Effective dam and hydropower security is a requirement of government regulatory bodies, as well as a good business practice. Meeting the requirements of the Federal Energy Regulatory Commission (FERC) safety and security program, North American Electric Reliability Corporation (NERC) critical infrastructure protection (CIP) standards, state safety and security regulations, and security industry best practices is no small undertaking. Avoiding a security or structural safety incident requires the implementation of a risk management program and well-designed physical protection system. This effort requires knowledgeable and dedicated personnel to effectively integrate safety and security systems and programs into your operations and organization’s culture.

The Gannett Fleming team has the capabilities, experience, and certified expertise to assist you with your safety and security programs. Our consultants provide security and safety services to the water, dam, and hydropower industries. Our experience extends to state regulatory requirements as well.

Our services include:

- Threat, vulnerability, and risk assessments of hydro projects
- Audits and inspections of physical security programs for FERC standards
- Staff training in FERC and NERC security requirements
- Development of physical security, plans, programs, and procedures
  - Plan for and exercise security plans.
- Design of physical protection systems, including:
  - Blast and structural analysis
  - Fencing and barriers
  - Intrusion detection, closed circuit television, and access control systems
  - Public address and mass notification systems
  - Security engineering and crime prevention through environmental design measures.
- Development and implementation of emergency action plans and exercise programs
  - Establish and plan for internal response and rapid recovery plans
  - Public safety plans.
As safety and security technology and practices evolve, Gannett Fleming stays on the leading edge of the industry. We identify technologies that meet your specific needs in the most cost-effective manner. As a full-service engineering firm, we provide design, construction, and project management services as a complete turn-key solution to any security or safety project enhancements.

**Some of our previous work includes:**

**Exelon Power, Pennsylvania and Maryland** – Gannett Fleming performed vulnerability and risk assessment studies and conducted a feasibility study on two hydropower facilities. The final reports provided detailed asset identification and an evaluation of existing security countermeasures. The final summary suggested improvements for the overall security program. The project also included a site-specific security plan that met the FERC security program regulatory guidelines and NERC-CIP requirements, while supporting and enhancing the existing internal security and safety program for both projects.

**State Dam Security and Anti-Terrorism Program Development and Training, Department of Homeland Security Office of the Federal Emergency Management Administration, Washington, D.C.** Gannett Fleming developed a state dam security and anti-terrorism program guide book, as well as an instruction program to teach the content and the dam assessment matrix for security and vulnerability. Members of 17 state dam safety programs received the training and resources necessary to implement a state dam security and anti-terrorism program.

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