

**U.S. NUCLEAR REGULATORY COMMISSION REQUEST FOR ADDITIONAL INFORMATION  
URENCO USA  
LICENSE AMENDMENT REQUEST 17-01**

Staff reviewed the submittal dated January 9, 2017, and determined that additional information is needed to perform a technical review. In particular, the licensee should supplement its License Amendment Request (LAR) with the following information:

- 1) Provide the technical basis for the diameter, slab thickness, and volume criteria added to Safety Analysis Report (SAR) Table 5.1-2.

Note that the values for tank diameter and volume are the same as other limits currently in the table; if considered applicable to tanks, address the conditions (contents, reflection, etc.) for tanks versus the equipment currently shown with those limits.

- 2) Provide the technical basis for the change from mass to enrichment control in SAR Section 5.1.2. This includes:
  - a) The change packages referred to in the submittal (CC-RW-2012-0001, Rev. 1, and CC-RW-2013-0003, Rev. 0)
  - b) The Nuclear Criticality Safety Assessment supporting the revised operation of the Liquid Effluent Collection and Transfer System (LECTS), including supporting calculations or analyses
  - c) The revised Integrated Safety Analysis Summary, if any changes were needed, for the changes to the LECTS
- 3) The basis for the change in the LAR states that "criticality is not credible when the tank is being controlled to 1wt% <sup>235</sup>U" and "there is no credible event leading to a criticality for an enrichment of 1wt% or less enrichment." These statements are only true if the enrichment is certain to be less than 1wt%. Address the potential for a greater enrichment as an abnormal condition. (This may be included in the references under Item 2 above.)
- 4) The change to SAR Section 5.1.2 puts it in apparent conflict with SAR Section 5.2.1.3.2, which states: "Enrichment is controlled to limit the percent <sup>235</sup>U within any process vessel or container to the LES license limit except for the systems and components associated with a cascade dump." Resolve this inconsistency.

Enclosure