

# **Dam Deformation Surveys in the Pittsburgh District of the US Army Corps of Engineers**

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**KEY WORDS:** Monitoring Concepts for Static and Dynamic Deformations of Engineering and Geotechnical Structures

## **ABSTRACT:**

This presentation will give a brief description of civil works facilities in the Pittsburgh District of the U.S. Army Corps of Engineers, consisting of sixteen reservoir dams and 23 navigation locks and dams. An explanation of past methodologies for measuring deformations in the district will be presented. Beginning in 2005 new field and office methods were developed to provide data meeting the required accuracies in a more efficient manner using modern equipment such as High Accuracy Total Stations, Dual Frequency GPS, and Digital Bar Coded levels.