2.1.4 Radioactive Waste Processing Building

Design Description

1.0 System Description

The Radioactive Waste Processing Building (RWB) is a reinforced concrete structure that houses non-safety related liquid waste storage tanks, storage facilities, and associated support systems required for normal power operation. There are no SSC required for safe shutdown in the RWB. The RWB is located adjacent to the Nuclear Auxiliary Building (NAB) as shown on Figure 2.1.4-1. Information in tables and figures in this section are for information only with the exception of the specific features listed in the ITAAC for verification.

2.0 Arrangement

2.1 The basic configuration of the RWB is shown on Figure 2.1.4-1—Radioactive Waste Processing Building Location.

3.0 Mechanical Design Features

3.1 Separation is provided between the RWB and EPGB 3/4 as shown on Figure 2.1.4-1 to preclude interaction between the RWB and EPGB 3/4.

3.2 The RWB is a RW-IIa structure and will withstand design basis loads listed in Regulatory Guide 1.143 without loss of structural integrity.

Inspections, Tests, Analyses, and Acceptance Criteria

Table 2.1.4-1 lists the RWB ITAAC.

Table 2.1.4-1—Radioactive Waste Processing Building ITAAC

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
2.1	The basic configuration of the RWB is shown on Figure 2.1.4-1.	An inspection of the basic configuration of the as-built RWB will be performed.	The basic configuration of the RWB is as shown on Figure 2.1.4-1.
3.1	Separation is provided between the RWB and EPGB 3/4 as shown on Figure 2.1.4-1 to preclude interaction between the RWB and EPGB 3/4.	An inspection will be performed to verify the as-built physical separation distance between the RWB and EPGB 3/4.	The RWB is separated from EPGB 3/4 as shown on Figure 2.1.4-1. A separation distance of at least 53 ft exists between the RWB and EPGB 3/4.
3.2	The RWB is a RW-IIa structure and will withstand design basis loads listed in Regulatory Guide 1.143 without loss of structural integrity.	An inspection and analysis will be performed to verify the as-built RWB will withstand design basis loads without loss of structural integrity.	A report concludes that the RWB will withstand the design basis loads listed in Regulatory Guide 1.143 without loss of structural integrity.

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