SOUTH CAROLINA ELECTRIC & GAS

DESIGN CRITERIA EXEMPTIONS

FOR THE

WATEREE STATION FGD POND

RICHLAND COUNTY, SOUTH CAROLINA

SEPTEMBER 2016

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MEMO

To: Joe Todd, Gene Delk, Lee Newman; F/H

Cc: Gary Williams, April Kelly; Wateree Station
Darrell Shier, Jean-Claude Younan, Mike Moore, Rocky Archer; CESD

From: Tim Miller

Date: August 24, 2016

Subject: Wateree Station – CCR Periodic Structural Stability Assessment Exemption for Wateree Station Flue Gas Desulfurization (FGD) Ponds

Background:
The Flue Gas Desulfurization (FGD) Ponds at Wateree Station were designed by Garrett and Moore, Inc., 1258 Benson Rd., Garner, NC 27529 and constructed in 2009.

Location:
Wateree Station
142 Wateree Station Rd.
Eastover, SC 29044

Flue Gas Desulfurization (FGD) Pond Dimensions:
FGD Pond #1: Area = 1.42 acres; dike height = 12'; Volume = 17.0 acre-ft.
FGD Pond #2: Area = 1.34 acres; dike height = 12'; Volume = 16.1 acre-ft.

Findings:
The CCR Surface Impoundments at Wateree Station do not meet the criteria of 40 CFR 257.73 (b). According to subsection 257.73 (b), *The requirements of paragraphs (c) through (e) of this section (257.73) apply to an owner or operator of an existing CCR surface impoundment that either: (1) has a height of five (5) feet or more and a storage volume of 20 acre-feet or more; or (2) has a height of 20 feet or more.*

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According to Section 257.73 (b)(1), the Wateree Flue Gas Desulfurization (FGD) Ponds are exempt from the periodic structural stability assessment requirement of subsection 257.73 (d).

References:

1. SCE&G Wateree Station FGD Scrubber Blowdown Wastewater Pond Drawings, Sheet 3 Subgrade Plan, Garrett and Moore, Inc., August 2009

2. 40 CFR Part 257, Criteria for Classification of Solid Waste Disposal Facilities and Practices, Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, Federal Register, Vol. 80 No. 74, April 17, 2015

24 Aug 2016

Tim Miller, Jr., P.E. Date
SCE&G Chief Dam Safety Engineer