

MARKED-UP TECHNICAL SPECIFICATION BASES PAGE

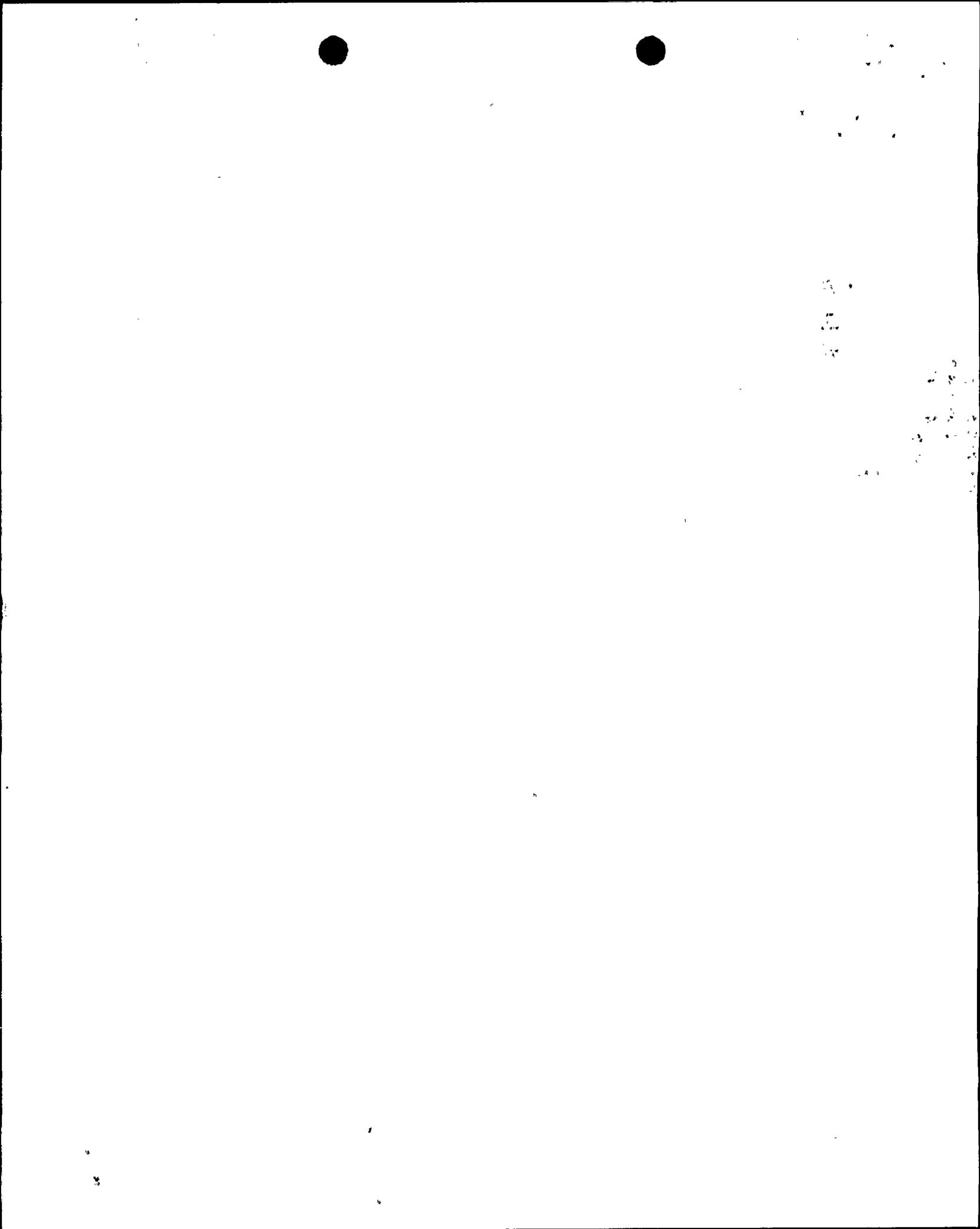
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BASES

3/4.9.1 BORON CONCENTRATION

The limitations on reactivity conditions during REFUELING ensure that: (1) the reactor will remain subcritical during CORE ALTERATIONS, and (2) a uniform boron concentration is maintained for reactivity control in the water volume having direct access to the reactor vessel. These limitations are consistent with the initial conditions assumed for the boron dilution incident in the safety analysis.

3/4.9.2 INSTRUMENTATION

The OPERABILITY of the Source Range Neutron Flux Monitors ensures that redundant monitoring capability is available to detect changes in the reactivity condition of the core. The use of one portable source range detector, in conjunction with an operable, permanently installed detector, is permitted for fuel movement, provided the LCO requirements regarding having two detectors OPERABLE, each with continuous visual indication in the control room and one with audible indication in containment and the control room, are met. If used, the portable detector shall be functionally equivalent to the permanently installed source range detectors and shall be positioned such that the combination of the remaining OPERABLE permanent source range detector and the ~~temporary~~ detector monitors the reactivity of the core alteration.

or alternate

or alternate

It is acceptable to individually latch all control rods and withdraw single control rods for performance of friction tests with only one OPERABLE permanent source range detector because the core is fully loaded and therefore will be neutronically coupled to the OPERABLE source range detector. Sufficient SHUTDOWN MARGIN exists to accommodate the most reactive withdrawn rod.

portable or alternate

3/4.9.3 DECAY TIME

The minimum requirement for reactor subcriticality prior to movement of irradiated fuel assemblies in the reactor vessel ensures that sufficient time has elapsed to allow the radioactive decay of the short lived fission products. This decay time is consistent with the assumptions used in the safety analyses.

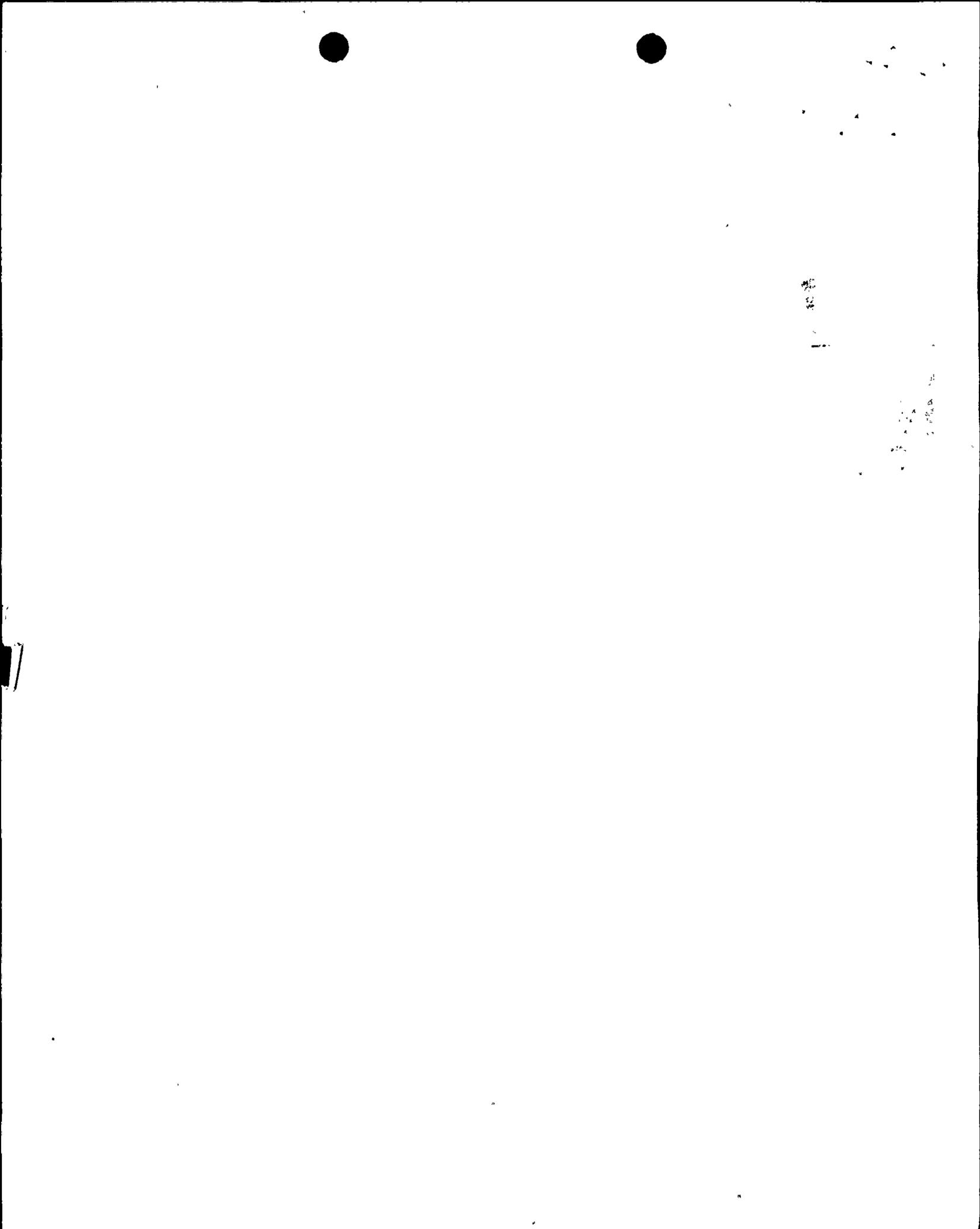
3/4.9.4 CONTAINMENT PENETRATIONS

The requirements on containment penetration closure and OPERABILITY ensure that a release of radioactive material within containment will be restricted from leakage to the environment. The OPERABILITY and closure restrictions are sufficient to restrict radioactive material release from a fuel element rupture based upon the lack of containment pressurization potential while in the REFUELING MODE.

If used, the alternate source range detector shall be powered from a different vital power supply than the normal source range detector in use.



NEW TECHNICAL SPECIFICATION BASES PAGE



3/4.9 REFUELING OPERATIONS

BASES

3/4.9.1 BORON CONCENTRATION

The limitations on reactivity conditions during REFUELING ensure that: (1) the reactor will remain subcritical during CORE ALTERATIONS, and (2) a uniform boron concentration is maintained for reactivity control in the water volume having direct access to the reactor vessel. These limitations are consistent with the initial conditions assumed for the boron dilution incident in the safety analysis.

3/4.9.2 INSTRUMENTATION

The OPERABILITY of the Source Range Neutron Flux Monitors ensures that redundant monitoring capability is available to detect changes in the reactivity condition of the core. The use of one portable or alternate source range detector, in conjunction with an operable, permanently installed detector, is permitted for fuel movement, provided the LCO requirements regarding having two detectors OPERABLE, each with continuous visual indication in the control room and one with audible indication in containment and the control room, are met. If used, the portable or alternate detector shall be functionally equivalent to the permanently installed source range detectors and shall be positioned such that the combination of the remaining OPERABLE permanent source range detector and the portable or alternate detector monitors the reactivity of the core alteration. If used, the alternate source range detector shall be powered from a different vital power supply than the normal source range detector in use.

It is acceptable to individually latch all control rods and withdraw single control rods for performance of friction tests with only one OPERABLE permanent source range detector because the core is fully loaded and therefore will be neutronically coupled to the OPERABLE source range detector. Sufficient SHUTDOWN MARGIN exists to accommodate the most reactive withdrawn rod.

3/4.9.3 DECAY TIME

The minimum requirement for reactor subcriticality prior to movement of irradiated fuel assemblies in the reactor vessel ensures that sufficient time has elapsed to allow the radioactive decay of the short lived fission products. This decay time is consistent with the assumptions used in the safety analyses.

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