

Regulatory Guide Periodic Review

Regulatory Guide Number: **1.155**
Revision number: **0**
Title: **Station Blackout**
Office/division/branch: **RES/DE/ICEEB**
Technical Lead: **Kenn Miller**
Staff Action Decided: **Reviewed with issues identified for future consideration**

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

The current version of RG 1.155 generally references IEEE Std. 765-1983 (765-2012 current version) "Preferred Power Supply (PPS) for Nuclear Power Generating Stations (NPGS)" Section 5.1.3 on Independence. The discussion of Independence in 765-2012 is the same as in 765-1983 so the RG 1.155 reference to 765-1983 presents no technical or regulatory issues.

In addition, RG 1.155 also generally references IEEE Std. 387-1984 (387-1995 current version) "IEEE Standard Criteria for Diesel-Generator Units Applied as Standby Power Supplies for Nuclear Power Generating Stations" for AC power system power reliability and its vulnerability to common cause failures. While 387-1995 provided additional detail on qualification, testing and reliability with respect to 387-1984, a new revision is in process with IEEE and should be going to ballot in the next six months. Therefore, since the reference in RG 1.155 to IEEE Std. 387 is in general terms and since a new version of IEEE Std. 387 is soon to be issued, a revision to RG 1.155 should be deferred until the new IEEE Std. 387 is issued.

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 version of RG 1.155 will have no known impact on internal or external stakeholders at this time.

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

There is no revision planned for the near term, so no LOE can be developed at this time.

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 issues identified for future consideration. A revision will be initiated upon issue of the next version of IEEE Std. 387

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

A plan and schedule will be developed upon issue of the next version of IEEE Std. 387.

NOTE: This review was conducted in Sept 2015 and reflects the staff's plans as of that date. These plans are tentative and are subject to change.