SUBSECTION 2.4.14: TECHNICAL SPECIFICATION AND EMERGENCY OPERATION REQUIREMENTS

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2.4.14 TECHNICAL SPECIFICATION AND EMERGENCY OPERATION REQUIREMENTS

PTN COL 2.4-6 Units 6 & 7, together with its safety-related facilities, are designed to function and shut down in a safe manner despite the occurrence of any of the adverse hydrological events presented in the preceding subsections. Seismic Category I structures, systems, and components are designed to withstand the effects of flooding as a result of natural phenomena as addressed in DCD Subsection 3.4.1.1. The AP1000 design does not have a safety-related cooling water system and, therefore, does not rely on the service water and component cooling water systems to provide safety-related safe shutdown. The passive containment cooling system transfers heat directly from the steel containment vessel to the environment.

Flooding of the safety-related structures and facilities is not a concern for Units 6 & 7. The effects of the local probable maximum precipitation on drainage areas adjacent to the power block safety-related facilities, including the drainage from the roofs of the facilities, are evaluated in Subsection 2.4.2.3. The effects of probable maximum precipitation on Biscayne Bay and the resulting probable maximum flood (including wind setup, wave height, wave period and wave runup) are described in Subsection 2.4.3. The effects of wind-generated wave activity from a probable maximum hurricane are described in Subsection 2.4.5.

No emergency protective measures need to be designed to minimize the impact of adverse hydrology-related events on safety-related facilities.