

19.0 Response to Severe Accident Policy Statement

19.1 Purpose and Summary

The information in this section of the reference ABWR DCD, including all subsections, is incorporated by reference with ~~no~~ the following ~~departures or supplements~~.

STD DEP 10.4-5

19.1.2 Summary

STD DEP 10.4-5

Core damage is prevented by three divisions of the Emergency Core Cooling System (ECCS) including the Reactor Core Isolation Cooling System which can function for several hours without AC power. It also includes a reliable and proven reactor depressurization system. Feedwater, condensate booster and condensate pumps also provide protection against core damage. A gas turbine is also available as an alternative supply to key electrical loads. Although an AC-independent Firewater Addition System is incorporated in the design, no credit is taken for it in the calculation of core damage frequency. The calculated core damage frequency is extremely low.

