



License Renewal

Nuclear Power Plant Operating Licenses

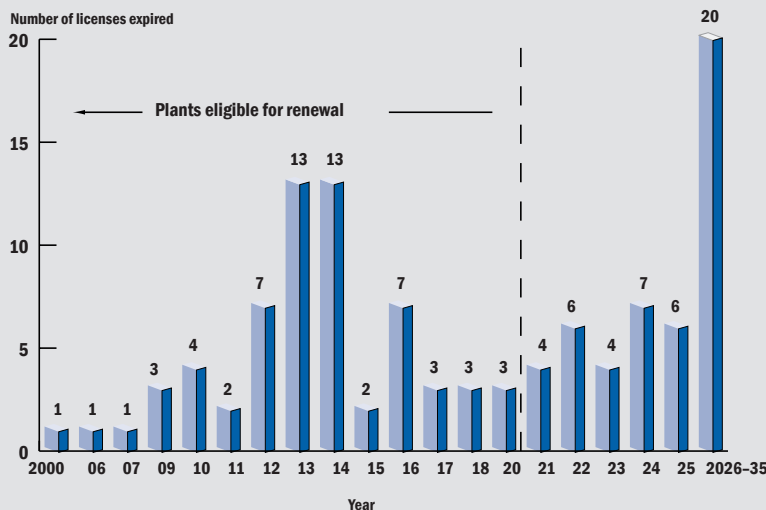
HISTORY

While the Atomic Energy Act of 1954 limited nuclear power plant operating licenses to 40 years, it also made provisions for license renewal. Over the last several years, regulations governing the application for a renewed license have been developed, revised, finalized, and codified. While the Maintenance Rule applies to active components, current license renewal requirements focus only on passive components and structures, ensuring their continued functioning during the period of license renewal. The regulations for license renewal reside in 10 CFR 51.53 for renewal stage environmental reports, and in 10 CFR Part 54 for license renewal application requirements.

As revised, 10 CFR Part 54 allows an application for license renewal to be submitted within 20 years of a plant's license expiration date. The adjoining chart shows the number of plants currently eligible to apply for license renewal. Have *you* begun your license renewal process?

OUR RENEWAL EXPERIENCE

Bechtel's involvement in the license renewal process began early, working with EPRI lead plant studies. We have continued to be involved through the revision of 10 CFR Part 54 and the development of industry and regulatory guidance documents. More recently, Bechtel developed analyses of plant structures and systems and actively participated in discussions that led to the first industry license renewal application submittal to the NRC, that of the Calvert Cliffs Nuclear Plant. Currently, we are assisting Southern Nuclear Operating Company in identifying time-limited aging analyses and severe-accident mitigation alternatives in support of their Plant Hatch license renewal application.



How Can Bechtel Help You?

Bechtel understands that operating a safe, reliable nuclear unit in a competitive market is a full-time job, and that license renewal can be a daunting task. As a company that has designed and built over half the nuclear plants in the United States and that provides operating plant services to over two thirds of U.S. nuclear plants – Bechtel can help you achieve successful license renewal by:

- Developing methodologies and procedures to implement license renewal requirements
- Performing and documenting system, structure, and component scoping and screening
- Performing and documenting component and structure aging analyses
- Identifying program attributes to manage aging
- Identifying and addressing time-limited aging analyses
- Performing environmental reviews and analyzing severe-accident mitigation alternatives
- Developing submittal templates and preparing submittals

ADVANTAGES OF A UTILITY/BECHTEL TEAM FOR LICENSE RENEWAL

Bechtel's strong relationships with its utility customers ensure our unparalleled continuity of support and unwavering commitment to the long-term viability of the nuclear industry. In turn, the NRC recognizes the role Bechtel has played within the nuclear industry and has high regard for our expertise. Thus, Bechtel's capabilities are known and recognized, and they can be used to your advantage in the areas of engineering and material analysis, licensing, and project management. Our knowledge of NRC activities, our active involvement with NEI, and use of our SERCH licensing service will ensure smooth, cost-effective license renewal.

A Utility/Bechtel team has an added advantage in that Bechtel can provide the resources to assist plant and corporate staff. Our real-time experience and lessons learned in license renewal are at your disposal. Bechtel is committed to total customer satisfaction and will see your nuclear plant through to successful license renewal.

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