

Our knowledgeable and multidisciplinary engineering professionals and technical specialists have successfully supported our clients' needs for comprehensive designs. Typical tasks include:

- **Site selection**
- **Site investigation**
- **Planning and scheduling**
- **Permitting**
- **Cost estimating**
- **Detailed design, including calculations, specifications, and drawings**

CONTACT US

Technical Inquiries

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Sargent & Lundy's civil engineering and design team has extensive qualifications and experience in site development permitting and design relating to power generating and power distribution facilities. Nearly all of Sargent & Lundy's projects involve civil engineering analysis and design, which involves planning, conceptual and preliminary engineering, data gathering and determination of design input, detailed design, permitting, and construction support during project implementation. We understand that every project is unique and must be designed within the parameters of local, state, and federal permitting regulations; site geology and terrain; local climatic conditions; and client and project objectives.

Capabilities and Expertise

We perform a variety of site-related designs to support new and betterment power plant projects. Areas of design expertise include:

- Earthwork and grading (land surveying, topographic mapping, bathymetric mapping, and geophysical mapping, if appropriate, subcontracted to qualified firms to perform field data collection).
- Stormwater drainage that includes traditional design approaches (drain piping and culverts; open-channel ditches; and detention, retention, and infiltration ponds) and low-impact design (vegetative filter swales, submerged gravel wetlands).
- Road and parking lot layout and alignment design.
- Concrete, asphalt, and granular pavement structural thickness design.
- Railroad trackwork design for lead and service tracks.
- Wastewater drainage, treatment, and disposal systems for domestic (sanitary) sewage and plant oily water and process wastewater discharges.
- Water and wastewater storage impoundments and dry landfill disposal areas.

