

Westinghouse Electric Company

Nuclear Fuel

Columbia Fuel Fabrication Facility

5801 Bluff Road

Hopkins, South Carolina 29061

USA

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Your ref:

Our ref: LTR-RAC-25-31

July 2, 2025

Subject: Groundwater Well Installations

CVOC Pilot Study PMWs, W-127, and W-23A

Mr. Cassidy:

Westinghouse Electric Company Columbia Fuel Fabrication Facility (CFFF) located in Hopkins, SC is requesting authorization to install fourteen groundwater wells. Twelve wells are designated as chlorinated volatile organic compounds (CVOC) performance monitoring wells (PMWs) to support the Pilot Study Work Plan¹. The other two wells are new installations / relocations to support LEU+ construction activities.²

The locations of the PMWs are the same as those proposed in the Pilot Study Work Plan (Figure 10) in January 2025. PMWs will be named PMW-1A, PMW-1B, PMW-2A, etc.

Prior to abandonment of W-85 and W-86 and in order to support LEU+ construction activities, CFFF requests permission to install lower zone monitoring well W-127. W-127 will be paired with existing upper zone monitoring well W-84 to ensure there are no data gaps in the eastern edge of the building monitoring system well network.

Well W-23R also needs to be relocated in order to support LEU+ construction activities. CFFF requests permission to relocate well W-23R to the south/southeast and rename it well W-23A, as illustrated in the attached Figure 4.

In accordance with the aforementioned work needed to support the Pilot Study as well as LEU+ construction activities, please find attached for your review the following documents prepared by AECOM for CFFF:

- Monitoring Well Application, 14 wells (12 Pilot Study, 2 LEU+ construction installation / relocation)
- Typical Monitoring Well Schematics
- CVOC Pilot Test Layout (Figure 10, January 2025)
- Site Map (Figure 4, January 2025) with proposed locations for new wells W-23A and W-127 identified

In summation, CFFF and AECOM request well permits for 12 performance monitoring wells (PMW- 1A, PMW-1B, PMW-2A, etc. and 2 additional wells (W-127, W-23A). Please note that the performance wells will have groundwater samples collected from them this month, while wells W-23A and W-127 will not be sampled until the next routine groundwater sampling campaign in October 2025.

Please contact me if there are any questions regarding this submission.

¹The Pilot Study Work Plan was submitted to SCDES on January 30, 2025 (LTR-RAC-25-10) and was later approved by SCDES on February 20, 2025.

² CFFF LTR-RAC-24-50 requested abandonment of W-85 and W-86 (submitted on October 10, 2024); SCDES approved the abandonment on October 14, 2024

Respectfully,

Diana P. Joyner

Lead Environmental Engineer

Westinghouse Electric Company, CFFF

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C. Fizgerald, PE, AECOM Engineering Manager

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ENOVIA Records

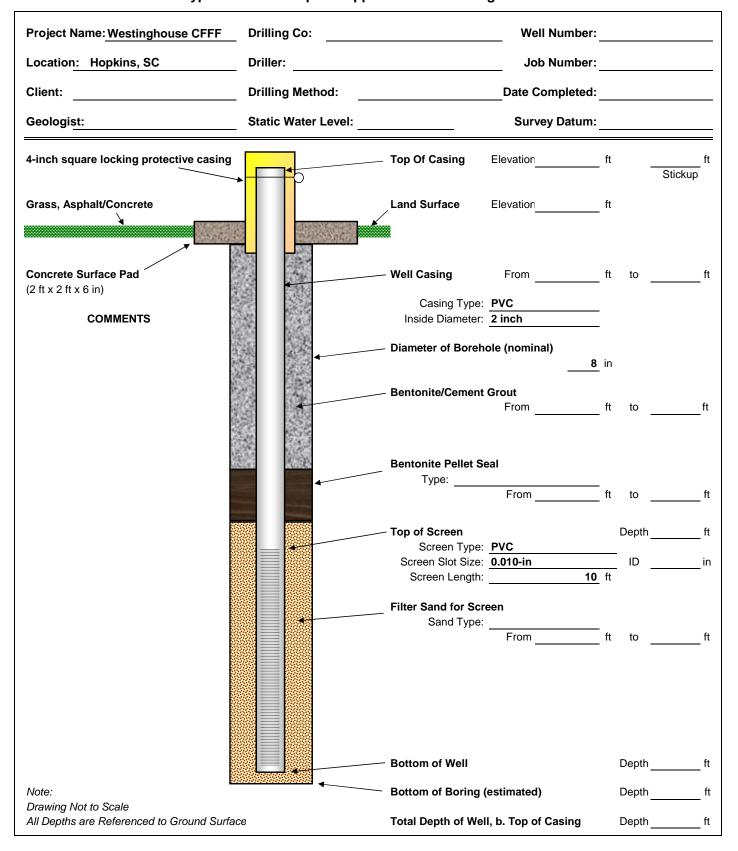


Monitoring Well Application

	<u>l</u>		T . 1.1D	XX7 11/ \		
1.	Proposed Location of Monitoring Well(s):		5. Intended Purpose of Well(s):			
	Street Address:		Pre-Purchase	NOTE: If this request is for an existing DHEC project, please		
			Investigation	enter the Program area and ID number below.		
	City (including Zip):					
	County:		Program Area: Project or Site ID #:			
	Please attach Scaled Map or Plat	6.	6. Proposed number of monitoring wells:			
2.	Well Owner's Information:	7.	7. Proposed parameters to be analyzed (check all that apply), please specify analytical method beside check box:			
	Name (Last then First):					
			VOCs BTEX			
	Company: Complete Address: Telephone Number:		tBE			
			Naphthalene			
			PAHs			
			Metals			
			trates			
			se, Neutral & Acid Ex.			
			Pesticides/Herbicides			
3.	Property Owner's Information:	Ph	Phenols			
	Check if same as Well Owner	Ra	dionuclides			
	Name (Last then First):	PC	CBs			
	Company:	Ot	her (specify below)			
	Address:					
	Telephone Number:	8.	Proposed construction proposed monitoring	on details (complete and attach well schematics):		
4.	Proposed Drilling Date:					
	7/7/25					



Typical Surficial Aquifer Upper Zone Monitoring Well Schematic - Above Grade





Typical Surficial Aquifer Lower Zone Monitoring Well Schematic - Above Grade

Project Name: Westinghouse CFFF	ct Name: Westinghouse CFFF Drilling Co: Well Number			
Location: Hopkins, SC	Driller:	Job Number:		
Client: Drilling Method:		Date Completed:		
Geologist: Static Water Level:				
4-inch square locking protective casing		Top Of Casing Elevation_	ftft	
Grass, Asphalt/Concrete		Land Surface Elevation	_ ft	
Concrete Surface Pad (2 ft x 2 ft x 6 in)		- Well Casing From Casing Type: PVC		
COMMENTS		Inside Diameter: 2 inch	-	
		- Bentonite/Cement Grout	_ in	
		Bentonite Pellet Seal Type: From From From	ft toft	
	*	Top of Screen Screen Type: PVC Screen Slot Size: 0.010-in Screen Length: 5	Depth ft ID in	
		Filter Sand for Screen Sand Type: From	ft toft	
Note:		- Bottom of Well - Bottom of Boring (estimated)	Depth ft	
Drawing Not to Scale All Depths are Referenced to Ground Surfac	ee	Total Depth of Well, b. Top of Casing	Depthft	



Typical Surficial Aquifer Upper Zone Monitoring Well Schematic - Below Grade

Project Name: Westinghouse CFFF Drilling Co:		Well Number:		
		Job Number:		
Client:	Drilling Method:		Date Completed:	
Geologis <u>t:</u>	Static Water Level:	Static Water Level: Survey D		
8-inch diameter steel vault		Top Of Casing Elev	vationf	Stickup ft
Grass, Asphalt/Concrete		Land Surface Elev	vationf	t
Concrete Surface Pad (2 ft x 2 ft x 6 in)			From f1	toft
COMMENTS		Casing Type: PVC Inside Diameter: 2 in		
		 Diameter of Borehole ((nominal)	
		– Bentonite/Cement Gro		
		Bentonite Pellet Seal Type:	From ff	: toft
	•	Top of Screen Screen Type: PV(Screen Slot Size: 0.0		Depth ft
		Screen Length:		
		Sand Type:	Fromf	t toft
		- Bottom of Well		Depthft
Note: Drawing Not to Scale		Bottom of Boring (estin	mated)	Depthft
All Depths are Referenced to Ground Surface	ce	Total Depth of Well, b.	Top of Casing	Depthft



Typical Surficial Aquifer Lower Zone Monitoring Well Schematic - Below Grade

Project Name: Westinghouse CFFF Drilling Co:		Well Number:		
		Job Number:		
Client:	Drilling Method:	Date Completed	:	
Geologis <u>t:</u>	Static Water Level:	Survey Datum	:	
8-inch diameter steel vault		Top Of Casing Elevation	ft Stickup	
Grass, Asphalt/Concrete		Land Surface Elevation	_ ft	
Concrete Surface Pad (2 ft x 2 ft x 6 in)			_ ft toft	
COMMENTS		Casing Type: PVC Inside Diameter: 2 inch	_	
		Diameter of Borehole (nominal)	_	
		Bentonite/Cement Grout	3 inft	
		Bentonite Pellet Seal Type:From	ft to ft	
	•	Screen Slot Size: Screen Length:	Depth ft ft in in	
		_ Filter Sand for Screen Sand Type: From	_ ft toft	
		- Bottom of Well	Depthft	
Note:	←	Bottom of Boring (estimated)	Depth ft	
Drawing Not to Scale All Depths are Referenced to Ground Surface	ce	Total Depth of Well, b. Top of Casing	Depthft	

