CCR Impoundment Inspection Report

Charles R. Lowman Power Plant – Leroy, Alabama

October 2026

Prepared for:

PowerSouth Energy Cooperative
2027 East Three Notch Street
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Prepared by:

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Engineer's Certification

I hereby certify that it is my professional understanding that the inspections conducted and resulting CCR Annual Inspection Report presented herein meet the requirements of Section 257.83 (b) of Title 40 of the Code of Federal Regulations and ADEM Admin. Code r. 335-13-15-.05 (4) as amended upon the date of this certification.

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1.0 Overview

The Charles R. Lowman Power Plant campus in Leroy, AL includes three impoundments for the storage of coal combustion residual (CCR) material. These are identified as shown in Figure 1.



Figure 1: Identification of Ponds

The field inspections outlined herein were completed on October 1, 2026. The inspection staff consisted of staff from Three Notch Group, Inc. (Three Notch) and PowerSouth Energy Cooperative (PowerSouth) as indicated below.

Company	Name / Title
Three Notch	Scott W. Trott, P.E. / Project Manager
Three Notch	Carmen Chosie, P.E. / Project Engineer
PowerSouth	John Goldman
PowerSouth	Josh Hudson
PowerSouth	Abram Guilford

Inspection procedures were completed in accordance with §257.83(b)(1)(i)-(iii) and 335-13-15.05(4)(b)1.(i)-(iii). Documentation including pertinent previous report documents and documents within the facility's operating record have been reviewed as part of the inspection efforts. The visual inspections examined the overall condition of each structure to identify any potential signs of distress or signs of prior malfunction to operate as intended. Piping and related, active hydraulic structures associated with each impoundment were visually inspected to address the condition and ability of each to meet intended design purposes.

Findings have been generated and are found in Tables 1 – 3 contained herein.

2.0 Summary for Unit 1 Bottom Ash Pond Inspection

Table 1: Summary for Unit 1 Bottom Ash Pond Inspection

Unit 1 Bottom Ash Pond		
Item	**Reference**	**Comment**
Changes in Geometry	§ 257.83(b)(2): (i) 335-13-15-.05(4)(b)(2): (i)	• No changes to impoundment footprint
Existing Instrumentation	§ 257.83(b)(2): (ii) 335-13-15-.05(4)(b)(2): (ii)	• None
Minimum Water Depth and Elevation	§ 257.83(b)(2): (iii) 335-13-15-.05(4)(b)(2): (iii)	• 0'-0" • 10.00' MSL
Maximum Water Depth and Elevation	§ 257.83(b)(2): (iii) 335-13-15-.05(4)(b)(2): (iii)	• 18'-0" • 28.00' MSL
Present Water Depth and Elevation	§ 257.83(b)(2): (iii) 335-13-15-.05(4)(b)(2): (iii)	• Varying depth, not continuous surface • Average water depth estimated at 0.5' • 11.00' MSL
Minimum CCR Depth and Elevation	§ 257.83(b)(2): (iii) 335-13-15-.05(4)(b)(2): (iii)	• Minimum CCR depth possible 0'-0" • Minimum CCR elevation 10'-0" MSL
Maximum CCR Depth and Elevation	§ 257.83(b)(2): (iii) 335-13-15-.05(4)(b)(2): (iii)	• Maximum CCR depth possible estimated at 18'-0" • Maximum CCR elevation is 28'-0"
Present CCR Depth and Elevation	§ 257.83(b)(2): (iii) 335-13-15-.05(4)(b)(2): (iii)	• CCR not present
Storage Capacity	§ 257.83(b)(2): (iv) 335-13-15-.05(4)(b)(2): (iv)	• 408,000 yd^3
Volume of Impounded Water	§ 257.83(b)(2): (v) 335-13-15-.05(4)(b)(2): (v)	• Impounded water volume estimated at 15,237 yd^3
Volume of Impounded CCR	§ 257.83(b)(2): (v) 335-13-15-.05(4)(b)(2): (v)	• Impounded CCR estimated at 0 yd^3
Observed Actual or Potential Structural Weakness	§ 257.83(b)(2): (vi) 335-13-15-.05(4)(b)(2): (vi)	• None observed
Observations of Changes Impacting Stability or Operation	§ 257.83(b)(2): (vii) 335-13-15-.05(4)(b)(2): (vii)	• None observed

3.0 Summary for Unit 2/3 Bottom Ash Pond Inspection

Table 2: Summary for Unit 2/3 Bottom Ash Pond Inspection

Unit 2/3 Bottom Ash Pond		
Item	**Reference**	**Comment**
Changes in Geometry	§ 257.83(b)(2): (i) 335-13-15-.05(4)(b)(2): (i)	• None observed
Existing Instrumentation	§ 257.83(b)(2): (ii) 335-13-15-.05(4)(b)(2): (ii)	• Skid-mounted duplex suction pumps with suction lines in pond
Minimum Water Depth and Elevation	§ 257.83(b)(2): (iii) 335-13-15-.05(4)(b)(2): (iii)	• 1'-0" per visual inspection • 40.00'MSL
Maximum Water Depth and Elevation	§ 257.83(b)(2): (iii) 335-13-15-.05(4)(b)(2): (iii)	• 6'-0" per visual inspection • 45.00' MSL
Present Water Depth and Elevation	§ 257.83(b)(2): (iii) 335-13-15-.05(4)(b)(2): (iii)	• Average water depth estimated at 0.05' • 40.05' MSL
Minimum CCR Depth and Elevation	§ 257.83(b)(2): (iii) 335-13-15-.05(4)(b)(2): (iii)	• Minimum CCR depth estimated at 2'-0" • Minimum CCR elevation 26.00' MSL
Maximum CCR Depth and Elevation	§ 257.83(b)(2): (iii) 335-13-15-.05(4)(b)(2): (iii)	• Maximum CCR depth estimated at 19'-0" • Maximum CCR elevation is 43.00' MSL
Present CCR Depth and Elevation	§ 257.83(b)(2): (iii) 335-13-15-.05(4)(b)(2): (iii)	• CCR depth not uniform across impoundment • Average CCR depth estimated at 16'-0" • Average CCR elevation estimated at 40.00' MSL
Storage Capacity	§ 257.83(b)(2): (iv) 335-13-15-.05(4)(b)(2): (iv)	• 1,206,760 yd3
Volume of Impounded Water	§ 257.83(b)(2): (v) 335-13-15-.05(4)(b)(2): (v)	• Impounded water volume estimated at 836 yd3
Volume of Impounded CCR	§ 257.83(b)(2): (v) 335-13-15-.05(4)(b)(2): (v)	• Impounded CCR volume estimated at 1,206,760 yd3
Observed Actual or Potential Structural Weakness	§ 257.83(b)(2): (vi) 335-13-15-.05(4)(b)(2): (vi)	• None observed
Observations of Changes Impacting Stability or Operation	§ 257.83(b)(2): (vii) 335-13-15-.05(4)(b)(2): (vii)	• None observed

4.0 Summary for FGD Waste Pond Inspection

Table 3: Summary for FGD Waste Pond Inspection

FGD Waste Pond		
Item	**Reference**	**Comment**
Changes in Geometry	§ 257.83(b)(2): (i) 335-13-15-.05(4)(b)(2): (i)	• None observed
Existing Instrumentation	§ 257.83(b)(2): (ii) 335-13-15-.05(4)(b)(2): (ii)	• Trailer-mounted pump with suction line in pond discharging into Unit 2/3 Ash Pond
Minimum Water Depth and Elevation	§ 257.83(b)(2): (iii) 335-13-15-.05(4)(b)(2): (iii)	• 2'-6" per visual inspection • 40.50' MSL
Maximum Water Depth and Elevation	§ 257.83(b)(2): (iii) 335-13-15-.05(4)(b)(2): (iii)	• 5'-6" per visual inspection • 43.50' MSL
Present Water Depth and Elevation	§ 257.83(b)(2): (iii) 335-13-15-.05(4)(b)(2): (iii)	• Limited water present in low spot from recent (within 14-days) rainfall
Minimum CCR Depth and Elevation	§ 257.83(b)(2): (iii) 335-13-15-.05(4)(b)(2): (iii)	• Minimum CCR depth estimated at 1'-0" • Minimum CCR elevation 26.00' MSL
Maximum CCR Depth and Elevation	§ 257.83(b)(2): (iii) 335-13-15-.05(4)(b)(2): (iii)	• Maximum CCR depth estimated at 18'-0" • Maximum CCR elevation is 43.00' MSL
Present CCR Depth and Elevation	§ 257.83(b)(2): (iii) 335-13-15-.05(4)(b)(2): (iii)	• CCR depth not uniform across impoundment • Average CCR depth estimated at 18'-0" • Average CCR elevation estimated at 43.00' MSL
Storage Capacity	§ 257.83(b)(2): (iv) 335-13-15-.05(4)(b)(2): (iv)	• 1,298,047 yd3
Volume of Impounded Water	§ 257.83(b)(2): (v) 335-13-15-.05(4)(b)(2): (v)	• Impounded water volume estimated at 0 yd3
Volume of Impounded CCR	§ 257.83(b)(2): (v) 335-13-15-.05(4)(b)(2): (v)	• Impounded CCR volume estimated at 1,298,047 yd3
Observed Actual or Potential Structural Weakness	§ 257.83(b)(2): (vi) 335-13-15-.05(4)(b)(2): (vi)	• None observed
Observations of Changes Impacting Stability or Operation	§ 257.83(b)(2): (vii) 335-13-15-.05(4)(b)(2): (vii)	• None observed

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