

Benefits our clients receive from Sargent & Lundy's extensive geotechnical resources and experience include:

- **Reduced risk of change orders and schedule delays through site investigations and development of high-quality construction deliverables**
- **Optimal foundation and geotechnical system designs**
- **Resolution of construction challenges**
- **Verification of construction quality**
- **Dam safety evaluations**

CONTACT US

Technical Inquiries

Dave Nielson

Senior Consultant

312-269-2262

david.e.nielson@sargentlundy.com

Business Development

James Malone

Vice President

312-269-6890

james.w.malone@sargentlundy.com

Sargent & Lundy's geotechnical engineers are responsible for:

- Site investigation programs
- Evaluating and designing foundation and geotechnical systems for:
 - ▶ Renewable power generation
 - ▶ Fossil fuel power generation
 - ▶ Power transmission systems
 - ▶ Industrial facilities
 - ▶ Mining operations
- Licensing and design of new nuclear facilities
- Supporting construction-phase questions and challenges

We have successfully completed complex studies and designs of geotechnical systems and structures, including:

- Subsurface investigation program management: exploratory drilling, cone penetration testing, monitoring wells, and geophysical surveys
- Ground improvement: vibrocompaction, deep dynamic compaction, stone columns, rigid inclusions, and soil mixing
- Shallow foundation design: mats, footings, Independent Spent Fuel Storage Installation (ISFSI) pads, and floor slabs
- Deep foundation design: drilled piers, auger cast piles, micropiles, driven piles, and helical piles
- Earth retention: sheet pile, stabilized slopes, soil nails, and ground anchors
- Coal Combustion Residuals (CCR): regulatory compliance documents and strategies, closure design, new facility design, annual inspections, interface with regulators, and public meetings on client's behalf
- Water retention design and evaluation: dams, impoundments, floodwalls, and safety inspections
- Water supply: water well quality and sustainability
- Earthwork: compaction, testing, excavations, and grading
- Construction phase: resolve construction-phase subsurface challenges, vibrations, observation, and monitoring

