

5A.5 FLOODING

Finished grade of the plant site is at Elevation 45', therefore no loads due to floods or inundation are considered.

The saltwater cooling system pump motors, located in the Intake Structure, are protected against the maximum hypothetical hurricane tide and storm surges including wave action. Maximum design wave runup is 28.5' above mean sea level.

The roof and roof hatches of the intake structure are designed for live load (250 psf), dead load (150 psf), tornado uplift (100 psf), Probably Maximum Hurricane waves (250 psf) and seismic load of 10% of the dead load acting downwards.

For all major structures below finish grades, a heavy waterproofing membrane of 40 mils thickness is provided at the exposed face of the exterior walls and below the base slab. Rubber waterstops are also provided at all construction joints up to grade elevation. Subsurface drains are provided to lower the elevation of ground water around the plant. All of these provisions are made to eliminate any possibility of flooding, by ground water infiltration, of equipment located below the elevation of highest flood water level.