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% ^{235}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 ^{235}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