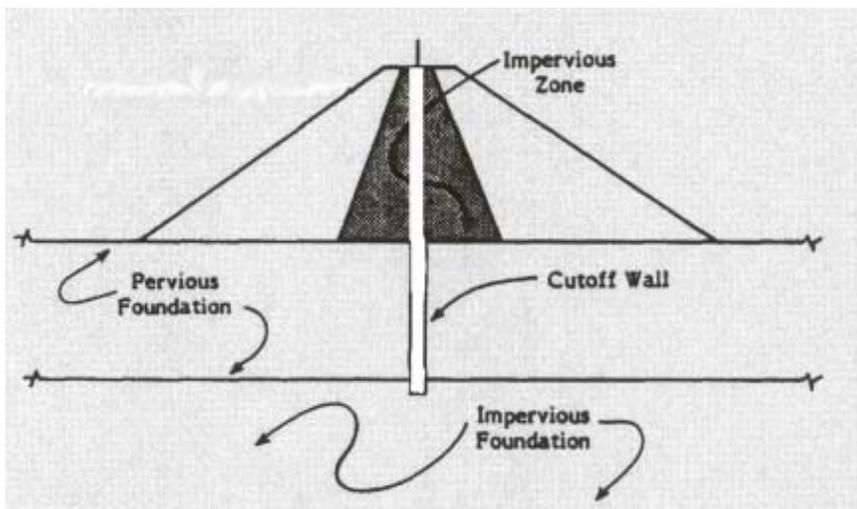


Fact Sheet

Mississinewa Dam Safety Project



US Army Corps
of Engineers
Louisville District



The U.S. Army Corps of Engineers is repairing the Mississinewa Dam. The repair work began in 2002 with drilling and grouting of a test section. To the left, is a cross section of the repair. Note that the cut-off wall extends through the foundation.

Project Data

History

Construction on the Mississinewa Dam, Peru, Ind., began in 1962 for flood damage reduction. During the 80s, slight shifts appeared atop the dam. Because of defects within the rock foundation, soil particles had moved into fractures and openings in the rock causing instabilities beneath the dam's foundation. The pool was reduced from elevation 737 ft. to 717 ft., as a safety precaution to reduce loads on the structure and limit further movement of particles beneath the dam.

Repair method

A cut-off wall will be constructed within the right side of the dam by a slurry process where concrete is placed into a slot cut into the embankment and foundation. The cut-off wall will prevent deterioration and will safely maintain the storage pools of Mississinewa Lake. The cut-off wall will extend 2,600 in length from the right embankment toward the center. It will be 150-180 ft. deep.

Current activity

Grout work has been completed to fix cracks in the dam. The construction of the cut-off wall is underway as of September, 2004.

The construction platform is pictured at right. Only a handful of contractors and equipment exist worldwide that can make the necessary repairs at the Mississinewa Dam.

U.S. Army Corps of Engineers,
Louisville District, (502) 315-6769
<http://www.lrl.usace.army.mil/>



Project schedule

Grouting:
2002-2003
Cutt-off wall:
2003-2004
Completion:
2005

Contractor

Joint Venture Bencor/Petrifond
Bencor, Dallas
Petrifond, Canada

Project Cost

Approximately \$55 million



The hydromill has huge teeth that bore down into the geological formations of Mississinewa.

(as of Sept. 2004)