Nuclear Power Plant License Renewal Services

Support for Nuclear Aging Management

Due to an aging nuclear fleet and increased demand for clean, available energy, there is a renewed sense of urgency to extend plant operations. GSE experts are experienced in keeping nuclear plants running optimally while being mindful of regulatory constraints and commitments. We focus on ensuring the process is done correctly the first time, minimizing the impact on your operations, and ensuring safe, reliable energy generation throughout a facility's lifespan.

GSE Programs & Performance has been an industry leader in Engineering Programs since its inception in 1999. Historical data from Engineering Programs such as maintenance activities, operator rounds, and other tasks are vital to utilities; this data offers a natural extension into License Renewal Applications and License Renewal Implementation Support. In addition, we have assisted nearly all US utilities in developing new or enhanced programs for their plants, making GSE an ideal choice to support license renewal projects.

Below is a list of some of our License Renewal capabilities offered in-house by GSE in addition to over 100 years of programs and License Renewal experience on staff.

LICENSE RENEWAL CAPABILITIES

- Initial and Subsequent License Renewal Implementation Services
  - Analysis and plant-specific documentation to ensure requirements are met
  - Development of implementing procedures, Program descriptions, Development of Aging Management Programs
  - Mentoring and training for Aging Management program owners
  - Modification, 54.37(b) and LDCN Reviews
- License Renewal Application Submittal Guidance & Support
- Environmental Licensing
- Aging Management Program Support
- Quality Reviews & Inspections
- Engineering Program Evaluations

Most Engineering Programs required by regulators have been in existence for decades. Our active involvement in industry committees, forums, and regulatory activities keeps GSE at the forefront of plant issues, initiatives, and technology. These include programs flagged by NRC as Aging Management Programs for passive and long-lived structures and components.

STRATEGIC INDUSTRY ALLIANCES

Our strategic industry alliances support robust life extension and license submittal processes. We offer end-to-end support with significant code and engineering program experience, aging analysis expertise, probabilistic risk assessment, and coordination with plant personnel and resources. GSE's experts and unique industry alliances are deeply entrenched in industry task groups and users' groups and can leverage relationships to navigate the license renewal process – faster and on budget.

SPECIALTY SERVICES ENGINEER OF CHOICE

GSE Programs & Performance has been selected as a Specialty Services EOC for several US utilities and utility cooperatives. This partnership demonstrates our commitment to the nuclear utility's long-term success through top-quality work and volume discounts, benefits, and streamlined services.

GSE supports all facets of the License Renewal process. As a trusted name in nuclear power plant programs for over two decades, our license renewal and life extension services meet today's needs for extended plant operations.

GSE SOLUTIONS
Engineering Tomorrow's Energy

ABOUT GSE SOLUTIONS

GSE Solutions supports nuclear power and energy fleets worldwide with design engineering, high-fidelity simulation, thermal performance, and engineering program services that strengthen plant-level operational excellence. Our industry-proven experts collaborate closely with customers and across GSE to unify legacy project knowledge with modern best practices, delivering integrated execution—reducing rework, cost, and risk. Backed by 55 years of experience and powered by innovative software and hardware, GSE delivers solutions that perform — advancing long-term plant performance and reliability.