



# Independent Spent Fuel Storage

Full Service Provider for New Installation and Expansion

Black & Veatch understands that the U.S. operating nuclear fleet is vital to our nation's energy future, as well as our clients and their consumers. Count on decades of subject matter expertise, holistic service offerings, and Nuclear Regulatory Commission (NRC) experience to address your spent fuel needs.

We recognize that spent fuel storage capacity is a critical asset for your operating plant. With that, we are confident we can help you develop a solution for your spent fuel needs including the evaluation of potential site locations, vendor selection, optimization of design, management of the project, and construction execution.

We are experienced with the design and plant modifications needed to support the dry cask storage system. Our nuclear expertise helps our clients get it right the first time to avoid disruptions to plant operations while maintaining regulatory compliance.

## Why Black & Veatch

The Black & Veatch team includes industry experts with direct experience in spent fuel projects. Our professionals are proficient in the time and tasks required to construct an ISFSI project. We have the right in-house engineering expertise to provide the optimal ISFSI solution specific for your plant. Black & Veatch professionals have performed all activities associated with a dry fuel storage project

including the heavy haul road evaluations and design, underground utility evaluations, crane modifications, plant modifications, fire hazards evaluations, electrical systems design, and storage pad design. Black & Veatch understands the requirements for the handling of Safeguards Information for the ISFSI security designs and maintains a Safeguards Room with the appropriate procedures for the handling of this information. We also have experience working with both the plant personnel and the dry cask storage vendor to make sure that the designs and plant modifications meet all of your requirements for dry fuel storage projects.

### Capabilities

- Planning/Studies – ISFSI site studies, conceptual designs, project scoping, plant interface, fuel movement, licensing and permitting
- Site Investigations – Geotechnical and Geophysical
- Project Management
- Engineering & Design
  - Geotechnical
  - Civil/Structural/Architectural
  - Mechanical
  - Electrical
  - Security
  - Instrumentation & Control
  - Licensing
  - Radiological
  - Fire Protection
- Cask Vendor Selection
- Quality Assurance
- Procurement
- Construction Management & Support
- Construction

### Black & Veatch In Action

In order for Nebraska Public Power District's (NPPD) Cooper Nuclear Station to continue producing energy, the facility needed to create more storage space for spent nuclear fuel. With an accelerated schedule imposed by the Nuclear Regulatory Commission, NPPD chose Black & Veatch to engineer their first-ever Independent Spent Fuel Storage Installation (ISFSI). Black & Veatch completed the engineering and project management services for the project, including design packages, calculations, cost estimates, and construction specifications.

