

June 15, 2023
File No. 25220183.00

Mr. Brian Clepper
Columbia Energy Center
W8375 Murray Rd.
Pardeeville, WI 53954

Subject: Groundwater Monitoring System Certification
Columbia Dry Ash Disposal Facility, Modules 10-11, Pardeeville, Wisconsin

Dear Mr. Clepper:

This letter certifies, pursuant to 40 CFR 257.91(f), that the groundwater monitoring system at the Columbia Dry Ash Disposal Facility (COL MOD 10-11) is designed and constructed to meet the requirements of 40 CFR 257.91 and NR 507.15(3). The monitoring network is sufficient to accurately represent the quality of background groundwater that has not been affected by leakage from the coal combustion residual (CCR) unit and the quality of groundwater passing the waste boundary of the CCR unit.

Based on the design information developed for placement in the site Operating Record to meet the requirements of 40 CFR 257.105(h)(2) and NR 506.17(2)(e) and provided for our review, the number, spacing, and depths of the monitoring system components were determined using site-specific information in accordance with 40 CFR 257.91(b) and NR 507.15(3)(b).

The groundwater monitoring system consists of two upgradient and three downgradient monitoring wells, which exceeds the minimum requirements of 40 CFR 257.91(c)(1) and NR 507.15(3)(c)(1).

The groundwater monitoring system for COL MOD 10-11 is monitoring COL Dry Ash Disposal Facility Modules 10 and 11.



COL MOD 10-11 is a lateral expansion of an existing CCR landfill made after October 19, 2015. Once construction is completed, these two modules will be recognized as a single new CCR landfill unit; therefore, the groundwater monitoring network is identified as monitoring a single CCR unit.

The groundwater monitoring system is designed to detect monitored constituents at the waste boundary of the facility as required by 40 CFR 257.91(d).

Based on the installation documentation developed for placement in the site Operating Record to meet the requirements of 40 CFR 257.105(h)(2) and NR 506.17(2)(e) and provided for our review, the monitoring wells have been cased in a manner that will maintain the integrity of the monitoring well borehole and were constructed in accordance with the requirements of 40 CFR 257.91(e) and NR 507.15(3)(e).



PE Certification

 <p>06/15/2023</p>	<p>I, Sherren C. Clark, hereby certify that the groundwater monitoring system at the Columbia Dry Ash Disposal Facility, Modules 10-11, has been designed and constructed to meet the requirements of 40 CFR 257.91. This certification is based on my review of documentation in the operating record regarding the design, installation, and development of the groundwater monitoring system components. I am a duly licensed Professional Engineer under the laws of the State of Wisconsin.</p>	
		06/15/2023
	(signature)	(date)
	<p>Sherren Clark (printed or typed name)</p>	
	<p>License number <u>29863-06</u></p> <p>My license renewal date is July 31, 2024.</p> <p>Pages or sheets covered by this seal: Groundwater Monitoring System Certification Update, all pages.</p>	

Sincerely,



Sherren C. Clark, PE
 Project Director
 SCS Engineers



Thomas J. Karwoski, PG
 Senior Project Manager
 SCS Engineers

MDB/AJR_REO_jsn/TK/SCC

cc: Jeff Maxted, Alliant Energy
 Matt Bizjack, Alliant Energy

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