

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

| <b>Mechanism</b>   | <b>Stillwater Elevation</b> | <b>Waves/ Runup</b> | <b>Design Basis Hazard Elevation</b> | <b>Reference</b>     |
|--|-----------------------------|---------------------|--------------------------------------|----------------------|
| <b>Local Intense Precipitation</b>                                 | Not included in DB          | Not included in DB  | Not included in DB                   | FHRR Section 2.3.1   |
| <b>Streams and Rivers</b>  |                             |                     |                                      |                      |
| 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             |
| <b>Failure of Dams and Onsite Water Control/Storage Structures</b> |                             |                     |                                      |                      |
| REDACTED   | REDACTED                    | REDACTED            | REDACTED                             | REDACTED             |
| <b>Storm Surge</b>   | Not included in DB          | Not included in DB  | Not included in DB                   | FHRR Section 2.3.4   |
| <b>Seiche</b>  | Not included in DB          | Not included in DB  | Not included in DB                   | FHRR Section 2.3.5   |
| <b>Tsunami</b>   | Not included in DB          | Not included in DB  | Not included in DB                   | FHRR Section 2.3.6   |

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

| <b>Mechanism</b>                     | <b>Stillwater Elevation</b> | <b>Waves/ Runup</b> | <b>Design Basis Hazard Elevation</b> | <b>Reference</b>   |
|--------------------------------------|-----------------------------|---------------------|--------------------------------------|--------------------|
| <b>Ice-Induced Flooding</b>          | Not included in DB          | Not included in DB  | Not included in DB                   | FHRR Section 2.3.7 |
| <b>Channel Migrations/Diversions</b> | 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**

| <b>Mechanism</b>                              | <b>Stillwater Elevation</b> | <b>Waves/Runup</b> | <b>Reevaluated Hazard Elevation</b> | <b>Reference</b>                   |
|---|-----------------------------|--------------------|-------------------------------------|------------------------------------|
| <b>Local Intense Precipitation</b>            |                             |                    |                                     |                                    |
| 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**

| <b>Mechanism</b>   | <b>Stillwater Elevation</b> | <b>Waves/ Runup</b> | <b>Reevaluated Hazard Elevation</b> | <b>Reference</b>                     |
|--|-----------------------------|---------------------|-------------------------------------|--------------------------------------|
| Pump Structure   | 117.5 ft NAVD88             | Minimal             | 117.5 ft NAVD88                     | FHRR Section 3.1.3 & Table 3.1.3.1   |
| <b>Storm Surge</b>   |                             |                     |                                     |                                      |
| Conowingo Maximum Controlled Water Elevation Antecedent Condition                              | 118.5 ft NAVD88             | Not applicable      | 118.5 ft NAVD88                     | FHRR Section 3.4.3                   |
| <b>Seiche</b>  |                             |                     |                                     |                                      |
| 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 |
| <b>Ice-Induced Flooding</b>  |                             |                     |                                     |                                      |
|  | 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.