WSP USA has years of experience addressing the challenges of hydropower dam and water infrastructure projects. We have built our reputation on our expertise, experience, ingenuity and commitment, as well as our proven ability to exceed client requirements.

Our technical expertise and experience enable us to plan, engineer, design, inspect, assess, monitor, repair, rehabilitate and otherwise support gate and intake structures.

**STRUCTURES**

- Gates - tainter, slide, roller, fixed-wheel, stoney and crest
- Sluice gates
- Intakes and outlets
- Trash racks
- Penstocks, pipelines and tunnels
- Waterways and canals
- Stoplogs
- Bulkheads – fixed and floating
- Cofferdams
- Boat barriers

**Hydropower services – gate and intake structural engineering**

*Harnessing the power of water*
SERVICES

- Design and engineering of gate modifications
- Owner’s engineer services
- Inspections and condition assessments
- Trash rack design
- Engineering field investigations
- Inspection/modification/replacement of intakes including concrete, gates and hoists
- Preparation of performance specifications for new gates and hoists
- Structural, mechanical and electrical design
- Engineering support during construction
- Construction bid management and evaluation
- Constructibility reviews
- Vendor shop inspections
- Underwater inspection and repair support
- Reliability assessments
- Static and dynamic analysis
- 3D finite element model analysis
- Seismic evaluations

ABOUT WSP

WSP USA is the U.S. operating company of WSP, one of the world’s leading engineering and professional services firms. Dedicated to serving local communities, we are engineers, planners, technical experts, strategic advisors and construction management professionals. WSP USA designs lasting solutions in the buildings, transportation, energy, water and environment markets. With more than 12,000 employees in over 200 offices across the U.S., we partner with our clients to help communities prosper.

CONTACT US

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