

Appalachian Power Company (APCo)  
Mountaineer Power Plant  
Mountaineer Bottom Ash Complex (WV ID#05307)  
**Hazard Potential Classification Assessment**

AEP has performed an evaluation to classify the above CCR Surface Impoundment in accordance with FEMA's Hazard Potential Classification System for Dams. These guidelines evaluate the consequences of a potential failure not the likelihood of a failure. Guidelines that were developed and utilized are included below.

**Hazard Potential Classification Systems (from FEMA 333, April 2004)**

**1. Low Hazard Potential**

Dams assigned the low hazard potential classification are those 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 owner's property.

**2. Significant Hazard Potential**

Dams assigned the significant hazard potential classification are those dams 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 can impact other concerns. Significant hazard potential classification dams are often located in predominantly rural or agricultural areas but could be located in areas with population and significant infrastructure.

**3. High Hazard Potential**

Dams assigned the high hazard potential classification are those where failure or mis-operation will probably cause loss of human life.

The Mountaineer Power Plant is located near the City of New Haven, Mason County, West Virginia. The dikes are constructed along a state highway. Failure or mis-operation of the dikes would not result in probable loss of human life but could cause damage to the state highway and railroad, economic loss, and environmental damage to an adjacent stream. The Mountaineer Bottom Ash Pond is regulated by the West Virginia Department of Environmental Protection Dam Safety and is considered a Class 2 structure which is equivalent to a Significant Hazard FEMA classification. The US EPA CCR Impoundment Assessment Report also listed this ash pond as Significant Hazard.

Based on the FEMA Hazard Potential Classification Systems for Dams and on the above discussion, The Mountaineer Bottom Ash Pond is classified as a **Significant Hazard Potential Dam**.

Professional Engineer's Certification:

I certify that this Hazard Potential Classification Assessment is in accordance with the requirements of section 40 CFR 257.73 (a)(2)(i).

Gary F. Zych, P.E.

*Mary F. Zych*

7/29/2016

