

<b>ANNUAL CCR SURFACE IMPOUNDMENT INSPECTION:</b>			
<b>Facility Name:</b>		Cleco Dolet Hills Power Station	
<b>Address:</b>		963 Power Plant Rd. Mansfield, LA	
<b>Surface Impoundment Name :</b>	Ash Basin No. 2	<b>Owner:</b>	Cleco Power LLC
<b>Surface Impoundment ID:</b>	P-0037	<b>Operator:</b>	Cleco Power LLC
<b>Nearest City:</b>	Mansfield	<b>Parish:</b>	DeSoto
<b>Inspector:</b>		James C. Van Hoof, P.E.	
<b>Company:</b>		Providence Engineering & Environmental Group LLC	
<b>Date of Inspection:</b>		1/13/2016	
<b>Weather at Time of Inspection:</b>		Sunny	
<b>DESCRIPTION OF THE OPERATION OF THE SURFACE IMPOUNDMENTS:</b>			
<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.</p>			
<b>GENERAL</b>			
<b>Owner Contact:</b>	Anna Hanna	<b>Phone:</b>	318-682-8562
<b>Plant Manager:</b>	Pat Dupuy	<b>Phone:</b>	318-682-8525
<b>Dam Status:</b>	Operational	<b>Year Built:</b>	1984
<b>Latitude:</b>	32° 02.14' N	<b>Longitude:</b>	93° 33.65' W
<b>Dam Size:</b>	420 Acre-Feet @ 243.5 ft.		
<b>Bottom of Pond Elevation</b>	215 ft. NAVD 88	<b>Top of Dike Elevation:</b>	246 ft. NAVD 88
<b>Low Operating Level Elevation:</b>	225 ft. NAVD 88	<b>High Operating Level Elevation:</b>	240.5 ft. NAVD 88
<b>High Operating Level Storage:</b>	335 acre-feet @ 240.5 ft. NAVD 88		
<b>Maximum Storage:</b>	420 acre-feet @ 243.5 ft. NAVD 88		
<b>Maximum Surface Area:</b>	31 Acres		
<b>Offsite Drainage Area:</b>	Discharges to Secondary Pond, thence to Mundy Bayou		
<b>Spillway/Overflow Structure Type:</b>	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 246.0 NAVD 88.		

<b>QUESTIONS FOR OWNER'S REPRESENTATIVE</b>	
<b>Construction Plans Available?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Site Facility Map Available?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Operations and Maintenance Manual Available?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Emergency Action Plan Available?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Recent Modification or Improvements?</b>	Installed new level gauge in 2016
<b>Are Routine Inspections Completed?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Is Routine Maintenance Completed?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Is There Vehicle Access to the Pond?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Is Access Available During Heavy Rains?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Are Routine Inspection Logs Kept On-site?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Offsite Drainage Area:</b>	Discharges to Secondary Pond, thence to Mundy Bayou
<b>Spillway/Overflow Structure Type:</b>	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 246.0 NAVD 88.

<b>PHYSICAL DAM FEATURES – RESERVOIR:</b>	
<b>Staff Gauge Type:</b>	Level Gauge Indicator
<b>Staff Gauge Elevation at Time of Inspection:</b>	239 ft. NAVD 88
<b>Normal Operating Elevation:</b>	235 ft. NAVD 88
<b>Typical Operation:</b>	Discharges to Secondary Pond
<b>Are there any visible swirls?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size, location, etc.)	
<b>Is there excessive CCR buildup in the surface impoundment?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size of area, location, severity, etc.)	
<b>Approximate volume of Impounded water at time of inspection:</b>	300 acre-feet
<b>Approximate volume of CCR at time of inspection:</b>	400,000 cubic yards
<b>Findings:</b>	The reservoir was inspected and appeared to be in satisfactory condition. No corrective actions are required at this time.
<b>Other observations on the reservoir:</b>	None

<b>PHYSICAL DAM FEATURES – INTAKE WORKS:</b>	
<b>Number of Intakes:</b>	Three
<b>Description (1):</b>	Primary Bottom Ash Sluice Pipe
<b>Size and Type:</b>	12 Inch Steel Pipe
<b>Control:</b>	Controlled by Pumps at Plant
<b>Can Flow be Shutoff or Bypassed:</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Description (2):</b>	Chemical Sump Pipe
<b>Size and Type:</b>	6 Inch Fiberglass/PVC Pipe
<b>Control:</b>	Valve
<b>Can Flow be Shutoff or Bypassed:</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Description (3):</b>	Boiler Area Sump Water
<b>Size and Type:</b>	12 Inch Steel Pipe
<b>Control:</b>	Controlled by Pumps at Plant
<b>Can Flow be Shutoff or Bypassed:</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Is the in-flow piping free of debris and otherwise unobstructed?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If no, describe (type of debris, reason for obstruction, etc.)	
<b>Describe the quality of discharge from hydraulic structure (turbidity, depth, etc.)</b>	The inflowing water contains bottom ash which is sluiced out of solution.
<b>Findings:</b>	The intake works were inspected and appeared to be in satisfactory condition. No corrective actions are required at this time.
<b>Other observations on the intake works:</b>	None

<b>PHYSICAL DAM FEATURES – OUTLET WORKS:</b>	
<b>Number of Outlets:</b>	One
<b>Outlets/Culvert Pipe Sizes:</b>	36 Inches
<b>Type of Pipes:</b>	Corrugated Metal Pipe from internal overflow weir structure to Secondary Pond
<b>Control:</b>	Adjustable concrete stoplog overflow weir structure
<b>Can Flow be Shutoff or Bypassed:</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Describe the overall condition of the hydraulic structure: (Check all that apply)</b>	<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)
<b>Is there evidence of erosion around the hydraulic structure?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size of area, location, severity, etc.)	
<b>Is the hydraulic structure outlet flowing freely and unobstructed?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If no, describe ( type of debris, reason for obstruction, etc.)	
<b>Describe the quality of discharge from the hydraulic structure (turbidity, depth, etc.)</b>	The outflowing water is relatively clear and discharges to the Secondary Pond, thence to Mundy Bayou
<b>Findings:</b>	The outlet works were inspected and appeared to be in satisfactory condition. No corrective actions are required at this time.
<b>Other observations on the outlet works:</b>	None

SLOPE PROTECTION – EXTERIOR SLOPES:	
<b>Describe the vegetation on the exterior slope: (Check all that apply)</b>	<input type="checkbox"/> Recently Mowed <input type="checkbox"/> Overgrown (>6 inches) <input checked="" type="checkbox"/> Good Cover <input type="checkbox"/> Sparse <input type="checkbox"/> Other: (describe)
<b>Is there any erosion on the exterior slope?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size of area, location, severity, etc.)	
<b>Is there any erosion protection on the exterior slopes? (e.g. riprap, other)</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (riprap - adequate, inadequate, etc.)	
<b>Are there any Crack/Rills Observed?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size of area, location, severity, etc.)	
<b>Are there any Sinkholes Observed?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size of area, location, severity, etc.)	
<b>Are there any trees on the slopes?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (type of vegetation, size, location, etc.)	
<b>Findings:</b>	The exterior slope was inspected and appeared to be in satisfactory condition. No corrective actions are required at this time.
<b>Other observations on the exterior slopes:</b>	None

SLOPE PROTECTION – INTERIOR SLOPES:	
<b>Describe the vegetation on the interior slopes: (Check all that apply)</b>	<input type="checkbox"/> Recently Mowed <input type="checkbox"/> Overgrown (>6 inches) <input checked="" type="checkbox"/> Good Cover <input type="checkbox"/> Sparse <input type="checkbox"/> Other: (describe)
<b>Is there any erosion on the interior slope?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size of area, location, severity, etc.)	
<b>Is there any erosion protection on the interior slopes? (e.g. riprap, other)</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe what type and it's condition (riprap - adequate, inadequate, etc.)	
<b>Are there any Crack/Rills Observed?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size of area, location, severity, etc.)	
<b>Are there any Sinkholes Observed?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size of area, location, severity, etc.)	
<b>Findings:</b>	The interior slope was inspected and appeared to be in satisfactory condition. No corrective actions are required at this time.
<b>Other observations on the interior slopes:</b>	None

SLOPE PROTECTION – ABUTMENT/TOE:	
<b>Describe the vegetation on the Abutment/Toe: (Check all that apply)</b>	<input type="checkbox"/> Recently Mowed <input type="checkbox"/> Overgrown (>6 inches) <input checked="" type="checkbox"/> Good Cover <input type="checkbox"/> Sparse <input type="checkbox"/> Other: (describe)
<b>Is there any erosion on the abutment/toe?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size of area, location, severity, etc.)	
<b>Is there any erosion protection on the abutment/toe? (e.g. riprap, other)</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe what type and it's condition (riprap - adequate, inadequate, etc.)	
<b>Are there any Crack/Rills Observed?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size of area, location, severity, etc.)	
<b>Is there any Seepage Observed:</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size of area, location, severity, etc.)	
<b>Findings:</b>	The abutment/toe was inspected and appeared to be in satisfactory condition. No corrective actions are required at this time.
<b>Other observations on the abutment/toe:</b>	None



SURFACE IMPOUNDMENT CREST:	
<b>Describe the vegetation on the crest: (Check all that apply)</b>	<input type="checkbox"/> Recently Mowed <input type="checkbox"/> Overgrown (>6 inches) <input checked="" type="checkbox"/> Good Cover <input type="checkbox"/> Sparse <input checked="" type="checkbox"/> Other: (describe) Gravel
<b>Is there a road or driveway on the crest?</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If yes, describe (good condition, numerous cracks, etc.)    Good Condition	
<b>Are there any ruts, depressions, or holes on the crest?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size, location, etc.)	
<b>Are there any cracks on the crest?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (length and width, location and direction of cracking, etc.)	
<b>Are there any trees or other undesired vegetation on the crest?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size, location, etc.)	
<b>Are there any sinkholes?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, describe (size, location, etc.)	
<b>Findings:</b>	The crest was inspected and appeared to be in satisfactory condition. No corrective actions are required at this time.
<b>Other observations on the crest:</b>	None

<b>PHYSICAL DAM FEATURES – SPILLWAY/OVERFLOW STRUCTURE:</b>	
<b>Type (1):</b>	Internal Concrete Structure with Adjustable Overflow Weir
<b>Slope Protection:</b>	Encased in concrete
<b>Approach:</b>	Concrete structure surrounded by ash
<b>Erosion:</b>	None observed
<b>Vegetation:</b>	Concrete structure surrounded by ash.
<b>Findings:</b>	The overflow structure was inspected and appeared to be in satisfactory condition. No corrective actions are required at this time.
<b>Other observations on overflow structure:</b>	None
<b>Type (2):</b>	Auxiliary Spillway
<b>Slope Protection:</b>	6" rip rap up to elevation 246.0 NAVD 88.
<b>Approach:</b>	6" rip rap up to elevation 246.0 NAVD 88.
<b>Erosion:</b>	None observed
<b>Vegetation:</b>	Grass vegetation on top of the rip rap as it enters the Secondary Pond.
<b>Findings:</b>	The spillway was inspected and appeared to be in satisfactory condition. No corrective actions are required at this time.
<b>Other observations on the spillway:</b>	None

<b>DOCUMENTATION REVIEW:</b>	
<b>Weekly Inspections Reviewed:</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Findings:</b> Corrected minor erosion on northwest corner internal levee	
<b>Monthly Instrument Inspections Reviewed:</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Findings:</b> No issues	
<b>Groundwater Monitoring:</b>	Monitoring wells are in-place.
<b>Drawings Reviewed:</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Are there any changes in the geometry of the surface impoundment structure since the previous inspection?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
If yes, describe (size, location, etc.)	
<b>Other observations:</b>	None

**Site Name:** Dolet Hills Power Station – Ash Basin No. 2

**Site Location:** Mansfield, DeSoto Parish, LA

**Date:** January 13, 2016

**Ash Basin No. 2**

**Direction:**

Southerly

**Comments:**

Ash Basin looking at sluice structure.



**Ash Basin No. 2**

**Direction:**

Easterly

**Comments:**

Ash Basin



**Site Name:** Dolet Hills Power Station – Ash Basin No. 2

**Site Location:** Mansfield, DeSoto Parish, LA

**Date:** January 13, 2016

**Ash Basin No. 2**

**Direction:**

Northerly

**Comments:**

Internal slope of western levee



**Ash Basin No. 2**

**Direction:**

Northerly

**Comments:**

External slope of western levee.



**Site Name:** Dolet Hills Power Station – Ash Basin No. 2

**Site Location:** Mansfield, DeSoto Parish, LA

**Date:** January 13, 2016

**Ash Basin No. 2**

**Direction:**

Northerly

**Comments:**

Access road on western levee.



**Ash Basin No. 2**

**Direction:**

Easterly

**Comments:**

Sluice structure.



**Site Name:** Dolet Hills Power Station – Ash Basin No. 2

**Site Location:** Mansfield, DeSoto Parish, LA

**Date:** January 13, 2016

**Ash Basin No. 2**

**Direction:**

Westerly

**Comments:**

Overflow weir structure with level gauge.



**Ash Basin No. 2**

**Direction:**

Northeasterly

**Comments:**

Ash Basin with sluice structure in background.



**CLECO DOLET HILLS POWER STATION  
ASH BASIN NO. 2  
CCR ANNUAL INSPECTION**

**PROFESSIONAL ENGINEER CERTIFICATION**

I hereby certify that I have inspected Cleco's Dolet Hills Power Station Ash Basin No.2 in accordance with the Annual CCR Inspection requirements. This inspection has determined that the design, operation, and maintenance of the Ash Basin No. 2 is in accordance with generally accepted engineering standards and is adequate for the facility.

**James C. Van Hoof**

\_\_\_\_\_  
Name

**24630**

**LA**

\_\_\_\_\_  
Registration No.

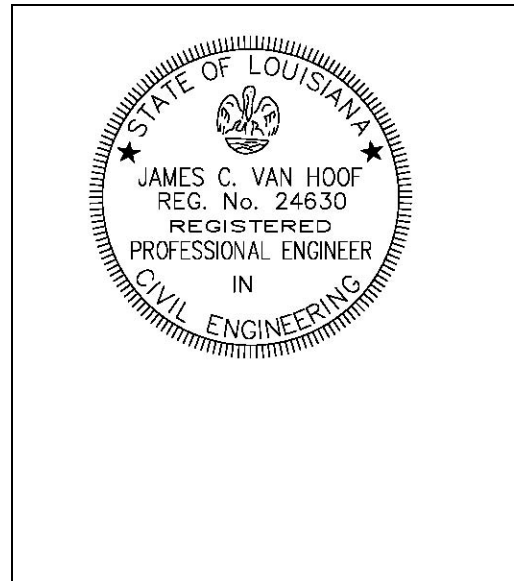
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State

*James C. Van Hoof, P.E.*

\_\_\_\_\_  
Signature

**1-14-2016**

\_\_\_\_\_  
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.