AMP XI.M31, Reactor Vessel Material Surveillance

• Program Description:

  • Based on requirements in 10 CFR Part 50, Appendix H.
  • Adjusted to provide adequate reactor vessel (RV) surveillance program criteria to cover plant operations through a 80-year period of licensed operation.
  • Updated to differentiate between plant-specific RV material surveillance programs and RV material integrated surveillance programs (ISPs).

• Scope of Program, Detection of Aging Effects, and Monitoring and Trending Elements: Improved element criteria defined for implementation of both plant-specific RV material surveillance programs and RV material ISPs.

• Parameters Monitored: Updated capsule removal schedule and RG 1.190 conformance criteria.
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- Detection of Aging Effects and Monitoring and Trending Elements: Withdrawal and testing of additional capsule during the subsequent license renewal period that achieves a capsule fluence that is between 1 and 2 times the maximum ID fluence that is projected for the RV through 80 years of licensed operation.
  - Program element criteria includes alternative management activities if no surveillance capsules are available for withdrawal and testing during a subsequent license renewal period.