

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 AEP H.W. Pirkey Power Station is located at 2400 FM 3251, Hallsville, TX 75650. The plant is located in southern Harrison County, approximately 5 miles southeast of Hallsville, Texas, and approximately 8 miles southwest of Marshall, Texas.

The East Bottom Ash Pond is located at the north end of the Plant and approximately 2,000 feet north-northwest of Brandy Branch Reservoir. Loss of human life is not probable in the event of a catastrophic failure of the embankment and a failure of the embankment is expected to have a low economic and environmental impact. The US EPA CCR Impoundment Assessment Report has listed this ash pond as Low Hazard.

There has been no changes in classification by the State Dam Safety nor has there been any other physical changes that would warrant a change in the classification.

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

Professional Engineer's Certification:

I certify that this Hazard Potential Classification Assessment is in accordance with the requirements of section 30 TAC 352.731.

Gary F. Zych, P.E.

Gary F. Zych
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