

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				
Unit 1 Side of the Yard	594.7 ft msl	Minimal	594.7 ft msl	Response to NRC Request for Additional Information Regarding the FHRR, dated July 28, 2015 (ADAMS Accession No. ML15222A535)
Unit 2 Side of the Yard	594.7 ft msl	Minimal	594.7 ft msl	Response to NRC Request for Additional Information Regarding the FHRR, dated July 28, 2015 (ADAMS Accession No. ML15222A535)
Streams and Rivers				
Lake Wylie CNS Intake	581.1 ft msl	Not applicable	581.1 ft msl	FHRR Section 1.2.2 and Table 3-1
Standby Nuclear Service Water Pond Dam	583.5 ft msl	1.0 ft	584.5 ft msl	FHRR Section 1.2.2
Failure of Dams and Onsite Water Control/Storage Structures				
Lake Wylie CNS Intake (Combined Effects)	592.4 ft msl	1.5 ft	593.9 ft msl	FHRR Table 1.2.8-1
Standby Nuclear Service Water Pond (Combined Effects)	592.4 ft msl	2.2 ft	594.6 ft msl	FHRR Table 1.2.8-1
Allison Creek CNS Discharge (Combined Effects)	592.4 ft msl	1.2 ft	593.6 ft msl	FHRR Table 1.2.8-1
Storm Surge				
Lake Wylie Storm Surge and Seiche	569.4 ft msl	8.4 ft	577.8 ft msl	FHRR Section 1.2.4

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Mechanism	Stillwater Elevation	Waves/ Runup	Design Basis Hazard Elevation	Reference
Seiche	No Impact on the Site Identified	No Impact on the Site Identified	No Impact on the Site Identified	FHRR Section 1.2
Tsunami	Not included in DB	Not included in DB	Not included in DB	FHRR Section 1.2
Ice-Induced Flooding	No Impact on the Site Identified	No Impact on the Site Identified	No Impact on the Site Identified	FHRR Section 1.2
Channel Migrations/Diversions	No Impact on the Site Identified	No Impact on the Site Identified	No Impact on the Site Identified	FHRR Section 1.2

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

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				
Unit 1 Side of the Yard	595.5 ft msl	Minimal	595.5 ft msl	FHRR Section 2.1 and Table 3-1
Unit 2 Side of the Yard	595.6 ft msl	Minimal	595.6 ft msl	FHRR Section 2.1
Streams and Rivers				
Lake Wylie CNS Intake	590.7 ft msl	Not applicable	590.7 ft msl	FHRR Section 2.2.2
Standby Nuclear Service Water Pond Dam (LIP)	583.0 ft msl	0.8 ft	583.8 ft msl	FHRR Section 2.4.1 and Table 2.4.3-1
Failure of Dams and Onsite Water Control/Storage Structures				
Lake Wylie CNS Intake (Combined Effects)	602.2 ft msl	1.0 ft	603.2 ft msl	FHRR Section 2.8.1, Table 3-1, and Table 2.8.1-1
Standby Nuclear Service Water Pond (Combined Effects)	602.2 ft msl	1.0 ft	603.2 ft msl	FHRR Table 2.4.2-1 and Table 3-1 FHRR Table 2.8.1-1
Allison Creek CNS Discharge (Combined Effects)	599.8 ft msl	Not applicable	599.8 ft msl	FHRR Table 2.3.2-4 and Table 3-1

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.