

**ANNUAL INSPECTION REPORT
EAST ASH POND AND WEST ASH POND
WAUKEGAN STATION
OCTOBER 2019**

This annual inspection report has been prepared pursuant to Title 40 of the Code of Federal Regulations (40 CFR) Part 257.83(b) for the East Ash Pond and West Ash Pond at Waukegan Station (Station) in Waukegan, Illinois. The purpose of this project is to perform the annual inspection of the East and West Ash Ponds by a licensed professional engineer to ensure that the design, construction, operation, and maintenance of the coal combustion residuals (CCR) unit is consistent with recognized and generally accepted good engineering standards. Civil & Environmental Consultants, Inc. (CEC) completed the following scope of services in preparing this annual inspection report.

- CEC reviewed the weekly inspection reports provided by station personnel, and the previous annual inspection report.
- CEC performed the annual inspection in accordance with the requirements of 40 CFR 257.83(b) including observations pertaining to the following:
 - Changes in Geometry - §257.83(b)(2)(i): Observations of changes in the geometry of both the East Ash Pond and the West Ash Pond since the previous annual inspection.
 - Instrumentation - §257.83(b)(2)(ii): Inspection of the location and type of existing instrumentation and documentation of the maximum recorded readings of each instrument since the previous annual inspection from records provided by Station personnel.
 - Capacity and Impounded Volume - §257.83(b)(2)(iii) through (v): Inspection observations for the approximate minimum, maximum, and present depth and elevation of the impounded water and CCR; storage capacity of the impounding structure at the time of the inspection; and the approximate volume of the impounded water and CCR at the time of the inspection.
 - Structural/Operational Observations - §257.83(b)(2)(vi): Estimation of the approximate volume of the impounded water and CCR at the time of the inspection.
 - Other Changes - §257.83(b)(2)(vii): Inspection including change(s) which may have affected the stability or operation of the impounding structure since the previous annual inspection.

The East Ash Pond and West Ash Pond are both CCR surface impoundments with each pond approximately 10 acres in size. On October 1, 2019, CEC inspected both the East Ash Pond and West Ash Pond and our observations showed no signs of distress that would suggest the stability or operation of the impounding structure is compromised. At the time of our inspection, the West Ash Pond was active, while the East Ash Pond was inactive and unused since the 2017 inspection.

1.0 CHANGES IN GEOMETRY - §257.83(B)(2)(I)

Both the East Ash Pond and West Ash Pond geometry was observed to be unchanged since the October 2018 inspection.

2.0 INSTRUMENTATION - §257.83(B)(2)(II)

Instrumentation associated with East Ash Pond and West Ash Pond includes a water level monitoring device in the outlet structure for both ponds. Our interview of station personnel and review of weekly inspection reports, the water level monitors are operating properly. No other instrumentation was reported or observed that would be associated with the hydraulic structures, impoundment embankments, and/or slope performance.

3.0 CAPACITY AND IMPOUNDED VOLUME - §257.83(B)(2)(III) THROUGH (V)

Capacity and impounded volumes for the East Ash Pond and West Ash Pond and estimated depth of impounded water and CCR are represented in Table 1 and 2, attached. Volumes and depths for the West Ash Pond were determined by reviewing inspection reports, construction drawings, and from modeling using existing topographic data. Since the East Ash Pond is inactive, the volumes and depths are unchanged from 2017.

4.0 STRUCTURAL/OPERATIONAL OBSERVATIONS - §257.83(B)(2)(VI)

Both the East Ash Pond and West Ash Pond were inspected for signs of distress that would have the potential to disrupt operation and safety of the ponds. None were observed. Prior to inspection, CEC reviewed the previous annual inspection reports which did not identify conditions that indicate an actual or potential structural weakness. Weekly inspection reports were also reviewed and did not indicate an actual or potential structural weakness.

5.0 OTHER CHANGES - §257.83(B)(2)(VII)

The East Ash Pond and West Ash Pond were inspected for other signs of other changes or distress that would have the potential to disrupt operation and safety of the ponds. Our inspection showed no distresses that would affect the operation and/or stability of either the East Ash Pond or West Ash Pond.

Table 1: Inspection Summary - East Ash Pond¹

Category	Regulation Reference	Evaluation	Recommended Action
Change in Geometry	§257.83(b)(2)(i)	None	None
Instrumentation	§257.83(b)(2)(ii)	Water level at outlet structure	None
Water Depth	§257.83(b)(2)(iii)	1 to 2 feet	None
CCR Depth	§257.83(b)(2)(iii)	15 feet	None
Estimated Storage Capacity	§257.83(b)(2)(iv)	113.7 Acre Feet	None
Impounded Water Volume	§257.83(b)(2)(v)	1.7 Acre Feet	None
Impounded CCR Volume	§257.83(b)(2)(v)	32.8 Acre Feet	None
Structural/Operational Observations	§257.83(b)(2)(vi)	None	None
Other Changes	§257.83(b)(2)(vii)	None	None

1. The East Ash Pond is inactive and has not received ash since the 2017 inspection.

Table 2: Inspection Summary - West Ash Pond

Category	Regulation Reference	Evaluation	Recommended Action
Change in Geometry	§257.83(b)(2)(i)	None	None
Instrumentation	§257.83(b)(2)(ii)	Water level at outlet structure	None
Water Depth	§257.83(b)(2)(iii)	0 to 4.8 feet	None
CCR Depth	§257.83(b)(2)(iii)	2.9 to 12.2 feet	None
Estimated Storage Capacity	§257.83(b)(2)(iv)	138.5 Acre Feet	None
Impounded Water Volume	§257.83(b)(2)(v)	13.0 Acre Feet	None
Impounded CCR Volume¹	§257.83(b)(2)(v)	51.5 Acre Feet	None
Structural/Operational Observations	§257.83(b)(2)(vi)	None	None
Other Changes	§257.83(b)(2)(vii)	None	None