

Plant Life Extension (PLEX) Services

License Renewal

AREVA's License Renewal services have helped domestic customers extend the operating life of their nuclear power plants by 20 years, ensuring continued return on investment to their shareholders. Our key team members have been deeply involved in License Renewal activities from the mid-to-late 90s, through the current revision of the Generic Aging Lessons Learned (GALL) report, NUREG-1801 Rev 2, and are recognized as industry leaders. Key team members also participate in the License Renewal working groups for the various disciplines. Through these working groups, and the owners groups, we are following the preliminary actions for extending plant life beyond 60 years.



Additionally, AREVA has supported the License Renewal for an independent spent fuel storage installation (ISFSI), in accordance with 10 CFR 72, including the:

- Horizontal Storage Module
- Dry Storage Canister
- Transfer Cask
- Irradiated Fuel Assemblies

Features and Benefits

- Proven License Renewal process; lower overall project risk
- Lower total project cost and faster project execution for License Renewal
- Proven lessons-learned from previous License Renewal projects
- Optimized utilization of client staff



License Renewal Implementation

Following receipt of a renewed license, the focus shifts to performing the inspections and completing the commitments associated with regulatory approval of extended operation. AREVA has the expertise to support all implementation activities, to ensure commitments have been completed, and that aging management considerations going forward are integrated into site culture, procedures and documentation. This includes:

- Performing required inspections
 - Procedure development
 - Work planning/scheduling (outage and non-outage)
 - NDE inspection services
- Preventive Maintenance (PM) task / procedure updates
- 10 CFR 54.37(b) and modification process update
- Preparation for NRC IP-71003 inspections
 - Commitment closeout
 - Develop and deliver training to plant staff

Aging Management Expertise

- Environmental Qualification (EQ)
- Concrete Aging and Degradation
- Metal Fatigue
 - Environmentally Assisted Fatigue (EAF)
- RPV Embrittlement
- Materials Reliability Project (MRP) Updates
 - Boiling Water Reactor Vessel Internals Project (BWRVIP) Action Items
- Preparation for ACRS Meetings
- Responding to NRC Requests for Additional Information (RAI)
- One-Time & Selective Leaching Inspection
 - Training
 - Work Order/Processing
 - Field Work/NDE Services
- AP-913 Equipment Reliability/Maintenance Rule Process



International PLEX Involvement

AREVA is also actively supporting the life extensions for various international nuclear plants. These PLEX activities include aging management reviews and other evaluations per International Atomic Energy Agency (IAEA) guidelines.

International PLEX projects that AREVA supports can also include power uprates and major component replacements.

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