Nebraska Public Power District

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August 15, 2011

Paul Hoornaert, P.E.
Senior Project Manager
Sargent & Lundy, LLC
55 East Monroe Street
Suite 21 F19
Chicago, IL 60603-5780

Subject: NPPD Transmittal 285 – District Comments on Sargent & Lundy Submittal NPPD-SL-0296 – FGD Materials of Construction

Reference:
1. Sargent & Lundy Transmittal NPPD-SL-0296
2. Sargent & Lundy Action Items 11-0447, 11-0448, 11-0449, 11-0460

Paul:

Attachment A to NPPD Transmittal 285 contains GGS MPCE team member comments on S&L's submittal NPPD-SL-0296.

Please have appropriate Sargent & Lundy personnel address the comments and resubmit this white paper by August 31, 2011. To ensure that all items noted in this letter have been properly addressed to the satisfaction of the GGS MPCE team, please provide a specific response and comments to each question on how Sargent & Lundy has addressed each issue. Attachment A is being provided in Word format for this purpose.

Please contact me at 308-386-5312 or via e-mail at bbnitsc@nppd.com with any questions or comments concerning the requested actions.

Bob Nitsch lmh

Bob Nitsch
Engineer

lmh

Attachment

c: John Meacham
John Befort

T:\MPCE\PROJECT FILES\01.13 S&L ENGINEERING SERVICES AGREEMENT 4700000926\01.13.10 SUBMITTAL FORMS TO S&L\#285 LETTER 110815 - COMMENTS ON NPPD-SL-0296 - FGD MATERIALS OF CONSTRUCTION.DOCX

Gerald Gentleman Station
P.O. Box 68 / Sutherland, NE 69165-0068
Telephone: 308-386-2441 / **Fax:** 308-386-5275
www.nppd.com

SARGENT & LUNDY SUBMITTAL
NPPD-SL-0296

ATTACHMENT A

Based on review of Sargent & Lundy submittal NPPD-SL-0296 – FGD Materials of Construction, GGS MPCE team members have the following comments and request that S&L address them in a follow-up revision to this document by August 31, 2011:

1. On page two of the white paper under the Stebbins Cracking section where the occurrence of "damp areas" has occurred, is this simply condensation forming on the outside of the vessel or due to scrubber slurry migrating partway through the wall of the vessel due to cracking?

2. Concerning the Stebbins vessels that have experienced cracking, is there any concern with rebar corrosion?

3. During recent discussions with Advatech representatives, they have downplayed the concern of wall cracking / leakage by noting they were using galvanized rebar on several of their new FGD installations (i.e. Plant Scherer), and noting that even with some minimal amount of leakage, the potential impact to the walls is minimal due to the alkalinity of the concrete used to form the walls. Does S&L agree with this assessment?

4. Please confirm what type of FGD vessel was used at Ameren Sioux Power Station.

5. On the last page of the white paper concerning the discussion of using a belt filter for secondary dewatering, it is assumed that if the belt filter was run at a lower vacuum, that more water would be left in the gypsum product. How low can a belt filter realistically operate in regard to water removal in the gypsum product while still creating an acceptable product to handle with typical material handling equipment?