

3.3 SFSC CRITICALITY CONTROL

3.3.1 Boron Concentration

LCO 3.3.1 The concentration of boron in the water in the MPC shall meet the following limits for the applicable MPC model and the most limiting fuel assembly array/class to be stored in the MPC:

MPC-37: Minimum soluble boron concentration as required by the table below<sup>†</sup>.

Array/Class	All Undamaged Fuel Assemblies		One or more Damaged Fuel Assemblies or Fuel Debris	
	Maximum Initial Enrichment ≤ 4.0 wt% <sup>235</sup> U (ppmb)	Maximum Initial Enrichment 5.0 wt% <sup>235</sup> U (ppmb)	Maximum Initial Enrichment ≤ 4.0 wt% <sup>235</sup> U (ppmb)	Maximum Initial Enrichment 5.0 wt% <sup>235</sup> U (ppmb)
All 14x14 and 16x16	1000	1600	1300	1800
All 15x15 and 17x17	1500	2000	1800	2300

<sup>†</sup> For maximum initial enrichments between 4.0 wt% and 5.0 wt% <sup>235</sup>U, the minimum soluble boron concentration may be determined by linear interpolation between the minimum soluble boron concentrations at 4.0 wt% and 5.0 wt%.

-----NOTE-----  
 This LCO does not apply if burnup credit as described in Section 2.4 of Appendix B is utilized in selecting assemblies prior to loading.  
 14x14 classes must use soluble boron as described in this LCO.  
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APPLICABILITY: During PWR fuel LOADING OPERATIONS with fuel and water in the MPC

AND

During PWR fuel UNLOADING OPERATIONS with fuel and water in the MPC.

ACTIONS

-----NOTE-----  
 Separate Condition entry is allowed for each MPC.  
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