

Table 1. Current Design Basis Flood Hazards for Use in the MSA

Mechanism	Stillwater Elevation	Waves/ Runup	Design Basis Hazard Elevation	Reference
Local Intense Precipitation	760.4 ft msl	0.0 ft	760.4 ft msl	FHRR Section 1.2.1
Streams and Rivers Reservoir Level at Cowans Ford Dam	767.9 ft msl	5.1 ft	773.0 ft msl	FHRR Section 1.2.2 FHRR Section 1.2.8 (Table 1.2.8-1)
Failure of Dams and Onsite Water Control/Storage Structures Upstream Dam Failures (combined event)	762.6 ft msl	5.1 ft	767.7 ft msl	FHRR Section 1.2.3 FHRR Section 1.2.3 (Table 1.2.8-1)
Standby Nuclear Service Water Pond (combined event)	746.9 ft msl	1.5 ft	748.4 ft msl	FHRR Table 3-1
Standby Nuclear Service Water Pond Dam Downstream (combined event)	727.8 ft msl	Not applicable	727.8 ft msl	FHRR Table 3-1
Storm Surge Surge in Lake Norman	760.0 ft msl	14.8 ft	774.8 ft msl	FHRR Section 1.2.4
Seiche	No Impact on the Site Identified	No Impact on the Site Identified	No Impact on the Site Identified	FHRR Section 1.2.4
Tsunami	Not included in DB	Not included in DB	Not included in DB	FHRR Section 1.2

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Mechanism	Stillwater Elevation	Waves/ Runup	Design Basis Hazard Elevation	Reference
Ice-Induced Flooding	Not included in DB	Not included in DB	Not included in DB	FHRR Section 1.2
Channel Migrations/Diversions	Not included in DB	Not included in DB	Not included in DB	FHRR Section 1.2

Note 1: Reported values are rounded to the nearest one-tenth of a foot.

Note 2: The wave hieght value of 5.1 ft for the Streams and Rivers, and Upstream Dam Failures (combined event) is wave setup plus runup.

Table 2. Reevaluated Flood Hazards for Flood-Causing Mechanisms for Use in the MSA

Mechanism	Stillwater Elevation	Waves/ Runup	Reevaluated Hazard Elevation	Reference
Local Intense Precipitation	761.1 ft msl	Minimal	761.1 ft msl	FHRR Section 2.1
Streams and Rivers River PMF in Lake Norman	777.9 ft msl	Not applicable	777.9 ft msl	FHRR Section 2.2 and 2.8
Failure of Dams and Onsite Water Control/Storage Structures Upstream Dam Failures (combined event)	778.5 ft msl	Not applicable	778.5 ft msl	FHRR Section 2.3 and 2.8
Standby Nuclear Service Water Pond Dam Downstream (combined event)	735.9 ft msl	0.9 ft	736.8 ft msl	FHRR Tables 2.4.2-1 and 2.4.2-2
Storm Surge	778.5 ft msl	0.0 ft	778.5 ft msl	FHRR Table 3-1 FHRR Section 2.4.1 (Table 2.4.1-1)

Note 1: The licensee is expected to develop flood event duration parameters and applicable flood associated effects to conduct the MSA. The staff will evaluate the flood event duration parameters (including warning time and period of inundation) and flood associated effects during its review of the MSA.

Note 2: Reevaluated hazard mechanisms bounded by the current design basis (see Table 1) are not included in this table.

Note 3: Reported values are rounded to the nearest one-tenth of a foot.