

4.1 Ultimate Heat Sink

Interface Requirements

The Ultimate Heat Sink (UHS) removes the heat load of the Reactor Service Water (RSW) System during of plant operation. The UHS is not within the Certified Design. The UHS will meet the following requirements:

- (1) Provide cooling water to the RSW System for normal plant operation and to permit safe shutdown and cooldown of the plant and maintain the plant in a safe shutdown condition for design basis events.
- (2) Makeup water for the UHS shall not be required for at least 30 days following a design basis accident.
- (3) Any active safety-related system, structure, or components within the UHS shall have three divisions powered by their respective Class 1E divisions. Each division shall be physically separated and electrically independent of the other divisions.
- (4) UHS System Divisions A and B components shall have control interfaces with the Remote Shutdown System (RSS) as required to support UHS operation during RSS design basis conditions.
- (5) Be classified as Seismic Category I.