

**2016 Annual
Landfill Inspection Report**

for the

**SCE&G
Cope Station
Class III Landfill**

in

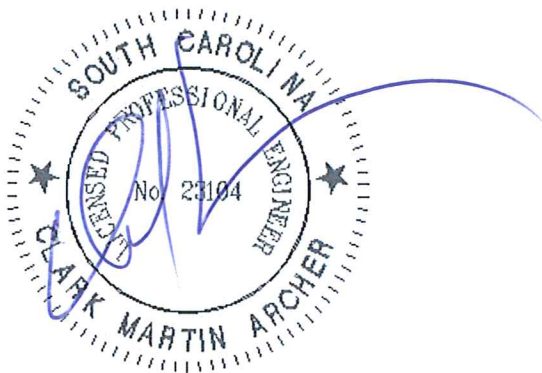
**Cope, SC
County of Orangeburg**

January 15, 2017



Certification

The inspection and report was completed by SCANA Services Generation Environmental Support under the oversight of Clark M. Archer; a licensed Professional Engineer in the State of South Carolina. This document has been prepared in accordance with Chapter 49 of the South Carolina Code of Regulations, and to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements of 40 CFR 257 and Chapter 61 of the South Carolina Code of Regulation, Solid Waste Policy and Management Act of 1991, as amended.



Clark M. Archer, P.E.
Engineer, SCANA Services

Annual Inspection Report

The Annual Inspection Report is performed to comply with *40 CFR 257 Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments* and specifically with § 257.84(b) *Annual inspections by a qualified professional engineer.*

§ 257.84 Inspection Requirements for CCR Landfills

(b) *Annual inspections by a qualified professional engineer.*

(1) Existing and new CCR landfills and any lateral expansion of a CCR landfill must be inspected on a periodic basis by a qualified professional engineer to ensure that the design, construction, operation, and maintenance of the CCR unit is consistent with recognized and generally accepted good engineering standards. The inspection must, at a minimum, include:

(i) A review of available information regarding the status and condition of the CCR unit, including, but not limited to, files available in the operating record (e.g., the results of inspections by a qualified person and results of previous annual inspections); and

(ii) A visual inspection of the CCR unit to identify signs of distress or malfunction of the CCR unit.

(2) *Inspection report.* The qualified professional engineer must prepare a report following each inspection that addresses the following:

(i) Any changes in geometry of the structure since the previous annual inspection;

(ii) The approximate volume of CCR contained in the unit at the time of the inspection;

(iii) Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit; and

(iv) Any other change(s) which may have affected the stability or operation of the CCR unit since the previous annual inspection.

Background

The landfill is located at the Cope Generating Station in Orangeburg County. The Cope Generating Station is approximately 13 miles southwest the City of Orangeburg, SC. Figure 1 – Site Location Figure, shows the location of the landfill relative to the power plant. The date of the aerial imagery is February 2016. The Class III landfill is permitted by the South Carolina Department of Health and Environmental Control (SCDHEC) under Permit No. 383320-1601.

Site Inspection

The landfill site inspection was performed on December 15, 2016 by Clark Archer, PE. The inspection included a walk-through with landfill operation personnel and SCANA Services Generation Environmental Support (GES) staff to discuss the operation of the facility and the

leachate removal system, observation of the existing site conditions including the access road and entrance, the intermediate waste slopes, and the storm and contact water control measures.

Prior to the inspection, the weekly inspection reports for 2016 up to December 3rd were reviewed by Mr. Archer and GES staff. Based on review of the weekly inspection reports and discussions with the operation personnel, the landfill operations are running smoothly. At the time of inspection, CCR material was actively being placed in the landfill.

Addressed Regulatory Items

Changes in Geometry

(i) Any changes in geometry of the structure since the previous annual inspection.

There have been no changes in the geometry of the landfill since the previous annual inspection.

Approximate Volume of CCR Material

(ii) The approximate volume of CCR contained in the unit at the time of the inspection

SCANA completed a topographic survey for the landfill in February 2016 and an airspace analysis in June 2016. At the time of the inspection, the Cope Station Class III landfill contains approximately 271,100 cubic yards of CCR.

Structural Integrity

(iii) Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit.

No appearances of structural weakness of the CCR Unit was observed. Furthermore, there was no indication of any conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR Unit

Other Changes

(iv) Any other change(s) which may have affected the stability or operation of the CCR unit since the previous annual inspection.

There have been no changes identified which may have affected the stability or operation of the CCR Unit since the previous annual inspection

Summary/Conclusion

The CCR Unit Class III Landfill at Cope Station appears to be functioning properly with no identified concerns that are affecting or disrupting the typical operations.



Aerial Imagery by SCANA Corp., February 2016

**Figure 1 – Site Location
Cope Station Landfill**