ANNUAL HAZARD POTENTIAL CLASSIFICATION ASSESSMENT
ASH SURGE BASIN AND ASH BYPASS BASIN
POWERTON STATION
OCTOBER 2026

This annual hazard potential classification assessment report has been prepared for the Ash Surge Basin (ASB) and Ash Bypass Basin (ABB) at Powerton Station (Station) in Pekin, Illinois. The assessment has been prepared pursuant to the coal combustion residuals (CCR) rule pursuant to Title 35 of the Illinois Administrative Code (35 IAC), Section 845.440(a) and Title 40 of the Code of Federal Regulations (40 CFR) Section 257.73(a)(2), herein referred to as to the regulations, respectively.

The purpose of this project is to review the hazard potential classification assessment by a licensed professional engineer to document the hazard potential classification in accordance with above referenced regulations. Civil & Environmental Consultants, Inc. (CEC) reviewed the initial 2016 and annual 2025 hazard potential classification reports and completed this 2026 hazard potential classification assessment by considering the possible adverse incremental consequences that result from the release of water or stored contents due to failure of the diked section or mis-operation of the diked basin or its appurtenances. The hazardous potential classifications considered include Class 1 or Class 2 under the state regulation, or defined as high hazard, low hazard, or significant hazard under the federal regulation as follows:

35 IAC Section 845.120

Class 1 CCR surface impoundment means a diked surface impoundment where failure or mis-operation will probably cause loss of human life.

Class 2 CCR surface impoundment means a diked surface impoundment where failure or mis-operation results in no probable loss of human life, but can cause economic loss, environmental damage, disruption of lifeline facilities, or impact other concerns.

40 CFR Section 257.53

High hazard potential CCR surface impoundment means a diked surface impoundment where failure or mis-operation will probably cause loss of human life.

Low hazard potential CCR surface impoundment means a diked surface impoundment where failure or mis-operation results in no probable loss of human life and low economic and/or environmental losses. Losses are principally limited to the surface impoundment owner's property.

Significant hazard potential CCR surface impoundment means a diked surface impoundment where failure or mis-operation results in no probable loss of human life, but can cause economic loss, environmental damage, disruption of lifeline facilities, or impact other concerns.

The following sections provide a description of physical and operational features of the ASB and ABB followed by an evaluation of potential failure scenarios that show the ASB and ABB are a Class 2 CCR surface impoundment.

1.0 SITE DESCRIPTION

At the time of this report, the ASB is an inactive CCR surface impoundment. The ABB is active after a permitted retrofit in 2024, which reduced its storage capacity. The basins are approximately 7.5 acres and 1 acre in size, respectively. On October 6, 2026, CEC inspected both the ASB and ABB and our observations showed no signs of distress that would suggest the stability or operation of the impounding structure is compromised.

2.0 FAILURE EVALUATION

To evaluate the ASB and ABB hazard classification, impacts as a result of failure or mis-operation of the basins were evaluated. The following features were considered in determining the classification:

- The ASB and ABB have remained relatively unchanged from the previous impoundment inspection and initial hazard potential classification assessment.
- Relatively small in size, the volume of water and ash is controlled at low levels through continued operations, maintenance, and inspection.
- A flexible membrane liner prevents water from seeping through the earthen embankment thereby preventing potential failure due to loss of embankment through piping.
- In the event of catastrophic failure or mis-operation, the downstream inundation areas have no occupied buildings and the areas are infrequently entered.
- In the event of catastrophic failure or mis-operation, the downstream inundation area is within the Former Ash Basin and fully contained on uninhabited areas on the Station property.

3.0 HAZARD POTENTIAL CLASSIFICATION ASSESSMENT

The hazard potential classification from the previous reports established that the ASB and ABB have a Class 2 classification in accordance with state regulation and a significant hazard potential in accordance with the federal regulation. Based on our review of the previous hazard potential classification reports, annual inspections, and the reported modifications to the Station and operation of the impoundments, the ASB and ABB remain classified as a Class 2 CCR surface impoundment and as a significant hazard. Potential downstream inundation areas that could be impacted by a failure or mis-operation have no occupied buildings within the anticipated inundation areas, and those areas are only occasionally accessed for mowing and inspection purposes that result in no probable loss of human life. Potential economic loss, environmental damage, disruption of lifeline facilities, and impact other concerns are also considered under these classifications.

4.0 LIMITATIONS AND CERTIFICATION

This annual hazard potential classification assessment has been prepared pursuant to the CCR rule codified in Title 35 IAC Section 845.440 and 40 CFR Section 257.73(a)(2) and was prepared under the direction of Mr. M. Dean Jones, P.E.

By affixing my seal to this, I do hereby certify to the best of my knowledge, information, and belief that the information contained in this report is true and correct. I further certify I am licensed to practice in the State of Illinois and that it is within my professional expertise to verify the correctness of the information. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

Seal:



Signature: _____

Name: M. Dean Jones, P.E.

Date of Certification: _____

Illinois Professional Engineer No.: 062-051317

Expiration Date: November 30, 2029