

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	Not included in DB	Not included in DB	Not included in DB	FHRR Section 2.3.1
Streams and Rivers				
Probable Maximum Flooding from Rock Run Creek	Not included in DB	Not included in DB	Not included in DB	FHRR Section 2.3.2.2
Probable Maximum Flooding from Susquehanna River	131.4 ft NAVD88	Not applicable	131.4 ft NAVD88	FHRR Section 2.3.2.1
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
Failure of Dams and Onsite Water Control/Storage Structures				
REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
Storm Surge	Not included in DB	Not included in DB	Not included in DB	FHRR Section 2.3.4
Seiche	Not included in DB	Not included in DB	Not included in DB	FHRR Section 2.3.5
Tsunami	Not included in DB	Not included in DB	Not included in DB	FHRR Section 2.3.6

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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 2.3.7
Channel Migrations/Diversions	Not included in DB	Not included in DB	Not included in DB	FHRR Section 2.3.8

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				
Emergency Cooling Tower (Emergency Heat Sink)	127.0 ft NAVD88	Minimal	127.0 ft NAVD88	FHRR Section 3.1.3 & Table 3.1.3.1
Unit 3 Reactor Building Door 246	135.2 ft NAVD88	Minimal	135.2 ft NAVD88	FHRR Section 3.1.3 & Table 3.1.3.1
Unit 3 Reactor Building Door 244	135.4 ft NAVD88	Minimal	135.4 ft NAVD88	FHRR Section 3.1.3 & Table 3.1.3.1
Unit 3 Recirculation MG Set Room	135.9 ft NAVD88	Minimal	135.9 ft NAVD88	FHRR Section 3.1.3 & Table 3.1.3.1
Unit 2 Recirculation MG Set Room	135.9 ft NAVD88	Minimal	135.9 ft NAVD88	FHRR Section 3.1.3 & Table 3.1.3.1
Unit 2 Reactor Building Door 183	135.5 ft NAVD88	Minimal	135.5 ft NAVD88	FHRR Section 3.1.3 & Table 3.1.3.1
Unit 2 Reactor Building Door 198	135.2 ft NAVD88	Minimal	135.2 ft NAVD88	FHRR Section 3.1.3 & Table 3.1.3.1
Diesel Generator Building (SW)	132.0 ft NAVD88	Minimal	132.0 ft NAVD88	FHRR Section 3.1.3 & Table 3.1.3.1
Diesel Generator Building (SE)	127.5 ft NAVD88	Minimal	127.5 ft NAVD88	FHRR Section 3.1.3 & Table 3.1.3.1
Diesel Generator Building (NE)	117.6 ft NAVD88	Minimal	117.6 ft NAVD88	FHRR Section 3.1.3 & Table 3.1.3.1
Diesel Generator Building (NW)	120.8 ft NAVD88	Minimal	120.8 ft NAVD88	FHRR Section 3.1.3 & Table 3.1.3.1

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

Mechanism	Stillwater Elevation	Waves/ Runup	Reevaluated Hazard Elevation	Reference
Pump Structure	117.5 ft NAVD88	Minimal	117.5 ft NAVD88	FHRR Section 3.1.3 & Table 3.1.3.1
Storm Surge Conowingo Maximum Controlled Water Elevation Antecedent Condition	118.5 ft NAVD88	Not applicable	118.5 ft NAVD88	FHRR Section 3.4.3
Seiche Seiche in Length Direction (Conowingo Maximum Controlled Water Elevation Antecedent Condition)	112.8 ft NAVD88	Not applicable	112.8 ft NAVD88	FHRR Section 3.4.4 & Table 3.4.3.2.4
Seiche in Width Direction (Conowingo Maximum Controlled Water Elevation Antecedent Condition)	112.3 ft NAVD88	Not applicable	112.3 ft NAVD88	FHRR Section 3.4.4 & Table 3.4.3.2.4
Ice-Induced Flooding	111.5 ft NAVD88	Not applicable	111.5 ft NAVD88	FHRR Sections 3.7 & 3.7.3

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.