

19. CONCLUSIONS

In accordance with Subpart A, "Early Site Permits," of Title 10, Part 52, "Early Site Permits; Standard Design Certifications; and Combined Licenses for Nuclear Power Plants," of the *Code of Federal Regulations* (10 CFR Part 52), the U.S. Nuclear Regulatory Commission (NRC) staff reviewed the site safety analysis report and emergency planning information included in the early site permit (ESP) application submitted by Systems Energy Resources, Inc., for the Grand Gulf ESP site. On the basis of its evaluation and independent analyses, as discussed in this safety evaluation report (SER), the staff concludes that the Grand Gulf ESP site characteristics comply with the requirements of 10 CFR Part 100, "Reactor Site Criteria," with the limitations and conditions proposed by the staff in this SER for inclusion in any ESP that might be issued. Further, for the reasons set forth in this SER, the staff concludes that, taking into consideration the site criteria contained in 10 CFR Part 100, a reactor(s) having characteristics that fall within the parameters for the site, and which meets the terms and conditions proposed by the staff in this SER, can be constructed and operated without undue risk to the health and safety of the public. For the same reasons, the staff also concludes that issuance of the requested ESP will not be inimical to the common defense and security or to the health and safety of the public. If issued, the Grand Gulf ESP may be referenced in an application to construct and/or operate a nuclear power reactor(s) with a total generating capacity of up to 8600 megawatts (thermal) at the ESP site, subject to the terms and conditions of the permit.