

SCS ENGINEERS

October 11, 2017
File No. 25216067.17

Mr. Nathaniel Sievers
Columbia Energy Center
W8375 Murray Road
Pardeeville, Wisconsin, 53954

Subject: Groundwater Monitoring System Certification
Columbia Energy Center Ash Ponds Facility, Pardeeville, Wisconsin

Dear Mr. Sievers:

The groundwater monitoring system at the Columbia Energy Center Ash Ponds Facility (APF) 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 background and four downgradient monitoring wells, which exceeds the minimum requirements of 40 CFR 257.91(c)(1).

The groundwater monitoring system at the Columbia Energy Center APF monitors a single existing CCR unit:



- Primary Ash Pond

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 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).



P.E. Certification

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|---|---|-----------------|
|  | <p>I, Sherren C. Clark, hereby certify that that the groundwater monitoring system at the Columbia Ash Ponds Disposal Facility 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>10-11-17</p> |
| | <p>(signature)</p> | <p>(date)</p> |
| | <p>Sherren Clark</p> | |
| | <p>(printed or typed name)</p> | |
| <p>License number <u>29863-6</u></p> | | |
| <p>My license renewal date is July 31, 2018.</p> | | |
| <p>Pages or sheets covered by this seal: <u>Letter (2 pages)</u></p> | | |
| <p> </p> | | |
| <p> </p> | | |

Sincerely,


 Sherren C. Clark, PE
 Project Director
SCS ENGINEERS


 Thomas J. Karwoski, PG
 Senior Project Manager
SCS ENGINEERS

MDB/AV/jsn/EN/SC/TK

cc: Jeff Maxted, Alliant Energy
 Jerry Lokenvitz, Columbia Energy Center