SOUTH CAROLINA ELECTRIC & GAS

DESIGN CRITERIA EXEMPTIONS

FOR THE

WILLIAMS STATION FGD POND

BERKELEY COUNTY, SOUTH CAROLINA

SEPTEMBER 2016

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MEMO

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

Cc: Kevin Wicker, Mark Valerio; Williams Station
Darrell Shier, Jean-Claude Younan, Mike Moore, Rocky Archer; CESD

From: Tim Miller

Date: August 24, 2016

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

Background:
The Flue Gas Desulfurization (FGD) Ponds at Williams Station were designed by Garrett and Moore, Inc., 1258 Benson Rd., Garner, NC 27529 and constructed in 2008.

Location:
Williams Station
2242 Bushy Park Rd.
Goose Creek, SC 29445

Flue Gas Desulfurization (FGD) Pond Dimensions:
FGD Pond #1: Area = 0.94 acres; dike height = 5.5'; Volume = 5.2 acre-ft.
FGD Pond #2: Area = 0.97 acres; dike height = 5.5'; Volume = 5.3 acre-ft.

Findings:
The CCR Surface Impoundments at Williams 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.*
According to Section 257.73 (b)(1), the Williams Station Flue Gas Desulfurization (FGD)

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Ponds are exempt from the periodic structural stability assessment requirement of subsection 257.73 (d).

References:

1. SCE&G Williams Station FGD Scrubber Blowdown Wastewater Pond Drawings, Sheet 2 Grading Plans and Sections, Garrett and Moore, Inc., December 2008
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