

Nuclear Integrated Services (NIS)

Nuclear Consulting Services

Background

Nuclear Integrated Services (NIS) has extensive experience solving technical, licensing and operational issues for operating nuclear plants and in providing nuclear consulting services.

Description

The NIS nuclear consulting services provide comprehensive support for both technical operations and business management. These services are available to plant leadership, on-call, to evaluate emergent issues or to provide longer term expert advice, backed by rigorous evaluations and extensive industry experience. Areas of expertise include:

- Technical consulting
- Due diligence
- Economic analysis
- Plant condition assessment
- Operations and maintenance (O&M) reviews and projections
- Performance projections
- Decommissioning planning
- Financial modeling
- Risk management
- Organizational improvements
- Performance improvements
- Regulatory support
- Market analysis
- Business planning
- Financing support
- Lifecycle delivery services

Benefits

Acquisition, Divestiture and Financing Support

Extensive consolidation in the nuclear industry is taking place through sales, mergers and the formation of regional operating companies and alliances. The NIS consulting team provides technical and commercial support to sellers, buyers and financing participants to assess the physical plant condition, current operations and performance, and projected economics. Our evaluations assess related uncertainties and risks, with recommendations for mitigation. This information helps buyers and sellers recognize the greatest value in plant transactions and helps financial participants properly manage related risks. We understand the benefits of fleet management and the implementation of performance improvement programs, based on lessons learned from an industry that has shown substantial improvements in cost reductions, reduced staffing, outage management, availability improvements, life extension and capacity uprates.

The NIS consulting team has been an active participant in numerous generation transactions to date, providing support to buyers, sellers and financing participants. Our staff has played a key role in many of the nuclear plant sale transactions and other financing arrangements, including 17 U.S. plants.

New Nuclear Project Financing

The NIS consulting team can work with project developers and financial arrangers to prepare project concepts, implementation plans, cost estimates, projected cash flows, term sheets for major agreements, risk profiles and sensitivity studies for new projects. We have worked successfully with lenders and legal advisors to find ways to isolate nuclear and operating risks that allow traditional lending arrangements to work in financing portions of a nuclear project. As a technical advisor to Wall Street, we have supported the closing of hundreds of billions of dollars in power industry financing.

Business Operations Management

Owners and operators are improving operating efficiency and performance of individual units and are benefiting from consolidated fleets of nuclear plants. The NIS consulting team has the ability to combine our broad knowledge of business management with our nuclear technical insights to target opportunities for operational improvement that add value to the enterprise. Our services in this area include:

- Benchmarking evaluations
- Organization design and staffing
- Optimization of regional operations
- Performance measurement design
- Operating and outage cycle optimization
- Outsourcing and insourcing decisions
- Regulatory support and testimony

Experience

Many of our employees have more than 30 years of experience, and our staff possesses extensive capabilities to perform studies or analyses in specialized areas needed to resolve issues of critical importance to the economic or regulatory viability of nuclear plants. Our technical specialties include:

- Materials and metallurgy
- Major power plant equipment
- Power uprates
- Outage planning and management
- O&M planning
- Preventive maintenance
- Staffing and organizational review
- Life extension and license renewal
- Decommissioning
- Transmission modeling
- Environmental compliance
- Records management

NIS has supported many nuclear plant operators with consulting services, including major projects in the United States, the United Kingdom and Canada.

