

December 9, 2021
File No. 25221134.00

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

Subject: Groundwater Monitoring System Certification
Columbia Dry Ash Disposal Facility – Modules 4, 5 and 6 (COL Mod 4-6),
Pardeeville, Wisconsin

Dear Mr. Clepper:

This groundwater monitoring system certification updates the certification that was previously provided for Columbia Dry Ash Disposal Facility Module 4 (COL Mod 4). The update is needed because the CCR Unit has been expanded with the addition of new Modules 5 and 6, constructed in 2021. The original groundwater monitoring system certification for COL Mod 4 was provided on December 27, 2018.

Under the CCR Rule, the CCR Unit comprising Columbia Dry Ash Disposal Facility Modules 4 through 6 (COL Mod 4-6) is considered to be a new landfill CCR Unit, because construction began after October 19, 2015. The COL Mod 4-6 CCR Unit is contiguous with the COL Mod 1-3 CCR Unit (existing landfill), but has a separate monitoring system.

The groundwater monitoring system for the COL Mod 4-6 CCR Unit is designed and constructed to meet the requirements of 40 CFR 257.91. The monitoring network is sufficient to accurately represent the quality of background groundwater that has not been affected by leakage from the coal combustion residue (CCR) unit and the quality of groundwater passing the waste boundary of the CCR unit.

Based on the design information 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).

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).

This groundwater monitoring system at the COL Mod 4-6 facility monitors a single CCR unit:

- Columbia Dry Ash Disposal Facility – Modules 4 through 6

Based on the installation documentation 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).



PE Certification

	<p>I, Sherren C. Clark, hereby certify that that the groundwater monitoring system for the Columbia Dry Ash Disposal Facility – Modules 4 through 6 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>
	<p><i>SC Clark</i> <i>12-9-2021</i></p>
	<p>(signature) (date)</p>
	<p><i>Sherren Clark</i></p>
	<p>(printed or typed name)</p>
<p>License number <u> E-29863 </u></p>	
<p>My license renewal date is July 31, 2022.</p>	
<p>Pages or sheets covered by this seal: <i>All</i></p>	
<p> </p>	
<p> </p>	

Sincerely,



Sherren C. Clark, PE
Project Director
SCS Engineers

PG/AJR_REO/SC

cc: Jeff Maxted, Alliant Energy



Thomas J. Karwoski, PG
Senior Project Manager
SCS Engineers