

AEP Generation Resources  
Gavin Stingy Run Flyash Dam (# 8721-009)  
**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 fly ash dam is located approximately 2.5 miles northwest of the plant on Stingy Run which is a tributary to Kyger Creek. Kyger Creek empties into the Ohio River 3.0 miles downstream of the power plant. The impact of the failure of dam or mis-operation of the pond will result in a probable loss of human life and likely to cause damage to public roads and environmental damage to the receiving stream. The Stingy Run Flyash Dam is classified by Ohio DNR as Class I dam. The US EPA CCR Impoundment Assessment Report identified the dam as a High Hazard Potential Dam.

Based on the FEMA Hazard Potential Classification Systems for Dams and on the above discussion, The Gavin Fly Ash Dam is classified as a **High 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.



