



Ash Pond A Legacy CCR Impoundment

Disposal of Coal Combustion Residuals (CCR) from Electric Utilities Final Rule Legacy CCR Impoundment 2025 Annual Inspection Report

February 6, 2025

Prepared By:



Project ID: 25-0007

Big Rivers Electric Corporation
Disposal of Coal Combustion Residuals (CCR) from Electric Utilities Final Rule
Legacy CCR Impoundment 2025 Annual Inspection Report

CCR Surface Impoundment Information

Name: Inactive Ash Pond A Legacy CCR Impoundment
Operator: BREC Coleman Station
Address: 4982 River Road
Hawesville, Kentucky 42348

Qualified Professional Engineer

Name: David A. Lamb
Company: Associated Engineers, Inc.
Kentucky P.E. Number: 17822

Regulatory Applicability

Per 40 CFR §257.83(b), annual inspections by a qualified professional engineer must ensure that the design, construction, operation, and maintenance of the CCR unit is consistent with recognized and generally accepted good engineering standards.

Annual inspections of any CCR surface impoundment must include, at a minimum: (1) a review of all previously generated information regarding the status and condition of the CCR unit, including, but not limited to, all operating records and publicly accessible internet site entries, design and construction drawings and other documentation; (2) a thorough visual inspection to identify indications of distress, unusual or adverse behavior, or malfunction of the CCR unit and appurtenant structures; and (3) a thorough visual inspection of hydraulic structures underlying the base of the CCR unit and passing through the dike of the CCR unit for structural integrity and continued safe and reliable operation.

Additionally, following each annual inspection, the qualified professional engineer must prepare an inspection report which documents the following: (1) any changes in geometry of the impounding structure since the previous annual inspection; (2) the location and type of existing instrumentation and the maximum recorded readings of each instrument since the previous annual inspection; (3) the approximate maximum, minimum, and present depth and elevation of the impounded water and CCR since the previous annual inspection; (4) the storage capacity of the impounding structure at the time of inspection; (5) the approximate volume of the impounded water and CCR at the time of the inspection; (6) 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 (7) any other change(s) which may have affected the stability or operation of the impounding structure since the previous annual inspection.

Inspection Description

This is the first annual inspection report for the Ash Pond A CCR Impoundment pursuant to the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities Final Rule which became effective April 17, 2015. The inspection was conducted on February 6, 2025 by Brandon Watts of Associated Engineers, Inc. of Madisonville, Kentucky. Weekly (7-day) inspections conducted by Big Rivers Electric Corporation are kept in the facility operating record.

The pond has been dewatered and excavated to the extent that the dam no longer impounds water or CCR. The inspection consisted of a visual assessment of the surface impoundment, embankments and out of service discharge; and began along the east embankment on the access road. The access road is adequately rocked and maintained. The upstream slope had adequate stone cover. The downstream slope was well vegetated with only minor mower wheel tracking present. The open channel spillway was well rocked and clean of overgrown vegetation.

The north embankment crest was well maintained. The downstream slope was well vegetated and well maintained with only minor mower wheel tracking present. The upstream slope had adequate stone cover.

The west embankment crest was well maintained. The downstream slope was well vegetated and well maintained with a few areas of minor mower wheel tracking present. The upstream slope had adequate stone cover.

The south embankment crest was well maintained. The downstream slope was well vegetated and well maintained. The upstream slope had adequate stone cover.

Inspection Report Specifications

(i) Legacy CCR Impoundment Geometry

The Inactive Ash Pond A Legacy CCR Impoundment is a combined incised/earthen embankment structure. The pond covers an area of approximately forty-eight (48) acres; the embankment is approximately 5,900 feet long with a maximum height of 30 feet. The east embankment faces the Ohio River and has rock toe armoring and a rock downstream slope where the spillway is located. The embankments were built with 2.5:1 upstream and downstream slopes.

There have been no significant changes to the geometry of the impounding structure since the previous (2024) quarterly inspection. No CCR was placed in the pond after the coal units were retired in May 2014.

(ii) Legacy CCR Impoundment Instrumentation

There are six piezometers associated with the Inactive Ash Pond A CCR Surface Impoundment.

(ii) a – Piezometers

*Maximum elevation above mean sea level (AMSL) measured at each piezometer since Jan 1, 2025:

Piezometer ID	Top of Casing Elevation (AMSL)	Depth to Static Water Level	Static Water Elevation* (AMSL)
P-1	414.87	17.50	397.37
P-2	414.90	12.13	402.77
P-3	395.07	17.55	377.52
P-4	394.51	16.76	377.75
P-5	397.33	17.15	380.18
P-6	415.74	8.83	406.91

(iii) Legacy CCR Impoundment General Site Security

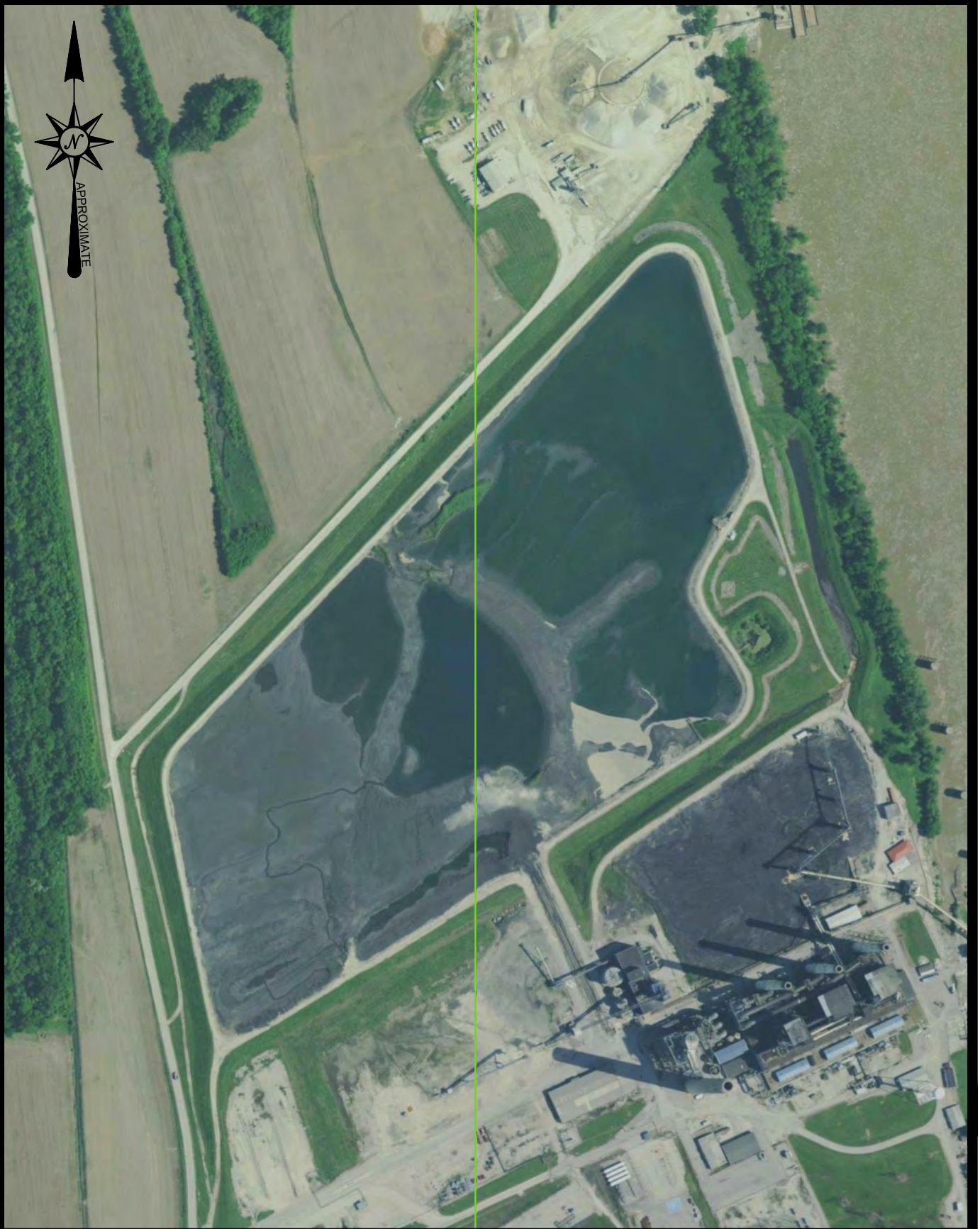
Chain link fencing is located at the site access locations with locked gates at all access points from the roadway. The gates are locked using chains and padlocks, possessing the key is the only way to access the site. Warning signage is posted on the fencing and gates.

(iv) Legacy CCR Impoundment Fugitive Dust Control

No visible dust plumes were observed during the inspection.

(v) Legacy CCR Impoundment Structural, Operational, and Safety Items

The inspection found that there were no appearances of an actual or potential structural weakness of the CCR unit, and no existing conditions that would result in the degradation of safety of the CCR unit and appurtenant structures.



Inactive Ash Pond A

Big Rivers Electric Corp.
Coleman Facility
Hawesville, Kentucky

Inspection Map

March 26, 2021

SCALE: 1" = 400'



2740 North Main Street, Madisonville, KY 42431
Phone: (270)821-7732 Fax: (270)821-7789

BREC COMPREHENSIVE IMPOUNDMENT INSPECTION CHECKLIST

Generating Station: <u>Coleman Station</u> Impoundment Name: <u>Inactive Ash Pond A</u> Impoundment ID #: _____ Date: <u>Feb 6, 2025</u>					Weather: <u>Cloudy</u> Temperature: <u>50°F</u> Inspectors: <u>B. Watts</u> Signature: _____		
ITEM		ISSUES			OBSERVATIONS	ACTION	
		YES	NO	N/A		Repair	Monitor
1	TOP OF DAM						
	Visual settlement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Misalignment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Cracking	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Access road Deterioration (potholes, rutting, etc)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2	UPSTREAM SLOPE						
	Any erosion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Longitudinal cracks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Transverse cracks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Adequate vegetative cover	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Are trees growing on the slope	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Adequate riprap/slope protection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Visual depressions	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Visual settlement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Any stone deterioration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Debris or trash present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

ITEM		ISSUES			OBSERVATIONS	ACTION	
		YES	NO	N/A		Repair	Monitor
3	DOWNSTREAM SLOPE & TOE						
	Any erosion	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Isolated Minor Erosion	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Longitudinal cracks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Transverse cracks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Adequate vegetative cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Are trees growing on the slope	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Visual depressions or bulges	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Isolated Mower Wheel tracking	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Visual settlement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Animal Burrows	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Are boils present at the toe or slopes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Are drainage features obstructed or damaged	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Area drainage features flowing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Is seepage present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Is seepage or discharge carrying sediment	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Soft or spongy zones present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4	ABUTMENTS						
	Any erosion	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Visual differential movement	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Any cracks noted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Any drainage features obstructed or damaged	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Are drainage features flowing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Is seepage present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Is seepage or discharge carrying sediment	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

ITEM		ISSUES			OBSERVATIONS	ACTION	
		YES	NO	N/A		Repair	Monitor
5	PRINCIPAL SPILLWAY						
	Any deterioration of the spillway structure	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Any deterioration of the spillway conduit	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Spillway clear from obstructions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Is water discharging from the pond	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Trash racks or skimmer operational	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Any signs of leakage with the structure or conduit	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Weir in good condition	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Pool Elevation	N/A			Dry	<input type="checkbox"/>	<input type="checkbox"/>
	Any Unusual Fluctuations in Water Level from Previous Inspection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
6	EMERGENCY SPILLWAY						
	Any deterioration of the spillway structure	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Spillway clear from obstructions	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Signs or erosion or slope sloughing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Adequate vegetative cover	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Signs of or currently discharging water	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
7	VALVES/GATES						
	Are the valves/gates operational	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Are the valves/gates broken or bent	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Are the valves/gates corroded or rusted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Have the valves/gates been maintained	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
8	DOWNSTREAM AREA						
	Recent development	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Signs of seepage or wetness	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

ITEM		ISSUES			OBSERVATIONS	ACTION	
		YES	NO	N/A		Repair	Monitor
9	INSTRUMENTATION						
	Survey monuments	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Piezometers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not monitored by AEI	<input type="checkbox"/>	<input type="checkbox"/>
	Inclinometer	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Seepage weir(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
10	DOCUMENT REVIEW						
	Review of plant documentation and inspections	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Review of Emergency Action Plan	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
11	SITE SPECIFIC AREAS OF CONCERN						
	Seepage from toe drain	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Seepage from abutment drain	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Seepage from blanket drain	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Seepage from previously identified areas	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
12	GENERAL SITE SECURITY						
	Site Access Controls In Place and Functioning Correctly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Gate is locked, key required for access	<input type="checkbox"/>	<input type="checkbox"/>
	Perimeter Fencing Intact and Free of Visible Damage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Warning Signage Present and Legible	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
13	FUGITIVE DUST CONTROL						
	Any Visible Dust Plumes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Are Dust Suppression Measures Present and Functioning	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

14	COMMENTS AND OBSERVATIONS						

Note: Report any immediate safety concerns to Travis Sneed @ 270-832-8915.



BIG RIVERS ELECTRIC CORPORATION
KENNETH C. COLEMAN STATION
HAWESVILLE, KY
SITE PLAN — AERIAL

JOB NO. 10-0203
DRAWN BY P.B.
CHECKED BY D.D.
DATE 01/28/2011

ASSOCIATED ENGINEERS, INC.
ENGINEERING & SURVEYING
2100 North Main St. • Lexington, KY 40503
Phone: (502) 451-1111 • Fax: (502) 451-1100 • Email: info@associatedeng.com
www.associatedeng.com

2

SHEET NUMBER

**Professional Engineer Certification [Per 40 CFR §257.83(b)]
Inactive Ash Pond A CCR Surface Impoundment
Annual Inspections by a Qualified Professional Engineer**

I hereby certify that myself or an agent under my review has prepared this Annual Inspection Report (Report), and being familiar with the provisions of the final rule to regulate the disposal of coal combustion residuals (CCR) as solid waste under subtitle D of the Resource Conservation and Recovery Act (RCRA), attest that this Report has been prepared in accordance with good engineering practices and meets the intent of 40 CFR Part 257.83(b). To the best of my knowledge and belief, the information contained in this Report is true, complete, and accurate.



David A. Lamb, P.E.

State of Kentucky License No. 17822

Date: 2/6/2025



Inactive Ash Pond C Legacy CCR Impoundment

Disposal of Coal Combustion Residuals (CCR) from Electric Utilities Final Rule Legacy CCR Impoundment 2025 Annual Inspection Report

February 6, 2025

Prepared By:



Project ID: 25-0007

Big Rivers Electric Corporation
Disposal of Coal Combustion Residuals (CCR) from Electric Utilities Final Rule
CCR Impoundment 2025 Annual Inspection Report

CCR Surface Impoundment Information

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Address: 4982 River Road
Hawesville, Kentucky 42348

Qualified Professional Engineer

Name: David A. Lamb
Company: Associated Engineers, Inc.
Kentucky P.E. Number: 17822

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Annual inspections of any CCR surface impoundment must include, at a minimum: (1) a review of all previously generated information regarding the status and condition of the CCR unit, including, but not limited to, all operating records and publicly accessible internet site entries, design and construction drawings and other documentation; (2) a thorough visual inspection to identify indications of distress, unusual or adverse behavior, or malfunction of the CCR unit and appurtenant structures; and (3) a thorough visual inspection of hydraulic structures underlying the base of the CCR unit and passing through the dike of the CCR unit for structural integrity and continued safe and reliable operation.

Additionally, following each annual inspection, the qualified professional engineer must prepare an inspection report which documents the following: (1) any changes in geometry of the impounding structure since the previous annual inspection; (2) the location and type of existing instrumentation and the maximum recorded readings of each instrument since the previous annual inspection; (3) the approximate maximum, minimum, and present depth and elevation of the impounded water and CCR since the previous annual inspection; (4) the storage capacity of the impounding structure at the time of inspection; (5) the approximate volume of the impounded water and CCR at the time of the inspection; (6) 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 (7) any other change(s) which may have affected the stability or operation of the impounding structure since the previous annual inspection.

Inspection Description

This is the first annual inspection report for the Inactive Ash Pond C CCR Impoundment pursuant to the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities Final Rule which became effective April 17, 2015. The inspection was conducted on February 6, 2025 by Brandon Watts of Associated Engineers, Inc. of Madisonville, Kentucky. Weekly (7-day) inspections conducted by Big Rivers Electric Corporation are kept in the facility operating record.

The pond has been dewatered, excavated, and capped; the dam no longer impounds water or CCR. The inspection consisted of a visual assessment of the surface impoundment, embankments and out of service discharge; and began along the south embankment on the access road. The access road is adequately rocked and maintained. The upstream embankment slope was well vegetated and maintained. The downstream slope was well vegetated and maintained. The decant pipe inlet was clear of vegetation with no observable damage. The decant pipe valve has been closed, the T handle is missing from the valve mechanism. The decant pipe outlet has overgrowth, but not to the extent that a blockage exists.

The west embankment crest was well maintained. The downstream slope was well vegetated and well maintained with only minor mower wheel tracking present. The upstream slope was well vegetated and maintained.

Inspection Report Specifications

(i) Legacy CCR Impoundment Geometry

The Inactive Ash Pond C Legacy CCR Impoundment is a combined incised/earthen embankment structure. The pond covers an area of approximately ninety (90) acres; the crest is approximately 8,000 feet long with the earthen embankment being approximately 6,300 feet long with a maximum height of 15 feet. The embankments were built with 2:1 upstream and downstream slopes. A decant is located in the southern area of the pond; the decant valve has been closed so no water is discharged.

There have been no significant changes to the geometry of the impounding structure since the previous (2024) quarterly inspection. No CCR was placed in the pond after the coal units were retired in May 2014.

(ii) Legacy CCR Impoundment Instrumentation

There are five piezometers associated with the Inactive Ash Pond C Legacy CCR Impoundment.

(ii) a – Piezometers

*Maximum elevation above mean sea level (AMSL) measured at each piezometer since Jan 1, 2025:

Piezometer ID	Top of Casing Elevation (AMSL)	Depth to Static Water Level	Static Water Elevation* (AMSL)
P-1A	405.12	4.63	400.49
P-2A	403.39	7.88	395.51
P-3A	408.78	12.82	395.96
P-4	397.15	21.74	375.41
P-5	400.20	22.60	377.60

(iii) Legacy CCR Impoundment General Site Security

A locked gate is located at the access point from the roadway at the southern corner of the site. The gate is locked using a chain and padlock, possessing the key is the only way to access the site. Warning signage is posted on the gate.

(iv) Legacy CCR Impoundment Fugitive Dust Control

No visible dust plumes were observed during the inspection.

(v) Legacy CCR Impoundment Structural, Operational, and Safety Items

The inspection found that there were no appearances of an actual or potential structural weakness of the CCR unit, and no existing conditions that would result in the degradation of safety of the CCR unit and appurtenant structures.



Inactive Ash Pond C

Big Rivers Electric Corp.
Coleman Facility
Hawesville, Kentucky

Inspection Map

March 26, 2021

SCALE: 1" = 400'



2740 North Main Street, Madisonville, KY 42431
Phone: (270)821-7732 Fax: (270)821-7789

BREC COMPREHENSIVE IMPOUNDMENT INSPECTION CHECKLIST

Generating Station: <u>Coleman Station</u> Impoundment Name: <u>Inactive Ash Pond C</u> Impoundment ID #: _____ Date: <u>Feb 6, 2025</u>					Weather: <u>Cloudy</u> Temperature: <u>50°F</u> Inspectors: <u>B. Watts</u> Signature: _____		
ITEM		ISSUES			OBSERVATIONS	ACTION	
		YES	NO	N/A		Repair	Monitor
1	TOP OF DAM						
	Visual settlement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Misalignment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Cracking	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Access road Deterioration (potholes, rutting, etc)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2	UPSTREAM SLOPE						
	Any erosion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Longitudinal cracks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Transverse cracks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Adequate vegetative cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Are trees growing on the slope	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Adequate riprap/slope protection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Visual depressions	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Visual settlement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Any stone deterioration	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Debris or trash present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

ITEM		ISSUES			OBSERVATIONS	ACTION	
		YES	NO	N/A		Repair	Monitor
3	DOWNSTREAM SLOPE & TOE						
	Any erosion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Longitudinal cracks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Transverse cracks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Adequate vegetative cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Are trees growing on the slope	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Visual depressions or bulges	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Isolated Mower Wheel tracking	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Visual settlement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Animal Burrows	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Are boils present at the toe or slopes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Are drainage features obstructed or damaged	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Area drainage features flowing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Is seepage present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Is seepage or discharge carrying sediment	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Soft or spongy zones present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4	ABUTMENTS						
	Any erosion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Visual differential movement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Any cracks noted	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Any drainage features obstructed or damaged	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Are drainage features flowing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Is seepage present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Is seepage or discharge carrying sediment	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>


ITEM		ISSUES			OBSERVATIONS	ACTION	
		YES	NO	N/A		Repair	Monitor
5	PRINCIPAL SPILLWAY						
	Any deterioration of the spillway structure	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Any deterioration of the spillway conduit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Spillway clear from obstructions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Is water discharging from the pond	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Trash racks or skimmer operational	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Any signs of leakage with the structure or conduit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Weir in good condition	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Pool Elevation	N/A			Dry	<input type="checkbox"/>	<input type="checkbox"/>
	Any Unusual Fluctuations in Water Level from Previous Inspection	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
6	EMERGENCY SPILLWAY						
	Any deterioration of the spillway structure	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Spillway clear from obstructions	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Signs or erosion or slope sloughing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Adequate vegetative cover	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Signs of or currently discharging water	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
7	VALVES/GATES						
	Are the valves/gates operational	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	T-handle Missing from Valve (Valve is Closed)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Are the valves/gates broken or bent	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Are the valves/gates corroded or rusted	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Have the valves/gates been maintained	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
8	DOWNSTREAM AREA						
	Recent development	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Signs of seepage or wetness	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Area of poor drainage/standing water near toe at South end	<input type="checkbox"/>	<input checked="" type="checkbox"/>

ITEM		ISSUES			OBSERVATIONS	ACTION	
		YES	NO	N/A		Repair	Monitor
9	INSTRUMENTATION						
	Survey monuments	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Piezometers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not monitored by AEI	<input type="checkbox"/>	<input type="checkbox"/>
	Inclinometer	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Seepage weir(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
10	DOCUMENT REVIEW						
	Review of plant documentation and inspections	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Review of Emergency Action Plan	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
11	SITE SPECIFIC AREAS OF CONCERN						
	Seepage from toe drain	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Seepage from abutment drain	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Seepage from blanket drain	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Seepage from previously identified areas	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
12	GENERAL SITE SECURITY						
	Site Access Controls In Place and Functioning Correctly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Gate is locked, key is required for access	<input type="checkbox"/>	<input type="checkbox"/>
	Perimeter Fencing Intact and Free of Visible Damage	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Warning Signage Present and Legible	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
13	FUGITIVE DUST CONTROL						
	Any Visible Dust Plumes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Are Dust Suppression Measures Present and Functioning	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

14	COMMENTS AND OBSERVATIONS						

Note: Report any immediate safety concerns to Travis Sneed @ 270-832-8915.



SHEET NUMBER <div>2</div>	<div> INACTIVE ASH POND C COLEMAN STATION HAWESVILLE, KY </div> <div> PLAN VIEW - AERIAL </div>	<div>JOB NO. 11-0133</div> <div>DRAWN BY P.B.</div> <div>CHECKED BY D.D.</div> <div>DATE 01/03/2012</div>		<div>  ASSOCIATED ENGINEERS, INC. <small>ENGINEERS & GEODETIC SURVEYORS</small> <small>210 East Main St., Suite 100, Hawesville, KY 40338</small> <small>Phone: (502) 645-1100 Fax: (502) 645-1101 Email: info@associatede.com</small> </div>

Professional Engineer Certification [Per 40 CFR §257.83(b)]
Green CCR Surface Impoundment
Annual Inspections by a Qualified Professional Engineer

I hereby certify that myself or an agent under my review has prepared this Annual Inspection Report (Report), and being familiar with the provisions of the final rule to regulate the disposal of coal combustion residuals (CCR) as solid waste under subtitle D of the Resource Conservation and Recovery Act (RCRA), attest that this Report has been prepared in accordance with good engineering practices and meets the intent of 40 CFR Part 257.83(b). To the best of my knowledge and belief, the information contained in this Report is true, complete, and accurate.



David A. Lamb, P.E.

State of Kentucky License No. 17822

Date: 2/6/2025



Pond D Legacy CCR Impoundment

Disposal of Coal Combustion Residuals (CCR) from Electric Utilities Final Rule Legacy CCR Impoundment 2025 Annual Inspection Report

February 6, 2025

Prepared By:



Project ID: 25-0007

**Big Rivers Electric Corporation
Disposal of Coal Combustion Residuals (CCR) from Electric Utilities Final Rule
CCR Impoundment 2025 Annual Inspection Report**

CCR Surface Impoundment Information

Name: Pond D Legacy CCR Impoundment
Operator: BREC Coleman Station
Address: 4982 River Road
Hawesville, Kentucky 42348

Qualified Professional Engineer

Name: David A. Lamb
Company: Associated Engineers, Inc.
Kentucky P.E. Number: 17822

Regulatory Applicability

Per 40 CFR §257.83(b), annual inspections by a qualified professional engineer must ensure that the design, construction, operation, and maintenance of the CCR unit is consistent with recognized and generally accepted good engineering standards.

Annual inspections of any CCR surface impoundment must include, at a minimum: (1) a review of all previously generated information regarding the status and condition of the CCR unit, including, but not limited to, all operating records and publicly accessible internet site entries, design and construction drawings and other documentation; (2) a thorough visual inspection to identify indications of distress, unusual or adverse behavior, or malfunction of the CCR unit and appurtenant structures; and (3) a thorough visual inspection of hydraulic structures underlying the base of the CCR unit and passing through the dike of the CCR unit for structural integrity and continued safe and reliable operation.

Additionally, following each annual inspection, the qualified professional engineer must prepare an inspection report which documents the following: (1) any changes in geometry of the impounding structure since the previous annual inspection; (2) the location and type of existing instrumentation and the maximum recorded readings of each instrument since the previous annual inspection; (3) the approximate maximum, minimum, and present depth and elevation of the impounded water and CCR since the previous annual inspection; (4) the storage capacity of the impounding structure at the time of inspection; (5) the approximate volume of the impounded water and CCR at the time of the inspection; (6) 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 (7) any other change(s) which may have affected the stability or operation of the impounding structure since the previous annual inspection.

Inspection Description

This is the first annual inspection report for the Pond D Legacy CCR Impoundment pursuant to the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities Final Rule which became effective April 17, 2015. The inspection was conducted on February 6, 2025 by Brandon Watts of Associated Engineers, Inc. of Madisonville, Kentucky. Weekly (7-day) inspections conducted by Big Rivers Electric Corporation are kept in the facility operating record.

The inspection consisted of a visual assessment of the surface impoundment, embankments and discharge; and began along the south embankment on the access road. The access road along the crest is adequately rocked and maintained. The upstream slope was vegetated and well maintained. The downstream slope was well vegetated with only minor mower wheel tracking present.

The east embankment crest was well maintained. The downstream slope was well vegetated and well maintained with only minor mower wheel tracking present. The upstream slope was vegetated and well maintained. There's some erosion of the CCR housed inside of the pond. The rock along the upstream slope in the freshwater cell of the pond is well maintained. The decant inlet in the freshwater cell of the pond has no visible damage to it. The decant pipe valve has been turned off. The decant outlet is clear of debris and overgrowth and has no visible damage.

The north embankment crest was well maintained. The downstream slope was well vegetated and well maintained with minor mower wheel tracking present. The upstream slope was well maintained.

The west embankment crest was well maintained. The downstream slope was well vegetated and well maintained. The upstream slope was well vegetated and well maintained.

Inspection Report Specifications

(i) Legacy CCR Impoundment Geometry

The Pond D Legacy CCR Impoundment is a combined incised/earthen embankment structure. The pond is divided into two cells: one cell containing impounded CCR material and one cell impounding freshwater; a rock dam separates the two cells. The pond covers an area of approximately 83.5 acres in total; the cell impounding CCR material is approximately 73.9 acres and the cell impounding freshwater is approximately 9.5 acres. The embankment is approximately 7,900 feet long with a maximum height of 35 feet. The embankments were built with 2:1 upstream and 3:1 downstream slopes. A decant is located

in the cell impounding freshwater; the valve for the decant is shut off as to not allow water to be discharged from the pond.

There have been no significant changes to the geometry of the impounding structure since the previous (2024) quarterly inspection. No CCR was placed in the pond after the coal units were retired in May 2014.

(ii) Legacy CCR Impoundment Instrumentation

There is one water level indicator associated with the Pond D Legacy CCR Impoundment.

(ii) a – Water Surface Level Indicator

The maximum reported water surface elevation since February 2024 is 407.8 feet above mean sea level as measured at a water level indicator located in the southeast corner of the freshwater cell of the impoundment.

(iii) Legacy CCR Impoundment General Site Security

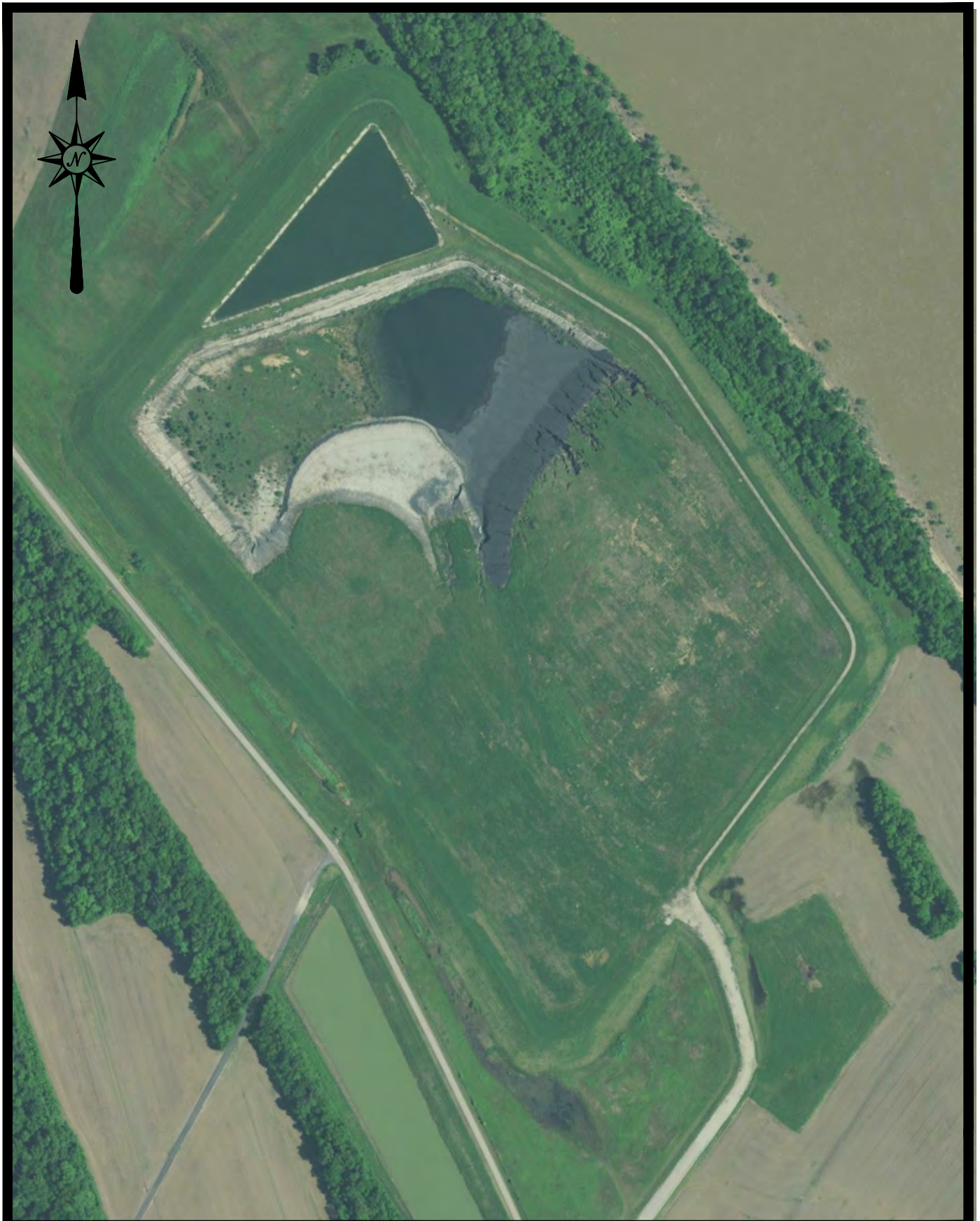
Chain link fencing is located along the perimeter of the site with a locked gate at the access point from the roadway. The gate is locked using a chain and padlock, possessing the key is the only way to access the site. Warning signage is posted on the fencing and gate.

(iv) Legacy CCR Impoundment Fugitive Dust Control

No visible dust plumes were observed during the inspection.

(v) Legacy CCR Impoundment Structural, Operational, and Safety Items

The inspection found that there were no appearances of an actual or potential structural weakness of the CCR unit, and no existing conditions that would result in the degradation of safety of the CCR unit and appurtenant structures.



Pond D

Big Rivers Electric Corp.
Coleman Facility
Hawesville, Kentucky

Inspection Map

March 26, 2021

SCALE: 1" = 400'



2740 North Main Street, Madisonville, KY 42431
Phone: (270)821-7732 Fax: (270)821-7789

BREC COMPREHENSIVE IMPOUNDMENT INSPECTION CHECKLIST

Generating Station: <u>Coleman Station</u> Impoundment Name: <u>Pond D</u> Impoundment ID #: _____ Date: <u>Feb 6, 2025</u>					Weather: <u>Cloudy</u> Temperature: <u>50°F</u> Inspectors: <u>B. Watts</u> Signature: _____		
ITEM		ISSUES			OBSERVATIONS	ACTION	
		YES	NO	N/A		Repair	Monitor
1	TOP OF DAM						
	Visual settlement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Misalignment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Cracking	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Access road Deterioration (potholes, rutting, etc)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Minor rutting/potholing with puddling rainwater	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	UPSTREAM SLOPE						
	Any erosion	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	In areas of the CCR only	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Longitudinal cracks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Transverse cracks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Adequate vegetative cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Are trees growing on the slope	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Adequate riprap/slope protection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Visual depressions	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Visual settlement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Any stone deterioration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Debris or trash present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

ITEM		ISSUES			OBSERVATIONS	ACTION	
		YES	NO	N/A		Repair	Monitor
3	DOWNSTREAM SLOPE & TOE						
	Any erosion	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Isolated minor erosion	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Longitudinal cracks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Transverse cracks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Adequate vegetative cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Are trees growing on the slope	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Visual depressions or bulges	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Isolated mower wheel tracking	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Visual settlement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Animal Burrows	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Are boils present at the toe or slopes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Are drainage features obstructed or damaged	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Area drainage features flowing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Is seepage present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Is seepage or discharge carrying sediment	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Soft or spongy zones present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4	ABUTMENTS						
	Any erosion	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Visual differential movement	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Any cracks noted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Any drainage features obstructed or damaged	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Are drainage features flowing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Is seepage present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Is seepage or discharge carrying sediment	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

ITEM		ISSUES			OBSERVATIONS	ACTION	
		YES	NO	N/A		Repair	Monitor
5	PRINCIPAL SPILLWAY						
	Any deterioration of the spillway structure	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Any deterioration of the spillway conduit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Spillway clear from obstructions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Is water discharging from the pond	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Trash racks or skimmer operational	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Any signs of leakage with the structure or conduit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Weir in good condition	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Pool Elevation	407.8'			Top of Concrete Riser: 408.9'	<input type="checkbox"/>	<input type="checkbox"/>
	Any Unusual Fluctuations in Water Level from Previous Inspection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
6	EMERGENCY SPILLWAY						
	Any deterioration of the spillway structure	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Spillway clear from obstructions	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Signs or erosion or slope sloughing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Adequate vegetative cover	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Signs of or currently discharging water	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
7	VALVES/GATES						
	Are the valves/gates operational	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Appears operational	<input type="checkbox"/>	<input type="checkbox"/>
	Are the valves/gates broken or bent	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Are the valves/gates corroded or rusted	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Have the valves/gates been maintained	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
8	DOWNSTREAM AREA						
	Recent development	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Signs of seepage or wetness	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

ITEM		ISSUES			OBSERVATIONS	ACTION	
		YES	NO	N/A		Repair	Monitor
9	INSTRUMENTATION						
	Survey monuments	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Piezometers	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Inclinometer	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Seepage weir(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
10	DOCUMENT REVIEW						
	Review of plant documentation and inspections	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Review of Emergency Action Plan	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
11	SITE SPECIFIC AREAS OF CONCERN						
	Seepage from toe drain	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Seepage from abutment drain	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Seepage from blanket drain	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Seepage from previously identified areas	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
12	GENERAL SITE SECURITY						
	Site Access Controls In Place and Functioning Correctly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Gate is locked, key required for access.	<input type="checkbox"/>	<input type="checkbox"/>
	Perimeter Fencing Intact and Free of Visible Damage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Warning Signage Present and Legible	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
13	FUGITIVE DUST CONTROL						
	Any Visible Dust Plumes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
	Are Dust Suppression Measures Present and Functioning	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

14	COMMENTS AND OBSERVATIONS						

Note: Report any immediate safety concerns to Travis Sneed @ 270-832-8915.

**Professional Engineer Certification [Per 40 CFR §257.83(b)]
Green CCR Surface Impoundment
Annual Inspections by a Qualified Professional Engineer**

I hereby certify that myself or an agent under my review has prepared this Annual Inspection Report (Report), and being familiar with the provisions of the final rule to regulate the disposal of coal combustion residuals (CCR) as solid waste under subtitle D of the Resource Conservation and Recovery Act (RCRA), attest that this Report has been prepared in accordance with good engineering practices and meets the intent of 40 CFR Part 257.83(b). To the best of my knowledge and belief, the information contained in this Report is true, complete, and accurate.



David A. Lamb, P.E.

State of Kentucky License No. 17822

Date: 2/6/2025