

**40 CFR §257.102(f)(2)(i) Extension of Closure Timeframe
AESI Petersburg Type III Restricted Waste Landfill
April 12, 2024**

Indianapolis Power & Light Company d/b/a AES Indiana (AESI) hereby submits this notice of extension of the closure timeframe for the above-referenced coal combustion residuals (CCR) landfill as set out in 40 CFR §257.102(f)(2)(i). The project background, discussion of the extension of the closure timeframe, revised closure schedule, and certification are presented below.

1.0 BACKGROUND

The AESI Petersburg Generating Station Type III Restricted Waste Landfill is located approximately 2.9 miles northeast of the City of Petersburg in Pike County, Indiana, west of State Road 57. The Landfill was permitted to operate in 1983 by the Indiana Department of Environmental Management (IDEM) with a footprint of 80.1 acres. A permit modification was made in 1996 for a 43-acre expansion area east of the Landfill in anticipation of the receipt of additional CCR materials. A minor permit modification obtained in 2017 was made to revise the Landfill's design in undeveloped portions of the landfill to maintain the facility's readiness to receive CCR materials (and thereby continue the generating station's operations) if other off-site disposal locations ceased operation. However, in early 2023, AESI decided that the additional disposal space within the expansion area was no longer necessary. A permit modification was submitted to IDEM on May 18, 2023, requesting revision of the Landfill's footprint to return to the original 80.1 acres, and the Notification of Intent to Close for the Landfill was submitted on October 12, 2023. Further detail regarding the timeline of the Landfill's closure is presented below.

2.0 EXTENSION OF CLOSURE TIMEFRAME

40 CFR §257.102(f)(2)(i) states the following:

The timeframes for completing closure of a CCR unit specified under paragraphs (f)(1) of this section may be extended if the owner or operator can demonstrate that it was not feasible to complete closure of the CCR unit within the required timeframes due to factors beyond the facility's control.

AESI placed "Extension Request Documentation for 'Idle' Units" in the facility operating record on October 13, 2017, October 7, 2020, and October 1, 2021. This documentation indicated that while the landfill had only been operated within the original 80.1-acre permitted footprint, there was a potential need to dispose additional CCR materials in the 43-acre expansion area (permitted in 1994) that had not yet been constructed. The documentation further indicated that due to requirements contained in the CCR Rule, AESI had submitted a request for a minor permit modification to the Indiana Department of Environmental Management (IDEM) on October 6, 2017, to revise the design of the landfill to utilize a liner system, leachate collection system, and closure system compliant with the CCR Rule. In early 2023, AESI determined that the previously proposed 43-acre expansion area would not be needed and no further CCR materials would be disposed in the original footprint of the landfill. In recognition of this decision, AESI placed in the facility operating record, a Notification of Intent to Close, dated October 12, 2023, in accordance with 257.102(g).

According to 40 CFR 257.102(f)(1)(i), closure of existing CCR landfills must be complete within six months of commencing closure activities. As such, commencement of closure activities occurred on October 12, 2023. In advance of the commencement of these closure activities, AESI contracted with an engineering consultant (AECOM) to prepare the engineering documents required to submit a permit modification application to the IDEM. The permit modification application was submitted to IDEM on May 18, 2023 and requested elimination of the previously proposed 43-acre expansion area, reestablishment of the original 80.1-acre permitted landfill footprint and revisions to the final cover grades and final cover system. IDEM provided a request for additional information (RAI) related to the closure design on August 25, 2023. Engineering design activities were conducted by AECOM to respond to IDEM's RAI to provide supplemental design details, calculations, and associated design-related documents.

On March 22, 2024, AESI submitted to IDEM a response to their RAI as well as an addendum to the permit modification application that included engineering design documents in support of a revised landfill closure cap design. As of the date of this document, the permit modification is under review by IDEM and has not yet been approved by the agency. Without IDEM approval of the landfill closure design, detailed design activities cannot be finalized, a construction contractor cannot be procured, closure construction materials cannot be purchased, and closure construction cannot begin. It is because of the activities described in this timeline of events that it has not been feasible to complete the closure of the landfill within the required timeframe.

3.0 REVISED CLOSURE SCHEDULE

40 CFR §257.102(f)(2)(i) states the following:

If the owner or operator is seeking a time extension beyond the time specified in the written closure plan as required by paragraph (b)(1) of this section, the demonstration must include a narrative discussion providing the basis for additional time beyond that specified in the closure plan.

The Closure Plan Modification 1 (ATC, November 22, 2016) included in the facility's operating record identifies a 6 month construction schedule in accordance with 257.102(f)(1)(i). AESI has re-evaluated the duration required to complete the multiple aspects necessary to successfully close the Petersburg Landfill. These aspects include the following: obtain approval of closure design and permit modification from the IDEM, prepare detailed engineering documents, procure a construction contractor, procure the proposed closure system materials, and construct the proposed closure system. It is anticipated that the requested permit modification and closure design will be approved by IDEM by May 18, 2024 (one year after the permit modification application was submitted to IDEM). Following is a revised closure schedule for the Petersburg Landfill:

Table 1. Revised Closure Schedule for the Petersburg Landfill

Landfill Closure Activity	Anticipated Timeframe
IDEM Review of Closure Design and Permit Modification Application	5/18/2023 – 5/18/2024
Detailed Design of Closure System	May – November 2024
Procurement of Construction Contractor	July – October 2024
Procurement of Construction Materials	October 2024 – February 2025
Construction: Earthwork and Subgrade Preparation	February 2025 – May 2025
Construction: Geosynthetics and Cover Materials Installation	May 2025 – October 2025
Construction: Stormwater Management Controls and Site Stabilization	October 2025 – November 2025
Certification of Closure by Professional Engineer	December 2025

4.0 CERTIFICATION

Per 40 CFR §257.102(e)(2)(iii), AESI’s undersigned authorized representative certifies the following:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this demonstration and all attached documents, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."



4/9/2024

REPRESENTATIVE’S SIGNATURE

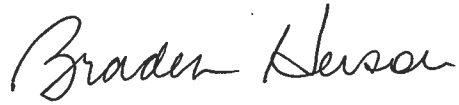
DATE

Mandy Snyder

REPRESENTATIVE’S NAME (TYPED)

If you have any questions regarding this submittal, please contact the undersigned at 812.601.7222.

Sincerely,
AES Corporation

A handwritten signature in black ink that reads "Braden Henson". The signature is written in a cursive, flowing style.

Braden Henson
Environmental Scientist

cc:

Pilar Cuadra (AES)
Cory Richardson (AES)
David Heger (AES)
Jay D. Mokotoff (AECOM)