

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	14.5 ft NGVD29	Minimal	14.5 ft NGVD29	FHRR Table 1.2-1
Streams and Rivers	No Impact on the Site Identified	No Impact on the Site Identified	No Impact on the Site Identified	FHRR Table 1.2-1
Failure of Dams and Onsite Water Control/Storage Structures	Not included in DB	Not included in DB	Not included in DB	FHRR Sections 2.3.3 & 3.3
Storm Surge				
Storm Surge (standing wave) within the Intake Structure for Unit 2	26.5 ft NGVD29	Not applicable	26.5 ft NGVD29	FHRR Sections 1.5 and 3.4
Storm Surge at the Powerblock	18.1 ft NGVD29	7.0 ft	25.1 ft NGVD29	FHRR Section 3.9 and FHRR Table 3.0-1 FHRR Table 1.2-1
Seiche	No Impact on the Site Identified	No Impact on the Site Identified	No Impact on the Site Identified	FHRR Table 1.2-1
Tsunami	Not included in DB	Not included in DB	Not included in DB	FHRR Table 1.2-1
Ice-Induced Flooding	No Impact on the Site Identified	No Impact on the Site Identified	No Impact on the Site Identified	FHRR Table 1.2-1

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Mechanism	Stillwater Elevation	Waves/ Runup	Design Basis Hazard Elevation	Reference
Channel Migrations/Diversions	No Impact on the Site Identified	No Impact on the Site Identified	No Impact on the Site Identified	FHRR Table 1.2-1

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	17.5 ft NGVD29	Minimal	17.5 ft NGVD29	FHRR Section 3.1
Streams and Rivers	11.2 ft NGVD29	Not applicable	11.2 ft NGVD29	FHRR Section 2.2
Storm Surge	Under Review	Under Review	Under Review	
Tsunami	14.7 ft NGVD29	Not applicable	14.7 ft NGVD29	FHRR Section 2.6

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.

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				
RWST/SIL Valve Enclosure	24.9 ft NGVD29	Minimal	24.9 ft NGVD29	FHRR Table 1.2-3 and Table 3.0-3
Demineralized Water Storage Tank Block House	24.9 ft NGVD29	Minimal	24.9 ft NGVD29	FHRR Table 1.2-3
Fuel Building	24.9 ft NGVD29	Minimal	24.9 ft NGVD29	FHRR Table 1.2-3
Auxiliary Building Door A-24-6	24.9 ft NGVD29	Minimal	24.9 ft NGVD29	FHRR Table 3.0-3
Engineered Safety Features Building	24.9 ft NGVD29	Minimal	24.9 ft NGVD29	FHRR Table 1.2-3
Hydrogen Recombiner Building	24.9 ft NGVD29	Minimal	24.9 ft NGVD29	FHRR Table 1.2-3
Main Steam Valve Building	24.9 ft NGVD29	Minimal	24.9 ft NGVD29	FHRR Table 1.2-3
Emergency Generator Enclosure	24.3 ft NGVD29	Minimal	24.3 ft NGVD29	FHRR Table 1.2-3
Auxiliary Building Door A-24-1	24.9 ft NGVD29	Minimal	24.9 ft NGVD29	FHRR Table 3.0-3
Control Building	24.3 ft NGVD29	Minimal	24.3 ft NGVD29	FHRR Table 1.2-3
Streams and Rivers				
	No Impact on the Site Identified	No Impact on the Site Identified	No Impact on the Site Identified	FHRR Table 1.2-2

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Failure of Dams and Onsite Water Control/Storage Structures	Not included in DB	Not included in DB	Not included in DB	FHRR Sections 2.3.3 & 3.3
Storm Surge				
Storm Surge at Seaward Wall of Intake Structure for Unit 3	19.7 ft NGVD29	21.5 ft	41.2 ft NGVD29	FHRR Section 3.9
Storm Surge at Powerblock	19.7 ft NGVD29	4.1 ft	23.8 ft NGVD29	FHRR Section 1.5 FHRR Table 1.2-2
Seiche	No Impact on the Site Identified	No Impact on the Site Identified	No Impact on the Site Identified	FHRR Table 1.2-2
Tsunami	Not included in DB	Not included in DB	Not included in DB	FHRR Table 1.2-2
Ice-Induced Flooding	No Impact on the Site Identified	No Impact on the Site Identified	No Impact on the Site Identified	FHRR Table 1.2-2
Channel Migrations/Diversions	No Impact on the Site Identified	No Impact on the Site Identified	No Impact on the Site Identified	FHRR Table 1.2-2

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
Streams and Rivers	11.2 ft NGVD29	Not applicable	11.2 ft NGVD29	FHRR Section 2.2
Storm Surge	Under Review	Under Review	Under Review	
Tsunami	14.7 ft NGVD29	Not applicable	14.7 ft NGVD29	FHRR Section 2.6

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.