4C Control Rod Licensing Acceptance Criteria

The information in this appendix of the reference ABWR DCD, including all subsections, is incorporated by reference with the following standard departure.

STD DEP Admin

4C.3.4 Reactivity

The reactivity worth of the control rod is determined by the initial amount and type of absorber material and irradiation depletion. Scram time insertion performance ~~and control rod drop times~~ affects the total reactivity inserted into the core. All of these effected must be included in the plant core analyses including nuclear, abnormal operational occurrences, infrequent events, and accidents. The reactivity worth of the rod must provide, under conditions of normal operation (including abnormal operational occurrences), appropriate margin for malfunctions, such as two stuck control rods or accidental control rod withdrawal, without exceeding specified acceptable fuel design limits.