

Draft Requests for Additional Information (RAIs)
ESBWR Design Control Document (DCD) Chapter 6.2.6

RAI Number	Reviewer	Question Summary	Full Text
6.2-75	Pulsipher J	Explain why Appendix J exemption is required for MSIV leakage rate testing.	<p>DCD Tier 2, Section 6.2.6.1.1 mentions, without explanation or justification, that, for containment integrated leakage rate tests (ILRTs or Type A tests), main steam isolation valve (MSIV) leakage rates will be excluded from L_a, the maximum allowable containment leakage rate. Further, in DCD Tier 2 Chapter 16, Technical Specifications, there are several mentions of special treatment of MSIV leakage rates (SR 3.6.1.3.8, SR 3.6.1.3.10). However, 10 CFR Part 50, Appendix J, Option A or Option B, requires MSIV leakage rates to be included in L_a. An exemption from Appendix J would be required to exclude MSIV leakage rates from L_a.</p> <p>In addition to this exemption, many operating BWRs have obtained exemptions from including MSIV rates in the sum of local leakage rates (Type B and Type C tests). Many operating BWRs have also obtained exemptions from the requirement to perform Type C tests of MSIVs with a test pressure of P_a, the calculated peak containment internal pressure related to the design basis loss-of-coolant accident (LOCA). Standard Review Plan (SRP) 6.2.6, Rev. 2, July 1981, states that, for MSIV Type C tests, a test pressure of less than P_a and the test acceptance criteria should be justified and included in the plant TS.</p> <p>In the DCD Tier 2, provide and justify the proposed test pressure and acceptance criteria for the MSIVs, and discuss the proposed treatment of the measured leakage rates, in relation to their inclusion in the Type A measured leakage rate and the sum of the Type B and Type C leakage rates. Further, provide and justify any needed exemption requests from Appendix J requirements.</p>