2.1.3 Nuclear Auxiliary Building

1.0 Description

The Nuclear Auxiliary Building (NAB) is a reinforced-concrete structure that houses non-safety related auxiliary systems required for normal power operation. There are no structures, systems, or components (SSC) required for safe shutdown located in the NAB. The NAB is located adjacent to the Fuel Building (FB), Safeguard Building (SB) Division 4, and Radioactive Waste Building (RWB), as shown on Figure 2.1.3-1. 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 NAB is located adjacent to the FB, SB Division 4, and the RWB as shown on Figure 2.1.3–1.

3.0 Key Design Features

3.1 The NAB is designed to prevent failure onto the adjacent FB or SB Division 4 under design basis SSE and tornado wind loading conditions.

3.2 Seismic separations are provided between the NAB and the NI common basemat structures as shown on Figure 2.1.3-1 to preclude seismic interaction between the NAB and NI common basemat structures.

4.0 Inspections, Tests, Analyses, and Acceptance Criteria

Table 2.1.3-1 lists the NAB ITAAC.

Table 2.1.3-1—Nuclear Auxiliary Building ITAAC

Commitment Wording		Inspections, Tests, Analyses	Acceptance Criteria
2.1	The NAB is located adjacent to the FB, SB Division 4, and the RWB as shown on Figure 2.1.3–1.	An inspection of the NAB will be performed.	The as-built NAB location is as shown on Figure 2.1.3-1.
3.1	The NAB is designed to prevent failure onto the adjacent FB or SB Division 4 under design basis SSE and tornado wind loading conditions.	An analysis will be performed to confirm the NAB is designed to prevent failure onto the adjacent FB or SB Division 4 under design basis SSE and tornado wind loading conditions. During construction, deviations from the approved design will be reconciled with the building analysis..	The as-built NAB is designed to prevent failure onto the adjacent FB or SB Division 4 under design basis SSE and tornado wind loading conditions.
3.2	Seismic separations are provided between the NAB and the NI common basemat as shown on Figure 2.1.3-1 to preclude seismic interaction between the NAB and NI common basemat structures.	An inspection of the NAB will be performed. a. An analysis will be performed based on site specific conditions to define the minimum acceptable separation. b. An inspection of the site layout for the building (prior to construction) will be performed to verify that the minimum acceptable separation is provided.	The as-built NAB location is as shown on Figure 2.1.3-1. a. A report exists that defines the minimum acceptable separation prior to any settlement occurring. b. The site layout of the buildings provides the minimum separation required.

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