

Former Springdale Fly Ash Settling Basins Coal Combustion Residual Annual Report

Former Springdale Power Station
Allegheny County, Pennsylvania

GAI Project Number: C150917.70

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Certification/Statement of Professional Opinion

The Annual Inspection of the former Springdale Fly Ash Settling Basins was performed by GAI Consultants, Inc. (GAI) on Tuesday, January 13, 2026. The Inspection was based on certain information identified in Section 3.0 that GAI has relied on but not independently verified and the visual observations made by GAI personnel at the Site during specific site visits. Therefore, this Certification / Statement of Professional Opinion is limited to the information available to GAI at the time the Inspection was performed. On the basis of and subject to the foregoing it is my professional opinion as a Professional Engineer licensed in the Commonwealth of Pennsylvania that the Inspection has been performed in accordance with good and accepted engineering practices as exercised by other engineers practicing in the same discipline(s), under similar circumstances and at the time and in the same locale. It is my professional opinion that the Annual Inspection Report was prepared consistent with the requirements of the United States Environmental Protection Agency's "Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments," published in the Federal Register on April 17, 2015 with an effective date of October 19, 2015 and amended on May 8, 2024 with an effective date of November 8, 2024.

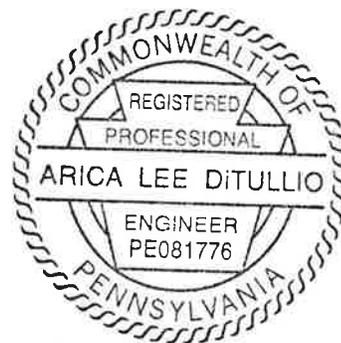
The use of the words "certification" and/or "certify" in this document shall be interpreted and construed as a Statement of Professional Opinion and is not and shall not to be interpreted or construed as a guarantee, warranty or legal opinion.



Arica L. DiTullio, P.E.

2/6/2026

Date



1.0 Purpose

Pursuant to the Federal Coal Combustion Residuals (CCR) Rule at 40 CFR 257.83 and 257.100(f)(3)(iv), each CCR unit (including a legacy CCR surface impoundment) is to have an annual inspection and report prepared by a qualified professional engineer. The inspection is to include:

- A review of available information regarding the status and condition of the CCR unit, including, but not limited to, files in the operating record;
- A visual inspection of the CCR unit to identify signs of distress or malfunction of the CCR unit and appurtenant structures; and
- A visual inspection of any hydraulic structures underlying the base of the CCR unit or passing through the dike of the CCR unit for structural integrity and continued safe and reliable operation.

The Inspection Report is to include:

- Any changes in geometry of the impounding structure since the previous annual inspection;
- The location and type of existing instrumentation and the maximum recorded readings of each instrument since the previous annual inspection;
- The approximate minimum, maximum, and present depth and elevation of the impounded water and CCR since the previous annual inspection;
- The storage capacity of the impounding structure at the time of the inspection;
- The approximate volume of the impounded water and CCR at the time of the inspection;
- Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit and appurtenant structures; and
- Any other change(s) which may have affected the stability or operation of the impounding structure since the previous annual inspection.

This report fulfills the requirements for the initial annual inspection of a legacy CCR surface impoundment as outlined at Section 257.100(f)(3)(iv) of the CCR Rule.

2.0 Introduction

The former Springdale Fly Ash Settling Basins (Fly Ash Settling Basins) are legacy CCR surface impoundments located adjacent to the former Springdale Power Station (Station), an inactive electric utility located in the Township of Springdale in Allegheny County, Pennsylvania (PA).

Based on review of available historic documentation and surrounding topography, the former North and South Fly Ash Settling Basins were partially incised impoundments. Historic documentation and current topography indicate the former North and South Fly Ash Settling Basins were approximately 5 and 4.5 acres while they were in use, respectively. The former Fly Ash Settling Basins have been observed various times in 2025. The former North Fly Ash Settling Basin contains moderately dense vegetation consisting of trees and shrubs. The former South Fly Ash Settling Basin contains moderately dense vegetation with some areas containing trees and shrubs and other areas containing meadow grass. No standing surface water has been observed in the former Fly Ash Settling Basins during field visits conducted in 2025.

The former Fly Ash Settling Basins are bounded by the Allegheny River to the east and north, an active railroad to the west, and the former Station area to the south. No karst topography exists in the general vicinity of the former Fly Ash Settling Basins.

Available Station records reviewed do not contain record of an identification number assigned to the former North Fly Ash Settling Basin or the former South Fly Ash Settling Basin by the state regulatory agency.

3.0 Information Review

Section 257.83(b)(1)(i) of the CCR Rule states that an inspection includes “a review of available information regarding the status and condition of the CCR unit, including, but not limited to, files available in the operating record (e.g., CCR unit design and construction information required by §257.73(c)(1) and §257.74(c)(1), previous periodic structural stability assessments required under §257.73(d) and §257.74(d), the results of inspections by a qualified person, and results of previous annual inspections)”.

GAI reviewed the following available information prior to performing the inspection:

- 7-day inspection reports from inspections conducted since the former Fly Ash Settling Basins became subject to the Rule on November 8, 2025;
- Historic aerial photographs; and
- Available drawings, reports, and other historical documentation.

Specific historical documents reviewed are listed in the References section.

Additionally, a file review request was submitted to the PA Department of Environmental Protection (PADEP) to obtain any additional historic documentation for the site. As of the date of posting, PADEP has provided some additional historic documentation. However, the documents received primarily contain information related to the former Station rather than the former Fly Ash Settling Basins.

4.0 Visual Inspection

4.1 General Information

The inspection was performed on Tuesday, January 13, 2026 by Derek Medved and Taylor Boring of GAI. They were accompanied by Allegheny Energy Supply Company, LLC representatives Jeff Kapolka, Jay Newbaker, and Zachary Milanak. The weather conditions were mostly cloudy, with temperatures ranging from 31 to 34 degrees Fahrenheit.

4.2 Inspection Strategy and Route

The GAI team inspected the former Fly Ash Settling Basins and facilities by making visual observations and recording site conditions.

The inspection started at the southeast corner of the former South Fly Ash Settling Basin and proceeded along the top of the eastern embankment. The inspection followed along the top of the eastern embankment of the former South Fly Ash Settling Basin to the eastern embankment of the former North Fly Ash Settling Basin. GAI proceeded along the top of the northern and western embankments of the former North Fly Ash Settling Basin to the center of the former South Fly Ash Settling Basin before returning to the southwest corner of the former South Fly Ash Settling Basin. The inspection observed the berms and interior of the former Fly Ash Settling Basins, abandoned discharge structures and sluice pipes, and the outside toe of the berms.

4.3 Facility Conditions

The crests and outside faces of the embankments were examined, and no cracking or slumping was observed. No visual signs of slope instability were observed. The crest alignment followed the alignment per available historic documentation with no visual indication of lateral or vertical movement. There was no standing pool observed within either of the former Fly Ash Settling Basins during the inspection. The entirety of the embankment and former Fly Ash Settling Basins areas are covered in

saplings to fully mature trees with some underbrush. Review of historic aerial imagery indicates that some of the trees may have been present during use of the former impoundments.

4.4 Geometry

Pursuant to §257.83(b)(2)(i), “any changes in the geometry of the impounding structure since the previous annual inspection” are reported.

Based on visual inspection and a review of the available historic documentation, no changes to the geometry of the former Fly Ash Settling Basins were observed.

4.5 Instrumentation

Pursuant to §257.83(b)(2)(ii), “the location and type of existing instrumentation and the maximum recorded readings of each instrument since the previous annual inspection” are reported.

There is no instrumentation currently used to monitor the former Fly Ash Settling Basins. A review of available historic documentation did not indicate monitoring locations. No other survey monuments or other monitoring instrumentation still in-place were identified in the historical documentation.

During the annual inspection, several temporary piezometers installed by GAI in the Summer 2025 as part of an investigation to determine whether the former Fly Ash Settling Basins were subject to the CCR Rule were observed within the extents of the former Fly Ash Settling Basins. Two piezometers located along the toe of the southern berm of the former South Fly Ash Settling Basin were equipped with protective casings fitted with lids and padlocks.

No readings, data, or engineering details from any other monitoring points have been discovered to date through a review of historic documentation for the site.

4.6 Depth and Elevation of Impounded Water and CCR

Pursuant to CFR §257.83(b)(2)(iii), “the approximate minimum, maximum, and present depth and elevation of the impounded water and CCR since the previous annual inspection” are reported.

Presently, the former Fly Ash Settling Basins are not operational. The berms in the southwestern corner of each basin have been partially removed; therefore, the basins are incapable of impounding significant surface water. Surface water within the former Fly Ash Settling Basins is minimal and occurs only as a result of stormwater in puddles and tire ruts. No other impounded standing water was observed within the former Fly Ash Settling Basins at the time of the inspection.

The elevation of impounded CCR within the former Fly Ash Settling Basins varies from an estimated 730.7 to 742.0 feet (average estimated as 738.6 feet) based on a review of existing topography and boring logs from the temporary piezometers. The minimum, maximum, and average depths of impounded CCR is estimated as 15 feet, 45 feet, and 30 feet, respectively. Note that no historic documents with topographical information prior to the installation of the former Fly Ash Settling Basins have been identified during a review of available files.

4.7 Storage Capacity

Pursuant to CFR §257.83(b)(2)(iv), “the storage capacity of the impounding structure at the time of the inspection” is reported.

The former South Fly Ash Settling Basin cannot impound any water due to the partially removed berm in the southwestern corner. A portion of the North Fly Ash Settling Basin has also been removed; however, the former unit has an approximate storage capacity of 9,037 cubic yards. This value is an estimate based on existing topographic features of the site.

4.8 Volume of Impounded Water and CCR

Pursuant to CFR §257.83(b)(2)(v), “the approximate volume of the impounded water and CCR at the time of the inspection” is reported.

The approximate volume of the impounded CCR and water in the former Fly Ash Settling Basins at the time of the inspection is estimated as 410,000 cubic yards. This estimate was developed based on a review of existing topography and comparison to an assumed topographic surface prior to construction of the former Fly Ash Settling Basins.

4.9 Structural Appearance

Pursuant to CFR §257.83(b)(2)(vi), “any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit and appurtenant structures” are reported.

Based on visual inspection, the former Fly Ash Settling Basins appeared to have no structural weaknesses, no existing conditions that are disrupting or that have the potential to disrupt the safety of the CCR units at the time of inspection. The former Fly Ash Settling Basins are not currently operational.

4.10 Unit Performance

Pursuant to CFR §257.83(b)(2)(vii), “any other change(s) which may have affected the stability or operation of the impounding structure since the previous annual inspection” are reported.

Based on a visual inspection, there did not appear to be any other changes that would affect the stability of the former Fly Ash Settling Basins. The former Fly Ash Settling Basins are not currently operational.

5.0 Conclusions and Recommendations

During the January 13, 2026 visual inspection of the former Fly Ash Settling Basins, GAI did not identify any signs of distress that would affect their structural condition. No structural stability concerns or releases of CCR were observed during this initial annual inspection.

The following are GAI’s recommendations to be completed when weather permits or during normal maintenance activities:

1. Remove large vegetation present on the embankments.
2. Continue to monitor the site for evidence of trespassing and install additional notices to dissuade entry.

6.0 References

Allegheny Energy Supply Company, *Federal CCR Rule 7-Day Inspection Form*, November 2025 through January 2026.

West Penn Power Company, *Drawing 23008 Rev E (Springdale Power Station. Unit No. 7 Extension to Power House, - Coal and Ash Storage)*, February 10, 1944.

West Penn Power Company, *Drawing T.F.54-1653 SH 1 (Springdale Power Station. Ash Disposal. Situation Plan – General Plan)*, August 30, 1945.

West Penn Power Company, *Drawing G-A17025 (Springdale Power Station General Plan)*, February 9, 1960.

APPENDIX A

Annual Inspection Checklist

**Legacy CCR Surface Impoundment
Inspection Checklist**

Project Name CCR Legacy Rule Initial Annual Inspection and Report - Former Springdale Power Station
 Project No. C150917.70
 Inspector Name Derek Medved, Taylor Boring
 Time 9:00 am - 11:00 am

Impoundment Name Former Springdale Fly Ash Settling Basins
 Date 1/13/2026
 Weather Conditions Cloudy
 Temperature 31-34°F

Review of Available Information (Preamble and 257.83(b)(i))	Reviewed	
Files in operating record	✓	reviewed prior to inspection
Design and construction drawings	✓	reviewed prior to inspection
Previous inspection forms	N/A	reviewed prior to inspection
Previous structural assessments	N/A	reviewed prior to inspection
Signage	✓	reviewed prior to inspection
Status and condition of impoundment	✓	reviewed prior to inspection

Comments:
 Available historic documentation was reviewed prior to inspection. The available historic documentation did not include any previous structural assessments

Visual Inspections (Preamble and 257.83)	Comments		
Weakness or malfunction of CCR or appurtenant structure?	yes	no	
Hydraulic structures under base or dike of CCR unit safe and reliable?	yes	no	Remnants of two discharge structures and outlet pipes still exist but are not operational.
Any changes in geometry?	yes	no	No change observed based on comparison to available historic documentation.
Any surface erosion detected? (257.73)	yes	no	
Approximate depth and elevations of impounded water and CCR?	min: 15 feet deep (El. 730.7 ft.) max: 45 feet deep (El. 742.0 ft.) average: 30 feet deep (El. 738.6 ft.)		
Impoundment storage capacity (current)?	former South Fly Ash Settling Basin = approximately 0 cu. yds. former North Fly Ash Settling Basin = approximately 9,037 cu. yds.		
Approximate volume of impounded water and CCR?	approximately 410,000 cu. yds.		
Location of instrumentation and max. reading?	No instrumentation present.		