DESIGN FEATURES

DESIGN PRESSURE AND TEMPERATURE

5.2.2 The reactor containment building is designed and shall be maintained for a maximum internal pressure of 40 psig and a temperature of 264°F.

5.3 REACTOR CORE

FUEL ASSEMBLIES

Replace with attached

5.3.1 The reactor core shall contain 177 fuel assemblies with each fuel assembly containing 208 fuel rods clad with Zircaloy -4. Each fuel rod shall have a nominal active fuel length of 144 inches and contain a maximum total weight of 2500 grams uranium. Reload fuel shall be similar in physical design to the initial core loading and shall have a maximum enrichment of 3.8 weight percent U-235.

CONTROL RODS

5.3.2 The reactor core shall contain 53 safety and regulating and 8 axial power shaping (APSR) control rods. The safety and regulating control rods shall contain a nominal 134 inches of absorber material. The nominal values of absorber material shall be 80 percent silver, 15 percent indium and 5 percent cadmium. All control rods shall be clad with stainless steel tubing. The APSRs shall contain a nominal 63 inches of absorber material at their lower ends. The absorber material for the APSRs shall be 100 percent Inconel-600.

5.4 REACTOR COOLANT SYSTEM

DESIGN PRESSURE AND TEMPERATURE

5.4.1 The reactor coolant system is designed and shall be maintained:

a. In accordance with the code requirements specified in Section 5.2 of the FSAR, with allowance for normal degradation pursuant to applicable Surveillance Requirements.

b. For a pressure of 2500 psig, and

c. For a temperature of 650°F, except for the pressurizer and pressurizer surge line which is 670°F.

Current Wording:

5.3.1 The reactor core shall contain 177 fuel assemblies with each fuel assembly containing 208 fuel rods clad with Zircaloy-4. Each fuel rod shall have a nominal active fuel length of 144 inches and contain a maximum total weight of 2500 grams uranium. Reload fuel shall be similar in physical design to the initial core loading and shall have a maximum enrichment of 3.8 weight percent U-235.

Proposed Wording:

5.3.1 The reactor core shall contain 177 fuel assemblies with each fuel assembly **normally** containing 208 fuel rods clad with Zircaloy-4. Each fuel rod shall have a nominal active fuel length of 144 inches and contain a maximum total weight of 2500 grams uranium. Reload fuel shall be similar in physical design to the initial core loading and shall have a maximum enrichment of 3.8 weight percent U-235. **Fuel rods with defective cladding may be removed or replaced with stainless steel or Zircaloy filler rods. The acceptability of non-fuel bearing rods or water channels is determined by cycle specific reload analyses, using NRC approved methodologies. If any fuel assembly has less than 208 active fuel rods, NRC approval for initial post-refueling restart will be required.**