

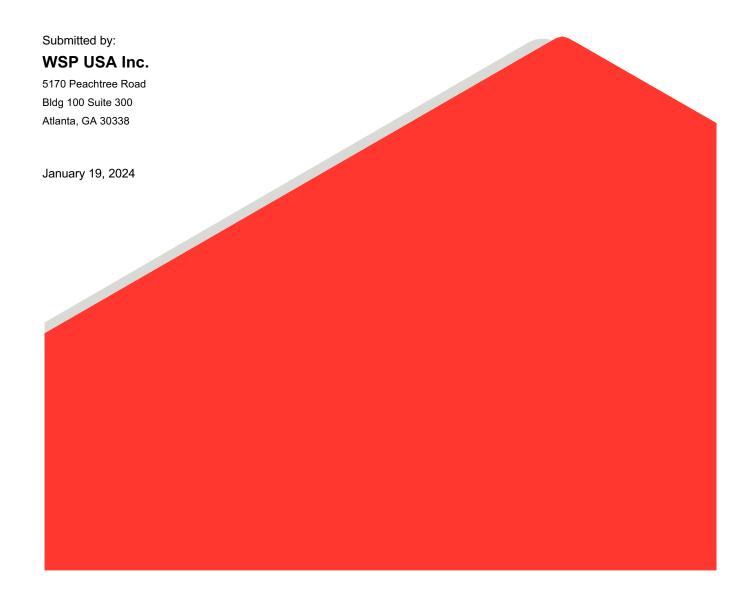
REPORT

2023 Annual Inspection Report for CCR Surface Impoundment

Plant Smith Ash Pond Southport, Florida

Submitted to:

Florida Power & Light Company



Distribution List

Florida Power & Light Company

WSP USA Inc.

INTRODUCTION

WSP USA Inc. (WSP; formerly known as Golder Associates USA Inc.) performed the annual inspection for a coal combustion residuals (CCR) surface impoundment at the Plant Smith Ash Pond, located in Southport, Florida. This facility is owned and operated by Florida Power & Light Company (FPL). The inspection, conducted on November 16, 2023, and this report are intended to meet the requirements of 40 CFR §257.83(b). WSP's inspection was performed by Kevin S. Brown, PE.

The Plant Smith Ash Pond is currently being consolidated and closed in place in accordance with 40 CFR 257.102(d) and no longer receives CCR.

REVIEW OF AVAILABLE INFORMATION - §257.83(b)1(i)

In accordance with §257.83(b)(1)(i), WSP reviewed available information regarding the status and conditions of the Plant Smith Ash Pond. The documents reviewed included:

- Closure Plan (Rev. 01) Plant Smith Ash Pond
- Structural Stability Assessment (Rev. 01) Plant Smith Ash Pond
- Safety Factor Assessment (Rev. 01) Plant Smith Ash Pond
- Hazard Potential Classification (Rev. 01) Plant Smith Ash Pond
- Inflow Design Flood Control System Plan (2021) Plant Smith Ash Pond
- History of Construction (2021) Plant Smith Ash Pond
- Report of Annual Inspection 2022 Plant Smith Ash Pond

INSPECTION SUMMARY - §257.83(b)1(ii) AND §257.83(b)1(iii)

WSP conducted a visual inspection of the Plant Smith Ash Pond on November 16, 2023. The inspection evaluated the geometry and conditions of the impoundment, exterior slopes, erosion and vegetative conditions, stormwater management controls, placement of coal combustion residuals (CCR), slope stability, and any other signs of distress or malfunction.

CHANGES IN GEOMETRY - §257.83(b)2(i)

As of November 2023, CCR from the remaining areas of the eastern part of the former ash pond (designated as a stormwater management pond for the closure system) has been removed as part of closure activities (See Figure 1); in the previous inspection reports, the south dike and portions of the and east dike were reported as removed. The former eastern dike has been excavated and regraded in accordance with the closure plan while the detention pond infrastructure was still under construction as of the date of the most recent inspection. In addition, the final closure area elevation remains at 73 ft. mean sea level (MSL, NAVD) due to closure construction. This elevation is anticipated to be the maximum elevation of the placed and compacted CCR.



Figure 1: Aerial Image of Plant Smith Impoundment dated December 6, 2023

INSTRUMENTATION – §257.83(b)2(ii)

There is currently no instrumentation equipment installed at Plant Smith impoundment. As such, there are no recorded readings of instruments since the previous annual inspection.

APPROXIMATE WATER AND CCR VOLUME— §257.83(b)2(iii)

The approximate minimum and maximum depths of impounded water as of the previous annual inspection, as well as the present depth of impounded water as of November 16, 2023, are presented in Table 1 below. Water elevation estimated from aerial survey dated December 6, 2023 and / or confirmed per field observations in November 2023.

Table 1: Impounded Water at Plant Smith Impoundment – 2023 (values are approximate)

Minimum Depth:	< 2'
Minimum Elevation (MSL – NAVD):	7 ft-MSL
Maximum Depth:	6'
Maximum Elevation:	23 ft-MSL
Present Depth:	< 3.5'
Present Elevation:	23 ft-MSL (max)

The approximate minimum and maximum depths of CCR as of the previous annual inspection, as well as the approximate present depth of impounded CCR as of November 16, 2023, are presented in Table 2 below. Elevation and depth of CCR includes the area where CCR is being actively placed and compacted per the approved closure plan.

Table 2: Impounded CCR at Plant Smith Impoundment – 2023 (values are approximate)

Minimum Depth:	0'
Minimum Elevation:	3.5'
Maximum Depth:	78' (placed and compacted CCR)
Maximum Elevation:	73' (top of placed and compacted CCR)
Present Depth:	78' (placed and compacted CCR)
Present Elevation:	73' (top of placed and compacted CCR)

STORAGE CAPACITY- §257.83(b)2(iv)

The impoundment capacity of the Plant Smith impoundment at the time of the inspection is estimated to be approximately 328,000 cubic yards. Depths, elevations, and storage capacity are estimates derived by qualified personnel from available information and do not include the area above the original CCR elevation where CCR is being placed and compacted per the approved closure plan, e.g., the storage capacity does not include placed and compacted CCR. The volume is based on the area noted on Figure 1 as "stormwater management pond" which can be used for emergency containment of water or CCR if required.

APPROXIMATE CCR AND WATER VOLUME – §257.83(b)2(v)

The volume of materials in the Plant Smith impoundment at the time of the inspection is estimated to be less than 3,500 cubic yards of impounded water (in the existing pore water pond and small temporary area in the final closure area designated on Figure 1) and approximately 150,000 cubic yards of impounded CCR in the north berm, which remains to be relocated to the final closure area. The total volume CCR within the limits of the Plant Smith Ash

Pond is approximately 3.9 million cubic yards. This includes CCR that is being placed and compacted per the approved closure plan.

STRUCTURAL WEAKNESS AND DISRUPTING CONDITIONS – §257.83(b)2(vi)

No indications of actual or potential structural weakness were noted during the November 16, 2023 inspection or during the review of available information.

CHANGES AFFECTING STABILITY OR OPERATIONS – §257.83(b)2(vii)

The site is currently undergoing closure construction that involves consolidating the CCR footprint to a smaller area. Construction completed since the last inspection has included removal of the eastern containment dikes in accordance with the closure plan and restoration of those areas with placement of clean fill, closure turf for detention pond lining and vegetation. Process water from plant operations is currently stored within a lined pond in the southwest area of the site where CCR was previously removed. This storage area is not subjected to the CCR rule. A permanent earthen dike and associated detention pond has been previously constructed on the eastern side of the site for future management of plant wastewater and stormwater. This dike and pond currently serves as emergency containment of contact water and CCR stockpiles during ongoing construction. A portion of this pond has been temporarily lined for use in impounding pore water during construction. These features are noted in the facility aerial photograph in Figure 1.

CERTIFICATION

Based on the review of the available information noted above and of the observations and results of the annual inspection, it is my professional opinion that this report has been completed in accordance with 40 CFR 257.83(b).

No. 57819

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This item has been digitally signed and sealed by Kevin Brown on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Jan. 19, 2023

Kevin S. Brown, PE Director, Civil Engineer

Florida Professional Engineer No. 57819

Date

KSB/LS/Is



