aes Indiana

Eagle Valley Generating Station

2026 CCR Surface Impoundment Structural Stability Assessment

Revision 0

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Issue Purpose: For Use

Project No.: 10572-167

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1.0 PURPOSE

AES Indiana's Eagle Valley Generating Station ("Eagle Valley" or the "Station") has three existing coal combustion residual (CCR) surface impoundments, Ponds A, B, and C, that are regulated by the U.S. Environmental Protection Agency's (EPA) "Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments," 40 CFR Part 257 Subpart D, also referred to herein as the Federal CCR Rule. In accordance with 40 CFR 257.73(d)(1), this report documents the 2026 periodic structural stability assessment for Ponds A, B, and C at Eagle Valley. Pursuant to 40 CFR 257.73(f), this structural stability assessment was conducted and completed within five years of the previous assessment. The 2026 assessment updates the 2021 structural stability assessment using available annual inspection records through 2025 and information regarding ongoing closure construction.

2.0 STRUCTURAL STABILITY ASSESSMENT RESULTS

To develop the assessment presented herein, a review of the available construction documents, soil borings through the dikes, the annual inspections performed since 2021 by a qualified professional engineer in accordance with 40 CFR 257.83(b)(1), and AES Indiana's observations of the dikes has been completed. Pursuant to 40 CFR 257.73(d)(1), the standard for this evaluation is consistent with recognized and generally accepted good engineering practices. The review also considered the 2021 structural stability assessment, the 2025 Annual CCR Pond Inspection and its supporting document, and available information regarding the ongoing closure construction. The 2025 annual inspection was performed on November 18, 2025, while Ponds A, B, and C were undergoing closure construction.

2.1 STABLE FOUNDATIONS & ABUTMENTS

Federal CCR Rule Reference: 40 CFR 257.73(d)(1)(i)

The soils supporting the exterior dikes of Ponds A, B, and C are considered stable for the maximum volume of CCR and CCR wastewater which can be impounded therein. The 2025 annual inspection and available closure-construction information did not identify evidence of ongoing or imminent failure or structural deficiencies.

2.2 ADEQUATE SLOPE PROTECTION

Federal CCR Rule Reference: 40 CFR 257.73(d)(1)(ii)

At the time of this 2026 assessment, Ponds A, B, and C were undergoing closure construction and no final slopes had been established. The 2025 annual inspection did not identify conditions that would adversely affect stability. During closure construction, the exposed slopes and surrounding areas should continue to be

monitored and maintained in accordance with the approved closure documents and the Station's inspection program.

2.3 COMPACTED DIKES

Federal CCR Rule Reference: 40 CFR 257.73(d)(1)(iii)

As documented by the Station's Safety Factor Assessment (completed in accordance with 40 CFR 257.73(e)), the existing dikes are adequately compacted to provide the required engineering properties to achieve the stability safety factors for the required loading conditions. Available annual inspection and closure-construction information did not identify compaction-related conditions that would indicate structural instability.

2.4 VEGETATED SLOPES

Federal CCR Rule Reference: 40 CFR 257.73(d)(1)(iv)

The requirement that vegetation on slopes of dikes and surrounding areas "not…exceed a height of six inches above the slope of the dike" was vacated by the U.S. Court of Appeals, District of Columbia Circuit after the provision was challenged following publication of the Federal CCR Rule in April 2015. See *USWAG et al.* v. *EPA*, No. 15-1219 (D.C. Circ. 2015). The U.S. EPA has yet to finalize a rule that re-establishes vegetative cover height limitations for CCR surface impoundments. Because closure construction is ongoing and no final slopes have been established, vegetation control and monitoring should continue as part of the closure-construction and inspection programs.

2.5 SPILLWAY

Federal CCR Rule Reference: 40 CFR 257.73(d)(1)(v)

The dikes, which are perched, do not have spillways. The Station's Inflow Design Flood Control System Plan (completed in accordance with 40 CFR 257.82(c)) indicates that spillways are not required for these CCR surface impoundments to adequately manage flow during and following the design storm event. The 2025 inspection did not identify a change to this condition; final closure drainage features should be confirmed from the approved closure design and survey information before final issuance.

2.6 HYDRAULIC STRUCTURES

Federal CCR Rule Reference: 40 CFR 257.73(d)(1)(vi)

Based on the annual inspections performed since 2021 by a qualified professional engineer in accordance with 40 CFR 257.83(b)(1), including the November 18, 2025 inspection, the accessible hydraulic structures

that pass through and beneath the dikes were observed to be in sound condition to the extent they are accessible. No conditions were identified that would disrupt the operation or safety of the applicable CCR surface impoundments.

2.7 ADJACENT WATER BODIES

Federal CCR Rule Reference: 40 CFR 257.73(d)(1)(vii)

The downstream slopes of the exterior dikes remain appropriate for the flooding risks of the adjacent White River and Discharge Canal. No information reviewed for this assessment indicated a change in the downstream flooding risks that would adversely affect structural stability.

3.0 CORRECTIVE MEASURES

Federal CCR Rule Reference: 40 CFR 257.73(d)(2)

No corrective measures are recommended based on the information reviewed for this assessment. AES Indiana should continue the closure-construction monitoring and maintenance activities identified in the approved closure documents and applicable inspection program.

4.0 CONCLUSION

This 2026 periodic structural stability assessment confirms that the three existing CCR surface impoundments at Eagle Valley – Pond A, Pond B, and Pond C – have been designed, constructed, operated, and maintained consistent with recognized and generally accepted good engineering practices to provide structural stability for the maximum volume of CCR and CCR wastewater which can be impounded therein. The ponds are currently undergoing closure construction; based on the available annual inspection and closure information, no evidence of ongoing or imminent failure or structural deficiencies was identified.

5.0 CERTIFICATION

Federal CCR Rule Reference: 40 CFR 257.73(d)(3)

I certify that:

- This periodic structural stability assessment was prepared by me or under my direct supervision.
- The work was conducted in accordance with the requirements of 40 CFR 257.73(d).
- I am a registered professional engineer under the laws of the State of Indiana.

Certified By: Travis Constantine Date: See Signature

Seal:

Travis Constantine
Digitally signed by Travis Constantine
Date: 2026.10.02 08:15:46-05'00'