

**Periodic Review of Regulatory Guide 1.6, “Independence Between Redundant Standby (Onsite) Power Sources and Between Their Distribution Systems (Safety Guide 6),”
dated August 10, 1971.**

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

There are no known technical or regulatory issues with Regulatory Guide (RG) 1.6, “Independence Between Redundant Standby (Onsite) Power Sources and Between Their Distribution Systems (Safety Guide 6).” The RG contains high-level guidance that explains and expands on the requirements in General Design Criteria (GDC) 17, “Electric Power Systems” which states, in part ... *“The onsite electric power supplies, including the batteries, and the onsite electric distribution system, shall have sufficient independence, redundancy, and testability to perform their safety functions assuming a single failure.”* The RG provides examples of acceptable independence between redundant standby power sources and redundant distribution systems. The examples and regulatory positions in the RG are still applicable and suitable for nuclear power plants being designed or evaluated today.

The RG contains no references nor does it endorse any externally developed standards or other guidance documents. The scope of RG 1.6 is limited to independence of standby power sources and Class 1E distributions systems.

The last revision of the RG dates to 1971, which means Section A “Introduction,” Section B “Discussion,” and Section D “implementation” are not in accordance with the current format for RGs. However, there are no technical issues with the guidance and its language is clear.

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?

There are currently no known or anticipated licensing or inspection activities from internal or external stakeholders that will be impacted by not updating RG 1.6 at this time.

3. What is an estimation of the level of effort needed to address identified issues in terms of FTE and contract dollars?

Revising RG 1.6 will require approximately 40 staff hours to update the format to match the current RG template. No technical or regulatory revisions are needed at this time.

4. Based on the answers to the questions above, what is the proposed staff action for this RG? (See notes under drop down box)

The NRC staff recommends that RG 1.6 be considered acceptable for use at this time. A future revision to update the format, with issuance as a direct, final RG, should be considered when resources permit this effort.

5. If a RG should be revised, provide a conceptual plan and timeframe to accomplish this.

Not Applicable.

NOTE: This review was conducted in February 2014 and reflects the staff’s plans as of that date. Plans are tentative and subject to change.