

**From:** [Sayoc, Emmanuel](#)  
**To:** [Paul Aitken](#); "[Eric A Blocher](#)"  
**Cc:** [Wu, Angela](#)  
**Subject:** Draft RAI 4.7.3-7 Surry SLR 4.7.3 LBB TLAA  
**Date:** Friday, June 07, 2019 10:51:43 PM  
**Attachments:** [RAI 4.7.3-7 Surry SLR 4.7.3 LBB TLAA.docx](#)

---

Paul, Eric, draft RAI attached.

Clarification call soon.

Thanks

Manny

## **RAI 4.7.3-7**

### Regulatory Basis

In accordance with 10 CFR 54.21(c)(1), the applicant shall provide a list of time-limited aging analyses (TLAAs), as defined in 10 CFR 54.3. The applicant shall demonstrate that: (i) the analyses remain valid for the period of extended operation; (ii) the analyses have been projected to the end of the period of extended operation; or (iii) the effects of aging on the intended function(s) will be adequately managed for the period of extended operation.

### Background

SLRA Section 4.7.3 addresses a TLAA on leak-before break (LBB) for the reactor coolant system (RCS) primary loop. Dominion (applicant) indicated that the LBB analysis for 80 years of operation is documented in WCAP-15550, Revision 2. WCAP-15550, Revision 2 identifies three elbow locations (locations 3, 6 and 15) as critical locations in the LBB analysis.

### Issue

WCAP-15550, Revision 0 (August 2000) is the basis document for the 60-year LBB analysis of the Surry plant, as indicated in Section IV.1.B.vii.2 of the Surry power uprate application dated January 27, 2010. WCAP-15550, Revision 0 indicates that location 4 is one of the critical elbow locations for the 60-year LBB analysis. In contrast, WCAP-15550, Revision 2 indicates that location 3 is one of the critical elbow locations instead of location 4.

### Request

Provide the basis for the change to the critical elbow location from location 4 (WCAP-15550, Revision 0) to location 3 (WCAP-15550, Revision 2) to confirm that location 3 is the highest stressed elbow location for the hot leg.