#### **Groundwater Monitoring System Certification**

### Roy S. Nelson Generating Plant Westlake, Louisiana

October 2017

Prepared For Entergy Louisiana, LLC.

Takek Élnaggar, P.E.

Principal

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Project Manager

#### **Table of Contents**

Section 1 Regulatory Requirement	. 1
Section 2 Certification	. 2

# Section 1 Regulatory Requirement

Pursuant to 40 C.F.R. § 257.91(a), the Roy S. Nelson Generating Plant 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 Louisiana 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 a Louisiana 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.

Tarek Elnaggar	23832
Printed Name of Professional Engineer	State of Louisiana License Number
OF LOUIS	October 16, 2017
Signature of Professional Engine	<b>7</b>
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Pivotal Engineering, LLC / TRC Environmental Corporation / Entergy Louisiana, LLC Groundwater Monitoring System Certification