

## **3.2 Reliability Assurance Program**

### **1.0 Description**

The Reliability Assurance Program (RAP) is implemented as an integral part of the design process and is implemented during the detailed design phase prior to initial fuel load. The RAP evaluates and sets priorities for the structures, systems and components (SSC) in the design, based on their degree of risk significance.

The objective of the RAP is to provide reasonable assurance that risk-significant SSC are designed such that: (1) assumptions from the risk analysis are maintained, (2) SSC when challenged, function in accordance with the assumed reliability, (3) SSC whose failure could result in a reactor trip, function in accordance with the assumed reliability, and (4) maintenance actions to achieve the assumed reliability are identified.

The RAP provides reasonable assurance that the reactor design meets the preceding considerations in the areas of design, procurement, fabrication, construction, and preoperational testing activities and programs.

### **2.0 Inspections, Tests, Analyses, and Acceptance Criteria**

Table 3.2-1 specifies the inspections, tests, analyses, and associated acceptance criteria for the RAP.

**Table 3.2-1— Reliability Assurance Program ITAAC**

<b>Commitment Wording</b>	<b>Inspections, Tests, Analyses</b>	<b>Acceptance Criteria</b>
A Reliability Assurance Program exists and provides reasonable assurance that the overall plant reliability is maintained.	Inspection will be performed for the existence of a Reliability Assurance Program..	A Reliability Assurance Program provides reasonable assurance that the overall plant reliability is maintained.