

Regulatory Guide Periodic Review

Regulatory Guide Number: 1.32, Revision 3

Title: Criteria for Power Systems for Nuclear Power Plants

Office/division/branch: RES/DE/ICEEB
Technical Lead: Kenneth A. Miller

Staff Action Decided: Reviewed with no issues identified

1. What are the known technical or regulatory issues with the current version of the Regulatory Guide (RG)?

Revision 1 of RG 1.32, "Criteria for Power Systems for Nuclear Power Plants," dated March 2004, describes a method acceptable to the NRC staff for complying with the NRC's regulations for the design, operation, and testing of electric power systems in nuclear power plants. This revision endorses IEEE Standard 308-2001, "Criteria for Class 1E Power Systems for Nuclear Power Generating Stations," for satisfying the NRC's regulations with respect to the design, operation, and testing of safety-related power systems for nuclear power plants, except for sharing of dc power systems at multi-unit nuclear power plants, as described in Revision 1 of Regulatory Guide 1.81, "Shared Emergency and Shutdown Electric Systems for Multi-Unit Nuclear Power Plants." IEEE Standard 308-2012 was prepared and issued addressing newer plant designs, sometimes with more safety trains and with passive safety features which can reduce or eliminate the need for Class 1E ac generators. In general, the changes necessary to address newer designs were not significant. There are no known technical or regulatory issues.

2. What is the impact on internal and external stakeholders of not updating the RG for the known issues, in terms of anticipated numbers of licensing and inspection activities over the next several years?

Use of the current revision of RG 1.32 will have no known impact on internal or external stakeholders at this time.

3. What is an estimate of the level of effort needed to address identified issues in terms of full-time equivalent (FTE) and contractor resources?

In general, updating RG 1.32 is estimated to require approximately 80 - 120 hours of internal staff effort.

4. Based on the answers to the questions above, what is the staff action for this guide (Reviewed with no issues identified, Reviewed with issues identified for future consideration, Revise, or Withdraw)?

Reviewed with no issues identified.

5. Provide a conceptual plan and timeframe to address the issues identified during the review.

No issues identified during this review.

NOTE: This review was conducted in April 2017 and reflects the staff's plans as of that date. These plans are tentative and are subject to change.