

CONSTRUCTION QUALITY ASSURANCE PLAN

ASH POND 2
PLANT YATES
COWETA COUNTY, GEORGIA

FOR



Georgia
Power

November 2018



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1. GENERAL

The fossil fuel units at Plant Yates, located in Newnan, Coweta County, Georgia have been dismantled and all existing CCR disposal ponds will be closed. Ash Pond 2 (AP-2) will be dewatered as required to facilitate CCR removal. All CCR will be excavated and transported to the designated permanent Ash Management Area (AMA) on Plant Yates property or sold to an ash marketer for beneficial re-use. CCR removal activities at AP-2 will include removing all visible ash and over excavating into the subgrade soils at least 6 inches.

This Construction Quality Assurance (CQA) Plan describes the quality assurance activities that will be undertaken during the closure of AP-2. The purpose of this document is to outline the CQA monitoring activities that will document that the AP-2 closure was implemented in general accordance with the Closure Plan.

Georgia Power will engage the services of a Construction Quality Assurance (CQA) firm to monitor and document the removal of CCR from AP-2.

Parties involved in the CQA program:

1. PURCHASER, OWNER, OPERATOR: Georgia Power Company (Georgia Power).
2. CONTRACTOR: The entity awarded the contract to furnish the materials and perform the work as described herein and as specified in the Closure Plan.
3. DESIGN ENGINEER: The company or companies hired by the owner/operator to furnish the design, drawings, plans, and specifications for the facility. The DESIGN ENGINEER will be a registered professional engineer licensed in Georgia.
4. CQC ENGINEER/TECHNICIAN: Refers to the third-party firm responsible for construction quality control monitoring, testing and documentation of all field work performed during the construction at the facility. The CQC Engineer will be registered professional engineer and licensed in the state of Georgia. The CQC technician, working under the direct supervision of the CQC Engineer, will provide inspection and testing of all materials to verify conformance with the technical specifications.
5. CQA ENGINEER, CQA FIRM, and CQA INSPECTOR: Responsible for implementing the construction quality assurance requirements as stated in the project plans, technical specifications, this CQA Plan, and the project objectives; verifying basic data as reasonable and complete; outlining procedures to process data; developing statistical procedures for the analysis of test data; and preparing quality assurance memoranda and quality assurance reports. The CQA Engineer will report to Georgia Power. The CQA Engineer will be a registered professional engineer licensed in Georgia. Reference to the CQA Engineer, for the purpose of this document, will include the CQA Engineer and his/her designated representatives.

6. AS BUILT SURVEYOR: As-built certification surveys will be performed by a registered professional land surveyor licensed in Georgia on the components identified in the CQA Plan.

2. CCR EXCAVATION

In the context of this CQA Plan, “CCR removal” refers to the process of verifying and documenting that CCR has been removed. The site is known to contain a mixture of fly ash and bottom ash collectively referred to as CCR. The CCR will be excavated until native soils are encountered indicating that the CCR has been removed. In addition, a 6-inch layer of soil will be removed below the verified CCR/soil interface. The CCR excavation and removal criteria are described below.

Visual Verification of CCR Removal Procedure:

The CQA firm will monitor and document CCR removal according to the following procedure:

1. The CQA Engineer will prepare an ash pond map using a 100-ft grid spacing. Grid points will be assigned a unique alphanumeric label for reference and documentation of CCR removal.
2. CCR will be excavated until there is no visible CCR present. This surface will be referred to as the CCR/soil interface.
3. CQA personnel will observe the CCR/soil interface at the working face to confirm that visible CCR has been removed. Observations will be made with reference to the ash pond grid map. Observations will include, but not be limited to, taking photographs, and describing soil color. CQA personnel will document observations in field logs or reports.
4. The CCR/soil interface surface will be surveyed.
5. The excavation will continue to a minimum of 6 inches below the CCR/soil interface. This surface will be referred to as the bottom of excavation. Excavated soil will be disposed of in the AMA.
6. The bottom of excavation surface will be surveyed and confirmed to be a minimum of 6 inches below the CCR/soil interface.

3. EARTHEN FILL

Earthen fill is soil material which may be placed after CCR is removed to achieve final grades. Sources for earthen fill may include on-site or off-site soils. The fill will be placed and graded to promote positive drainage and support permanent vegetation to minimize erosion. The surficial soil layer will be capable of supporting vegetation and may be evaluated through soil testing and amended as necessary to support a permanent vegetative cover.

4. CERTIFICATION

Upon completion of CCR removal, the CQA Engineer will provide, within 30 days of completion of closure, written certification that the AP-2 closure activities were performed according to this CQA Plan. Said certification will have the CQA Engineer’s seal as a professional engineer registered in Georgia.