *****	REPORT MO AVG	REPORT DAILY MX			01/07	24
00400 LAB ID: 40561 pH Standard Units MLOC=P		SAMPLE MEASUREMENT ***** *****	***** *****	***** *****	6.21	***** *****	8.24	SU	0	01/01	CN
		PERMIT REQUIREMENT ***** *****	***** *****	***** *****	REPORT INST MIN	***** *****	REPORT INST MAX			01/01	CN
00530 LAB ID: 40561 Total Suspended Solids (TSS) MLOC=1		SAMPLE MEASUREMENT 7.1	8.3		***** *****	6.6	8.9	MG/L	0	01/07	24
		PERMIT REQUIREMENT 32 MO AVG	64 DAILY MX	LBS/ DAY	***** *****	REPORT MO AVG	REPORT DAILY MX			01/07	24
00610 LAB ID: 40561 Ammonia - Nitrogen Total as N MLOC=1		SAMPLE MEASUREMENT 17.9	26.7		***** *****	16.4	23.1	MG/L	0	01/07	24
		PERMIT REQUIREMENT 50 MO AVG	100 DAILY MX	LBS/ DAY	***** *****	REPORT MO AVG	REPORT DAILY MX			01/07	24
00665 LAB ID: 32010 Phosphorous, Total  MLOC=1		SAMPLE MEASUREMENT ***** *****	***** *****	***** *****	***** *****	1.2	1.2	MG/L	0	01/30	24
		PERMIT REQUIREMENT ***** *****	***** *****	***** *****	***** *****	REPORT MO AVG	REPORT DAILY MX			01/30	24
50050 LAB ID: 40561 Flow in Conduit or Thru Treatment Plant MLOC=1		SAMPLE MEASUREMENT 0.121	0.180		***** *****	***** *****	***** *****	***** *****	0	01/01	CN
		PERMIT REQUIREMENT REPORT MO AVG	REPORT DAILY MX	MGD	***** *****	***** *****	***** *****	***** *****		01/01	CN

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 Michael Annacone  
 Vice President, Columbia Fuel Operations

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 FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT



TELEPHONE		DATE		
803	647-3171	2020	03	26
AREA CODE	NUMBER	YEAR	MO	DAY

TYPED OR PRINTED

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) MLOC=P - Allowable PH is 6.0 -9.0



PERMITTEE NAME/ADDRESS


NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

NAME WESTINGHOUSE ELEC LLC/ COLUMBIA  
ADDRESS 5801 BLUFF ROAD, HOPKINS, SC 29061-9121  
FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA  
LOCATION 5801 BLUFF RD

SC0001848			001 1				
PERMIT NUMBER			DISCHARGE NUMBER				
MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2020	02	01		2020	02	29

MAJOR 79 CM FINAL LIMITS  
DMR VALID: 07/01/2014 – 03/31/2018  
NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
50060 LAB ID: 40561 Total Residual Chlorine MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.02	0.06	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	0.5 MO AVG	1.0 DAILY MX				01/07
51040 LAB ID: 32571 E. Coli (MPN/100ml) MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	0	0	MPN/100 ML	0	01/30	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	126 30DAVGEO	349 DAILY MX				01/30
72107 LAB ID: 40561 Length of Longest pH Excursion MLOC=P	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	MIN-UTES	0	01/01	CN
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	60 INST MAX				01/01
72108 LAB ID: 40561 % of Time Exceeding pH Limits MLOC=P	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	PER-CENT	0	01/01	CN
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	1 INST MAX				01/01

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael Annacone Vice President, Columbia Fuel Operations	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 FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			803	647-3171	2020	03	26
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) MLOC=P – Allowable PH is 6.0 -9.0 On February 5, 12, and 19, the weekly total residual chlorine (TRC) sample results tested below the PQL of 0.05 mg/l and were therefore reported as zero. Chlorine is analyzed by the Westinghouse onsite chemical laboratory by SM 4500-CL G-2011. On February 12, the monthly E. coli result tested below the PQL of 1 MPN/100 ml and was therefore reported as zero. E. coli is analyzed by Access Analytical according to SM 9223 B-2004.



Westinghouse Electric Company LLC  
Nuclear Fuel  
Columbia Fuel Site  
5801 Bluff Road  
Hopkins, South Carolina 29061  
USA

SC Department of Health & Environmental  
Control  
Bureau of Water  
ATTN: Compliance Assurance Division  
2600 Bull Street  
Columbia, South Carolina 29201

Direct tel: 803-647-1000  
Direct fax: 803-695-3964  
e-mail: [logsdocj@westinghouse.com](mailto:logsdocj@westinghouse.com)

Our ref: LTR-RAC-20-43

SC-DHEC NPDES DMR – March 2020  
with 1<sup>st</sup> Quarter 2020 Fluoride Report

April 27, 2020

Dear Sirs and Madams:

RE: NPDES Permit #SC0001848

The enclosed Discharge Monitoring Report is submitted to fulfill the NPDES summary reporting requirements. This monthly summary covers the monitoring period from March 1, 2020, through March 31, 2020. All received sample results were within NPDES permit limits.

On March 4, 11, and 25, the weekly total residual chlorine (TRC) sample results tested below the PQL of 0.05 mg/l and were, therefore, reported as zero. Chlorine is analyzed by the Westinghouse onsite chemical laboratory by SM 4500-CL G-2011.

On March 11, the monthly E. coli result tested below the PQL of 1 MPN/100 ml and was, therefore, reported as zero. E. coli is analyzed by Access Analytical according to SM 9223 B-2004.

The 1st Quarter 2020 Fluoride Report is also attached.

If you have any questions regarding the enclosed reports, please contact Ms. Cynthia Logsdon, Environment Health & Safety, at (803) 647-3171.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Annacone".

WESTINGHOUSE ELECTRIC COMPANY  
Michael Annacone  
Vice President, Columbia Fuel Operations

DISCHARGE MONITORING REPORT (DMR)

NAME WESTINGHOUSE ELEC TRIC COMPANY LLC  
 ADDRESS 5801 BLUFF ROAD, HOPKINS, SC 29061-9121

SC0001848			001 1		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2020	03	01	2020	03	31

MAJOR 79 CM FINAL LIMITS

FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA  
 LOCATION 5801 BLUFF RD

DMR VALID: 07/01/2014 - 03/31/2018  
 NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
00300 LAB ID: 40561 Dissolved Oxygen  MLOC=1	X	SAMPLE MEASUREMENT	*****	*****	*****	9.9	*****	*****	MG/L	0	01/07	GR
		PERMIT REQUIREMENT	*****	*****	*****	1.0 INST MIN	*****	*****			01/07	GR
00310 LAB ID: 10120 BOD - 5 Day (20 Degrees C) MLOC=1	X	SAMPLE MEASUREMENT	10.4	14.0	LBS/DAY	*****	12.1	16.5	MG/L	0	01/07	24
		PERMIT REQUIREMENT	30 MO AVG	60 DAILY MX		*****	REPORT MO AVG	REPORT DAILY MX			01/07	24
00400 LAB ID: 40561 pH  Standard Units MLOC=P	X	SAMPLE MEASUREMENT	*****	*****	*****	6.02	*****	8.29	SU	0	01/01	CN
		PERMIT REQUIREMENT	*****	*****	*****	REPORT INST MIN	*****	REPORT INST MAX			01/01	CN
00530 LAB ID: 40561 Total Suspended Solids (TSS) MLOC=1	X	SAMPLE MEASUREMENT	8	9.5	LBS/DAY	*****	9	12	MG/L	0	01/07	24
		PERMIT REQUIREMENT	32 MO AVG	64 DAILY MX		*****	REPORT MO AVG	REPORT DAILY MX			01/07	24
00610 LAB ID: 40561 Ammonia - Nitrogen  Total as N MLOC=1	X	SAMPLE MEASUREMENT	17.3	20.5	LBS/DAY	*****	20.1	23.4	MG/L	0	01/07	24
		PERMIT REQUIREMENT	50 MO AVG	100 DAILY MX		*****	REPORT MO AVG	REPORT DAILY MX			01/07	24
00665 LAB ID: 32010 Phosphorous, Total  MLOC=1	X	SAMPLE MEASUREMENT	*****	*****	*****	*****	1.3	1.3	MG/L	0	01/30	24
		PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	REPORT DAILY MX			01/30	24
50050 LAB ID: 40561 Flow in Conduit or Thru Treatment Plant MLOC=1	X	SAMPLE MEASUREMENT	0.106	0.181	MGD	*****	*****	*****	*****	0	01/01	CN
		PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX		*****	*****	*****			01/01	CN

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael Annacone Vice President, Columbia Fuel Operations	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 FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	TELEPHONE		DATE			
		803	647-3171	2020	04	27	
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY



PERMITTEE NAME/ADDRESS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)


NAME WESTINGHOUSE ELEC LLC/ COLUMBIA  
ADDRESS 5801 BLUFF ROAD, HOPKINS, SC 29061-9121

SC0001848		001 1					
PERMIT NUMBER		DISCHARGE NUMBER					
MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2020	03	01		2020	03	31

MAJOR  
79 CM FINAL LIMITS  
DMR VALID: 07/01/2014 – 03/31/2018  
NOTE: Read Instructions before completing this form.

FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA  
LOCATION 5801 BLUFF RD

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
50060 LAB ID: 40561 Total Residual	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.11	0.45	MGL	0	01/07	GR
Chlorine MLOC=1	PERMIT REQUIREMENT	*****	*****	*****	*****	0.5 MO AVG	1.0 DAILY MX		01/07	GR	
51040 LAB ID: 32571 E. Coli (MPN/100ml) MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	0	0	MPN/ 100 ML	0	01/30	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	126 30DAVGEO	349 DAILY MX		01/30	GR	
72107 LAB ID: 40561 Length of Longest pH	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	MIN-UT ES	0	01/01	CN
Excursion MLOC=P	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	60 INST MAX		01/01	CN	
72108 LAB ID: 40561 % of Time Exceeding	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	PER- CENT	0	01/01	CN
pH Limits MLOC=P	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	1 INST MAX		01/01	CN	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael Annacone Vice President, Columbia Fuel Operations	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		TELEPHONE		DATE		
			803	647-3171	2020	04	27
TYPED OR PRINTED	THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) MLOC=P – Allowable PH is 6.0 -9.0 On March 4, 11, and 25, the weekly total residual chlorine (TRC) sample results tested below the PQL of 0.05 mg/l and were therefore reported as zero. Chlorine is analyzed by the Westinghouse onsite chemical laboratory by SM 4500-CL G-2011. On March 11, the monthly E. coli result tested below the PQL of 1 MPN/100 ml and was therefore reported as zero. E. coli is analyzed by Access Analytical according to SM 9223 B-2004.

PERMITTEE NAME/ADDRESS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

NAME WESTINGHOUSE ELECR TIC COMPANY LLC  
ADDRESS 5801 BLUFF ROAD  
HOPKINS, SC 29061-9121

SC0001848  
PERMIT NUMBER

001 2  
DISCHARGE NUMBER

MAJOR 79 CM FINAL LIMITS

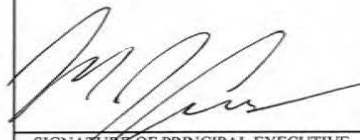
FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA  
LOCATION 5801 BLUFF RD

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2020	01	01	2020	03	31

DMR VALID: 04/01/2013 - 03/31/2018

NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
00951 LAB ID: 40561 Fluoride, Total MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	1.839	3.140	0	01/07	24
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	REPORT DAILY MAX			
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  Michael Annacone Vice President Columbia Fuel Operations  TYPED OR PRINTED	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 FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.		TELEPHONE		DATE		
			803	647-3171	2020	04	27
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

The plant discharged daily during the 1st quarter 2020. Discharge effluents were sampled weekly, 13 days of the 91 days discharged.



# Westinghouse

Westinghouse Electric Company LLC  
Nuclear Fuel  
Columbia Fuel Site  
5801 Bluff Road  
Hopkins, South Carolina 29061  
USA

SC Department of Health & Environmental  
Control  
Bureau of Water  
ATTN: Compliance Assurance Division  
2600 Bull Street  
Columbia, South Carolina 29201

Direct tel: 803-647-1000  
Direct fax: 803-695-3964  
e-mail: logsdocj@westinghouse.com

Our ref: LTR-RAC-20-50

SC-DHEC NPDES DMR – April 2020  
with 2020 Annual Toxicity Report

May 26, 2020

Dear Sirs and Madams:

RE: NPDES Permit #SC0001848

The enclosed Discharge Monitoring Report is submitted to fulfill the NPDES summary reporting requirements. The 2020 Toxicity Report is also attached.

This monthly summary covers the monitoring period from April 1, 2020, through April 30, 2020. All received sample results were within NPDES permit limits.

On April 8, the monthly E. coli result tested below the PQL of 1 MPN/100 ml and was, therefore, reported as zero. E. coli is analyzed by Access Analytical according to SM 9223 B-2004.

One excursion of the BOD requirement occurred the week of April 22. Per GEL Laboratories via email correspondence on April 28:

*"Results for this analysis have been compromised due to an isolated failure of the Deionized Water System used in the analytical processes. Use of the data may not reflect the true concentrations normally experienced in the sample. GEL is purchasing DI water for this lab until we can rectify the issue. Based on the LCS results, this data should not be used for regulatory reporting. Results are biased low."*

Therefore, the weekly BOD result for April 22 was not included in the daily average or daily maximum reported, and one excursion was marked on the DMR. The issue was entered into the Westinghouse Corrective Action Program #2020-5328.

On April 29, Westinghouse notified Sonya Johnson and Lucas Berresford of the following river discharge piping maintenance issue. Notification is included in this DMR as required per Part II Section L.6 of NPDES Permit #SC0001848:

At approximately 3:35 pm on 4/28/20, Environment, Health and Safety (EH&S) personnel were informed of a leak in the treated wastewater discharge line from the Westinghouse plant to the Congaree River. Maintenance activities to repair a culvert on the dirt road, about a mile from the river, inadvertently impacted the line, and the leak was discovered right away. River discharges were stopped and locked out until maintenance repairs were completed the same day. The issue was entered into the Westinghouse Corrective Action Program # 2020-5267.



On April 30, the weekly total residual chlorine (TRC) sample result tested below the PQL of 0.05 mg/l and was, therefore, reported as zero. Chlorine is analyzed by the Westinghouse onsite chemical laboratory by SM 4500-CL G-2011.

If you have any questions regarding the enclosed reports, please contact Ms. Cynthia Logsdon, Environment Health & Safety, at (803) 647-3171.

Sincerely,

A handwritten signature in black ink that reads "Jeff Ferguson for Michael Annacone". The signature is written in a cursive, flowing style.

WESTINGHOUSE ELECTRIC COMPANY  
Michael Annacone  
Vice President, Columbia Fuel Operations

NAME WESTINGHOUSE ELEC RIC COMPANY LLC  
 ADDRESS 5801 BLUFF ROAD, HOPKINS, SC 29061-9121

SC0001848			001 1		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2020	04	01	2020	04	30

MAJOR 79 CM FINAL LIMITS

FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA

DMR VALID: 07/01/2014 - 03/31/2018

LOCATION 5801 BLUFF RD

NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
00300 LAB ID: 40561 Dissolved Oxygen  MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	7.7	*****	*****	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	1.0 INST MIN	*****	*****				
00310 LAB ID: 10120 BOD - 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	10.1	20.5	LBS/ DAY	*****	14.6	23.2	MG/L	1	01/07	24
	PERMIT REQUIREMENT	30 MO AVG	60 DAILY MX		*****	REPORT MO AVG	REPORT DAILY MX				
00400 LAB ID: 40561 pH  Standard Units MLOC=P	SAMPLE MEASUREMENT	*****	*****	*****	6.3	*****	7.9	SU	0	01/01	CN
	PERMIT REQUIREMENT	*****	*****	*****	REPORT INST MIN	*****	REPORT INST MAX				
00530 LAB ID: 40561 Total Suspended  Solids (TSS) MLOC=1	SAMPLE MEASUREMENT	5	10	LBS/ DAY	*****	9	13	MG/L	0	01/07	24
	PERMIT REQUIREMENT	32 MO AVG	64 DAILY MX		*****	REPORT MO AVG	REPORT DAILY MX				
00610 LAB ID: 40561 Ammonia - Nitrogen  Total as N MLOC=1	SAMPLE MEASUREMENT	17.1	22.8	LBS/ DAY	*****	25.4	48.8	MG/L	0	01/07	24
	PERMIT REQUIREMENT	50 MO AVG	100 DAILY MX		*****	REPORT MO AVG	REPORT DAILY MX				
00665 LAB ID: 32010 Phosphorous, Total  MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	1.4	1.4	MG/L	0	01/30	24
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	REPORT DAILY MX				
50050 LAB ID: 40561 Flow in Conduit or Thru Treatment Plant MLOC=1	SAMPLE MEASUREMENT	0.097	0.140	MGD	*****	*****	*****	*****	0	01/01	CN
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX		*****	*****	*****				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael Annacone Vice President, Columbia Fuel Operations	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 FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	TELEPHONE		DATE				
		803	647-3171	2020	05	26		
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>Michael Annacone</i>		AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) MLOC=P - Allowable PH is 6.0 -9.0  
 BOD sample for week of April 22 failed quality control due to DI water issue at vendor laboratory. Per advisement of vendor lab, this data was not used for regulatory reporting.



PERMITTEE NAME/ADDRESS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

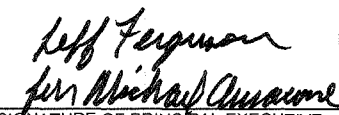
NAME WESTINGHOUSE ELEC LLC/ COLUMBIA  
ADDRESS 5801 BLUFF ROAD, HOPKINS, SC 29061-9121

SC0001848			001 1				
PERMIT NUMBER			DISCHARGE NUMBER				
MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2020	04	01		2020	04	30

MAJOR 79 CM FINAL LIMITS  
DMR VALID: 07/01/2014 – 03/31/2018  
NOTE: Read Instructions before completing this form.

FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA  
LOCATION 5801 BLUFF RD

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
50060 LAB ID: 40561 Total Residual Chlorine MLOC=1		***** *****	***** *****	***** *****	***** *****	0.07	0.10	0	01/07	GR
		***** *****	***** *****	***** *****	***** *****	0.5 MO AVG	1.0 DAILY MX		01/07	GR
51040 LAB ID: 32571 E. Coli (MPN/100ml) MLOC=1		***** *****	***** *****	***** *****	***** *****	0	0	0	01/30	GR
		***** *****	***** *****	***** *****	***** *****	126 30DAVGE0	349 DAILY MX		01/30	GR
72107 LAB ID: 40561 Length of Longest pH Excursion MLOC=P		***** *****	***** *****	***** *****	***** *****	***** *****	0	0	01/01	CN
		***** *****	***** *****	***** *****	***** *****	***** *****	60 INST MAX		01/01	CN
72108 LAB ID: 40561 % of Time Exceeding pH Limits MLOC=P		***** *****	***** *****	***** *****	***** *****	***** *****	0	0	01/01	CN
		***** *****	***** *****	***** *****	***** *****	***** *****	1 INST MAX		01/01	CN

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael Annacone Vice President, Columbia Fuel Operations	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 FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			803	647-3171	2020	05	26
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) MLOC=P – Allowable PH is 6.0 -9.0 On April 30, the weekly total residual chlorine (TRC) sample results tested below the PQL of 0.05 mg/l and were therefore reported as zero. Chlorine is analyzed by the Westinghouse onsite chemical laboratory by SM 4500-CL G-2011. April 8, the monthly E. coli result tested below the PQL of 1 MPN/100 ml and was therefore reported as zero. E. coli is analyzed by Access Analytical according to SM 9223 B-2004. The plant discharged 29 of 30 days during April 2020.

PERMITTEE NAME/ADDRESS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

NAME WESTINGHOUSE ELECTRIC COMPANY LLC  
ADDRESS 5801 BLUFF ROAD  
HOPKINS, SC 29061-9121

SC0001848  
PERMIT NUMBER

001 3  
DISCHARGE NUMBER

MAJOR  
79 CM FINAL LIMITS

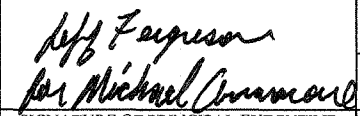
FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA

LOCATION 5801 BLUFF RD

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2020	04	01	2021	03	31

DMR VALID: 04/01/2013 – 03/31/2018

NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
TCP3B LAB ID: 32576 % Effect Statre 7 Day Chr Ceriodaphnia MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	11	11		0	01/YR	GR	
	PERMIT REQUIREMENT	*****	*****	*****	*****	REPORT MO AVG	REPORT DAILY MAX	PER-CENT		01/YR	GR	
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael J. Annacone Vice President, Columbia Fuel Operations	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 FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.				 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE 803 647-3171		DATE 2020 05 26		
TYPED OR PRINTED					AREA CODE			NUMBER		YEAR MO DAY		

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Chronic toxicity CTC=1.0% effluent



3/4/2013

**DMR Attachment for Chronic  
Multi-Concentration Whole Effluent  
Toxicity Test Results using Linear Interpolation**

South Carolina Department of Health  
and Environmental Control

WESTINGHOUSE ELEC LLC/COLUMBIA Permit number SC0001848 Discharge number 0013  
FINAL LIMITS 04/01/2013-03/31/2018 Parameter Code TCP3B MLOC=1 CTC=1.0% effluent

Monitoring Period	Year	Month	Day	TO	Year	Month	Day
	From	2020	4		1	2021	3

Mortality Data

Reproduction Data

Date	4/19/20	Group	# Adults	# Dead	Group Average	Group Variance
Lab ID	32576	0	10	1	22.4	42.9
		0.25	10	1	23.1	95.2
		0.5	10	0	26.5	70.1
IC25=	2.3%	1	10	0	21.4	45.4
48-hr chronic LC 50=	>25 %	8	9	1	2.9	27.9
		25	10	5	0.0	0.0

%Survival Effect at CTC= 0%  
% Reproduction Effect at CTC= 11%

Mortality Data

Reproduction Data

Date		Group	# Adults	# Dead	Group Average	Group Variance
Lab ID		0				
		0.25				
		0.5				
IC25=	%	1				
48-hr chronic LC 50=	%	8				
		25				

%Survival Effect at CTC= \_\_\_\_\_  
% Reproduction Effect at CTC= \_\_\_\_\_

Signature of Principal Executive Officer or Authorized Agent  
Name/Title of Principal Executive Officer (typed or printed)  
DHEC 3880 (08/2005)

Jeff Ferguson for Michael Annacone  
Michael Annacone / Vice President, Columbia Fuel  
Operations



# Westinghouse

Westinghouse Electric Company LLC  
Nuclear Fuel  
Columbia Fuel Site  
5801 Bluff Road  
Hopkins, South Carolina 29061  
USA

SC Department of Health & Environmental  
Control  
Bureau of Water  
ATTN: Compliance Assurance Division  
2600 Bull Street  
Columbia, South Carolina 29201

Direct tel: 803-647-1000  
Direct fax: 803-695-3964  
e-mail: [logsdocj@westinghouse.com](mailto:logsdocj@westinghouse.com)

Our ref: LTR-RAC-20-55

SC-DHEC NPDES DMR – May 2020

June 25, 2020

Dear Sirs and Madams:

RE: NPDES Permit #SC0001848

The enclosed Discharge Monitoring Report is submitted to fulfill the NPDES summary reporting requirements. This monthly summary covers the monitoring period from May 1, 2020, through May 31, 2020. All received sample results were within NPDES permit limits.

On May 13, the monthly E. coli result tested below the PQL of 1 MPN/100 ml and was, therefore, reported as zero. E. coli is analyzed by Access Analytical according to SM 9223 B-2004.


On May 13, Ammonia-N was sampled by Westinghouse according to standard method 4500-NH3-D (selective electrode method) and by PACE according to EPA method 350.1 (gas diffusion).

On May 20 and 27, the weekly total residual chlorine (TRC) sample result tested below the PQL of 0.05 mg/l and was, therefore, reported as zero. Chlorine is analyzed by the Westinghouse onsite chemical laboratory by SM 4500-CL G-2011.

As communicated to you on June 12, 2020, Westinghouse impacted an 8-inch PVC Contaminated Wastewater (CWW) pipe during implementation of NPDES construction permit IW021063 as part of our efforts to close the East Lagoon. This pipe transports emergency cooling water, cooling tower blowdown, dehumidification condensate, and laboratory and floor drain wastewaters to the Contaminated Sump for treatment. During the construction activities, an excavation (about 8' x 4' and 6' deep) was completed on June 10, and a metal plate was placed over the area. When the plate was removed the morning of June 12, about 50-100 gallons of water was identified in the excavated area. Sample results of the water were 5.35E-07 uCi/ml gross alpha and 5.68E-07 uCi/ml gross beta, as analyzed by our onsite Health Physics Laboratory, and 0.03 ppm U, as analyzed by our onsite Chemical Laboratory. These results are below our internal process control limits for discharge to the Congaree River. Inputs into the line were stopped, the water was pumped out of the excavated area and repairs were completed the same day. The issue was entered into our Corrective Action Program #2020-7135. Implementation of the construction permit was successfully completed and inspected by DHEC personnel on June 19.

If you have any questions regarding the enclosed reports, please contact Ms. Cynthia Logsdon, Environment Health & Safety, at (803) 647-3171.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Annacone", written in a cursive style.

WESTINGHOUSE ELECTRIC COMPANY  
Michael Annacone  
Vice President, Columbia Fuel Operations

NAME WESTINGHOUSE ELECRIC COMPANY LLC  
 ADDRESS 5801 BLUFF ROAD, HOPKINS, SC 29061-9121

SC0001848			001 1				
PERMIT NUMBER			DISCHARGE NUMBER				
MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2020	05	01		2020	05	31

MAJOR 79 CM FINAL LIMITS


FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA

DMR VALID: 07/01/2014 - 03/31/2018

LOCATION 5801 BLUFF RD

NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
00300 LAB ID: 40561 Dissolved Oxygen  MLOC=1	SAMPLE MEASUREMENT	***** *****	***** *****	***** *****	8.5	***** *****	***** *****	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	***** *****	***** *****	***** *****	1.0 INST MIN	***** *****	***** *****				
00310 LAB ID: 10120 BOD - 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	10.8	15.6	LBS/ DAY	***** *****	13.2	19.7	MG/L	0	01/07	24
	PERMIT REQUIREMENT	30 MO AVG	60 DAILY MX		***** *****	REPORT MO AVG	REPORT DAILY MX				
00400 LAB ID: 40561 pH  Standard Units MLOC=P	SAMPLE MEASUREMENT	***** *****	***** *****	***** *****	6.5	***** *****	8.0	SU	0	01/01	CN
	PERMIT REQUIREMENT	***** *****	***** *****	***** *****	REPORT INST MIN	***** *****	REPORT INST MAX				
00530 LAB ID: 40561 Total Suspended  Solids (TSS) MLOC=1	SAMPLE MEASUREMENT	6	9	LBS/ DAY	***** *****	7	12	MG/L	0	01/07	24
	PERMIT REQUIREMENT	32 MO AVG	64 DAILY MX		***** *****	REPORT MO AVG	REPORT DAILY MX				
00610 LAB ID: 40561, 32010 Ammonia - Nitrogen  Total as N MLOC=1	SAMPLE MEASUREMENT	10	11.7	LBS/ DAY	***** *****	12	14.7	MG/L	0	01/07	24
	PERMIT REQUIREMENT	50 MO AVG	100 DAILY MX		***** *****	REPORT MO AVG	REPORT DAILY MX				
00665 LAB ID: 32010 Phosphorous, Total  MLOC=1	SAMPLE MEASUREMENT	***** *****	***** *****	***** *****	***** *****	1.1	1.1	MG/L	0	01/30	24
	PERMIT REQUIREMENT	***** *****	***** *****	***** *****	***** *****	REPORT MO AVG	REPORT DAILY MX				
50050 LAB ID: 40561 Flow in Conduit or Thru Treatment Plant MLOC=1	SAMPLE MEASUREMENT	0.097	0.131	MGD	***** *****	***** *****	***** *****	***** *****	0	01/01	CN
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX		***** *****	***** *****	***** *****				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael Annacone Vice President, Columbia Fuel Operations	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 FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			803	647-3171	2020	06	25
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) MLOC=P - Allowable PH is 6.0 -9.0  
 On May 13, Ammonia-N was sampled by Westinghouse according to standard method 4500-NH3-D (selective electrode method) and by PACE according to EPA method 350.1 (gas diffusion).

PERMITTEE NAME/ADDRESS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

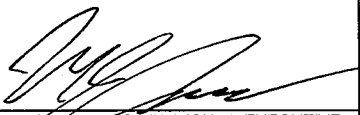
NAME WESTINGHOUSE ELEC LLC/ COLUMBIA  
ADDRESS 5801 BLUFF ROAD, HOPKINS, SC 29061-9121

SC0001848		001 1					
PERMIT NUMBER		DISCHARGE NUMBER					
MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2020	05	01		2020	05	31

MAJOR 79 CM FINAL LIMITS  
DMR VALID: 07/01/2014 - 03/31/2018  
NOTE: Read Instructions before completing this form.

FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA  
LOCATION 5801 BLUFF RD

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
50060 LAB ID: 40561 Total Residual Chlorine MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.10	0.27	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	0.5 MO AVG	1.0 DAILY MX				
51040 LAB ID: 32571 E. Coli (MPN/100ml) MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	0	0	MPN/100 ML	0	01/30	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	126 30DAVGEO	349 DAILY MX				
72107 LAB ID: 40561 Length of Longest pH Excursion MLOC=P	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	MIN-UTES	0	01/01	CN
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	60 INST MAX				
72108 LAB ID: 40561 % of Time Exceeding pH Limits MLOC=P	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	PERCENT	0	01/01	CN
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	1 INST MAX				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael Annacone Vice President, Columbia Fuel Operations	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 FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.		TELEPHONE		DATE		
			803	647-3171	2020	06	25
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) MLOC=P - Allowable PH is 6.0 -9.0 On May 20 and 27, the weekly total residual chlorine (TRC) sample results tested below the PQL of 0.05 mg/l and were therefore reported as zero. Chlorine is analyzed by the Westinghouse onsite chemical laboratory by SM 4500-CL G-2011. May 13, the monthly E. coli result tested below the PQL of 1 MPN/100 ml and was therefore reported as zero. E. coli is analyzed by Access Analytical according to SM 9223 B-2004.

NAME WESTINGHOUSE ELECR TIC COMPANY LLC  
ADDRESS 5801 BLUFF ROAD  
HOPKINS, SC 29061-9121

<b>SC0001848</b>
PERMIT NUMBER

<b>001 2</b>
DISCHARGE NUMBER

MAJOR 79 CM FINAL LIMITS

FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA

LOCATION 5801 BLUFF RD

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2020	04	01	FROM	2020	06	30
			TO			

DMR VALID: 04/01/2013 - 03/31/2018

NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
00951 LAB ID: 40561 Fluoride, Total		***** *****	***** *****	***** *****	***** *****	2.631	3.320		0	01/07	24
MLOC=1		***** *****	***** *****	***** *****	***** *****	REPORT MO AVG	REPORT DAILY MAX	MG/L		01/90	24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  Michael Annacone Vice President Columbia Fuel Operations  TYPED OR PRINTED	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 FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	TELEPHONE		DATE		
		803	647-3171	2019	07	23
	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

The plant discharged 90 of 91 days during the 2nd quarter 2020. Discharge effluents were sampled weekly, 13 days of the 90 days discharged.



NAME WESTINGHOUSE ELEC TRIC COMPANY LLC  
ADDRESS 5801 BLUFF ROAD, HOPKINS, SC 29061-9121

SC0001848			001 1		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2020	07	01	2020	07	31

MAJOR 79 CM FINAL LIMITS

FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA

DMR VALID: 07/01/2014 – 03/31/2018

LOCATION 5801 BLUFF RD

NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
00300 LAB ID: 40561 Dissolved Oxygen MLOC=1	SAMPLE MEASUREMENT	***** *****	***** *****	***** *****	6.4	***** *****	***** *****	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	***** *****	***** *****	***** *****	1.0 INST MIN	***** *****	***** *****			01/07	GR
00310 LAB ID: 10120 BOD – 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	9.7	14.7		***** *****	15.4	20.0	MG/L	0	01/07	24
	PERMIT REQUIREMENT	30 MO AVG	60 DAILY MX	LBS/ DAY	***** *****	REPORT MO AVG	REPORT DAILY MX			01/07	24
00400 LAB ID: 40561 pH Standard Units MLOC=P	SAMPLE MEASUREMENT	***** *****	***** *****	***** *****	6.3	***** *****	8.4	SU	0	01/01	CN
	PERMIT REQUIREMENT	***** *****	***** *****	***** *****	REPORT INST MIN	***** *****	REPORT INST MAX			01/01	CN
00530 LAB ID: 40561 Total Suspended Solids (TSS) MLOC=1	SAMPLE MEASUREMENT	16	31		***** *****	25	42	MG/L	0	01/07	24
	PERMIT REQUIREMENT	32 MO AVG	64 DAILY MX	LBS/ DAY	***** *****	REPORT MO AVG	REPORT DAILY MX			01/07	24
00610 LAB ID: 40561 Ammonia - Nitrogen Total as N MLOC=1	SAMPLE MEASUREMENT	6.7	9.4		***** *****	10.9	12.8	MG/L	0	01/07	24
	PERMIT REQUIREMENT	50 MO AVG	100 DAILY MX	LBS/ DAY	***** *****	REPORT MO AVG	REPORT DAILY MX			01/07	24
00665 LAB ID: 32010 Phosphorous, Total MLOC=1	SAMPLE MEASUREMENT	***** *****	***** *****	***** *****	***** *****	1.2	1.2	MG/L	0	01/30	24
	PERMIT REQUIREMENT	***** *****	***** *****	***** *****	***** *****	REPORT MO AVG	REPORT DAILY MX			01/30	24
50050 LAB ID: 40561 Flow in Conduit or Thru Treatment Plant MLOC=1	SAMPLE MEASUREMENT	0.091	0.173		***** *****	***** *****	***** *****	***** *****	0	01/01	CN
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	***** *****	***** *****	***** *****	***** *****		01/01	CN

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael Annacone Vice President, Columbia Fuel Operations	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 FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	TELEPHONE		DATE		
		803	647-3171	2020	08	19
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR MO DAY

NAME WESTINGHOUSE ELEC LLC/ COLUMBIA  
ADDRESS 5801 BLUFF ROAD, HOPKINS, SC 29061-9121

SC0001848			001 1				
PERMIT NUMBER			DISCHARGE NUMBER				
MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2020	07	01		2020	07	31

MAJOR 79 CM FINAL LIMITS

DMR VALID: 07/01/2014 – 03/31/2018  
NOTE: Read Instructions before completing this form.

FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA  
LOCATION 5801 BLUFF RD

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
50060 LAB ID: 40561 Total Residual Chlorine MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.13	0.22	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	0.5 MO AVG	1.0 DAILY MX		01/07	GR	
51040 LAB ID: 32571 E. Coli (MPN/100ml) MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	0	0	MPN/100 ML	0	01/30	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	126 30DAVGEO	349 DAILY MX		01/30	GR	
72107 LAB ID: 40561 Length of Longest pH Excursion MLOC=P	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	MIN-UTES	0	01/01	CN
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	60 INST MAX		01/01	CN	
72108 LAB ID: 40561 % of Time Exceeding pH Limits MLOC=P	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	PER-CENT	0	01/01	CN
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	1 INST MAX		01/01	CN	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael Annacone Vice President, Columbia Fuel Operations	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	TELEPHONE		DATE				
		803	647-3171	2020	08	19		
TYPED OR PRINTED	THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) MLOC=P – Allowable PH is 6.0 -9.0 The plant discharged 27 of 31 days during July 2020. On July 9, the monthly E. coli result tested below the PQL of 1 MPN/100 ml and was therefore reported as zero. E. coli is analyzed by Access Analytical according to SM 9223 B-2004. On July 15, the weekly total residual chlorine (TRC) sample result tested below the PQL of 0.05 mg/l and was therefore reported as zero. Chlorine is analyzed by the Westinghouse onsite chemical laboratory by SM 4500-CL G-2011.

NAME WESTINGHOUSE ELEC TRIC COMPANY LLC  
ADDRESS 5801 BLUFF ROAD, HOPKINS, SC 29061-9121

SC0001848			001 1		
PERMIT NUMBER			DISCHARGE NUMBER		
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2020	06	01	2020	06	30

MAJOR  
79 CM FINAL LIMITS

FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA

DMR VALID: 07/01/2014 – 03/31/2018

LOCATION 5801 BLUFF RD

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PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
00300 LAB ID: 40561 Dissolved Oxygen MLOC=1	SAMPLE MEASUREMENT	***** *****	***** *****	***** *****	6.3	***** *****	***** *****	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	***** *****	***** *****	***** *****	1.0 INST MIN	***** *****	***** *****			01/07	GR
00310 LAB ID: 10120 BOD – 5 Day (20 Degrees C) MLOC=1	SAMPLE MEASUREMENT	12.8	16.6		***** *****	16.1	23.6	MG/L	0	01/07	24
	PERMIT REQUIREMENT	30 MO AVG	60 DAILY MX	LBS/ DAY	***** *****	REPORT MO AVG	REPORT DAILY MX			01/07	24
00400 LAB ID: 40561 pH Standard Units MLOC=P	SAMPLE MEASUREMENT	***** *****	***** *****	***** *****	6.2	***** *****	8.7	SU	0	01/01	CN
	PERMIT REQUIREMENT	***** *****	***** *****	***** *****	REPORT INST MIN	***** *****	REPORT INST MAX			01/01	CN
00530 LAB ID: 40561 Total Suspended Solids (TSS) MLOC=1	SAMPLE MEASUREMENT	9	13		***** *****	12	20	MG/L	0	01/07	24
	PERMIT REQUIREMENT	32 MO AVG	64 DAILY MX	LBS/ DAY	***** *****	REPORT MO AVG	REPORT DAILY MX			01/07	24
00610 LAB ID: 40561 Ammonia - Nitrogen Total as N MLOC=1	SAMPLE MEASUREMENT	7.31	10.21		***** *****	8.88	9.57	MG/L	0	01/07	24
	PERMIT REQUIREMENT	50 MO AVG	100 DAILY MX	LBS/ DAY	***** *****	REPORT MO AVG	REPORT DAILY MX			01/07	24
00665 LAB ID: 32010 Phosphorous, Total MLOC=1	SAMPLE MEASUREMENT	***** *****	***** *****	***** *****	***** *****	1.9	1.9	MG/L	0	01/30	24
	PERMIT REQUIREMENT	***** *****	***** *****	***** *****	***** *****	REPORT MO AVG	REPORT DAILY MX			01/30	24
50050 LAB ID: 40561 Flow in Conduit or Thru Treatment Plant MLOC=1	SAMPLE MEASUREMENT	0.102	0.162		***** *****	***** *****	***** *****	***** *****	0	01/01	CN
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MX	MGD	***** *****	***** *****	***** *****	***** *****		01/01	CN

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael Annacone Vice President, Columbia Fuel Operations	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 FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	TELEPHONE		DATE				
		803	647-3171	2020	07	23		
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR	MO	DAY

NAME WESTINGHOUSE ELEC LLC/ COLUMBIA  
ADDRESS 5801 BLUFF ROAD, HOPKINS, SC 29061-9121

SC0001848			001 1				
PERMIT NUMBER			DISCHARGE NUMBER				
MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2020	06	01		2020	06	30

MAJOR 79 CM FINAL LIMITS

DMR VALID: 07/01/2014 – 03/31/2018  
NOTE: Read Instructions before completing this form.

FACILITY WESTINGHOUSE ELEC LLC /COLUMBIA  
LOCATION 5801 BLUFF RD

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
50060 LAB ID: 40561 Total Residual Chlorine MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.05	0.12	MG/L	0	01/07	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	0.5 MO AVG	1.0 DAILY MX				
51040 LAB ID: 32571 E. Coli (MPN/100ml) MLOC=1	SAMPLE MEASUREMENT	*****	*****	*****	*****	0	0	MPN/100 ML	0	01/30	GR
	PERMIT REQUIREMENT	*****	*****	*****	*****	126 30DAVGEO	349 DAILY MX				
72107 LAB ID: 40561 Length of Longest pH Excursion MLOC=P	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	MIN-UTES	0	01/01	CN
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	60 INST MAX				
72108 LAB ID: 40561 % of Time Exceeding pH Limits MLOC=P	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0	PER-CENT	0	01/01	CN
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	1 INST MAX				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Michael Annacone Vice President, Columbia Fuel Operations	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	TELEPHONE		DATE				
		803	647-3171	2020	07	23		
TYPED OR PRINTED	THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) MLOC=P – Allowable PH is 6.0 -9.0 On June 3 and 17, the weekly total residual chlorine (TRC) sample results tested below the PQL of 0.05 mg/l and were therefore reported as zero. Chlorine is analyzed by the Westinghouse onsite chemical laboratory by SM 4500-CL G-2011. June 12, the monthly E. coli result tested below the PQL of 1 MPN/100 ml and was therefore reported as zero. E. coli is analyzed by Access Analytical according to SM 9223 B-2004.

## DISCHARGE MONITORING REPORT (DMR)

**Facility Name:** Westinghouse Electric Company LLC/Columbia Fuel Fabrication Facility **Permit Number:** SC0001848 v2.1

**Permittee Name:** WESTINGHOUSE ELECTRIC COMPANY LLC

**DMR Period:** 9/1/2020 - 9/30/2020

**Limit Set:** 0011

**No Discharge:**

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Dissolved Oxygen (00300) Effluent Gross (1)  Lab ID: 40561	SAMPLE MEASUREMENT	*****	*****		7.1	*****	*****	mg/L	0	Weekly	Grab
	PERMIT REQUIREMENT	*****	*****		1.0 Instantaneous Minimum	*****	*****				
BOD - 5 DAY (20 DEGREES C) (00310) Effluent Gross (1)  Lab ID: 10120	SAMPLE MEASUREMENT	16.2	24.5	lbs/day	*****	20.8	27.4	mg/L	0	Weekly	24-Hr Composite
	PERMIT REQUIREMENT	30 Monthly Average	60 Daily Maximum		*****	***** Monthly Average	***** Daily Maximum				
pH (00400) See Comments (P)  Lab ID: 40561	SAMPLE MEASUREMENT	*****	*****		6.3	*****	8.3	SU	0	Daily	Continuous
	PERMIT REQUIREMENT	*****	*****		***** Instantaneous Minimum	*****	***** Instantaneous Maximum				
Total Suspended Solids (00530) Effluent Gross (1)  Lab ID: 40561	SAMPLE MEASUREMENT	13	20	lbs/day	*****	17	22	mg/L	0	Weekly	24-Hr Composite
	PERMIT REQUIREMENT	32 Monthly Average	64 Daily Maximum		*****	***** Monthly Average	***** Daily Maximum				
Ammonia Nitrogen (as N) (00610) Effluent Gross (1)	SAMPLE MEASUREMENT	2.41	3.44	lbs/day	*****	3.17	4.10	mg/L	0	Weekly	24-Hr Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	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 fine and imprisonment for knowing violations.	TELEPHONE		DATE		
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO

## DISCHARGE MONITORING REPORT (DMR)

**Facility Name:** Westinghouse Electric Company LLC/Columbia Fuel Fabrication Facility  
**Permit Number:** SC0001848 v2.1

**Permittee Name:** WESTINGHOUSE ELECTRIC COMPANY LLC

**DMR Period:** 9/1/2020 - 9/30/2020

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Lab ID: 40561	PERMIT REQUIREMENT	50 Monthly Average	100 Daily Maximum		****	**** Monthly Average	**** Daily Maximum			Weekly	24-Hr Composite
Total Phosphorus (as P) (00665) Effluent Gross (1)	SAMPLE MEASUREMENT	****	****		****	0.58	0.58	mg/L	0	Monthly	24-Hr Composite
Lab ID: 32010	PERMIT REQUIREMENT	****	****		****	**** Monthly Average	**** Daily Maximum				Monthly
Flow (50050) Effluent Gross (1)	SAMPLE MEASUREMENT	0.092	0.169	MGD	****	****	****		0	Daily	Continuous
Lab ID: 40561	PERMIT REQUIREMENT	**** Monthly Average	**** Daily Maximum			****	****	****			Daily
Total Residual Chlorine (50060) Effluent Gross (1)	SAMPLE MEASUREMENT	****	****		****	0.07	0.14	mg/L	0	Weekly	Grab
Lab ID: 40561	PERMIT REQUIREMENT	****	****		****	0.5 Monthly Average	1.0 Daily Maximum				Weekly
E. COLI (MPN/100ML) (51040) Effluent Gross (1)	SAMPLE MEASUREMENT	****	****		****	0	0	MPN/100mL	0	Monthly	Grab
Lab ID: 32571	PERMIT REQUIREMENT	****	****		****	126 30 Day Average Geometric	349 Daily Maximum				Monthly
LENGTH OF LONGEST PH EXCURSION (72107)	SAMPLE MEASUREMENT	****	****		****	****	0	min	0	Daily	Continuous

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## DISCHARGE MONITORING REPORT (DMR)

**Facility Name:** Westinghouse Electric Company LLC/Columbia Fuel Fabrication Facility  
**Permit Number:** SC0001848 v2.1

**Permittee Name:** WESTINGHOUSE ELECTRIC COMPANY LLC

**DMR Period:** 9/1/2020 - 9/30/2020

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
See Comments (P) Lab ID: 40561	PERMIT REQUIREMENT	*****	*****		*****	*****	60 Instantaneous Maximum			Daily	Continuous
% OF TIME EXCEEDING PH LIMITS (72108) See Comments (P) Lab ID: 40561	SAMPLE MEASUREMENT	*****	*****		*****	*****	0	%	0	Daily	Continuous
	PERMIT REQUIREMENT	*****	*****		*****	*****	1 Instantaneous Maximum			Daily	Continuous

**DMR Instructions:** MLOC=P - ALLOWABLE PH IS 6.0 - 9.0.

**DMR Comments:** Revision 11/18/2020: Ammonia data updated to include September 30 samples. TSS average data updated to include September 30 samples. These results were not included during original submission due to lab report error, discovered during preparation of October 2020 DMR.

The plant discharged 29 of 30 days during September 2020. On September 2, the weekly total residual chlorine (TRC) sample result tested below the PQL of 0.05 mg/l and was therefore reported as zero. Chlorine is analyzed by the Westinghouse onsite chemical laboratory by SM 4500-CL G-2011. On September 10, the monthly e. coli sample result tested below the PQL of 1 MPN/100 ml and was therefore reported as zero. E. coli is analyzed by Access Analytical according to SM 9223 B-2004.

At approximately 02:00 on 9/27/20, a pump seal in our wastewater treatment area failed, spraying a fine mist onto the rocks just outside the containment pad. The estimated quantity was less than a pint of Conversion area wastewater consisting of ammonium fluoride and uranium. The uranium concentration in the tank was 90.62 ppm U. An approximate 2 foot by 2 foot area outside the containment dike was cleaned up. No solution impacted the ground or storm drains. The issue was entered into our Corrective Action Program # 2020-10832 and reported to the Midlands EQC on 9/28/20.

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<b>TYPED OR PRINTED</b>		<b>SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT</b>	<b>AREA CODE</b>	<b>NUMBER</b>	<b>YEAR</b>	<b>MO</b>

## DISCHARGE MONITORING REPORT (DMR)

**Facility Name:** Westinghouse Electric Company LLC/Columbia Fuel Fabrication Facility  
**Permit Number:** SC0001848 v2.1

**Permittee Name:** WESTINGHOUSE ELECTRIC COMPANY LLC

**DMR Period:** 9/1/2020 - 9/30/2020

At 04:42 on 10/06/2020, a sample valve was found open in our ammonia distillation process, overflowing still bottoms into the distillation building, floor trench, and nearby storm drain. A routine process sample had been pulled at 04:00. The estimated quantity spilled outside of the building was 350 gallons of water and lime, containing 27 ppm ammonia, <10 ppm fluoride, and 0.09 ppm uranium, with a pH of 11.98. This spill did not contain a reportable quantity (RQ) of any chemical. No material from the spill was discharged from the site. Lime settled in the storm water ditch system at "A Valve", about 800 feet from the site's single discharge point for storm water, "C Valve". The impacted area was less than 10' x 4' and the settled material was removed by portable pump with collection in 250-gallon plastic totes for additional sampling and proper disposal. Sample results were provided to the Midlands EQC. Aquatic life in the ditch continues to be active. The issue was entered into our Corrective Action Program as # 2020-11160.

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TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO



## DISCHARGE MONITORING REPORT (DMR)

**Facility Name:** Westinghouse Electric Company LLC/Columbia Fuel Fabrication Facility **Permit Number:** SC0001848 v2.1

**Permittee Name:** WESTINGHOUSE ELECTRIC COMPANY LLC

**DMR Period:** 10/1/2020 - 10/31/2020

**Limit Set:** 0011

**No Discharge:**

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Dissolved Oxygen (00300) Effluent Gross (1)  Lab ID: 40561	SAMPLE MEASUREMENT	*****	*****		5.8	*****	*****	mg/L	0	Weekly	Grab
	PERMIT REQUIREMENT	*****	*****		1.0 Instantaneous Minimum	*****	*****			Weekly	Grab
BOD - 5 DAY (20 DEGREES C) (00310) Effluent Gross (1)  Lab ID: 10120	SAMPLE MEASUREMENT	10.2	17.0	lbs/day	*****	12.5	19.8	mg/L	0	Weekly	24-Hr Composite
	PERMIT REQUIREMENT	30 Monthly Average	60 Daily Maximum		*****	***** Monthly Average	***** Daily Maximum			Weekly	24-Hr Composite
pH (00400) See Comments (P)  Lab ID: 40561	SAMPLE MEASUREMENT	*****	*****		6.2	*****	8.3	SU	0	Daily	Continuous
	PERMIT REQUIREMENT	*****	*****		***** Instantaneous Minimum	*****	***** Instantaneous Maximum			Daily	Continuous
Total Suspended Solids (00530) Effluent Gross (1)  Lab ID: 40561	SAMPLE MEASUREMENT	18	22	lbs/day	*****	22	27	mg/L	0	Weekly	24-Hr Composite
	PERMIT REQUIREMENT	32 Monthly Average	64 Daily Maximum		*****	***** Monthly Average	***** Daily Maximum			Weekly	24-Hr Composite
Ammonia Nitrogen (as N) (00610) Effluent Gross (1)	SAMPLE MEASUREMENT	5.43	6.02	lbs/day	*****	6.69	7.59	mg/L	0	Weekly	24-Hr Composite

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**DMR Period:** 10/1/2020 - 10/31/2020

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Lab ID: 40561	PERMIT REQUIREMENT	50 Monthly Average	100 Daily Maximum		*****	***** Monthly Average	***** Daily Maximum			Weekly	24-Hr Composite
Total Phosphorus (as P) (00665) Effluent Gross (1)	SAMPLE MEASUREMENT	*****	*****		*****	1.4	1.4	mg/L	0	Monthly	24-Hr Composite
Lab ID: 32010	PERMIT REQUIREMENT	*****	*****		*****	***** Monthly Average	***** Daily Maximum				Monthly
Flow (50050) Effluent Gross (1)	SAMPLE MEASUREMENT	0.096	0.115	MGD	*****	*****	*****		0	Daily	Continuous
Lab ID: 40561	PERMIT REQUIREMENT	***** Monthly Average	***** Daily Maximum		*****	*****	*****				Daily
Total Residual Chlorine (50060) Effluent Gross (1)	SAMPLE MEASUREMENT	*****	*****		*****	0.12	0.19	mg/L	0	Weekly	Grab
Lab ID: 40561	PERMIT REQUIREMENT	*****	*****		*****	0.5 Monthly Average	1.0 Daily Maximum				Weekly
E. COLI (MPN/100ML) (51040) Effluent Gross (1)	SAMPLE MEASUREMENT	*****	*****		*****	0	0	MPN/100mL	0	Monthly	Grab
Lab ID: 32571	PERMIT REQUIREMENT	*****	*****		*****	126 30 Day Average Geometric	349 Daily Maximum				Monthly
LENGTH OF LONGEST PH EXCURSION (72107)	SAMPLE MEASUREMENT	*****	*****		*****	*****	0	min	0	Daily	Continuous

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## DISCHARGE MONITORING REPORT (DMR)

**Facility Name:** Westinghouse Electric Company LLC/Columbia Fuel Fabrication Facility  
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**Permittee Name:** WESTINGHOUSE ELECTRIC COMPANY LLC

**DMR Period:** 10/1/2020 - 10/31/2020

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
See Comments (P) Lab ID: 40561	PERMIT REQUIREMENT	*****	*****		*****	*****	60 Instantaneous Maximum			Daily	Continuo us
% OF TIME EXCEEDING PH LIMITS (72108) See Comments (P) Lab ID: 40561	SAMPLE MEASUREMENT	*****	*****		*****	*****	0	%	0	Daily	Continuo us
	PERMIT REQUIREMENT	*****	*****		*****	*****	1 Instantaneous Maximum			Daily	Continuo us

**DMR Instructions:** MLOC=P - ALLOWABLE PH IS 6.0 - 9.0.

**DMR Comments:** The plant discharged 28 of 31 days during October 2020.

On October 14, the monthly e. coli sample result tested below the PQL of 1 MPN/100 ml and was therefore reported as zero. E. coli is analyzed by Access Analytical according to SM 9223 B-2004.

<b>NAME/TITLE PRINCIPAL EXECUTIVE OFFICER</b>	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 fine and imprisonment for knowing violations.	<b>TELEPHONE</b>		<b>DATE</b>		
<b>TYPED OR PRINTED</b>		<b>SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT</b>	<b>AREA CODE</b>	<b>NUMBER</b>	<b>YEAR</b>	<b>MO</b>