



Westinghouse Electric Company
Nuclear Fuel
Columbia Fuel Fabrication Facility
5801 Bluff Road
Hopkins, South Carolina 29061
USA

SCDHEC, BLWM
Kim Kuhn
2600 Bull Street
Columbia, SC 29201

Direct tel: 803.647.1920
Direct fax: 803.695.3964
e-mail: joynerdp@westinghouse.com
Your ref:
Our ref: LTR-RAC-24-24

April 4, 2024

Subject: **March** 2024 CA Progress Report

Ms. Kuhn:

In accordance with Item 19 of Consent Agreement (CA) 19-02-HW, this progress report is being submitted to you, including the following requested information:

- (a) a brief description of the actions which Westinghouse has taken toward achieving compliance with the Consent Agreement during the previous month;
- (b) results of sampling and tests, in tabular summary format received by Westinghouse during the reporting period;
- (c) a brief description of all actions which are scheduled for the next month to achieve compliance with the Consent Agreement, and other information relating to the progress of the work as deemed necessary or requested by the Department; and
- (d) information regarding the percentage of work completed and any delays encountered or anticipated that may affect the approved schedule for implementation of the terms of the Consent Agreement, and a description of efforts made to mitigate delays or avoid anticipated delays.

In response to the above requirements, the following is being reported to the Department since the last progress report submitted on **March 11, 2024**. The following progress report is for work occurring from **March 1- 31, 2024**:

- (a) Actions during the previous month:
In accordance with **Item 7** of the Consent Agreement and to support completion of the **Feasibility Study (FS) Report** due on or before November 30, 2024, Westinghouse continued work as follows:
 - Submitted and received approval for an assessment work plan to identify the vertical extent of uranium (U) impact in the Middle Ditch.
 - Groundwater flow model:
 - Established interim calibration for CVOCs, Nitrate, Fluoride, and Tc-99, generating simulated concentrations similar to those observed.
 - Began model runs to assess the fate and transport of U, including establishing an equilibrium distribution coefficient (Kd) for U.

- FS:
 - Continued development of remedial alternatives.
 - Continued selection of remedial alternatives for evaluation.
 - Began remedial alternatives design.
- (b) Results of sampling and tests:
- **Table 1** below includes monitored natural attenuation (MNA) results from six groundwater wells sampled in February 2024. The samples were collected at the request of the groundwater flow modeler to aid in the development of the model. **Table 2** below includes the off-cycle isotopic U sampling results for Well 56.

Table 1: CFFF February 2024 MNA Results

Well	Date	Analyte		Acetylene	Ethane	Ethene	Methane	Ferrous Iron	Iron	Manganese	Chloride
		Units	Type	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
			Result	Result	Result	Result	Result	Result	Result	Result	Result
W-94	2/14/2024	N	< 10	< 10	< 10	< 10	< 10	0.21	2.5	0.28	8.3
W-105	2/13/2024	N	< 10	< 10	< 10	1300	10	12	1.1	98	
W-105	2/13/2024	FD	< 10	< 10	< 10	1200	10	12	1.1	98	
W-108	2/14/2024	N	< 10	< 10	< 10	1100	22	29	0.53	7.8	
W-124	2/13/2024	N	< 10	< 10	< 10	< 10	1.1	3.9	0.081	27	
W-125	2/13/2024	N	< 10	< 10	< 10	24	< 0.050	0.21	0.0087	18	
W-126	2/13/2024	N	< 10	< 10	< 10	< 10	5.1	5.6	0.33	15	

Pace Lab Reports: ZB13034, ZB14027

Table 2: Well 56 February 2024 Results

Well	W-56
Date Sampled	2/13/2024
Units	ug/L
Analyte	Result
U-234	0.136
U-235	14.3
U-238	449
Total U	463

GEL Lab Report: WO655245

- (c) Brief description of all actions which are scheduled for the next month:
- Schedule Middle Ditch profile sampling.
 - Complete semiannual sampling of 118 groundwater wells.
 - Groundwater flow model:
 - Finalize the calibration for U.
 - Return to calibrations of other COPCs to verify and document the calibration.
 - Begin to document the modeling effort in a slideshow presentation.
 - FS:
 - Finalize development of remedial alternatives.
 - Finalize selection of remedial alternatives for evaluation.
 - Continue remedial alternatives design and begin evaluation.
- (d) Percentage of work completed, and any delays encountered or anticipated:
- 100% of the **Remedial Investigation** is complete.
 - 100% of the **Groundwater Flow Model** is completed.

- 100% of the **Feasibility Study Work Plan** is completed.
- 70% of the **Groundwater Fate and Transport Model** is completed.
- 40% of the **Feasibility Study** is completed:
 - Identification of remedial action objectives/goals (complete)
 - Screening of remedial technologies (complete)
 - Development and evaluation of remedial alternatives (20% complete, 75% of overall FS).
- Currently there are no anticipated delays.

Respectfully,



Diana P. Joyner
Principal Environmental Engineer
Westinghouse Electric Company, CFFF
803.497.7062 (m)

cc : N. Parr, Environmental Manager
J. Ferguson, EH&S Manager
J. Grant, AECOM Project Manager
S. Subosits, Licensing Engineer
ENOVIA Records