Dams and Hydropower

Kleinfelder understands the importance of water to our clients, communities, and families, and we deliver solutions to sustainably manage this vital resource. Our experience and success with hundreds of dams, levees, and other flood risk management structures nationwide is a direct reflection of our commitment to outstanding delivery on every project.

**Our dam and hydropower capabilities include:**

- Civil design
- Dam surveillance and monitoring
- Foundation analysis and design
- Gate and valve assessment analysis and design
- Geological and geotechnical analysis
- Hydrology and hydraulic analysis and design
- Instrumentation design
- Seepage analysis and design of filter/drainage systems
- Seismic analysis and design
- Stability analysis
- Structural analysis and design

**IN-DEPTH EXPERTISE—FROM CONCEPT THROUGH CONSTRUCTION**

Kleinfelder is a proven leader in all facets of planning, design, and construction of earthfill, rockfill, gravity concrete, and roller-compacted concrete (RCC) dams. We also have extensive capabilities for hydropower generation facilities. Furthermore, we are at the forefront of risk-based dam and levee safety methodologies with extensive dam safety experience, covering inspections, evaluations, and reporting.

**HELPING CLIENTS MANAGE RISK**

Leveraging our global technical network, we have worked on some of the largest dam rehabilitation, design, and decommissioning projects in the United States (U.S.). We provide specialized risk management services supporting the National Dam Safety Program, the National Levee Safety Program, and the U.S. Army Corps of Engineers (USACE) Risk Management Center.

*Over the past 15 years, Kleinfelder has worked on some of the world’s largest dam rehabilitation, design, and decommissioning projects.*