



Ultimate Heat Sink Technical Specification

June 25, 2001



CP&L

A Progress Energy Company

Ultimate Heat Sink Service Water Temperature

- Service Water Temperature Increase to $\leq 97^{\circ}$ F
 - ▶ Implemented May 24, 2000
- Proposed Required Action Permitting Operation with Service Water Temperature $\leq 99^{\circ}$ F
 - ▶ Submitted 6/5/00
 - ◆ Approval requested 4/30/01
 - ▶ Supplemented 8/4/00

Ultimate Heat Sink Service Water Temperature

- Remaining NRC Staff Review Areas
 - ▶ Emergency Diesel Generator capabilities
 - ▶ Potential equipment limitations of forced shutdown if Service Water temperature exceeds 99⁰ F

Ultimate Heat Sink Service Water Temperature

- Emergency Diesel Generator Capabilities
 - ▶ Analysis shows ability to carry design bases loads with Service Water temperature $\leq 99^{\circ}$ F
 - ▶ Analysis retains conservatism

Ultimate Heat Sink

Service Water Temperature

- Potential Equipment Limitations of Forced Shutdown if Service Water Temperature Exceeds 99° F
 - ▶ Service water temperature variations not indicative of UHS bulk temperature
 - ▶ Design Basis Accident (DBA) not assumed or credible during short time period of forced shutdown
 - ◆ Equipment analysis performed for continuous operation and DBA
 - ◆ Conservatism exist when compared to forced shutdown