INTRODUCTION
Golder Associates Inc. (Golder) conducted the initial coal combustion residual (CCR) landfill annual inspection for the Byproduct Storage Area B (BSA-B) at the St. Johns River Power Park (SJRPP) in Jacksonville, Florida. The inspection, conducted on December 13, 2017 and January 4, 2018, and this report are intended to meet the requirements of the 40 CFR §257.84. Golder’s inspection was performed by Samuel Stafford.

The Phase I development of BSA-B is located approximately 1.5 miles northeast of the main entrance to SJRPP in northeastern Duval County, Jacksonville, Florida (see Figure 1).

REVIEW OF AVAILABLE INFORMATION
In accordance with §257.84(b)(1), Golder’s inspection team reviewed available information regarding the status and condition of BSA-B including operating record documents. The documents reviewed included:

- Area B Byproduct Storage Area Phase I Operations Plan, September 2014, Golder Project No. 113-82588.
- Operating records: SJRPP weekly inspection results and compaction test results.

INSPECTION SUMMARY
Golder conducted a visual inspection of BSA-B on December 13, 2017, which considered cover conditions, exterior slope conditions, erosional conditions, vegetative conditions, stormwater management conditions, placement of CCRs, slope stability, and any other signs of distress or malfunction. A follow-up inspection was conducted on January 4, 2018 to assess the status of the repair work performed by SJRPP operators.

CHANGES IN GEOMETRY
Changes in geometry of BSA-B were evaluated by comparing the December 2016 topographic survey with the December 2017 topographic survey. The primary changes in geometry of BSA-B are due to CCR placement in the central portion of BSA-B.

APPROXIMATE CCR VOLUME
The volume of CCR materials in the BSA-B at the time of the inspection is estimated to be approximately 1,540,000 cubic yards. A topographic survey of the BSA-B was completed in December 2017. This survey was compared to the as-built base grade survey.

STRUCTURAL WEAKNESS AND DISRUPTING CONDITIONS
The erosion features noted during the December 13, 2017 inspection could be an area of potential structural weakness. The erosion caused by the heavy rains associated with Hurricane Irma in September 2017 was...
in the process of being repaired at the time of the December 13th inspection, and were ongoing at the time of our follow-up inspection on January 4, 2018. Due to the decommissioning of SJRPP, JEA is in the process of securing a new contractor to complete the repair work.

Existing conditions which may have the potential to disrupt the operations of the BSA-B include: the erosion of intermediate cover and exposed CCRs on portions of exterior slopes, sediment accumulation in stormwater management features, and contact water pump station repairs.

**CHANGES AFFECTING STABILITY OR OPERATIONS**

Based on the December 13, 2017 inspection and review of the available information, the erosion features caused by the rains associated with Hurricane Irma are the only changes from the previous inspection conducted on December 16, 2016 that may affect the operations or stability of the BSA.

**CLOSING**

Based on the review of the available information noted above and on the December 13, 2017 and January 4, 2018 field observations, Golder concludes that the design, construction, operation, and maintenance of the BSA-B appears to be consistent with recognized and generally accepted good engineering with the exception of the erosional features that have not yet been repaired. A report documenting the completion of the corrective measures is warranted pursuant to §257.84(b)(5).

**GOLDER ASSOCIATES INC.**

Samuel F. Stafford, PE  
Project Engineer

Gregory M. Powell, PhD, PE  
Practice Leader and Principal

SFS/GMP/ams

Attachments:

- Figure 1 - Site Location Map
- Figure 2 - Byproduct Storage Area B Grid Location Map

FN: G:\Projects\15-115-26356.2\Reports\Final\2017 Annual Inspection\SJRPP Area B Annual Inspection 2017.docx