APPLICATION: DAM SAFETY & MONITORING

Challenge

The U.S. Army Corps of Engineers (USACE) manages and maintains a vast network of dams and levees across the US, while faced with:

- Aging infrastructure
- Limited resources
- Natural disasters

Solution

In combination with remote sensing and visual inspections, piezometers, inclinometers, and pressure level sensors detect changes in dam behavior to indicate potential problems and mitigate risk.

Benefits

With comprehensive data, the USACE can prioritize upgrades and modernization efforts to meet safety standards. OTT HydroMet has long partnered with the USACE to provide technology for continuous monitoring.

Customized Projects

Dam monitoring often includes multiple remote stations measuring water level, motion, and other parameters around a body of water. These stations communicate back to a master station where the data is transmitted at a specified interval to a server which integrates into data visualization software.

OTT HydroMet Dam Monitoring Solutions:

- New fully automated systems to reliably collect and transmit data
- System upgrades to existing communication infrastructure (GOES Satellite, radio)
- System upgrades to established vibrating wire piezometer networks

Dam Monitoring Station Components

- Piezometer
- Pressure level sensor
- Datalogger in enclosure
- Battery and solar panel
- Weather sensor (if applicable)
- Antenna and Wireless SDI radios
- Data management software

SUTRON
an OTT HydroMet brand

Further information

Explore Solutions

Contact

sales@otthydromet.com