

Nuclear Integrated Services (NIS) Overview

Background

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

NIS brings experienced project management teams that are skilled at executing projects from the critical initial planning and scoping phase, through detailed engineering and implementation. Executing large projects with an on-site leadership team enables a close working relationship with our clients and aids in project success. Home office engineering and construction experts are used for support and consulting, which leverages the expertise of the entire organization.

The NIS staff has extensive experience supporting original design and modifications to operating nuclear plants with a legacy of over 60 years and is able to offer well-known industry specialists in materials, American Society of Mechanical Engineers Codes, electrical protection, geotechnical, licensing, radiological, pipe stress and supports, pumps, heat exchangers and many other technical areas.

Description

NIS provides a full and comprehensive range of services complemented by our world-class fabrication capabilities for new build as well and operating plants, including:

- Project management and engineering, procurement and construction (EPC) projects
- Comprehensive architect/engineer (A/E) services
- Engineering and design modifications
- Plant completions and restarts
- Licensing and design basis
- Upgrades and uprates
- Design and construction of independent spent fuel storage installations
- Decommissioning and dismantlement

Life Cycle Delivery Services

NIS delivers EPC projects that encompass the entire life cycle of a major project. With its extensive and experienced nuclear construction resources, NIS can self-perform, where appropriate, the majority of our projects.

NIS has over 60 years of experience designing, constructing, modifying, refurbishing and servicing operating nuclear facilities. We have the resources to execute a broad range of nuclear projects, from special scopes to the most complex EPC projects at operating nuclear facilities.

Engineering Expertise

NIS has subject matter experts as well as nuclear new build experience, offering our customers specialized knowledge in all aspects of the industry, including:

- Preparation of EPC contracts, new nuclear plant supplier agreements and contract negotiations
- Project financial analyses
- Support for site development, construction planning and site-specific engineering
- Technical reviews and consultations
- Cost analyses and cost development
- Planning and scheduling
- Nuclear supply chain management
- Licensing support

Integrated Core Competencies

NIS is a stand-alone product line offering A/E services and EPC services across multiple markets, including:

- Traditional A/E services and construction (full EPC, etc.)
- Machining and installation services for instrumentation and control products
- Mod package engineering
- Power uprates
- Fuel storage
- Large component upgrades (including cranes)
- Project and construction management
- Decommissioning, decontamination and remediation
- Nuclear steam supply system (NSSS) pressurized water reactor/boiling water reactor mods and install
- Head replacement
- Fuel-handling equipment Installation
- Operations/licensing technical support
- Security engineering systems – A/E, EPC
- Blast analysis

Benefits

In summary, NIS provides these benefits to customers:

- A/E service portfolio
- One-stop shop – horizontal project integration
- Total life cycle capabilities
- Broad engineering expertise
 - NSSS
 - Non-traditional NSS
 - Balance of plant
- Site project management expertise for large programs
- Construction expertise
- Access to original equipment manufacturer and technology
- Practical new plant construction execution

Experience

NIS integrates the broad capabilities and deep technical knowledge of experienced people in a broad range of disciplines.

We focus our worldwide resources to provide the most appropriate, cost-effective and comprehensive solutions to our customers.

With our global reach, we can dedicate resources and respond quickly to emerging customer needs. Through NIS, Westinghouse offers a single source for nuclear design, engineering operations technologies and services.