

CLECO POWER LLC

DOLET HILLS POWER STATION



CCR ANNUAL INSPECTION

ASH BASIN NO. 1

JANUARY 2023

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Providence Project No: 002-309



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SECTION 1.0

GENERAL INFORMATION

ANNUAL CCR SURFACE IMPOUNDMENT INSPECTION:			
Facility Name:		Cleco Dolet Hills Power Station	
Address:		963 Power Plant Rd. Mansfield, LA	
Surface Impoundment Name :	Ash Basin No. 1	Owner:	Cleco Power LLC
Surface Impoundment ID:	P-0037M3	Operator:	Cleco Power LLC
Nearest City:	Mansfield	Parish:	DeSoto
Inspector:		Gary J. Leonards, P.E.	
Company:		Providence Engineering & Environmental Group LLC	
Date of Inspection:		12/12/2022	
Weather at Time of Inspection:		Cloudy, Overcast	
DESCRIPTION OF THE OPERATION OF THE SURFACE IMPOUNDMENTS:			
<p>The bottom ash and economizer ash are mixed with water and sluiced in a slurry form to either of the two Ash Basins. Ash slurry pipelines within each basin enable the discharge of the slurry at multiple points within each basin. The discharge into each respective basin begins at the end of the pipeline network at the point furthest from the weir box, and proceeds toward the front of the pond. As a basin fills with ash, sections of the discharge pipe are removed as needed so that ash can be uniformly deposited and the storage capacity of each basin fully utilized. The ash-laden water is retained in the Ash Basins for a period of time sufficient to settle most of the suspended particles out of the sluice water. Both Ash Basins capture and retain rainfall runoff from drainage areas upstream of the basin dikes.</p> <p>Bottom ash is sluiced to Ash Basins No. 1 and No. 2. When one basin is in service collecting ash which settles out of the recirculating sluice water, the other basin is drained and cleaned, as needed. Ash Basin No. 1 is in the final closure stage.</p>			
1.0 GENERAL INFORMATION			
Owner Contact:	Elizabeth Lee	Phone:	318-793-1194
Plant Manager:	Robert Breedlove	Phone:	318-484-7679
Dam Status:	Operational--Final Closure Stage	Year Built:	1984
Latitude:	32° 01.82' N	Longitude:	93° 33.68' W
Dam Size:	400 Acre-Feet @ 253.5 ft.		
Bottom of Pond Elevation	220 ft. NAVD 88	Top of Dike Elevation:	256 ft. NAVD 88
Low Operating Level Elevation:	230 ft. NAVD 88	High Operating Level Elevation:	251 ft. NAVD 88
High Operating Level Storage:	330 acre-feet @ 251.0 ft. NAVD 88		
Maximum Storage:	400 acre-feet @ 253.5 ft. NAVD 88		
Maximum Surface Impoundment Area:	33.18 Acres		
Offsite Drainage Area:	Discharges to Secondary Pond, thence to Mundy Bayou		
Spillway/Overflow Structure Type:	Internal adjustable concrete stoplog overflow weir structure that drains through culvert to Secondary Pond. Also, an auxiliary overflow spillway drains to the Secondary Pond. The auxiliary spillway has 6" riprap on the bottom and sides of the spillway up to elevation 256.0 NAVD 88. Spillway modifications made to support final closure activities.		

SECTION 2.0

QUESTIONS FOR OWNER'S REPRESENTATIVE

2.0 QUESTIONS FOR OWNER'S REPRESENTATIVE	
Construction Plans Available?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Site Facility Map Available?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Operations and Maintenance Manual Available?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Emergency Action Plan Available?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Recent Modification or Improvements?	None
Are Routine Inspections Completed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Is Routine Maintenance Completed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Is There Vehicle Access to the Pond?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Is Access Available During Heavy Rains?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are Routine Inspection Logs Kept On-site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
The bottom ash and economizer ash are mixed with water and sluiced in a slurry form to either of the two Ash Basins. Ash slurry	Discharges to Secondary Pond, thence to Mundy Bayou
Spillway/Overflow Structure Type:	Internal adjustable concrete stoplog overflow weir structure that drains through culvert to Secondary Pond, thence to Mundy Bayou. Also, an auxiliary overflow spillway drains to the Secondary Pond. The auxiliary spillway has 6" riprap on the bottom and sides of the spillway up to elevation 256.0 NAVD 88. Spillway modifications made to support final closure activities.

SECTION 3.0

PHYSICAL DAM FEATURES - RESERVOIR

3.0 PHYSICAL DAM FEATURES – RESERVOIR:	
Staff Gauge Type:	Level Gauge Indicator Removed
Staff Gauge Elevation at Time of Inspection:	N/A
Normal Operating Elevation:	246.0 ft. NAVD 88
Typical Operation:	Discharges to Secondary Pond, thence to Mundy
Are there any visible swirls?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size, location, etc.)	
Is there excessive CCR buildup in the surface impoundment?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size of area, location, severity, etc.)	
Approximate volume of Impounded water at time of inspection:	200,000 gallons
Approximate volume of CCR at time of inspection:	CCR material removal in progress. Nearly all material removed.
The bottom ash and economizer ash are mixed with water and sluiced in a slurry form to either of the two Ash Basins. Ash slurry pipelines within each basin enable the discharge of the slurry at	Ash Basin No. 1 is in final closure stage.
Other observations on the reservoir:	None

SECTION 4.0

PHYSICAL DAM FEATURES - INTAKE WORKS

4.0 PHYSICAL DAM FEATURES – INTAKE WORKS:	
Number of Intakes:	0
Description (1):	N/A
Size and Type:	N/A
Control:	N/A
Can Flow be Shutoff or Bypassed:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Is the in-flow piping free of debris and otherwise unobstructed?	N/A
If no, describe (type of debris, reason for obstruction, etc.)	<input type="checkbox"/> No
Describe the quality of discharge from hydraulic structure (turbidity, depth, etc.)	Ash sluicing operations have ceased. Sluice piping is being removed.
Findings:	Ash sluicing operations have ceased. Sluice piping is being removed.
Other observations on the intake works:	None

SECTION 5.0

PHYSICAL DAM FEATURES - OUTLET WORKS

5.0 PHYSICAL DAM FEATURES – OUTLET WORKS:	
Number of Outlets:	One
Outlets/Culvert Pipe Sizes:	36 Inches
Type of Pipes:	Corrugated Metal Pipe from internal overflow weir structure to Secondary Pond.
Control:	Adjustable concrete stoplog overflow weir structure
Can Flow be Shutoff or Bypassed:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Describe the overall condition of the hydraulic structure: (Check all that apply)	<input checked="" type="checkbox"/> Functioning Normally <input type="checkbox"/> Not Functional <input type="checkbox"/> Deteriorated <input type="checkbox"/> Damaged <input type="checkbox"/> Adequate <input type="checkbox"/> Inadequate Other:(describe)
Is there evidence of erosion around the hydraulic structure?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size of area, location, severity, etc.)	
Is the hydraulic structure outlet flowing freely and unobstructed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If no, describe (type of debris, reason for obstruction, etc.)	
The bottom ash and economizer ash are mixed with water and sluiced in a slurry form to either of the two Ash Basins. Ash slurry pipelines within each	The outflowing water is relatively clear and discharges to the Secondary Pond.
Findings:	The outlet works were inspected and appeared to be in satisfactory condition. No corrective actions are required at this time.
Other observations on the outlet works:	None

SECTION 6.0

SLOPE PROTECTION - EXTERIOR SLOPES

6.0 SLOPE PROTECTION – EXTERIOR SLOPES:	
Describe the vegetation on the exterior slope: (Check all that apply)	<input type="checkbox"/> Recently Mowed <input checked="" type="checkbox"/> Good Cover <input type="checkbox"/> Sparse <input type="checkbox"/> Other: (describe)
Is there any erosion on the exterior slope?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size of area, location, severity, etc.)	
Is there any erosion protection on the exterior slopes? (e.g. riprap, other)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (riprap - adequate, inadequate, etc.)	
Are there any Crack/Rills Observed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size of area, location, severity, etc.)	
Are there any Sinkholes Observed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size of area, location, severity, etc.)	
Are there any trees on the slopes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (type of vegetation, size, location, etc.)	
Findings:	The exterior slope was inspected and appeared to be in satisfactory condition. No corrective actions are required at this time.
Other observations on the exterior slopes:	None

SECTION 7.0

SLOPE PROTECTION - INTERIOR SLOPES

7.0 SLOPE PROTECTION – INTERIOR SLOPES:	
Describe the vegetation on the interior slopes: (Check all that apply)	<input type="checkbox"/> Recently Mowed <input checked="" type="checkbox"/> Good Cover <input type="checkbox"/> Sparse <input type="checkbox"/> Other: (describe)
	Ash Basin No. 1 in final closure stage. Ash removal operations ongoing.
Is there any erosion on the interior slope?	
If yes, describe (size of area, location, severity, etc.)	
Is there any erosion protection on the interior slopes? (e.g. riprap, other)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe what type and it's condition (riprap - adequate, inadequate, etc.)	
Are there any Crack/Rills Observed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size of area, location, severity, etc.)	
Are there any Sinkholes Observed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size of area, location, severity, etc.)	
Findings:	Ash Basin No. 1 in final closure stage. Ash removal operations ongoing.
The bottom ash and economizer ash are mixed with water and sluiced in a	None

SECTION 8.0

SLOPE PROTECTION - ABUTMENT/ TOE

8.0 SLOPE PROTECTION – ABUTMENT/TOE:	
Describe the vegetation on the Abutment/Toe: (Check all that apply)	<input type="checkbox"/> Recently Mowed <input checked="" type="checkbox"/> Good Cover <input type="checkbox"/> Sparse <input type="checkbox"/> Other: (describe)
Is there any erosion on the abutment/toe?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size of area, location, severity, etc.)	
Is there any erosion protection on the abutment/toe? (e.g. riprap, other)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe what type and it's condition (riprap - adequate, inadequate, etc.)	
Are there any Crack/Rills Observed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size of area, location, severity, etc.)	
Is there any Seepage Observed:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size of area, location, severity, etc.)	
Findings:	The abutment/toe was inspected and appeared to be in satisfactory condition. No corrective actions are required at this time.
The bottom ash and economizer ash are mixed with water and sluiced in	None

SECTION 9.0

SURFACE IMPOUNDMENT CREST

9.0 SURFACE IMPOUNDMENT CREST:	
Describe the vegetation on the crest: (Check all that apply)	<input type="checkbox"/> Recently Mowed <input checked="" type="checkbox"/> Good Cover <input type="checkbox"/> Sparse <input checked="" type="checkbox"/> Other: (describe) Gravel
Is there a road or driveway on the crest?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If yes, describe (good condition, numerous cracks, etc.) Good Condition	
Are there any ruts, depressions, or holes on the crest?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size, location, etc.)	
Are there any cracks on the crest?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (length and width, location and direction of cracking, etc.)	
Are there any trees or other undesired vegetation on the crest?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size, location, etc.)	
Are there any sinkholes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
The bottom ash and economizer ash are mixed with water and sluiced in a slurry form to either of the two Ash Basins. Ash slurry pipelines	
Findings:	The crest was inspected and appeared to be in satisfactory condition. No corrective actions are required at this time.
Other observations on the crest:	None

SECTION 10.0

PHYSICAL DAM FEATURES – SPILLWAY

10.0 PHYSICAL DAM FEATURES – SPILLWAY/OVERFLOW STRUCTURE TYPE:	
Type (1):	Internal Concrete Structure with Adjustable Overflow Weir
Slope Protection:	Encased in concrete
Approach:	Concrete structure exposed.
Erosion:	None observed
Vegetation:	Concrete structure exposed.
Findings:	The overflow structure was inspected and appeared to be in satisfactory condition. No corrective actions are required at this time.
Other observations on the overflow structure:	None
Type (2):	Auxiliary Spillway
Slope Protection:	6" rip rap up to elevation 256.0 NAVD 88.
Approach:	6" rip rap up to elevation 256.0 NAVD 88.
Erosion:	None observed
Vegetation:	Grass vegetation on top of the rip rap as it enters the Secondary Pond.
Findings:	The spillway was inspected and appeared to be in satisfactory condition. No corrective actions are required at this time.
Other observations on the spillway:	None

SECTION 11.0

DOCUMENTATION REVIEW

11.0 DOCUMENTATION REVIEW:	
Weekly Inspections Reviewed:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Findings: No issues.	
Monthly Instrument Inspections Reviewed:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Findings: No issues.	
Groundwater Monitoring:	Monitoring wells are in-place for routine monitoring.
Drawings Reviewed:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are there any changes in the geometry of the surface impoundment structure since the previous inspection?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
If yes, describe (size, location, etc.)	
Other observations:	Ash Basin No. 1 in final closure stage. Ash removal operations ongoing.

APPENDIX A
PHOTOGRAPH LOG

Site Name: Dolet Hills Power Station – Ash Basin No. 1

Site Location: Mansfield, DeSoto Parish, LA

Date: December 12, 2022

Ash Basin No. 1

Direction:

Southerly

Comments:

Interior slope of western levee.



Ash Basin No. 1

Direction:

Southeasterly

Comments:

Remains of Bottom Ash sluicing structure and outfall structure.



Site Name: Dolet Hills Power Station – Ash Basin No. 1

Site Location: Mansfield, DeSoto Parish, LA

Date: December 12, 2022

Ash Basin No. 1

Direction:

Southeasterly

Comments:

Remains of Bottom Ash sluicing structure in surface impoundment.



Ash Basin No. 1

Direction:

Southeasterly

Comments:

Remains of Bottom Ash sluicing structure in surface impoundment.



APPENDIX B
P.E. CERTIFICATION

**ASH BASIN NO. 1
CCR ANNUAL INSPECTION**

PROFESSIONAL ENGINEER CERTIFICATION

I hereby certify that I have inspected Cleco's Dolet Hills Power Station Ash Basin No.1 in accordance with the Annual CCR Inspection requirements. This inspection has determined that the design, operation, and maintenance of the Ash Basin No. 1 is in accordance with generally accepted engineering standards and is adequate for the facility.

Gary J. Leonards

Name

30568

Registration No.

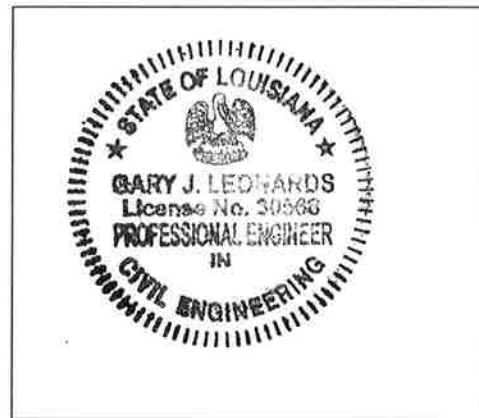
LA

State

Signature

01/18/23

Date



(Seal)

This inspection was conducted to assess the general overall condition of the reservoir/dam, identify visible deficiencies, and recommend areas for monitoring, and corrective actions. The inspection is based only on visible features/areas of the dam on the day of inspection. The owner should verify the findings of this report and take corrective actions. This inspection does not relieve the owner/operator from their responsibility to conduct routine inspections, maintenance, repairs, modifications, monitoring, and documentation.