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

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 Table 3
Streams and Rivers				
Columbia River[2]	390.0 ft MSL	Minimal	390.0 ft MSL	FHRR Table 3
Local Drainage (Combined Effect)	431.1 ft MSL	2.2 ft	433.3 ft MSL	FHRR Table 3
Failure of Dams and Onsite Water Control/Storage Structures[2]				
Combined Effect	422.0 ft MSL	2 ft	424.0 ft MSL	FHRR Table 3
Storm Surge	No Impact on the Site Identified	No Impact on the Site Identified	No Impact on the Site Identified	FHRR Table 3
Seiche	No Impact on the Site Identified	No Impact on the Site Identified	No Impact on the Site Identified	FHRR Table 3
Tsunami	No Impact on the Site Identified	No Impact on the Site Identified	No Impact on the Site Identified	FHRR Table 3
Ice-Induced Flooding	No Impact on the Site Identified	No Impact on the Site Identified	No Impact on the Site Identified	FHRR Table 3

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

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 3

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

Note 2: These hazards remain within the Columbia River Basin, a separate sub-basin away from CGS. CGS is not exposed to these hazards due to intervening topography. This remains true for the re-evaluated hazards.

Table 2. Reevaluated Flood Hazards for Flood-Causing Mechanisms for Use in the MSA[1,2]

Mechanism	Stillwater Elevation	Waves/ Runup	Reevaluated Hazard Elevation	Reference
Local Intense Precipitation				
High point near Radwaste Building truck ramp	441.2 ft MSL	Minimal	441.2 ft MSL	FHRR Table 1
DG Building Exterior Door (DG2)	440.9 ft MSL	Minimal	440.9 ft MSL	FHRR Table 1
DG Building Exterior Door (DG1)	440.9 ft MSL	Minimal	440.9 ft MSL	FHRR Table 1
DG Building Exterior Door (HPCS DG)	440.9 ft MSL	Minimal	440.9 ft MSL	FHRR Table 1
Reactor Building railroad bay door	441.1 ft MSL	Minimal	441.1 ft MSL	FHRR Table 1
Service Water B pump house personnel door	441.0 ft MSL	Minimal	441.0 ft MSL	FHRR Table 1
Service Water B spray pond wall	435.2 ft MSL	Minimal	435.2 ft MSL	FHRR Table 1
Service Water A pump house personnel door	439.0 ft MSL	Minimal	439.0 ft MSL	FHRR Table 1
Service Water A spray pond wall	435.1 ft MSL	Minimal	435.1 ft MSL	FHRR Table 1
Roof drain (storm sewer) header manhole MH-S5	440.3 ft MSL	Minimal	440.3 ft MSL	FHRR Table 1
Vehicle Barrier System high point	438.0 ft MSL	Minimal	438.0 ft MSL	FHRR Table 1

Table 2. Reevaluated Flood Hazards for Flood-Causing Mechanisms for Use in the MSA[1,2]

Mechanism	Stillwater Elevation	Waves/ Runup	Reevaluated Hazard Elevation	Reference
Benchmark infront of TSC entrance	440.6 ft MSL	Minimal	440.6 ft MSL	FHRR Table 1
Benchmark in by NW remote air intake	441.0 ft MSL	Minimal	441.0 ft MSL	FHRR Table 1
Benchmark infront of GSB entrance	440.9 ft MSL	Minimal	440.9 ft MSL	FHRR Table 1
Benchmark infront of Building 88	440.6 ft MSL	Minimal	440.6 ft MSL	FHRR Table 1
North Side of Flex Building 82	440.6 ft MSL	Minimal	440.6 ft MSL	FHRR Table 1
North Side of Flex Building 600	437.8 ft MSL	Minimal	437.8 ft MSL	FHRR Table 1
South Side of Flex Building 600	438.0 ft MSL	Minimal	438.0 ft MSL	FHRR Table 1
ISFSI Pad (North)	443.3 ft MSL	Minimal	443.3 ft MSL	FHRR Table 1
ISFSI Pad (South)	443.3 ft MSL	Minimal	443.3 ft MSL	FHRR Table 1
Facilities Fuel Station	440.6 ft MSL	Minimal	440.6 ft MSL	FHRR Table 1
Diesel Generator Tank Access	442.1 ft MSL	Minimal	442.1 ft MSL	FHRR Table 1
Flex Gasoline Storgae Module	440.8 ft MSL	Minimal	440.8 ft MSL	FHRR Table 1

Table 2. Reevaluated Flood Hazards for Flood-Causing Mechanisms for Use in the MSA[1,2]

Mechanism	Stillwater Elevation	Waves/ Runup	Reevaluated Hazard Elevation	Reference
Streams and Rivers				
Local Drainage	432.0 ft MSL	Minimal	432.0 ft MSL	FHRR Table 3

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

Note 2: Reported values are rounded to the nearest one-tenth of a foot.