

## 2.1.3 Nuclear Auxiliary Building

### Design Description

#### 1.0 System 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.

#### 2.0 Arrangement

2.1 The basic configuration of the NAB is as shown on Figure 2.1.3-1—Nuclear Auxiliary Building Location.

#### 3.0 Mechanical Design Features

3.1 The NAB is Seismic Category II and will withstand design basis safe shutdown earthquake (SSE) and tornado wind loadings without failure onto the adjacent FB or SB Division 4.

3.2 Separation is provided between the NAB and the NI common basemat as shown on Figure 2.1.3-1 to preclude interaction between the NAB and NI common basemat structures.

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

Table 2.1.3-1 lists the NAB ITAAC.

**Table 2.1.3-1—Nuclear Auxiliary Building ITAAC**

	<b>Commitment Wording</b>	<b>Inspections, Tests, Analyses</b>	<b>Acceptance Criteria</b>
2.1	The basic configuration of the NAB is as shown on Figure 2.1.3-1.	An inspection of the basic configuration of the as-built NAB will be performed.	The basic configuration of the NAB is as shown on Figure 2.1.3-1.
3.1	The NAB is Seismic Category II and will withstand design basis SSE and tornado wind loadings without failure onto the adjacent FB or SB Division 4.	An inspection and analysis will be performed to verify the as-built NAB will withstand design basis SSE and tornado wind loadings without failure onto the adjacent FB or SB Division 4.	A report concludes that the NAB will withstand design basis SSE and tornado wind loadings without failure onto the adjacent FB or SB Division 4.
3.2	Separation is provided between the NAB and the NI common basemat as shown on Figure 2.1.3-1 to preclude interaction between the NAB and NI common basemat structures.	An inspection will be performed to verify the as-built physical separation between the NAB and the NI common basemat.	The NAB is separated from the NI common basemat as shown on Figure 2.1.3-1. A minimum separation distance of 18 inches exists between the NAB and NI common basemat.