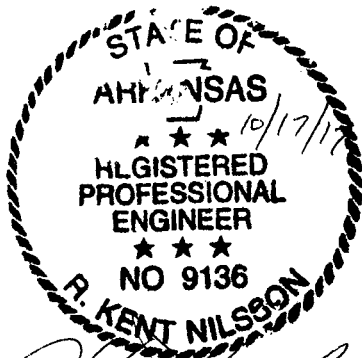


Groundwater Monitoring System Certification

Independence Steam Electric Station
Newark, Arkansas

October 2017

Prepared For
Entergy Arkansas Inc.



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Section 1

Regulatory Requirement

Pursuant to 40 C.F.R. § 257.91(a), the Independence Steam Electric Station has installed a groundwater monitoring system around its existing coal ash disposal landfill units regulated under 40 C.F.R. Part 257 that yields samples that accurately represents the quality of background groundwater that has not been affected by leakage from a coal combustion residuals (CCR) unit and accurately represents the quality of groundwater passing the waste boundary of the CCR unit. Per 40 C.F.R. § 257.91(f), the owner or operator must obtain a certification from a qualified professional engineer stating that the groundwater monitoring system has been designed and constructed to meet the requirements of 40 C.F.R. § 257.91.

Section 2 Certification

I, the undersigned Arkansas Professional Engineer, hereby certify that I am familiar with the technical requirements of 40 C.F.R. § 257.91. I also certify that it is my professional opinion that, to the best of my knowledge, information, and belief, that the groundwater monitoring system at the existing coal ash disposal landfill has been designed and constructed in accordance with current good and accepted engineering practice(s) and standard(s) appropriate to the nature of the project and the technical requirements of 40 C.F.R. § 257.91.


For the purpose of this document, "certify" and "certification" shall be interpreted and construed to be a "statement of professional opinion". The certification is understood and intended to be an expression of my professional opinion as an Arkansas Licensed Professional Engineer, based upon knowledge, information, and belief. The statement(s) of professional opinion are not and shall not be interpreted or construed to be a guarantee or a warranty of the monitoring system.

R. Kent Nilsson

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Printed Name of Professional Engineer

State of Arkansas License Number



October 16, 2017

Signature of Professional Engineer

Date