



Texas Commission on Environmental Quality

Waste Permits Division Correspondence

Cover Sheet

Date: 02/20/2024
 Facility Name: Coletto Creek Power Station
 Permit or Registration No.: CCR116

Nature of Correspondence:
 Initial/New
 Response/Revision to TCEQ Tracking No.:
27262899 (from subject line of TCEQ letter
 regarding initial submission)

Affix this cover sheet to the front of your submission to the Waste Permits Division. Check appropriate box for type of correspondence. Contact WPD at (512) 239-2335 if you have questions regarding this form.

Table 1 - Municipal Solid Waste Correspondence

Applications	Reports and Notifications
<input type="checkbox"/> New Notice of Intent	<input type="checkbox"/> Alternative Daily Cover Report
<input type="checkbox"/> Notice of Intent Revision	<input type="checkbox"/> Closure Report
<input type="checkbox"/> New Permit (including Subchapter T)	<input type="checkbox"/> Compost Report
<input type="checkbox"/> New Registration (including Subchapter T)	<input type="checkbox"/> Groundwater Alternate Source Demonstration
<input type="checkbox"/> Major Amendment	<input type="checkbox"/> Groundwater Corrective Action
<input type="checkbox"/> Minor Amendment	<input type="checkbox"/> Groundwater Monitoring Report
<input type="checkbox"/> Limited Scope Major Amendment	<input type="checkbox"/> Groundwater Background Evaluation
<input type="checkbox"/> Notice Modification	<input type="checkbox"/> Landfill Gas Corrective Action
<input type="checkbox"/> Non-Notice Modification	<input type="checkbox"/> Landfill Gas Monitoring
<input type="checkbox"/> Transfer/Name Change Modification	<input type="checkbox"/> Liner Evaluation Report
<input type="checkbox"/> Temporary Authorization	<input type="checkbox"/> Soil Boring Plan
<input type="checkbox"/> Voluntary Revocation	<input type="checkbox"/> Special Waste Request
<input type="checkbox"/> Subchapter T Disturbance Non-Enclosed Structure	<input type="checkbox"/> Other:
<input type="checkbox"/> Other:	

Table 2 - Industrial & Hazardous Waste Correspondence

Applications	Reports and Responses
<input type="checkbox"/> New	<input type="checkbox"/> Annual/Biennial Site Activity Report
<input type="checkbox"/> Renewal	<input type="checkbox"/> CPT Plan/Result
<input type="checkbox"/> Post-Closure Order	<input type="checkbox"/> Closure Certification/Report
<input type="checkbox"/> Major Amendment	<input type="checkbox"/> Construction Certification/Report
<input type="checkbox"/> Minor Amendment	<input type="checkbox"/> CPT Plan/Result
<input checked="" type="checkbox"/> CCR Registration	<input type="checkbox"/> Extension Request
<input type="checkbox"/> CCR Registration Major Amendment	<input type="checkbox"/> Groundwater Monitoring Report
<input type="checkbox"/> CCR Registration Minor Amendment	<input type="checkbox"/> Interim Status Change
<input type="checkbox"/> Class 3 Modification	<input type="checkbox"/> Interim Status Closure Plan
<input type="checkbox"/> Class 2 Modification	<input type="checkbox"/> Soil Core Monitoring Report
<input type="checkbox"/> Class 1 ED Modification	<input type="checkbox"/> Treatability Study
<input type="checkbox"/> Class 1 Modification	<input type="checkbox"/> Trial Burn Plan/Result
<input type="checkbox"/> Endorsement	<input type="checkbox"/> Unsaturated Zone Monitoring Report
<input type="checkbox"/> Temporary Authorization	<input type="checkbox"/> Waste Minimization Report
<input type="checkbox"/> Voluntary Revocation	<input type="checkbox"/> Other:
<input type="checkbox"/> 335.6 Notification	
<input type="checkbox"/> Other:	



Renee Collins
Sr. Director
Environmental Services
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6555 Sierra Drive.
Irving, TX 75039

T 214.875.8383
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Delivered overnight via FedEx and electronically via IHWPER@tceq.texas.gov

February 20, 2024

Mr. Srinath Venkat, P.E.
Texas Commission on Environmental Quality
Industrial and Hazardous Waste Permits Section - MC-130
12100 Park 35 Circle
Austin, TX 78753

RE: CCR116 New Registration Application-Revision 4
Coletto Creek Power LLC - Fannin, Goliad County
Industrial Solid Waste Registration No. 31911
EPA Identification No. TXD000836999
Tracking No. 27262899; RN100226919/CN605521988

Dear Mr. Venkat:

Coletto Creek Power LLC is pleased to submit a complete copy of the CCR116 New Registration Application package for the Coletto Creek Power Station. The application package contains recently revised application form TCEQ-20870, all current appendices, as well as all previously submitted applications and notice of deficiency responses. Coletto Creek Power will submit final closure documents when they are completed. The final closure design documents will contain more detailed information on dewatering, material management and stabilization, along with more detailed site-specific data that is currently being collected as part of the final closure design process.

If you have any questions or require any additional information, please contact Eric Chavers at 903-389-6062 or by e-mail at eric.chavers@luminant.com.

Sincerely,

A handwritten signature in blue ink, appearing to read "Renee Collins", is written over a light blue horizontal line.

Renee Collins

Attachments: CCR116 Registration Application-Revision 4 (clean and redline copies)
APPENDICES A-G (most current revision)
Initial Registration Application
NOD 1, 2, and 3 Responses

cc with attachments:

Daniella Ortiz de Montellano (daniela.ortiz-demontellano@tceq.texas.gov)



Texas Commission on Environmental Quality

Registration Application for Coal Combustion Residuals (CCR) Waste Management

I. General Information

1. Reason for Submittal

Type of Registration Application

- New Major Amendment Minor Amendment
- Notice of Deficiency (NOD) Response Transfer Name Change
- Other

2. Application Fees

\$150 Application Fee

Payment Method

- Check Online through ePay portal <www3.tceq.texas.gov/epay/>

If paid online, enter ePay Trace Number: 582EA000467502

3. Facility Information

Facility information must match regulated entity information on the Core Data Form.

Applicant: Owner Operator Owner/Operator

Facility TCEQ Solid Waste Registration No: 31911

Facility EPA ID: TXD000836999

Regulated Entity Reference No. (if issued): RN100226919

Facility Name: COLETO CREEK POWER STATION

Facility (Area Code) Telephone Number: 361-788-5100

Facility physical street address (city, state, zip code, county): 45 FM 2987, FANNIN, TX, 77960, GOLIAD

Facility mailing address (city, state, zip code, county): 6555 Sierra Drive, Irving, TX 75039

Latitude (Degrees, Minutes Seconds): 28° 43' 52"

Longitude (Degrees, Minutes Seconds): 97° 12' 55"

4. Publicly Accessible Website

Provide the URL address of a publicly accessible website where the owner or operator of a CCR unit will post information.
<https://www.luminant.com/ccr/>

5. Facility Landowner(s) Information

Facility landowner(s) name: COLETO CREEK POWER, LLC
Facility landowner mailing address: 6555 Sierra Drive
City: Irving State: TX Zip Code: 75039
(Area Code) Telephone Number: 214-875-8338
Email Address (optional):

6. CCR Waste Management Unit(s)

Landfill Unit(s) Surface Impoundment(s)

For each existing landfill, new landfill and lateral expansion, existing surface impoundment, and new surface impoundment and lateral expansion(s) provide information on type of waste, the registered unit(s) in which they are managed, and sampling and analytical methods.

Submit the following tables:

Table I.6. - CCR Waste Management Units;

Table I.6.A. - Waste Management Information;

Table I.6.B. - Waste Managed in Registered Units; and

Table I.6.C. - Sampling and Analytical Methods.

7. Description of Proposed Activities or Changes to Existing Facility

Provide a brief description of the proposed activities if application is for a new facility, or the proposed changes to an existing facility or registration conditions, if the application is for an amendment.

Coletto Creek Power, LLC operates the Coletto Creek Power Station located at 45 FM 2987 near the city of Fannin in Goliad County, Texas. The boiler uses coal as the primary fuel and fuel oil as a backup fuel to generate electricity. There are two streams of coal combustion residuals (CCR) generated at this plant. Bottom ash is collected from the boiler, combined with water, and transferred in slurry form for disposal in the facility's surface impoundment, referred to as Primary Ash Pond (PAP). Fly ash is collected from the boiler exhaust and transported pneumatically to two storage silos. From there, the fly ash is loaded into enclosed dry haul hoppers for off-site beneficial use. Off-spec fly ash is disposed in the PAP. Limited amounts of bottom ash in the surface impoundment are recovered for beneficial reuse via excavation, screening, and placement in covered dump trucks for transport off site.

8. Primary Contact Information

Contact Name: Renee Collins Title: Sr. Director Environmental Services

Contact mailing address: 6555 Sierra Drive
City: Irving County: Dallas State: TX Zip Code: 75039
(Area Code) Telephone Number: 214-875-8338

Email Address (optional):

9. Notice Publishing

Party responsible for publishing notice:

Applicant Consultant Agent in Service

Contact Name: Renee Collins Title: Sr. Director, Environmental Services

Contact mailing address: 6555 Sierra Drive
City: Irving County: Dallas State: TX Zip Code: 75039
(Area Code) Telephone Number: 214-875-8338

10. Alternative Language Notice

Is an alternative language notice required for this application? For determination, refer to Alternative Language Checklist on the Public Notice Verification Form (TCEQ-20244-Waste-NORI).

Yes No

11. Public Place Location of Application

Name of the Public Place: **Goliad Public Library**
Physical Address: **320 S. Commercial St**
City: **Goliad** County: **Goliad** State: **TX** Zip Code: **77963**
(Area code) Telephone Number: **361-645-2291**

12. Ownership Status of the Facility

Corporation Limited Partnership
 Sole Proprietorship General Partnership Other (specify): Limited Liability Company

Does the Site Owner (Permittee/Registrant) own all the CCR units and all the facility property?

Yes No

13. Property / Legal Description Information

Provide a legal description and supporting documents of the property where the management of CCR waste will occur; including a survey plat and a boundary metes and bounds description (30 TAC §352.231(g)).

Submit the following documents:

- a. Property Legal Description
- b. Property Metes and Bounds Description
- c. Metes and Bounds Drawings
- d. On-Site Easements Drawings

See APPENDIX A for Property/Legal Description Information and Property Owner Affidavit.

14. Operator Information

Identify the entity who will conduct facility operations, if the owner and operator are not the same.

Operator Name:

Operator mailing address:

City: State: Zip Code:

(Area Code) Telephone Number:

Email Address (optional):

15. Confidential Documents

Does the application contain confidential documents?

- Yes No

If “Yes”, cross-reference the confidential documents throughout the application and submit as a separate attachment in a binder clearly marked “CONFIDENTIAL.”

16. Permits and Construction Approvals

Permit or Approval	Received	Pending	Not Applicable
Hazardous Waste Management Program under the Texas Solid Waste Disposal Act	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Underground Injection Control Program under the Texas Injection Well Act	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
National Pollutant Discharge Elimination System Program under the Clean Water Act and Waste Discharge Program under Texas Water Code, Chapter 26	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prevention of Significant Deterioration Program under the Federal Clean Air Act (FCAA).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
National Emission Standards for Hazardous Air Pollutants Preconstruction Approval under the FCAA	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other (describe):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other (describe):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (describe)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

17. Legal Authority

The owner and operator of the facility shall submit verification of their legal status with the application. This shall be a one-page certificate of incorporation issued by the secretary of state. The owner or operator shall list all persons having over a 20% ownership in the facility.

See APPENDIX A for Certificate of Authority.

18. TCEQ Core Data Form

The TCEQ requires that a Core Data Form (TCEQ-10400) be submitted on all incoming applications, unless a Regulated Entity and Customer Reference Number has been issued by the TCEQ and no core data information has changed. For more information regarding the Core Data Form, call (512) 239-5175 or visit the TCEQ Website.

See APPENDIX A for TCEQ Core Data Form.

19. Other Governmental Entities Information

Coastal Management Program

Is the facility within the Coastal Management Program boundary?

Yes No

Local Government Jurisdiction (If Applicable)

Within City Limits of: N/A

Within Extraterritorial Jurisdiction of: N/A

Is the facility located in an area in which the governing body of the municipality or county has prohibited the storage, processing or disposal of municipal or industrial solid waste?

Yes No If "Yes", provide a copy of the ordinance or order as an attachment.

20. Attachments

Does the application include the following?

- General Maps Yes No
- General Topographic Map Yes No
- Facility Layout Map Yes No
- Surrounding Features Map Yes No
- Process Flow Diagram Yes No
- Land Ownership Map Yes No
- Land Ownership List Yes No
- Pre-printed Mailing Labels Yes No

Maps and drawings shall be legible and easily readable by eye without magnification. Scales and paper size shall be chosen based on the type of map submitted, the land area covered, and the amount of detail to be shown. See instructions for details regarding maps and drawings to be submitted in application.

See APPENDIX A for Attachments detailed in Item 20.

21. Verification of Compliance

Does the owner and operator verify that the design, construction, and operation of CCR landfill(s) and surface impoundment(s) meets the requirements of 30 TAC §352.231(f) (30 TAC §352.2; 40 CFR §257.52, and 40 CFR §§257.3-1 - 257.3-3).

Yes No

As requested by TCEQ, please see “Compliance Assessment for Coletto Creek Power Station Primary Ash Pond - 40 CFR 257.52(b)” memorandum for Primary Ash Pond provided by BBA in APPENDIX A.

II. Location Restrictions and Geology

See Instructions and Technical Guidance

22. Location Restrictions

Submit certifications and technical reports demonstrating compliance of CCR unit(s) with applicable location restrictions (30 TAC 352, Subchapter E) and comply with 30 TAC §352.231(d) and 30 TAC §352.4 for submission of engineering and geoscientific information.

- A. **Placement above the uppermost aquifer** (30 TAC §352.601) (40 CFR §257.60). For those CCR units whose base is less than five feet above the upper limit of the uppermost aquifer, please submit a copy of the demonstration showing evidence of compliance with 40 CFR §257.60(a) - (c).
- B. **Wetlands** (30 TAC §352.611) (40 CFR §257.61). For CCR units located in wetlands, please submit a copy of the demonstration showing evidence of compliance with 40 CFR §257.61(a) - (c).
- C. **Fault areas** (30 TAC §352.621) (40 CFR §257.62). For CCR units located within 200 feet of the outermost damage zone of a fault, please submit a copy of the demonstration showing evidence of compliance with 40 CFR §257.62(a) - (c).
- D. **Seismic impact zones** (30 TAC §352.631) (40 CFR §257.63). For CCR units located in a seismic impact zone, please submit a copy of the demonstration showing evidence of compliance with 40 CFR §257.63(a) - (c).
- E. **Unstable areas** (30 TAC §352.641) (40 CFR §257.64). For CCR units located in unstable areas, please submit a copy of the demonstration showing evidence of compliance with 40 CFR §257.64(a) - (d).

Location Restrictions Demonstration and Location Restrictions Assessment for the Primary Ash Pond located in APPENDIX B.

23. Geology Summary Report

Submit a summary of the geologic conditions at the facility, including the relation of the geologic condition to each CCR unit. The summary must include enough information and data and include sources and references for the information. Include all groundwater monitoring data required by 40 CFR Part 257, Subpart D, (30 TAC §352.241, §352.601, §352.621, §352.631, and §352.641) and submitted in accordance of 30 TAC §352.4.

Note: Previously prepared documents may be submitted but must be supplemented or updated as necessary to provide the requested information (30 TAC §352.241(b)).

For Geology Summary, please refer to “Groundwater Hydrogeologic Monitoring Plan” reports for the Primary Ash Pond located in APPENDIX E. The Geology and Hydrogeology summary is located in Section 2 of the report.

All groundwater monitoring data summarized in “2020 Annual Groundwater Monitoring and Corrective Action Report” for the Primary Ash Pond located in APPENDIX E

III. Fugitive Dust Control Plan

24. Fugitive Dust Control Plan

- A. **Submit a copy of the CCR Fugitive Dust Control Plan** (30 TAC §352.801) (40 CFR §257.80(b)), or the most recently amended plan. The initial plan or subsequent amended plan must be certified by a qualified Texas licensed professional engineer (Texas P.E.) that the plan meets the requirements of 30 TAC Chapter 352.
- B. **Submit the most recent Annual CCR Fugitive Dust Control Report** (30 TAC §352.801) (40 CFR §257.80(c)) and include the report information.

CCR Fugitive Dust Control Plan and 2021 Annual CCR Fugitive Dust Control Report are located in APPENDIX C.

IV. Landfill Criteria – N/A

See Instructions and Technical Guidance – No. 30 Coal Combustion Residuals Landfill

25. Landfill(s) for CCR Waste

Provide the following information below if there is a landfill; if there is more than one landfill, separate information is required for each landfill.

A. Landfill Characteristics

Describe the design, installation, construction, and operation of the landfill and submit a completed Table IV.A. – Landfill Characteristics.

B. Liner Design

1. For existing landfills, provide attachments describing how the facility will comply with 30 TAC 352, Subchapter F (Design Criteria).

2. For new landfills or lateral expansions of existing landfills, submit pages describing how the facility will comply with 30 TAC §352.261 and 30 TAC §352.701.
3. Complete Table IV.B. - Landfill Liner System and specify the type of liner used for the landfill.
4. Provide attachments describing the design, installation, and operation of the liner and leak detection system. The description must demonstrate that the liner and leak detection system will prevent discharge to the land, groundwater, and surface water. Submit a quality assurance project plan (QAPP) to ensure that each analysis is performed appropriately.

C. Leachate Collection and Removal

Submit design information and description of leachate collection and removal system in accordance with 30 TAC §352.701.

Complete Table IV.C. - Landfill Leachate Collection System

D. Design of Liner and Leachate Collection and Removal System.

For a new landfill or lateral expansion of a CCR landfill, provide a qualified Texas P.E. certification and technical report that the design of the liner and the leachate collection and removal system meets the requirements of 30 TAC §352.711.

E. Run-on and Run-off Controls

At time of application, attach pages describing how the facility will comply with the run-on and run-off system plan for an existing, new, or lateral expansion of a CCR landfill information. Provide a qualified Texas P.E. certification and technical report that the run-on and run-off control system plans meet the requirements of 30 TAC §352.811.

F. Inspection for Landfills

At time of application, attach pages describing how the facility will comply 30 TAC §352.841 and complete Table IV.D. - Inspection Schedule for Landfills. For existing CCR landfills, provide the most recent inspection report. All CCR landfills and any lateral expansions of a CCR landfill must be inspected for any structural weakness, malfunction, deterioration conditions which are disrupting or have the potential to disrupt the operation or safety of the CCR unit, or any other conditions which may cause harm to human health and environment at a frequency specified in 40 CFR §257.84(a) and (b).

V. Surface Impoundment Criteria

See Instructions and Technical Guidance – No. 31 Coal Combustion Residuals Surface Impoundment

26. Surface Impoundment(s) for CCR Waste

Provide the following information below if there is a surface impoundment; if there is more than one surface impoundment, separate information is required for each surface impoundment.

A. General Surface Impoundment(s) Characteristics

Provide information about the characteristics of the surface impoundment(s): incised, surface area (acres), storage volume (acres-feet), and depth (feet).

For all surface impoundment(s), include the following information:

1. Complete Table V.A. - Surface Impoundments Characteristics. List the surface impoundment(s) to be registered as a CCR unit(s), the wastes managed in each unit, and the rated capacity or size of each unit.
2. Describe the surface impoundment(s) and provide a plan view drawing with cross-sections, if available.

See "History of Construction and Initial Hazard Potential Assessment, Structural Integrity Assessment, and Safety Factor Assessment" in APPENDIX D, section 2.3 for a summary description of the impoundment. For drawings, see Figures 2-4 and 2-5A.

3. Specify the minimum freeboard to be maintained and the basis of the design to prevent overtopping resulting from normal or abnormal operation; overfilling; wind and wave action; rainfall; run-on; malfunctions of level controllers, alarms, and other equipment; and human error. Show that adequate freeboard will be available to prevent overtopping from a 100-year, 24-hour storm.

The "Inflow Design Flood Control System Plan" located in APPENDIX D indicates maximum elevation set at 136.1' to allow sufficient freeboard for design storm and wave action. See last paragraph of section 2.0.

4. Waste Flow
Describe the means that will be used to immediately shut off the flow of waste to the impoundment in the event of liner failure or to prevent overtopping.

All inflows that enter the surface impoundment are pumped into the unit under controlled conditions. There are no gravity or uncontrolled inflows. Pumps will be immediately removed from service to shut off flows to the impoundment.

5. Dike Construction Yes No

If Yes, submit the dike certification (located at the end of the application).

In October 2016, the initial certified Periodic Hazard Potential Classification Assessment, Periodic Structural Stability Assessment, and Periodic Safety Factor Assessment were completed for the Primary Ash Pond as required by 40 CFR 257.73(a), 257.73(d), and 257.73(e). In October 2021, the certified 5-Year Updates to these assessments were completed as required by 40 CFR 257.73 and 30 TAC 352.731, which identified no structural deficiencies. The most recent 2021 5-Year Assessment Updates are located in APPENDIX E. Based on the conclusion in the certified 5-year updates that no structural deficiencies exist, the facility is submitting these documents in lieu of the Dike Certification.

The structural integrity of the dike system must be certified by a qualified Texas P.E. before the registration is issued. If the impoundment is not being used, the dike system must be certified before it can be put into use. The certification must be sealed by a qualified Texas P.E., along with the engineering firm's name and registration number (30 TAC §352.4).

A report shall accompany the dike certification which summarizes the activities, calculations, and laboratory and field analyses performed in support of the dike certification. Describe the design basis used in construction of the dikes. A QAPP should be included in the report to ensure that each analysis is performed appropriately and include:

- (1) Slope Stability Analysis
- (2) Hydrostatic and Hydrodynamic Analysis
- (3) Storm Loading
- (4) Rapid Drawdown

Earthen dikes should have a protective cover to minimize wind and water erosion and to preserve the structural integrity of the dike. Describe the protective cover used and describe its installation and maintenance procedures.

B. Liner Design

For surface impoundment(s), provide information about how the facility will comply with 30 TAC §352.711 for existing CCR surface impoundments. For new and lateral expansion of CCR surface impoundments provide information on how the facility will comply with 30 TAC §352.261, and 30 TAC §352.721, see Instructions and Technical Guidance No. 31 Coal Combustion Residuals Surface Impoundment. The qualified Texas P.E. must certify that the design of the liner complies with the requirements of 30 TAC Chapter 352 and 40 CFR Part 257, Subpart D, where required.

Is the CCR surface impoundment unlined? Yes No

If “Yes”, the CCR unit is subject to the closure requirements under 30 TAC Chapter 352 and 40 CFR §257.101(a) to retrofit or close. A notification must be prepared stating that an assessment of corrective measures has been initiated.

On November 30, 2020, Coletto Creek Power, LLC (CCP) submitted a request to the U.S. Environmental Protection Agency (EPA) for approval of a site-specific alternative deadline to initiate closure pursuant to 40 C.F.R. § 257.103(f)(2) for the Primary Ash Pond located at the Coletto Creek Power Plant near Fannin, Texas. CCP is requesting an extension pursuant to 40 C.F.R. § 257.103(f)(2) so that the Primary Ash Pond may continue to receive CCR and non-CCR wastestreams after April 11, 2021, and complete closure no later than October 17, 2028. On January 11, 2022, EPA issued a letter stating the site-specific alternative deadline demonstration was deemed complete thus tolling the cease receipt date until a final decision is issued on the demonstration. The “Coletto Creek CCR Surface Impoundment Demonstration for a Site-Specific Alternative to the Initiation of Closure” report submitted can be found in APPENDIX D.

1. Complete Table V.B. - Surface Impoundment Liner System for each surface impoundment to be registered.
2. Describe the design, installation and operation of liner and leak detection components. The description must demonstrate that the liner and leak detection system will prevent discharge to the land and surface water. Submit a QAPP report to ensure that each analysis is performed appropriately.

See Section 2 in the “History of Construction and Initial Hazard Potential Assessment, Structural Integrity Assessment, and Safety Factor Assessment” report in APPENDIX D.

3. For new or laterally expansions of existing surface impoundments, provide a subsurface soil investigation report that must include:
 - a. A description of all borings drilled, at the unit location, to test soils and characterize groundwater;
 - b. A unit map drawn to scale showing the surveyed locations and elevations of the borings, including location of permanent identification markers ((30 TAC §352.731) and (40 CFR §257.73(a)(1));
 - c. Cross-sections prepared from the borings depicting the generalized strata at the unit;
 - d. Boring logs, including a description of materials encountered, and any discontinuities such as fractures, fissures, slickensides, lenses or seams;

- e. A description of the geotechnical data and the geotechnical properties of the subsurface soil materials, including the suitability of the soils and strata for the intended uses; and
- f. A demonstration that all geotechnical tests were performed in accordance with industry practices and recognized procedures.

C. Hazard Potential Classification

Provide the current hazard potential classification assessment and associated documentation, as required by 30 TAC §352.731 or §352.741 and 40 CFR §257.73(a)(2) or §257.74(a)(2). The qualified Texas P.E. must certify that the initial hazard potential classification and any subsequent periodic classification was conducted in accordance with the requirements of 30 TAC Chapter 352, where required.

Hazard Potential Classification: **LOW**

See **“Hazard Potential Classification Assessment”** located in APPENDIX D.

D. Emergency Action Plan for High or Significantly High Hazard Potential

Provide the current Emergency Action Plan that has been certified by a qualified Texas P.E. and includes the following requirements from 30 TAC 352, Subchapter F and 40 CFR §257.73(a)(3)(i)(A) - (E) or 40 CFR §257.74 (a)(3)(i)(A) - (E). The qualified Texas P.E. must certify that the written Emergency Action Plan and any subsequent amendment of the plan complies with the requirements of 30 TAC 352, Subchapter F, where required.

Complete Table V.J. - Inspection of Surface Impoundments

N/A

E. Inflow Design Flood Control System Plan

Describe how the surface impoundment(s) system will manage stormwater run-on away from the surface impoundment(s) (30 TAC §352.821 and 40 CFR §257.82(a) and (c)). Stormwater run-on must be diverted away from a surface impoundment, based on the hazard potential. Where dikes are used to divert run-on, they must be protected from erosion. Include all analyses used to calculate run-on volumes. Provide the inflow design flood control system plan. Provide qualified Texas P.E. certification that the initial and periodic inflow design flood control system plans meet the requirements of 30 TAC §352.821, where required.

See **“Inflow Design Flood Control System Plan”** located in APPENDIX D.

F. History of Construction for Existing CCR Surface Impoundment(s), or the Design and Construction Plans for New and Lateral Expansions

Provide information on the history of construction for each existing CCR surface impoundment (30 TAC §352.731 and 40 CFR §257.73(c)) or the design and construction plans for new and lateral expansions of each CCR surface impoundment (30 TAC §352.741) and (40 CFR §257.74(c)).

See **“History of Construction”** report located in APPENDIX D.

G. Structural Stability Assessment

Provide the most recent structural stability assessment of the surface impoundments. Include the combined capacity of all surface impoundment spillways with calculations; the peak discharge the unit must meet for all combined spillways; probable maximum flood-high hazard, 1,000-yr-significant high hazard, 100-yr-low hazard; identify if there were any structural stability deficiencies in last assessment; identify how these deficiencies were managed and corrected; and qualified Texas P.E. certification. The structural stability assessment must include all information required in 30 TAC §352.731 for existing surface impoundments or 30 TAC §352.741 for new or laterally expanding surface impoundments.

See “Structural Stability Assessment” located in APPENDIX D.

H. Safety Factor Assessment

The current safety factor assessment must be submitted with the application. It must include documentation that demonstrates whether the calculated factors of safety for each CCR surface impoundment achieve the minimum safety factors specified in 30 TAC 352, Subchapter F and 40 CFR §257.73(e)(1)(i) - (iv) and 40 CFR §257.74(e)(1)(i) - (iv) for the critical cross-section of the embankment. The critical cross-section is the cross-section anticipated to be the most susceptible to structural failure based on appropriate engineering considerations, including loading conditions. The safety factor assessments must be supported by appropriate engineering calculations and certified by a qualified Texas P.E.

See “Safety Factor Assessment” located in APPENDIX D.

VI. Groundwater Monitoring and Corrective Action (30 TAC 352, Subchapter H)

See Instructions and Technical Guidance – No. 32 Coal Combustion Residuals Groundwater Monitoring and Corrective Action

27. Groundwater Monitoring System

- A. Complete Table VI.A. - Unit Groundwater Detection Monitoring System.
- B. Provide a map showing location of wells, groundwater elevations, and groundwater flow direction.

See Figures 4 thru 7 in the “Groundwater Hydrogeologic Monitoring Plan” in APPENDIX E.

- C. Provide attachments describing how the facility will comply with the requirements in 30 TAC §352.911 and provide a certification by a qualified Texas P.E. or qualified Texas P.G. that the groundwater monitoring system design and construction meet the requirements of 30 TAC Chapter 352.

See Appendix A in the “Groundwater Hydrogeologic Monitoring Plan” located in APPENDIX E for the monitoring system certification. “Supplemental Geologic and Hydrogeologic Information Report No.2.” is also included in APPENDIX E to supplement information in the “Groundwater Hydrogeologic Monitoring Plan”.

- D. Provide a figure showing the geologic units and fill materials overlying the uppermost aquifer, materials comprising the uppermost aquifer, and materials comprising the confining unit defining the lower boundary of the uppermost aquifer, including, but not limited to, thicknesses, stratigraphy, lithology, hydraulic conductivities, porosities and effective porosities.

See Figures 2 and 3 in the “Groundwater Hydrogeologic Monitoring Plan” in APPENDIX E. For additional information see the “Supplemental Geologic and Hydrogeologic Information Report No.2” also in APPENDIX E.

- E. For a multiunit groundwater monitoring system, demonstrate that the groundwater monitoring system will be equally as capable of detecting monitored constituents at the waste boundary of the CCR unit as the individual groundwater monitoring system for each CCR unit by providing at minimum the following information:

1. Number, spacing, and orientation of each CCR unit;
2. Hydrogeologic setting; and
3. Site history.

- F. Has there been any sampling concentrations of one or more constituents listed in Appendix IV detected at statistically significant levels above the groundwater protection standard (GWPS)? Yes No

- G. Provide information on how monitoring wells have been constructed and cased in a manner that maintains the integrity of the monitoring well borehole and to prevent contamination of samples and the groundwater.

Groundwater monitoring well construction logs are located in Appendix B of the “Groundwater Hydrogeologic Monitoring Plan” found in APPENDIX E.

28. Groundwater Monitoring Sampling and Analysis Program

Provide a sampling and analysis plan that includes procedures and techniques; sampling and analytical methods that are appropriate for groundwater sampling; and that address the requirements of 30 TAC §352.931 and 40 CFR §257.93. Provide a P.E or P.G. certification that describes the statistical method selected to evaluate the groundwater monitoring data and certifies that the selected statistical method is appropriate for evaluating the groundwater monitoring data for the CCR management area. Refer to TG-32 for information and guidance.

See “Groundwater Monitoring Plan-Revision 1”, Background Groundwater Monitoring and Statistical Analysis Summary Report”, “Statistical Analysis Plan-Revision 1”, and “Statistical Method Certification” in APPENDIX E.

29. CCR Unit(s) in a Detection Monitoring Program

Does the facility have CCR unit(s) in a Detection Monitoring Program?

Yes No

If “Yes”, Submit the following information:

- A. Submit Table VI.C. – Facility CCR Units Under Detection Monitoring.
- B. Provide a Background Evaluation Report.
- C. Provide a report with the results of semiannual monitoring events.
 1. Has a statistically significant increase (SSI) been detected for one or more of the constituents listed in Appendix III at any monitoring well?

- Yes No
2. Has a notification to the executive director been sent within 14 days?
 Yes No
3. Date assessment monitoring program will start:
4. Do you plan to provide an alternative source demonstration (ASD)?
 Yes No

30. CCR Unit(s) in an Assessment Monitoring Program

Does the facility have CCR unit(s) in an Assessment Monitoring Program?

Yes No

If "Yes", Submit information related for units.

A. Complete Table VI.D. - CCR Units Under Assessment Monitoring.

B. Provide, for each well in assessment monitoring status, the recorded concentrations lab sheets and results in a tabulated form.

See summary Tables 3 and 4 for all results in tabulated form in the "2020 Annual Groundwater Monitoring and Corrective Action Report" in APPENDIX E.

Have the concentrations of all constituents listed in Appendices III and IV been at or below background values, using the statistical procedures in 30 TAC §352.931 and 40 CFR §257.93(g), for two consecutive sampling events for the CCR unit(s)? Yes No

If answer to above is yes, detection monitoring may resume. The owner or operator must prepare a notification stating that detection monitoring is resuming for the CCR unit and obtain written approval from the executive director.

C. Are there any concentrations of any constituent in Appendices III and IV above background values? Yes No

1. Has a notification to the executive director been sent within 14 days?

Yes No

D. Date assessment of corrective measures will be initiated (must be within 90 days of finding a statistically significant level above the GWPS) for the CCR unit(s):

Not required due to no SSLs to date. Unit is in assessment monitoring but has not triggered assessment of corrective measure to date.

E. Will you provide an ASD (see TG-32 for an acceptable submittal)? Yes No

F. Date assessment of corrective measures will be initiated if ASD is not accepted?

Not required.

G. Complete Table VI.D-2. - Groundwater Detection Monitoring Parameters

Note: Refer to TG-32 regarding establishing a GWPS for each constituent in Appendix IV detected in the groundwater and attach as table.

- H. Have you completed the assessment of corrective measures? Yes No
If “Yes”, date assessment of corrective measures was completed:
If “No”, date assessment of corrective measures will be completed: **Not required**
Expected date of submittal of amendment (see note below):
Provide completed assessment of corrected measures materials.

Note: Within **30 days** of completing the assessment of corrective measures, and before remedy implementation, the owner or operator shall submit an application for amendment to the registration. In some circumstances, the assessment of corrective measures and selected remedy may be approved as part of the initial application for the CCR unit registration.

- I. Have you selected a remedy? Yes No **N/A**
Provide public meeting documentation under 30 TAC §352.961 and a report under 30 TAC §352.971 and 40 CFR §257.97.

VII. Closure and Post-Closure Care

See Instructions and Technical Guidance

Submit a full closure plan and post-closure plan and all information describing how the owner or operator will comply with 30 TAC 352, Subchapter J and 40 CFR §§257.100 - 257.104. The owner of property on which an existing disposal facility is located, following the closure of a unit, must also submit documentation that a notation has been placed in the deed to the facility that will in perpetuity notify any potential purchasers of the property that the land has been used to manage CCR wastes and its use is restricted (30 TAC §352.1221 and 40 CFR §257.102(i)). For CCR units, closed after October 19, 2015, that were closed before submission of the application, the applicant should submit documentation to show that notices required under 30 TAC 352, Subchapter K and 40 CFR §257.105 or §257.106 have been filed.

See “Closure Plan” and “Post-Closure Plan” in APPENDIX F. Also included in the appendix is “Closure Plan Addendum No.1” that was prepared to meet the requirements of the site-specific alternative deadline to initiate closure. “Closure Plan Addendum No.2” and “Post-Closure Plan Addendum No.1” are also in APPENDIX F.

On January 11, 2022, USEPA provided a determination that the alternative closure demonstration was complete thus tolling the waste receipt deadline for the CCR unit until USEPA issues a final decision. To date, no decision has been issued by USEPA regarding the Coletto Creek request for a site-specific alternative deadline to initiate closure. A copy of the completeness determination letter is located in APPENDIX F.

31. Closure Plan

This section applies to the owners and operators of all CCR units required to be registered. The applicant must close the facility in a manner that minimizes need for further maintenance and controls, or eliminates, to the extent necessary to protect human health and the environment, the post-closure release of CCR waste, chemical constituents of concern, leachate, contaminated rainfall, or waste decomposition products to the groundwater, surface waters, or to the atmosphere.

The type of unit to be closed can determine the level of detail sufficient for a closure plan. CCR units which have been certified closed after October 19, 2015, must provide documentation to demonstrate compliance with state and federal regulations.

For each unit to be registered, complete Table VII.A.1. - Unit Closure and list the CCR Unit components to be decontaminated, possible methods of decontamination, and possible methods of disposal of wastes and waste residues generated during unit closure. All ancillary components must be decontaminated, and the generated waste disposed of appropriately.

Information about CCR units closed or to be closed under alternative closure requirements must be provided in Table VII.A.2. - CCR Units Under Alternative Closure Notification.

Guidance on design of a closure cap and final cover for non-hazardous industrial solid wastes landfills is provided in EPA publication 530-SW-85-014, TCEQ Technical Guidance No. 3 and TCEQ publication, RG-534, "Guidance for Liner Construction and Testing for a Municipal Solid Waste Landfill".

32. Post-Closure Care Plan

Provide a post-closure care plan that complies with the requirements of 30 TAC §352.1241.

See "Post-Closure Plan" and "Post-Closure Plan Addendum No.1" in APPENDIX F.

Post-closure care of each CCR unit must continue for at least 30 years after the date of completing closure of the unit and must consist of monitoring and reporting of the groundwater monitoring systems, in addition to the maintenance and monitoring of CCR unit. Continuation of certain security requirements may be necessary after the date of closure. Post-closure use of property on or in which waste remains after closure must never be allowed to disrupt the integrity of the containment system. In addition, submit the following information:

- The name, address, and phone number of the person or office to contact about the CCR unit during the post-closure period; and

Luminant-Environmental Services
Renee Collins-Senior Environmental Director
6555 Sierra Drive
Irving, TX 75039
214-875-8338
CCRPostClosurePlan@Luminant.com

- A discussion of the future use of the land associated with each unit.

Following closure of the Primary Ash Pond, a notation on the deed to the property, or some other instrument that is normally examined during title search, will be recorded in accordance with 40 CFR 257.102(i). The notation will notify potential purchasers of the property that the land has been used as a CCR unit and its use is restricted under the post-closure care requirements per 40 CFR 257.104(d)(1)(iii).

Landfills and surface impoundments which have been certified closed after October 19, 2015, must be included in post-closure care plans, unless they have been determined to have been closed by waste removal equivalent to the closure standards in 30 TAC §352.1221 and 40 CFR §257.102 or 30 TAC §352.1231 and 40 CFR §257.103. If such a demonstration has been made pursuant to 40 CFR §257.102 or §257.103, but an equivalency determination has not been made, please submit a copy of the demonstration documentation. If an equivalency determination has been made, applicant should submit a copy of this determination.

VIII. Financial Assurance

33. Post-Closure Care Cost Estimate

Financial assurance for post-closure care (30 TAC §352.1101) applies to owners or operators of all CCR units, except CCR units from which the owner or operator intends to remove wastes and perform clean closure. Provide a written cost estimate in current dollars of the total cost of the 30-year (or longer, if applicable under 30 TAC §352.1101(d)) post-closure care period to perform post-closure care requirements as prescribed in 30 TAC §352.1241. The cost estimate must be based on the costs of hiring a third party to conduct post-closure care maintenance.

Complete Table VIII.A.1 - Post-Closure Cost Summary for Existing Registered Units

See Post-Closure Care Cost Estimate in APPENDIX G. Cost estimates for the Primary Ash Pond are summarized in Table 1.

Complete Table VIII.A.2. - Post-Closure Cost Summary for Proposed Registered Units

34. Financial Assurance Mechanism

The financial assurance for post-closure care is required in accordance with 30 TAC §352.1101. The applicant shall demonstrate the financial assurance within 90 days after approval of the registration with a financial mechanism acceptable to TCEQ in compliance with 30 TAC §352.1101(c) and 30 TAC §37, Subchapters A through D, except as indicated in 30 TAC §352.1111, in an amount no less than the amount specified in the approved Post-Closure Care Cost Summary. Provide a description of the proposed financial assurance mechanism.

Luminant Generation Company LLC will provide an acceptable financial assurance mechanism per 30 TAC 352.1101 no more than 90 days after the executive director's approval of the registration.

Complete Table VIII.B. - Post-Closure Period, for the authorized post-closure period, to meet the requirements of 30 TAC §352.1241(a) through (c).

Signature Page

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Applicant Signature: _____ Date: _____

Name and Official Title (type or print): _____

Owner or Operator Signature: Renee Collins Date: 2/15/2024

Name and Official Title (type or print): Renee Collins, Senior Director

To be completed by the owner or operator if the application is signed by an authorized representative for the operator

I, _____ hereby designate _____
(operator) (authorized representative)

as my representative and hereby authorize said representative to sign any application, submit additional information as may be requested by the Commission; and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a CCR waste management registration. I further understand that I am responsible for the contents of this application, for oral statements given by my authorized representative in support of the application, and for compliance with the terms and conditions of any registration which might be issued based upon this application.

Printed or Typed Name of Applicant or Principal Executive Officer

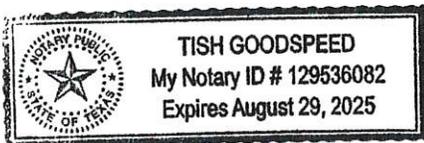
Signature

(Note: Application Must Bear Signature & Seal of Notary Public)

Subscribed and sworn to before me by the said Renee Collins on this
15th day of February, 2024.

My commission expires on the 29 day of August, 2025

(Seal) Notary Public in and for Dallas County, Texas



Tish Goodspeed

Registration Application for Coal Combustion Residuals Waste Management

(See instructions for P.E/P.G. seal requirements.)

Attachments and Tables

Attachment No.

General Information

Appendix A

Property/Legal Description
Property Owner Affidavit
Legal Authority
Delegation of Signature Authority
TCEQ Core Data Form
Attachments
Compliance Assessment for Coletto Creek Power Station Primary Ash Pond – 40 CFR 257.52(b)

Location Restrictions & Geology

Appendix B

Location Restrictions Demonstration
Location Restrictions Assessment

Fugitive Dust Control Plan

Appendix C

CCR Fugitive Dust Control Plan
2021 Annual CCR Fugitive Dust Control Report

Surface Impoundment Design and Operating Criteria

Appendix D

Alternative Closure Plan Demonstration – §257.103(f)(2)
Hazard Potential Classification Assessment
Inflow Design Flood Control Plan
History of Construction Report
Structural Stability Assessment
Safety Factor Assessment

Groundwater Monitoring and Corrective Action

Appendix E

Groundwater Hydrogeologic Monitoring Plan
Supplemental Geologic and Hydrogeologic Information
Supplemental Geologic and Hydrogeologic Information Report No.2
Groundwater Monitoring Plan-Revision 1
Background Groundwater Monitoring and Statistical Analysis Summary Report
Statistical Analysis Plan-Revision 1
Statistical Method Certification
2020 Groundwater Monitoring and Corrective Action Report
2021 Groundwater Monitoring and Corrective Action Report-Revision 1

Closure and Post-Closure Care

Appendix F

Closure Plan
Closure Plan Addendum No.1
Closure Plan Addendum No.2
Alternative Closure Demonstration Completeness Determination Letter
Post-Closure Plan
Post-Closure Addendum No.1

Financial Assurance

Appendix G

Post-Closure Care Cost Estimate

Tables

Tables	Submitted	Not Applicable
Table I.6. - CCR Waste Management Units	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table I.6.A. - Waste Management Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table I.6.B. - Wastes Managed in Registered Units	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table I.6.C. - Sampling and Analytical Methods	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table IV.A. - Landfill Characteristics	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Table IV.B. - Landfill Liner System	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Table IV.C. - Landfill Leachate Collection System	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Table IV.D. - Inspection Schedule of Landfills	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Table V.A. - Surface Impoundments Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table V.B. - Surface Impoundment Liner System	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table V.J. - Inspection of Surface Impoundments	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table VI.A. - Unit Groundwater Detection Monitoring System	<input type="checkbox"/>	<input type="checkbox"/>
Table VI.C. - CCR Units Under Detection Monitoring	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Table VI.C-1. - Groundwater Detection Monitoring Parameters	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table VI.D. - CCR Units Under Assessment Monitoring	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table VI.D-2. - Groundwater Assessment Monitoring Parameters	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table VII.A.1. - Unit Closure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table VII.A.2. - CCR Units Under Alternative Closure Notification	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table VIII.A.1. - Post-Closure Cost Summary for Existing Registered Units	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table VIII.A.2. - Post-Closure Cost Summary for Proposed Registered Units	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Table VIII.B. - Post-Closure Period	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Engineering Certification(s) - Dike Construction	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Additional Attachments as Applicable - Select all those apply and add as necessary

- TCEQ Core Data Form(s) **Appendix A**
- Signatory Authority Delegation **Appendix A**
- Fee Payment Receipt
- Confidential Documents
- Certificate of Fact (Certificate of Incorporation) **Appendix A**
- Assumed Name Certificate

Registration No.: CCR116
 Registrant: Coletto Creek Power Station

Table IV.A. - Landfills Characteristics

Registered Unit No.	Landfill	N.O.R. No.	Waste Nos. ¹	Rated Capacity	Dimensions ²	Distance from lowest liner to groundwater	Action Leakage Rate (if required)	Unit will manage CCR Waste and non-CCR Waste (state all that apply)
N/A								

1 From Table I.6.A., first column

2 Dimensions should be provided as average length, width and depth, also include the surface acreage for the unit.

Registration No.: CCR116
 Registrant: Coletto Creek Power Station

Table IV.B. – Landfill Liner System

Registered Unit No.*	Landfill	Geomembrane Liner Material	Geomembrane Liner Permeability (cm/sec)	Geomembrane Liner Thickness	Soil Liner Material	Soil Liner Permeability (cm/sec)	Soil Liner Thickness
N/A							

* This number should match the Registration Unit No. given on Table IV.A.

Registration No.: CCR116
Registrant: Coletto Creek Power Station

Table IV.C. - Landfill Leachate Collection System

Registered Unit No.	Landfill Name	Drainage Media	Collection Pipes (including risers)	Filter Fabric	Geofabric	Sump Material
N/A						

Registration No.: CCR116
 Registrant: Coletto Creek Power Station

Table V.A. – Surface Impoundment Characteristics

Registered Unit No.	Surface Impoundment Name	N.O.R. No.	Waste Nos. ¹	Rated Capacity	Dimensions ²	Distance from lowest liner to groundwater	Action Leakage Rate (if required)	Unit will manage CCR Waste and non-CCR Waste (state all that apply)
001	Primary Ash Pond	001	1, 2	2,700 acre-feet	2,450 feet W x 3,375 feet L x 20 feet D 190 acres	>5 Feet	n/a	Fly Ash, Bottom Ash

1 From Table I.6.A., first column

2 Dimensions should be provided as average length, width and depth, also include the surface acreage for the unit.

Table V.B. – Surface Impoundment Liner System

Registered Unit No.*	Surface Impoundment Name	Geomembrane Liner Material	Geomembrane Liner Permeability (cm/sec)	Geomembrane Liner Thickness	Soil Liner Material	Soil Liner Permeability (cm/sec)	Soil Liner Thickness
001	Primary Ash Pond	None	None	None	In-situ clay	<1.0 x 10 ⁻⁷ cm/sec	Ranges 10 feet to 20 feet ¹

* This number should match the Registration Unit No. given on Table V.A.

1-See description in Section 2.0 of the “Supplemental Geologic and Hydrogeologic Information Report No. 2” located in Appendix E

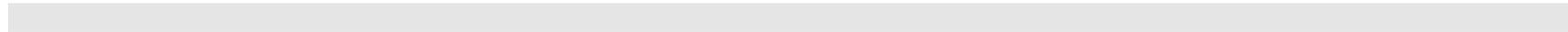


Table V.J. - Inspection Schedule of Surface Impoundments

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection
001-Primary Ash Pond		Weekly inspections are performed at intervals not exceeding seven days per 40 CFR 257.83(a)
Above-grade piping	Deteriorating of piping/connections	Weekly inspections are performed at intervals not exceeding seven days per 40 CFR 257.83(a)
Truck Access Ramp	Spills, Deterioration	Weekly inspections are performed at intervals not exceeding seven days per 40 CFR 257.83(a), spills inspected and reported within 24-hrs
Containment Dike	Spills, excessive water levels, surface cracking, animal burrows, misalignments, slides, vegetative cover, rutting, erosion, seepage, slope protection/chutes	Weekly inspections are performed at intervals not exceeding seven days per 40 CFR 257.83(a), spills inspected and reported within 24-hrs
Instrumentation	Monitor water level	Unit instrumentation (water level gauge) is inspected and monitored at intervals not exceeding 30 days per 40 CFR 257.83(a)(1)(iii).
Groundwater	Deterioration of pads, bollards, missing locks, compromise of casing integrity	Semi-Annual Inspection
001-Primary Ash Pond		Annually per 40 CFR 257.83(b)
	Inspect for any changes in geometry of the structure since the previous annual inspection.	Annual Inspection
	Evaluate the approximate minimum, maximum, and present depth and elevation of the impounded water and CCR since previous annual inspection.	Annual Inspection
	Evaluate the storage capacity at the time of the inspection.	Annual Inspection
	Estimate the approximate volume of the impounded water and CCR contained in the unit at the time of the inspection.	Annual Inspection
	Inspect for any other change(s) which have affected the stability or operation of the CCR unit since the previous inspection	Annual Inspection

Registration No. CCR116
 Registrant: Coleto Creek Power, LLC

Table VI.A. - Unit Groundwater Detection Monitoring Systems

Waste Management Unit/Area Name ¹	WMU 001 - Primary Ash Pond								
Well Number(s):	MW-4	MW-5	MW-6	MW-8	MW-9	MW-10	MW-11	BV-5	BV-21
Hydrogeologic Unit Monitored	Houston Group	Houston Group	Houston Group	Houston Group	Houston Group	Houston Group	Houston Group	Houston Group	Houston Group
Type (e.g., point of compliance, background, observation, etc.)	POC	POC	POC	POC	POC	POC	POC	POC	POC
Up or Down Gradient	Down	Down	Down	Up	Down	Down	Down	B?	Up
Casing Diameter and Material	4" PVC	4" PVC	4" PVC	4" PVC	2" PVC				
Screen Diameter and Material	4" PVC	4" PVC	4" PVC	4" PVC	2" PVC				
Screen Slot Size (in.)	0.016"	0.016"	0.016"	0.016"	0.010"	0.010"	0.010"	0.010"	0.010"
Top of Casing Elevation (Ft, Mean Sea Level [MSL])	137.71	122.31	119.22	134.72	132.3	130.4	118.66	135.8	131.17
Grade or Surface Elevation (Ft, MSL)	134.3	119.57	116.35	131.78	129.3	127.6	115.8	133	128.4
Well Depth (Ft, Below Grade Surface [BGS])	70.1	59.27	61.15	56.88	60	60	49	40	40
Well Depth (Ft, Below Top of Casing [BTOC])	73.51	62.01	64.02	59.82	63	62.8	51.86	42.8	42.77
Screen Interval									
From (Ft, BGS)	50.5	39.47	41.25	36.98	40	40	29	30	30
To (Ft, BGS)	70.1	59.27	61.15	56.88	60	60	49	40	40
Screen Interval									
From (Ft, BTOC)	53.91	42.21	44.12	39.92	43	42.8	31.86	32.8	32.77
To (Ft, BTOC)	73.51	62.01	64.02	59.82	63	62.8	51.86	42.8	42.77

1 From Tables in Section I.; MSL : Mean Sea Level; BGS : Below Grade Surface; BTOC : Below Top of Casing

NOTE-Data from Table 3 from Groundwater Hydrogeologic Monitoring Plan 10/17/2017

Registration No.: CCR116
 Registrant: Coletto Creek Power Station

Table VI.C. – CCR Units Under Detection Monitoring

N.O.R. Unit No.	Unit Description ^{1,2}	Well(s)	Constituent(s)	Date of SSI Determination	Date of Assessment Monitoring Notification ³
N/A					

1 Indicates a unit for which a 30 TAC Chapter 352/40 CFR Part 257, Subpart D alternative closure determination has been requested pursuant to 40 CFR §257.103.
 2 Indicates a unit for which a 30 TAC Chapter 352/40 CFR Part 257, Subpart D alternative closure determination has been made pursuant to 40 CFR §257.103.
 3 Enter month, day, and year.

Table VI.C-1. - Groundwater Detection Monitoring Parameters

Parameter	Sampling Frequency	Analytical Method	Practical Quantification Limit (units)	Concentration Limit ¹
Boron	Semi-Annual	SW6020A	0.0100 mg/L	1.3
Calcium	Semi-Annual	SW6020A	0.10 mg/L	140
Chloride	Semi-Annual	E300	0.30 mg/L	120
Fluoride	Semi-Annual	E300	0.100 mg/L	0.61
Sulfate	Semi-Annual	E300	1.00 mg/L	150
Total Dissolved Solids	Semi-Annual	M2540C	10.0 mg/L	970
pH	Semi-Annual	Field Measured	s.u.	6.5 7.3

¹ The concentration limit is the basis for determining whether a release has occurred from the CCR unit/area.

Table VI.D-2. - Groundwater Assessment Monitoring Parameters

Parameter	Sampling Frequency	Analytical Method	Practical Quantification Limit (units)	Concentration Limit ¹
Antimony	Semi-Annual	SW6020B	0.000800 mg/L	0.0060 mg/L
Arsenic	Semi-Annual	SW6020B	0.00200 mg/L	0.13 mg/L
Barium	Semi-Annual	SW6020B	0.00300 mg/L	2.0 mg/L
Beryllium	Semi-Annual	SW6020B	0.000300 mg/L	0.0040 mg/L
Cadmium	Semi-Annual	SW6020B	0.000300 mg/L	0.0050 mg/L
Chromium	Semi-Annual	SW6020B	0.00200 mg/L	0.10 mg/L
Cobalt	Semi-Annual	SW6020B	0.00300 mg/L	0.050 mg/L
Fluoride	Semi-Annual	SW6020B	0.100 mg/L	4.0 mg/L
Lead	Semi-Annual	SW6020B	0.000300 mg/L	0.015 mg/L
Lithium	Semi-Annual	SW6020B	0.00500 mg/L	0.040 mg/L
Mercury	Semi-Annual	SW7470A	0.0000800 mg/L	0.0020 mg/L
Molybdenum	Semi-Annual	SW6020B	0.00200 mg/L	0.10 mg/L
Selenium	Semi-Annual	SW6020B	0.00200 mg/L	0.050 mg/L
Thallium	Semi-Annual	SW6020B	0.000500 mg/L	0.0020 mg/L
Radium 226+228	Semi-Annual	904 + SM7500Ra B M	varies	5.0 pCi/L

¹ The concentration limit is the basis for determining whether a release has occurred from the CCR unit/area.

Table VIII.B. – Post-Closure Period

Unit Name	Date Certified Closed	Authorized Post-Closure Period (Yrs.)	Earliest Date Post-Closure Ends (See Note 1)
[Unit Example 1]	[1/1/1995]	30 years	[1/1/2025]
[Unit Example 2]	[1/1/1990]	30 years	[1/1/2020]
[Unit Example 3]	[1/1/1984]	30 years	[1/1/2014]

Note 1 - Post-Closure Care shall continue beyond the specified date until the Executive Director has approved the applicant's request to reduce or terminate the post-closure period, consistent with 30 TAC §352.1241 - Post-Closure Care Requirements.

N/A



Texas Commission on Environmental Quality

Registration Application for Coal Combustion Residuals (CCR) Waste Management

I. General Information

1. Reason for Submittal

Type of Registration Application

- New Major Amendment Minor Amendment
- Notice of Deficiency (NOD) Response Transfer Name Change
- Other

2. Application Fees

\$150 Application Fee

Payment Method

- Check Online through ePay portal <www3.tceq.texas.gov/epay/>

If paid online, enter ePay Trace Number: 582EA000467502

3. Facility Information

Facility information must match regulated entity information on the Core Data Form.

Applicant: Owner Operator Owner/Operator

Facility TCEQ Solid Waste Registration No: 31911

Facility EPA ID: TXD000836999

Regulated Entity Reference No. (if issued): RN100226919

Facility Name: COLETO CREEK POWER STATION

Facility (Area Code) Telephone Number: 361-788-5100

Facility physical street address (city, state, zip code, county): 45 FM 2987, FANNIN, TX, 77960, GOLIAD

Facility mailing address (city, state, zip code, county): 6555 Sierra Drive, Irving, TX 75039

Latitude (Degrees, Minutes Seconds): 28° 42' 43" 4952"

Longitude (Degrees, Minutes Seconds): 97° 12' 5055"

4. Publicly Accessible Website

Provide the URL address of a publicly accessible website where the owner or operator of a CCR unit will post information.
<https://www.luminant.com/ccr/>

5. Facility Landowner(s) Information

Facility landowner(s) name: COLETO CREEK POWER, LLC
Facility landowner mailing address: 6555 Sierra Drive
City: Irving State: TX Zip Code: 75039
(Area Code) Telephone Number: 214-875-8338
Email Address (optional):

6. CCR Waste Management Unit(s)

Landfill Unit(s) Surface Impoundment(s)

For each existing landfill, new landfill and lateral expansion, existing surface impoundment, and new surface impoundment and lateral expansion(s) provide information on type of waste, the registered unit(s) in which they are managed, and sampling and analytical methods.

Submit the following tables:

Table I.6. - CCR Waste Management Units;

Table I.6.A. - Waste Management Information;

Table I.6.B. - Waste Managed in Registered Units; and

Table I.6.C. - Sampling and Analytical Methods.

7. Description of Proposed Activities or Changes to Existing Facility

Provide a brief description of the proposed activities if application is for a new facility, or the proposed changes to an existing facility or registration conditions, if the application is for an amendment.

Coletto Creek Power, LLC operates the Coletto Creek Power Station located at 45 FM 2987 near the city of Fannin in Goliad County, Texas. The boiler uses coal as the primary fuel and fuel oil as a backup fuel to generate electricity. There are two streams of coal combustion residuals (CCR) generated at this plant. Bottom ash is collected from the boiler, combined with water, and transferred in slurry form for disposal in the facility's surface impoundment, referred to as Primary Ash Pond (PAP). Fly ash is collected from the boiler exhaust and transported pneumatically to two storage silos. From there, the fly ash is loaded into enclosed dry haul hoppers for off-site beneficial use. Off-spec fly ash is disposed in the PAP. Limited amounts of bottom ash in the surface impoundment are recovered for beneficial reuse via excavation, screening, and placement in covered dump trucks for transport off site.

8. Primary Contact Information

Contact Name: Renee Collins Title: Sr. Director Environmental Services

Contact mailing address: 6555 Sierra Drive
City: Irving County: Dallas State: TX Zip Code: 75039
(Area Code) Telephone Number: 214-875-8338

Email Address (optional):

9. Notice Publishing

Party responsible for publishing notice:

Applicant Consultant Agent in Service

Contact Name: Renee Collins Title: Sr. Director, Environmental Services

Contact mailing address: 6555 Sierra Drive
City: Irving County: Dallas State: TX Zip Code: 75039
(Area Code) Telephone Number: 214-875-8338

10. Alternative Language Notice

Is an alternative language notice required for this application? For determination, refer to Alternative Language Checklist on the Public Notice Verification Form (TCEQ-20244-Waste-NORI).

Yes No

11. Public Place Location of Application

Name of the Public Place: **Goliad Public Library**
Physical Address: **320 S. Commercial St**
City: **Goliad** County: **Goliad** State: **TX** Zip Code: **77963**
(Area code) Telephone Number: **361-645-2291**

12. Ownership Status of the Facility

Corporation Limited Partnership
 Sole Proprietorship General Partnership Other (specify): Limited Liability Company

Does the Site Owner (Permittee/Registrant) own all the CCR units and all the facility property?

Yes No

13. Property / Legal Description Information

Provide a legal description and supporting documents of the property where the management of CCR waste will occur; including a survey plat and a boundary metes and bounds description (30 TAC §352.231(g)).

Submit the following documents:

- a. Property Legal Description
- b. Property Metes and Bounds Description
- c. Metes and Bounds Drawings
- d. On-Site Easements Drawings

See APPENDIX A for Property/Legal Description Information and Property Owner Affidavit.

14. Operator Information

Identify the entity who will conduct facility operations, if the owner and operator are not the same.

Operator Name:

Operator mailing address:

City: State: Zip Code:

(Area Code) Telephone Number:

Email Address (optional):

15. Confidential Documents

Does the application contain confidential documents?

- Yes No

If “Yes”, cross-reference the confidential documents throughout the application and submit as a separate attachment in a binder clearly marked “CONFIDENTIAL.”

16. Permits and Construction Approvals

Permit or Approval	Received	Pending	Not Applicable
Hazardous Waste Management Program under the Texas Solid Waste Disposal Act	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Underground Injection Control Program under the Texas Injection Well Act	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
National Pollutant Discharge Elimination System Program under the Clean Water Act and Waste Discharge Program under Texas Water Code, Chapter 26	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prevention of Significant Deterioration Program under the Federal Clean Air Act (FCAA).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
National Emission Standards for Hazardous Air Pollutants Preconstruction Approval under the FCAA	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other (describe):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other (describe):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (describe)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

17. Legal Authority

The owner and operator of the facility shall submit verification of their legal status with the application. This shall be a one-page certificate of incorporation issued by the secretary of state. The owner or operator shall list all persons having over a 20% ownership in the facility.

See APPENDIX A for Certificate of Authority.

18. TCEQ Core Data Form

The TCEQ requires that a Core Data Form (TCEQ-10400) be submitted on all incoming applications, unless a Regulated Entity and Customer Reference Number has been issued by the TCEQ and no core data information has changed. For more information regarding the Core Data Form, call (512) 239-5175 or visit the TCEQ Website.

See APPENDIX A for TCEQ Core Data Form.

19. Other Governmental Entities Information

Coastal Management Program

Is the facility within the Coastal Management Program boundary?

Yes No

Local Government Jurisdiction (If Applicable)

Within City Limits of: N/A

Within Extraterritorial Jurisdiction of: N/A

Is the facility located in an area in which the governing body of the municipality or county has prohibited the storage, processing or disposal of municipal or industrial solid waste?

Yes No If "Yes", provide a copy of the ordinance or order as an attachment.

20. Attachments

Does the application include the following?

- General Maps Yes No
- General Topographic Map Yes No
- Facility Layout Map Yes No
- Surrounding Features Map Yes No
- Process Flow Diagram Yes No
- Land Ownership Map Yes No
- Land Ownership List Yes No
- Pre-printed Mailing Labels Yes No

Maps and drawings shall be legible and easily readable by eye without magnification. Scales and paper size shall be chosen based on the type of map submitted, the land area covered, and the amount of detail to be shown. See instructions for details regarding maps and drawings to be submitted in application.

See APPENDIX A for Attachments detailed in Item 20.

21. Verification of Compliance

Does the owner and operator verify that the design, construction, and operation of CCR landfill(s) and surface impoundment(s) meets the requirements of 30 TAC §352.231(f) (30 TAC §352.2; 40 CFR §257.52, and 40 CFR §§257.3-1 - 257.3-3).

Yes No

As requested by TCEQ, please see “Compliance Assessment for Coletto Creek Power Station Primary Ash Pond - 40 CFR 257.52(b)” memorandum for Primary Ash Pond provided by BBA in APPENDIX A.

II. Location Restrictions and Geology

See Instructions and Technical Guidance

22. Location Restrictions

Submit certifications and technical reports demonstrating compliance of CCR unit(s) with applicable location restrictions (30 TAC 352, Subchapter E) and comply with 30 TAC §352.231(d) and 30 TAC §352.4 for submission of engineering and geoscientific information.

- A. **Placement above the uppermost aquifer** (30 TAC §352.601) (40 CFR §257.60). For those CCR units whose base is less than five feet above the upper limit of the uppermost aquifer, please submit a copy of the demonstration showing evidence of compliance with 40 CFR §257.60(a) - (c).
- B. **Wetlands** (30 TAC §352.611) (40 CFR §257.61). For CCR units located in wetlands, please submit a copy of the demonstration showing evidence of compliance with 40 CFR §257.61(a) - (c).
- C. **Fault areas** (30 TAC §352.621) (40 CFR §257.62). For CCR units located within 200 feet of the outermost damage zone of a fault, please submit a copy of the demonstration showing evidence of compliance with 40 CFR §257.62(a) - (c).
- D. **Seismic impact zones** (30 TAC §352.631) (40 CFR §257.63). For CCR units located in a seismic impact zone, please submit a copy of the demonstration showing evidence of compliance with 40 CFR §257.63(a) - (c).
- E. **Unstable areas** (30 TAC §352.641) (40 CFR §257.64). For CCR units located in unstable areas, please submit a copy of the demonstration showing evidence of compliance with 40 CFR §257.64(a) - (d).

Location Restrictions Demonstration and Location Restrictions Assessment for the Primary Ash Pond located in APPENDIX B.

23. Geology Summary Report

Submit a summary of the geologic conditions at the facility, including the relation of the geologic condition to each CCR unit. The summary must include enough information and data and include sources and references for the information. Include all groundwater monitoring data required by 40 CFR Part 257, Subpart D, (30 TAC §352.241, §352.601, §352.621, §352.631, and §352.641) and submitted in accordance of 30 TAC §352.4.

Note: Previously prepared documents may be submitted but must be supplemented or updated as necessary to provide the requested information (30 TAC §352.241(b)).

For Geology Summary, please refer to “Groundwater Hydrogeologic Monitoring Plan” reports for the Primary Ash Pond located in APPENDIX E. The Geology and Hydrogeology summary is located in Section 2 of the report.

All groundwater monitoring data summarized in “2020 Annual Groundwater Monitoring and Corrective Action Report” for the Primary Ash Pond located in APPENDIX E

III. Fugitive Dust Control Plan

24. Fugitive Dust Control Plan

- A. **Submit a copy of the CCR Fugitive Dust Control Plan** (30 TAC §352.801) (40 CFR §257.80(b)), or the most recently amended plan. The initial plan or subsequent amended plan must be certified by a qualified Texas licensed professional engineer (Texas P.E.) that the plan meets the requirements of 30 TAC Chapter 352.
- B. **Submit the most recent Annual CCR Fugitive Dust Control Report** (30 TAC §352.801) (40 CFR §257.80(c)) and include the report information.

CCR Fugitive Dust Control Plan and 2021 Annual CCR Fugitive Dust Control Report are located in APPENDIX C.

IV. Landfill Criteria – N/A

See Instructions and Technical Guidance – No. 30 Coal Combustion Residuals Landfill

25. Landfill(s) for CCR Waste

Provide the following information below if there is a landfill; if there is more than one landfill, separate information is required for each landfill.

A. Landfill Characteristics

Describe the design, installation, construction, and operation of the landfill and submit a completed Table IV.A. – Landfill Characteristics.

B. Liner Design

1. For existing landfills, provide attachments describing how the facility will comply with 30 TAC 352, Subchapter F (Design Criteria).

2. For new landfills or lateral expansions of existing landfills, submit pages describing how the facility will comply with 30 TAC §352.261 and 30 TAC §352.701.
3. Complete Table IV.B. - Landfill Liner System and specify the type of liner used for the landfill.
4. Provide attachments describing the design, installation, and operation of the liner and leak detection system. The description must demonstrate that the liner and leak detection system will prevent discharge to the land, groundwater, and surface water. Submit a quality assurance project plan (QAPP) to ensure that each analysis is performed appropriately.

C. Leachate Collection and Removal

Submit design information and description of leachate collection and removal system in accordance with 30 TAC §352.701.

Complete Table IV.C. - Landfill Leachate Collection System

D. Design of Liner and Leachate Collection and Removal System.

For a new landfill or lateral expansion of a CCR landfill, provide a qualified Texas P.E. certification and technical report that the design of the liner and the leachate collection and removal system meets the requirements of 30 TAC §352.711.

E. Run-on and Run-off Controls

At time of application, attach pages describing how the facility will comply with the run-on and run-off system plan for an existing, new, or lateral expansion of a CCR landfill information. Provide a qualified Texas P.E. certification and technical report that the run-on and run-off control system plans meet the requirements of 30 TAC §352.811.

F. Inspection for Landfills

At time of application, attach pages describing how the facility will comply 30 TAC §352.841 and complete Table IV.D. - Inspection Schedule for Landfills. For existing CCR landfills, provide the most recent inspection report. All CCR landfills and any lateral expansions of a CCR landfill must be inspected for any structural weakness, malfunction, deterioration conditions which are disrupting or have the potential to disrupt the operation or safety of the CCR unit, or any other conditions which may cause harm to human health and environment at a frequency specified in 40 CFR §257.84(a) and (b).

V. Surface Impoundment Criteria

See Instructions and Technical Guidance – No. 31 Coal Combustion Residuals Surface Impoundment

26. Surface Impoundment(s) for CCR Waste

Provide the following information below if there is a surface impoundment; if there is more than one surface impoundment, separate information is required for each surface impoundment.

A. General Surface Impoundment(s) Characteristics

Provide information about the characteristics of the surface impoundment(s): incised, surface area (acres), storage volume (acres-feet), and depth (feet).

For all surface impoundment(s), include the following information:

1. Complete Table V.A. - Surface Impoundments Characteristics. List the surface impoundment(s) to be registered as a CCR unit(s), the wastes managed in each unit, and the rated capacity or size of each unit.
2. Describe the surface impoundment(s) and provide a plan view drawing with cross-sections, if available.

See "History of Construction and Initial Hazard Potential Assessment, Structural Integrity Assessment, and Safety Factor Assessment" in APPENDIX D, section 2.3 for a summary description of the impoundment. For drawings, see Figures 2-4 and 2-5A.

3. Specify the minimum freeboard to be maintained and the basis of the design to prevent overtopping resulting from normal or abnormal operation; overfilling; wind and wave action; rainfall; run-on; malfunctions of level controllers, alarms, and other equipment; and human error. Show that adequate freeboard will be available to prevent overtopping from a 100-year, 24-hour storm.

The "Inflow Design Flood Control System Plan" located in APPENDIX D indicates maximum elevation set at 136.1' to allow sufficient freeboard for design storm and wave action. See last paragraph of section 2.0.

4. Waste Flow
Describe the means that will be used to immediately shut off the flow of waste to the impoundment in the event of liner failure or to prevent overtopping.

All inflows that enter the surface impoundment are pumped into the unit under controlled conditions. There are no gravity or uncontrolled inflows. Pumps will be immediately removed from service to shut off flows to the impoundment.

5. Dike Construction Yes No

If Yes, submit the dike certification (located at the end of the application).

In October 2016, the initial certified Periodic Hazard Potential Classification Assessment, Periodic Structural Stability Assessment, and Periodic Safety Factor Assessment were completed for the Primary Ash Pond as required by 40 CFR 257.73(a), 257.73(d), and 257.73(e). In October 2021, the certified 5-Year Updates to these assessments were completed as required by 40 CFR 257.73 and 30 TAC 352.731, which identified no structural deficiencies. The most recent 2021 5-Year Assessment Updates are located in APPENDIX E. Based on the conclusion in the certified 5-year updates that no structural deficiencies exist, the facility is submitting these documents in lieu of the Dike Certification.

The structural integrity of the dike system must be certified by a qualified Texas P.E. before the registration is issued. If the impoundment is not being used, the dike system must be certified before it can be put into use. The certification must be sealed by a qualified Texas P.E., along with the engineering firm's name and registration number (30 TAC §352.4).

A report shall accompany the dike certification which summarizes the activities, calculations, and laboratory and field analyses performed in support of the dike certification. Describe the design basis used in construction of the dikes. A QAPP should be included in the report to ensure that each analysis is performed appropriately and include:

- (1) Slope Stability Analysis
- (2) Hydrostatic and Hydrodynamic Analysis
- (3) Storm Loading
- (4) Rapid Drawdown

Earthen dikes should have a protective cover to minimize wind and water erosion and to preserve the structural integrity of the dike. Describe the protective cover used and describe its installation and maintenance procedures.

B. Liner Design

For surface impoundment(s), provide information about how the facility will comply with 30 TAC §352.711 for existing CCR surface impoundments. For new and lateral expansion of CCR surface impoundments provide information on how the facility will comply with 30 TAC §352.261, and 30 TAC §352.721, see Instructions and Technical Guidance No. 31 Coal Combustion Residuals Surface Impoundment. The qualified Texas P.E. must certify that the design of the liner complies with the requirements of 30 TAC Chapter 352 and 40 CFR Part 257, Subpart D, where required.

Is the CCR surface impoundment unlined? Yes No

If “Yes”, the CCR unit is subject to the closure requirements under 30 TAC Chapter 352 and 40 CFR §257.101(a) to retrofit or close. A notification must be prepared stating that an assessment of corrective measures has been initiated.

On November 30, 2020, Coletto Creek Power, LLC (CCP) submitted a request to the U.S. Environmental Protection Agency (EPA) for approval of a site-specific alternative deadline to initiate closure pursuant to 40 C.F.R. § 257.103(f)(2) for the Primary Ash Pond located at the Coletto Creek Power Plant near Fannin, Texas. CCP is requesting an extension pursuant to 40 C.F.R. § 257.103(f)(2) so that the Primary Ash Pond may continue to receive CCR and non-CCR wastestreams after April 11, 2021, and complete closure no later than October 17, 2028. On January 11, 2022, EPA issued a letter stating the site-specific alternative deadline demonstration was deemed complete thus tolling the cease receipt date until a final decision is issued on the demonstration. The “Coletto Creek CCR Surface Impoundment Demonstration for a Site-Specific Alternative to the Initiation of Closure” report submitted can be found in APPENDIX D.

1. Complete Table V.B. - Surface Impoundment Liner System for each surface impoundment to be registered.
2. Describe the design, installation and operation of liner and leak detection components. The description must demonstrate that the liner and leak detection system will prevent discharge to the land and surface water. Submit a QAPP report to ensure that each analysis is performed appropriately.

See Section 2 in the “History of Construction and Initial Hazard Potential Assessment, Structural Integrity Assessment, and Safety Factor Assessment” report in APPENDIX D.

3. For new or laterally expansions of existing surface impoundments, provide a subsurface soil investigation report that must include:
 - a. A description of all borings drilled, at the unit location, to test soils and characterize groundwater;
 - b. A unit map drawn to scale showing the surveyed locations and elevations of the borings, including location of permanent identification markers ((30 TAC §352.731) and (40 CFR §257.73(a)(1));
 - c. Cross-sections prepared from the borings depicting the generalized strata at the unit;
 - d. Boring logs, including a description of materials encountered, and any discontinuities such as fractures, fissures, slickensides, lenses or seams;

- e. A description of the geotechnical data and the geotechnical properties of the subsurface soil materials, including the suitability of the soils and strata for the intended uses; and
- f. A demonstration that all geotechnical tests were performed in accordance with industry practices and recognized procedures.

C. Hazard Potential Classification

Provide the current hazard potential classification assessment and associated documentation, as required by 30 TAC §352.731 or §352.741 and 40 CFR §257.73(a)(2) or §257.74(a)(2). The qualified Texas P.E. must certify that the initial hazard potential classification and any subsequent periodic classification was conducted in accordance with the requirements of 30 TAC Chapter 352, where required.

Hazard Potential Classification: **LOW**

See **“Hazard Potential Classification Assessment”** located in APPENDIX D.

D. Emergency Action Plan for High or Significantly High Hazard Potential

Provide the current Emergency Action Plan that has been certified by a qualified Texas P.E. and includes the following requirements from 30 TAC 352, Subchapter F and 40 CFR §257.73(a)(3)(i)(A) - (E) or 40 CFR §257.74 (a)(3)(i)(A) - (E). The qualified Texas P.E. must certify that the written Emergency Action Plan and any subsequent amendment of the plan complies with the requirements of 30 TAC 352, Subchapter F, where required.

Complete Table V.J. - Inspection of Surface Impoundments

N/A

E. Inflow Design Flood Control System Plan

Describe how the surface impoundment(s) system will manage stormwater run-on away from the surface impoundment(s) (30 TAC §352.821 and 40 CFR §257.82(a) and (c)). Stormwater run-on must be diverted away from a surface impoundment, based on the hazard potential. Where dikes are used to divert run-on, they must be protected from erosion. Include all analyses used to calculate run-on volumes. Provide the inflow design flood control system plan. Provide qualified Texas P.E. certification that the initial and periodic inflow design flood control system plans meet the requirements of 30 TAC §352.821, where required.

See **“Inflow Design Flood Control System Plan”** located in APPENDIX D.

F. History of Construction for Existing CCR Surface Impoundment(s), or the Design and Construction Plans for New and Lateral Expansions

Provide information on the history of construction for each existing CCR surface impoundment (30 TAC §352.731 and 40 CFR §257.73(c)) or the design and construction plans for new and lateral expansions of each CCR surface impoundment (30 TAC §352.741) and (40 CFR §257.74(c)).

See **“History of Construction”** report located in APPENDIX D.

G. Structural Stability Assessment

Provide the most recent structural stability assessment of the surface impoundments. Include the combined capacity of all surface impoundment spillways with calculations; the peak discharge the unit must meet for all combined spillways; probable maximum flood-high hazard, 1,000-yr-significant high hazard, 100-yr-low hazard; identify if there were any structural stability deficiencies in last assessment; identify how these deficiencies were managed and corrected; and qualified Texas P.E. certification. The structural stability assessment must include all information required in 30 TAC §352.731 for existing surface impoundments or 30 TAC §352.741 for new or laterally expanding surface impoundments.

See “Structural Stability Assessment” located in APPENDIX D.

H. Safety Factor Assessment

The current safety factor assessment must be submitted with the application. It must include documentation that demonstrates whether the calculated factors of safety for each CCR surface impoundment achieve the minimum safety factors specified in 30 TAC 352, Subchapter F and 40 CFR §257.73(e)(1)(i) - (iv) and 40 CFR §257.74(e)(1)(i) - (iv) for the critical cross-section of the embankment. The critical cross-section is the cross-section anticipated to be the most susceptible to structural failure based on appropriate engineering considerations, including loading conditions. The safety factor assessments must be supported by appropriate engineering calculations and certified by a qualified Texas P.E.

See “Safety Factor Assessment” located in APPENDIX D.

VI. Groundwater Monitoring and Corrective Action (30 TAC 352, Subchapter H)

See Instructions and Technical Guidance – No. 32 Coal Combustion Residuals Groundwater Monitoring and Corrective Action

27. Groundwater Monitoring System

- A. Complete Table VI.A. - Unit Groundwater Detection Monitoring System.
- B. Provide a map showing location of wells, groundwater elevations, and groundwater flow direction.

See Figures 4 thru 7 in the “Groundwater Hydrogeologic Monitoring Plan” in APPENDIX E.

- C. Provide attachments describing how the facility will comply with the requirements in 30 TAC §352.911 and provide a certification by a qualified Texas P.E. or qualified Texas P.G. that the groundwater monitoring system design and construction meet the requirements of 30 TAC Chapter 352.

See Appendix A in the “Groundwater Hydrogeologic Monitoring Plan” located in APPENDIX E for the monitoring system certification. “Supplemental Geologic and Hydrogeologic Information Report No.2.” is also included in APPENDIX E to supplement information in the “Groundwater Hydrogeologic Monitoring Plan”.

- D. Provide a figure showing the geologic units and fill materials overlying the uppermost aquifer, materials comprising the uppermost aquifer, and materials comprising the confining unit defining the lower boundary of the uppermost aquifer, including, but not limited to, thicknesses, stratigraphy, lithology, hydraulic conductivities, porosities and effective porosities.

See Figures 2 and 3 in the “Groundwater Hydrogeologic Monitoring Plan” in APPENDIX E. For additional information see the “Supplemental Geologic and Hydrogeologic Information Report No.2” also in APPENDIX E.

- E. For a multiunit groundwater monitoring system, demonstrate that the groundwater monitoring system will be equally as capable of detecting monitored constituents at the waste boundary of the CCR unit as the individual groundwater monitoring system for each CCR unit by providing at minimum the following information:

1. Number, spacing, and orientation of each CCR unit;
2. Hydrogeologic setting; and
3. Site history.

- F. Has there been any sampling concentrations of one or more constituents listed in Appendix IV detected at statistically significant levels above the groundwater protection standard (GWPS)? Yes No

- G. Provide information on how monitoring wells have been constructed and cased in a manner that maintains the integrity of the monitoring well borehole and to prevent contamination of samples and the groundwater.

Groundwater monitoring well construction logs are located in Appendix B of the “Groundwater Hydrogeologic Monitoring Plan” found in APPENDIX E.

28. Groundwater Monitoring Sampling and Analysis Program

Provide a sampling and analysis plan that includes procedures and techniques; sampling and analytical methods that are appropriate for groundwater sampling; and that address the requirements of 30 TAC §352.931 and 40 CFR §257.93. Provide a P.E or P.G. certification that describes the statistical method selected to evaluate the groundwater monitoring data and certifies that the selected statistical method is appropriate for evaluating the groundwater monitoring data for the CCR management area. Refer to TG-32 for information and guidance.

See “Groundwater Monitoring Plan-Revision 1”, Background Groundwater Monitoring and Statistical Analysis Summary Report”, “Statistical Analysis Plan-Revision 1”, and “Statistical Method Certification” in APPENDIX E.

29. CCR Unit(s) in a Detection Monitoring Program

Does the facility have CCR unit(s) in a Detection Monitoring Program?

Yes No

If “Yes”, Submit the following information:

- A. Submit Table VI.C. – Facility CCR Units Under Detection Monitoring.
- B. Provide a Background Evaluation Report.
- C. Provide a report with the results of semiannual monitoring events.
 1. Has a statistically significant increase (SSI) been detected for one or more of the constituents listed in Appendix III at any monitoring well?

- Yes No
2. Has a notification to the executive director been sent within 14 days?
 Yes No
3. Date assessment monitoring program will start:
4. Do you plan to provide an alternative source demonstration (ASD)?
 Yes No

30. CCR Unit(s) in an Assessment Monitoring Program

Does the facility have CCR unit(s) in an Assessment Monitoring Program?

Yes No

If "Yes", Submit information related for units.

A. Complete Table VI.D. - CCR Units Under Assessment Monitoring.

B. Provide, for each well in assessment monitoring status, the recorded concentrations lab sheets and results in a tabulated form.

See summary Tables 3 and 4 for all results in tabulated form in the "2020 Annual Groundwater Monitoring and Corrective Action Report" in APPENDIX E.

Have the concentrations of all constituents listed in Appendices III and IV been at or below background values, using the statistical procedures in 30 TAC §352.931 and 40 CFR §257.93(g), for two consecutive sampling events for the CCR unit(s)? Yes No

If answer to above is yes, detection monitoring may resume. The owner or operator must prepare a notification stating that detection monitoring is resuming for the CCR unit and obtain written approval from the executive director.

C. Are there any concentrations of any constituent in Appendices III and IV above background values? Yes No

1. Has a notification to the executive director been sent within 14 days?

Yes No

D. Date assessment of corrective measures will be initiated (must be within **90 days** of finding a statistically significant level above the GWPS) for the CCR unit(s):

Not required due to no SSLs to date. Unit is in assessment monitoring but has not triggered assessment of corrective measure to date.

E. Will you provide an ASD (see TG-32 for an acceptable submittal)? Yes No

F. Date assessment of corrective measures will be initiated if ASD is not accepted?

Not required.

G. Complete Table VI.D-2. - Groundwater Detection Monitoring Parameters

Note: Refer to TG-32 regarding establishing a GWPS for each constituent in Appendix IV detected in the groundwater and attach as table.

- H. Have you completed the assessment of corrective measures? Yes No

If “Yes”, date assessment of corrective measures was completed:

If “No”, date assessment of corrective measures will be completed: **Not required**

Expected date of submittal of amendment (see note below):

Provide completed assessment of corrected measures materials.

Note: Within **30 days** of completing the assessment of corrective measures, and before remedy implementation, the owner or operator shall submit an application for amendment to the registration. In some circumstances, the assessment of corrective measures and selected remedy may be approved as part of the initial application for the CCR unit registration.

- I. Have you selected a remedy? Yes No **N/A**

Provide public meeting documentation under 30 TAC §352.961 and a report under 30 TAC §352.971 and 40 CFR §257.97.

VII. Closure and Post-Closure Care

See Instructions and Technical Guidance

Submit a full closure plan and post-closure plan and all information describing how the owner or operator will comply with 30 TAC 352, Subchapter J and 40 CFR §§257.100 - 257.104. The owner of property on which an existing disposal facility is located, following the closure of a unit, must also submit documentation that a notation has been placed in the deed to the facility that will in perpetuity notify any potential purchasers of the property that the land has been used to manage CCR wastes and its use is restricted (30 TAC §352.1221 and 40 CFR §257.102(i)). For CCR units, closed after October 19, 2015, that were closed before submission of the application, the applicant should submit documentation to show that notices required under 30 TAC 352, Subchapter K and 40 CFR §257.105 or §257.106 have been filed.

See “Closure Plan” and “Post-Closure Plan” in APPENDIX F. Also included in the appendix is “Closure Plan Addendum No.1” that was prepared to meet the requirements of the site-specific alternative deadline to initiate closure. “Closure Plan Addendum No.2” and “Post-Closure Plan Addendum No.1” are also in APPENDIX F.

On January 11, 2022, USEPA provided a determination that the alternative closure demonstration was complete thus tolling the waste receipt deadline for the CCR unit until USEPA issues a final decision. To date, no decision has been issued by USEPA regarding the Coletto Creek request for a site-specific alternative deadline to initiate closure. A copy of the completeness determination letter is located in APPENDIX F.

31. Closure Plan

This section applies to the owners and operators of all CCR units required to be registered. The applicant must close the facility in a manner that minimizes need for further maintenance and controls, or eliminates, to the extent necessary to protect human health and the environment, the post-closure release of CCR waste, chemical constituents of concern, leachate, contaminated rainfall, or waste decomposition products to the groundwater, surface waters, or to the atmosphere.

The type of unit to be closed can determine the level of detail sufficient for a closure plan. CCR units which have been certified closed after October 19, 2015, must provide documentation to demonstrate compliance with state and federal regulations.

For each unit to be registered, complete Table VII.A.1. - Unit Closure and list the CCR Unit components to be decontaminated, possible methods of decontamination, and possible methods of disposal of wastes and waste residues generated during unit closure. All ancillary components must be decontaminated, and the generated waste disposed of appropriately.

Information about CCR units closed or to be closed under alternative closure requirements must be provided in Table VII.A.2. - CCR Units Under Alternative Closure Notification.

Guidance on design of a closure cap and final cover for non-hazardous industrial solid wastes landfills is provided in EPA publication 530-SW-85-014, TCEQ Technical Guidance No. 3 and TCEQ publication, RG-534, "Guidance for Liner Construction and Testing for a Municipal Solid Waste Landfill".

32. Post-Closure Care Plan

Provide a post-closure care plan that complies with the requirements of 30 TAC §352.1241.

See "Post-Closure Plan" and "Post-Closure Plan Addendum No.1" in APPENDIX F.

Post-closure care of each CCR unit must continue for at least 30 years after the date of completing closure of the unit and must consist of monitoring and reporting of the groundwater monitoring systems, in addition to the maintenance and monitoring of CCR unit. Continuation of certain security requirements may be necessary after the date of closure. Post-closure use of property on or in which waste remains after closure must never be allowed to disrupt the integrity of the containment system. In addition, submit the following information:

- The name, address, and phone number of the person or office to contact about the CCR unit during the post-closure period; and

Luminant-Environmental Services
Renee Collins-Senior Environmental Director
6555 Sierra Drive
Irving, TX 75039
214-875-8338
CCRPostClosurePlan@Luminant.com

- A discussion of the future use of the land associated with each unit.

Following closure of the Primary Ash Pond, a notation on the deed to the property, or some other instrument that is normally examined during title search, will be recorded in accordance with 40 CFR 257.102(i). The notation will notify potential purchasers of the property that the land has been used as a CCR unit and its use is restricted under the post-closure care requirements per 40 CFR 257.104(d)(1)(iii).

Landfills and surface impoundments which have been certified closed after October 19, 2015, must be included in post-closure care plans, unless they have been determined to have been closed by waste removal equivalent to the closure standards in 30 TAC §352.1221 and 40 CFR §257.102 or 30 TAC §352.1231 and 40 CFR §257.103. If such a demonstration has been made pursuant to 40 CFR §257.102 or §257.103, but an equivalency determination has not been made, please submit a copy of the demonstration documentation. If an equivalency determination has been made, applicant should submit a copy of this determination.

VIII. Financial Assurance

33. Post-Closure Care Cost Estimate

Financial assurance for post-closure care (30 TAC §352.1101) applies to owners or operators of all CCR units, except CCR units from which the owner or operator intends to remove wastes and perform clean closure. Provide a written cost estimate in current dollars of the total cost of the 30-year (or longer, if applicable under 30 TAC §352.1101(d)) post-closure care period to perform post-closure care requirements as prescribed in 30 TAC §352.1241. The cost estimate must be based on the costs of hiring a third party to conduct post-closure care maintenance.

Complete Table VIII.A.1 - Post-Closure Cost Summary for Existing Registered Units

See Post-Closure Care Cost Estimate in APPENDIX G. Cost estimates for the Primary Ash Pond are summarized in Table 1.

Complete Table VIII.A.2. - Post-Closure Cost Summary for Proposed Registered Units

34. Financial Assurance Mechanism

The financial assurance for post-closure care is required in accordance with 30 TAC §352.1101. The applicant shall demonstrate the financial assurance within 90 days after approval of the registration with a financial mechanism acceptable to TCEQ in compliance with 30 TAC §352.1101(c) and 30 TAC §37, Subchapters A through D, except as indicated in 30 TAC §352.1111, in an amount no less than the amount specified in the approved Post-Closure Care Cost Summary. Provide a description of the proposed financial assurance mechanism.

Luminant Generation Company LLC will provide an acceptable financial assurance mechanism per 30 TAC 352.1101 no more than 90 days after the executive director's approval of the registration.

Complete Table VIII.B. - Post-Closure Period, for the authorized post-closure period, to meet the requirements of 30 TAC §352.1241(a) through (c).

Signature Page

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Applicant Signature: _____ Date: _____

Name and Official Title (type or print): _____

Owner or Operator Signature: _____ Date: _____

Name and Official Title (type or print): _____

To be completed by the owner or operator if the application is signed by an authorized representative for the operator

I, _____ hereby designate _____
(operator) (authorized representative)

as my representative and hereby authorize said representative to sign any application, submit additional information as may be requested by the Commission; and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a CCR waste management registration. I further understand that I am responsible for the contents of this application, for oral statements given by my authorized representative in support of the application, and for compliance with the terms and conditions of any registration which might be issued based upon this application.

Printed or Typed Name of Applicant or Principal Executive Officer

Signature

(Note: Application Must Bear Signature & Seal of Notary Public)

Subscribed and sworn to before me by the said _____ on this

_____ day of _____, _____.

My commission expires on the _____ day of _____, _____

(Seal) Notary Public in and for _____ County, Texas

Registration Application for Coal Combustion Residuals Waste Management

(See instructions for P.E/P.G. seal requirements.)

Attachments and Tables

Attachment No.

General Information

Appendix A

Property/Legal Description
Property Owner Affidavit
Legal Authority
Delegation of Signature Authority
TCEQ Core Data Form
Attachments
Compliance Assessment for Coletto Creek Power Station Primary Ash Pond – 40 CFR 257.52(b)

Location Restrictions & Geology

Appendix B

Location Restrictions Demonstration
Location Restrictions Assessment

Fugitive Dust Control Plan

Appendix C

CCR Fugitive Dust Control Plan
2021 Annual CCR Fugitive Dust Control Report

Surface Impoundment Design and Operating Criteria

Appendix D

Alternative Closure Plan Demonstration – §257.103(f)(2)
Hazard Potential Classification Assessment
Inflow Design Flood Control Plan
History of Construction Report
Structural Stability Assessment
Safety Factor Assessment

Groundwater Monitoring and Corrective Action

Appendix E

Groundwater Hydrogeologic Monitoring Plan
Supplemental Geologic and Hydrogeologic Information
Supplemental Geologic and Hydrogeologic Information Report No.2
Groundwater Monitoring Plan-Revision 1
Background Groundwater Monitoring and Statistical Analysis Summary Report
Statistical Analysis Plan-Revision 1
Statistical Method Certification
2020 Groundwater Monitoring and Corrective Action Report
2021 Groundwater Monitoring and Corrective Action Report-Revision 1

Closure and Post-Closure Care

Appendix F

Closure Plan
Closure Plan Addendum No.1
Closure Plan Addendum No.2
Alternative Closure Demonstration Completeness Determination Letter
Post-Closure Plan
Post-Closure Addendum No.1

Financial Assurance

Appendix G

Post-Closure Care Cost Estimate

Tables

Tables	Submitted	Not Applicable
Table I.6. - CCR Waste Management Units	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table I.6.A. - Waste Management Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table I.6.B. - Wastes Managed in Registered Units	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table I.6.C. - Sampling and Analytical Methods	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table IV.A. - Landfill Characteristics	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Table IV.B. - Landfill Liner System	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Table IV.C. - Landfill Leachate Collection System	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Table IV.D. - Inspection Schedule of Landfills	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Table V.A. - Surface Impoundments Characteristics	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table V.B. - Surface Impoundment Liner System	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table V.J. - Inspection of Surface Impoundments	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table VI.A. - Unit Groundwater Detection Monitoring System	<input type="checkbox"/>	<input type="checkbox"/>
Table VI.C. - CCR Units Under Detection Monitoring	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Table VI.C-1. - Groundwater Detection Monitoring Parameters	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table VI.D. - CCR Units Under Assessment Monitoring	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table VI.D-2. - Groundwater Assessment Monitoring Parameters	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table VII.A.1. - Unit Closure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table VII.A.2. - CCR Units Under Alternative Closure Notification	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table VIII.A.1. - Post-Closure Cost Summary for Existing Registered Units	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Table VIII.A.2. - Post-Closure Cost Summary for Proposed Registered Units	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Table VIII.B. - Post-Closure Period	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Engineering Certification(s) - Dike Construction	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Additional Attachments as Applicable - Select all those apply and add as necessary

- TCEQ Core Data Form(s) **Appendix A**
- Signatory Authority Delegation **Appendix A**
- Fee Payment Receipt
- Confidential Documents
- Certificate of Fact (Certificate of Incorporation) **Appendix A**
- Assumed Name Certificate

Registration No.: CCR116
 Registrant: Coletto Creek Power Station

Table IV.A. - Landfills Characteristics

Registered Unit No.	Landfill	N.O.R. No.	Waste Nos. ¹	Rated Capacity	Dimensions ²	Distance from lowest liner to groundwater	Action Leakage Rate (if required)	Unit will manage CCR Waste and non-CCR Waste (state all that apply)
N/A								

1 From Table I.6.A., first column

2 Dimensions should be provided as average length, width and depth, also include the surface acreage for the unit.

Registration No.: CCR116
 Registrant: Coletto Creek Power Station

Table IV.B. – Landfill Liner System

Registered Unit No.*	Landfill	Geomembrane Liner Material	Geomembrane Liner Permeability (cm/sec)	Geomembrane Liner Thickness	Soil Liner Material	Soil Liner Permeability (cm/sec)	Soil Liner Thickness
N/A							

* This number should match the Registration Unit No. given on Table IV.A.

Registration No.: CCR116
Registrant: Coletto Creek Power Station

Table IV.C. - Landfill Leachate Collection System

Registered Unit No.	Landfill Name	Drainage Media	Collection Pipes (including risers)	Filter Fabric	Geofabric	Sump Material
N/A						

Table IV.D. - Inspection Schedule of Landfills

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection
N/A		

Registration No.: CCR116
 Registrant: Coletto Creek Power Station

Table V.A. – Surface Impoundment Characteristics

Registered Unit No.	Surface Impoundment Name	N.O.R. No.	Waste Nos. ¹	Rated Capacity	Dimensions ²	Distance from lowest liner to groundwater	Action Leakage Rate (if required)	Unit will manage CCR Waste and non-CCR Waste (state all that apply)
001	Primary Ash Pond	001	1, 2	2,700 acre-feet	2,450 feet W x 3,375 feet L x 20 feet D 190 acres	>5 Feet	n/a	Fly Ash, Bottom Ash

1 From Table I.6.A., first column

2 Dimensions should be provided as average length, width and depth, also include the surface acreage for the unit.

Table V.B. – Surface Impoundment Liner System

Registered Unit No.*	Surface Impoundment Name	Geomembrane Liner Material	Geomembrane Liner Permeability (cm/sec)	Geomembrane Liner Thickness	Soil Liner Material	Soil Liner Permeability (cm/sec)	Soil Liner Thickness
001	Primary Ash Pond	None	None	None	In-situ clay	<1.0 x 10 ⁻⁷ cm/sec	Avg 9 feet, ranges from 4 to 20 feet ¹

* This number should match the Registration Unit No. given on Table V.A.

1-See description in Section 2.0 of the “Supplemental Geologic and Hydrogeologic Information Report No. 2” located in Appendix E



Table V.J. - Inspection Schedule of Surface Impoundments

Facility Unit(s) and Basic Elements	Possible Error, Malfunction, or Deterioration	Frequency of Inspection
001-Primary Ash Pond		Weekly inspections are performed at intervals not exceeding seven days per 40 CFR 257.83(a)
Above-grade piping	Deteriorating of piping/connections	Weekly inspections are performed at intervals not exceeding seven days per 40 CFR 257.83(a)
Truck Access Ramp	Spills, Deterioration	Weekly inspections are performed at intervals not exceeding seven days per 40 CFR 257.83(a), spills inspected and reported within 24-hrs
Containment Dike	Spills, excessive water levels, surface cracking, animal burrows, misalignments, slides, vegetative cover, rutting, erosion, seepage, slope protection/chutes	Weekly inspections are performed at intervals not exceeding seven days per 40 CFR 257.83(a), spills inspected and reported within 24-hrs
Instrumentation	Monitor water level	Unit instrumentation (water level gauge) is inspected and monitored at intervals not exceeding 30 days per 40 CFR 257.83(a)(1)(iii).
Groundwater	Deterioration of pads, bollards, missing locks, compromise of casing integrity	Semi-Annual Inspection
001-Primary Ash Pond		Annually per 40 CFR 257.83(b)
	Inspect for any changes in geometry of the structure since the previous annual inspection.	Annual Inspection
	Evaluate the approximate minimum, maximum, and present depth and elevation of the impounded water and CCR since previous annual inspection.	Annual Inspection
	Evaluate the storage capacity at the time of the inspection.	Annual Inspection
	Estimate the approximate volume of the impounded water and CCR contained in the unit at the time of the inspection.	Annual Inspection
	Inspect for any other change(s) which have affected the stability or operation of the CCR unit since the previous inspection	Annual Inspection

Registration No. CCR116
 Registrant: Coleto Creek Power, LLC

Table VI.A. - Unit Groundwater Detection Monitoring Systems

Waste Management Unit/Area Name ¹	WMU 001 - Primary Ash Pond								
Well Number(s):	MW-4	MW-5	MW-6	MW-8	MW-9	MW-10	MW-11	BV-5	BV-21
Hydrogeologic Unit Monitored	Houston Group	Houston Group	Houston Group	Houston Group	Houston Group	Houston Group	Houston Group	Houston Group	Houston Group
Type (e.g., point of compliance, background, observation, etc.)	POC	POC	POC	POC	POC	POC	POC	POC	POC
Up or Down Gradient	Down	Down	Down	Up	Down	Down	Down	B?	Up
Casing Diameter and Material	4" PVC	4" PVC	4" PVC	4" PVC	2" PVC				
Screen Diameter and Material	4" PVC	4" PVC	4" PVC	4" PVC	2" PVC				
Screen Slot Size (in.)	0.016"	0.016"	0.016"	0.016"	0.010"	0.010"	0.010"	0.010"	0.010"
Top of Casing Elevation (Ft, Mean Sea Level [MSL])	137.71	122.31	119.22	134.72	132.3	130.4	118.66	135.8	131.17
Grade or Surface Elevation (Ft, MSL)	134.3	119.57	116.35	131.78	129.3	127.6	115.8	133	128.4
Well Depth (Ft, Below Grade Surface [BGS])	70.1	59.27	61.15	56.88	60	60	49	40	40
Well Depth (Ft, Below Top of Casing [BTOC])	73.51	62.01	64.02	59.82	63	62.8	51.86	42.8	42.77
Screen Interval									
From (Ft, BGS)	50.5	39.47	41.25	36.98	40	40	29	30	30
To (Ft, BGS)	70.1	59.27	61.15	56.88	60	60	49	40	40
Screen Interval									
From (Ft, BTOC)	53.91	42.21	44.12	39.92	43	42.8	31.86	32.8	32.77
To (Ft, BTOC)	73.51	62.01	64.02	59.82	63	62.8	51.86	42.8	42.77

1 From Tables in Section I.; MSL : Mean Sea Level; BGS : Below Grade Surface; BTOC : Below Top of Casing

NOTE-Data from Table 3 from Groundwater Hydrogeologic Monitoring Plan 10/17/2017

Registration No.: CCR116
 Registrant: Coletto Creek Power Station

Table VI.C. – CCR Units Under Detection Monitoring

N.O.R. Unit No.	Unit Description ^{1,2}	Well(s)	Constituent(s)	Date of SSI Determination	Date of Assessment Monitoring Notification ³
N/A					

1 Indicates a unit for which a 30 TAC Chapter 352/40 CFR Part 257, Subpart D alternative closure determination has been requested pursuant to 40 CFR §257.103.
 2 Indicates a unit for which a 30 TAC Chapter 352/40 CFR Part 257, Subpart D alternative closure determination has been made pursuant to 40 CFR §257.103.
 3 Enter month, day, and year.

Table VI.D-2. - Groundwater Assessment Monitoring Parameters

Parameter	Sampling Frequency	Analytical Method	Practical Quantification Limit (units)	Concentration Limit ¹
Antimony	Semi-Annual	SW6020B	0.000800 mg/L	0.0060 mg/L
Arsenic	Semi-Annual	SW6020B	0.00200 mg/L	0.13 mg/L
Barium	Semi-Annual	SW6020B	0.00300 mg/L	2.0 mg/L
Beryllium	Semi-Annual	SW6020B	0.000300 mg/L	0.0040 mg/L
Cadmium	Semi-Annual	SW6020B	0.000300 mg/L	0.0050 mg/L
Chromium	Semi-Annual	SW6020B	0.00200 mg/L	0.10 mg/L
Cobalt	Semi-Annual	SW6020B	0.00300 mg/L	0.050 mg/L
Fluoride	Semi-Annual	SW6020B	0.100 mg/L	4.0 mg/L
Lead	Semi-Annual	SW6020B	0.000300 mg/L	0.015 mg/L
Lithium	Semi-Annual	SW6020B	0.00500 mg/L	0.040 mg/L
Mercury	Semi-Annual	SW7470A	0.0000800 mg/L	0.0020 mg/L
Molybdenum	Semi-Annual	SW6020B	0.00200 mg/L	0.10 mg/L
Selenium	Semi-Annual	SW6020B	0.00200 mg/L	0.050 mg/L
Thallium	Semi-Annual	SW6020B	0.000500 mg/L	0.0020 mg/L
Radium 226+228	Semi-Annual	904 + SM7500Ra B M	varies	5.0 pCi/L

¹ The concentration limit is the basis for determining whether a release has occurred from the CCR unit/area.

Table VIII.B. – Post-Closure Period

Unit Name	Date Certified Closed	Authorized Post-Closure Period (Yrs.)	Earliest Date Post-Closure Ends (See Note 1)
[Unit Example 1]	[1/1/1995]	30 years	[1/1/2025]
[Unit Example 2]	[1/1/1990]	30 years	[1/1/2020]
[Unit Example 3]	[1/1/1984]	30 years	[1/1/2014]

Note 1 - Post-Closure Care shall continue beyond the specified date until the Executive Director has approved the applicant's request to reduce or terminate the post-closure period, consistent with 30 TAC §352.1241 - Post-Closure Care Requirements.

N/A