

## 2.2. SYMPTOMS

## NOTE

- Due to the time it takes to install flood barriers, approximately 32 hours, consideration should be given to installing the flood barriers per GMM-23-99-FLOODBARRIER as soon as permissible to allow maintenance department adequate time to complete the installation. Refer to ESR-14-0226, TEMPORARY TURBINE BUILDING FLOOD BARRIER INSTALLATION ESTIMATE for information as necessary.
- Lake level may be determined using markers attached to a metal pole mounted on the discharge canal bridge upstream of the submarine net. The high level markers are at lake levels of 252 ft. and 253 ft.
- Attachment 1, Site Elevation Map may be referred to for elevation reference.
- The following National Weather Service website may be referred to obtain precipitation forecasts: <http://www.wpc.ncep.noaa.gov/>.

2.2.1. The following are symptoms of **LEVEL 1** flooding conditions:

- $\geq 4$  inches of rain forecasted by the NWS Day 1, 95th percentile Probabilistic Quantitative Precipitation Forecasts (PQPF) over the first 24-hour period.
- 5 inches of rain over a 24 hour period forecasted in the next 3 days.
- Shift Manager discretion.

2.2.2. The following are symptoms of **LEVEL 2** flooding conditions:

- 4 inches of rain over the first 6-hour period forecasted by the NWS Day 1, 95th percentile PQPF.
- 10 inches of rain over a 24 hour period forecasted in the next 3 days.
- Lake level rises to a level of 252 ft, as noted in discharge canal and a continued rise is observed or expected.
- Flooding of Deer Creek reaches access road bridge handrail.
- Wave action causes water splashing over discharge canal wall OR pushes water over the armor stone.
- Flooding of the Screenhouse or Turbine Building Basement.
- Shift Manager discretion.

## 6.2. Protection – Level 1

**NOTE**

IF Level 2 Criteria are met at any time, **THEN** proceed to section 6.3 and complete section 6.2 after all actions in 6.3 are complete.

- 6.2.1. **NOTIFY** Plant Management that Restricted Site Access is imminent and that the Outage Control Center (OCC) should be activated to provide the following:
- Support operations with management of ER-SC.2 actions.
  - Identify additional actions that may be warranted based on current conditions.
  - Evaluate and establish additional resources as necessary.
  - Establish contingencies for 24 hour OCC staffing.
- 6.2.2. **DISPATCH** Equipment Operators to place flood barriers in ground level doorways per the following:
- SC-3.17, AUXILIARY BUILDING FLOOD BARRIER INSTALLATION/REMOVAL/INSPECTION
  - SC-3.17.1, SAFW ANNEX FLOOD BARRIER INSTALLATION/REMOVAL/INSPECTION
- 6.2.3. **PERFORM** the following to secure the Diesel Generator exterior personnel doors:
1. **NOTIFY** Security that the Diesel Generator exterior personnel doors cam-locks will be engaged AND Security Compensatory actions will be required.
  2. **CLOSE AND ENGAGE** cam-locks or **ENSURE 8 cams ENGAGED** on personnel doors located on the north wall of each Diesel Generator Room.

## 6.3. Protection – Level 2

**NOTE**

Installing the Auxiliary Building Flood barriers and placing the Emergency D/Gs on alternate cooling are required to be completed within 45 minutes of the Deer Creek water level reaching the handrails.

- 6.3.1. **IF** Wave action causes water splashing over the discharge canal wall **OR** pushes water over the armor stone, **THEN STATION** an Equipment Operator in the Screenhouse to monitor for flooding.
- 6.3.2. **DISPATCH** Equipment Operators to place flood barriers in ground level doorways per the following:
- SC-3.17, AUXILIARY BUILDING FLOOD BARRIER INSTALLATION/REMOVAL/INSPECTION (required to be completed within 45 minutes of water reaching the hand rails at the plant access road bridge)
  - SC-3.17.1, SAFW ANNEX FLOOD BARRIER INSTALLATION/REMOVAL/INSPECTION
- 6.3.3. **DISPATCH** Maintenance Personnel to place flood barriers in the following locations per GMM-23-99-FLOODBARRIER, FLOOD BARRIER INSTALLATION AND REMOVAL IN TURBINE BUILDING BASEMENT:
- Outside Battery Rooms around the condensate Booster Pumps.
  - Outside Emergency D/G Rooms Doors in Turbine Building Basement.
- 6.3.4. **PERFORM** the following to secure the Diesel Generator exterior personnel doors:
1. **NOTIFY** Security that the Diesel Generator exterior personnel doors cam-locks will be engaged and Security Compensatory actions will be required.
  2. **CLOSE AND ENGAGE** cam-locks or **ENSURE** 8 cams **ENGAGED** on personnel doors located on the north wall of each Diesel Generator Room.