

Allen, William

From: Tripathi, Bhasker
Sent: Tuesday, July 24, 2012 4:24 PM
To: Allen, William
Cc: Pstrak, David
Subject: RAI round # 1 for SAFEKEG-LS 3979A is attached 7-24-2012 1624]<EOM>
Attachments: SAFEKEG-LS 3979A RAI Round # 1.docx

Importance: High

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CROFT SAFEKEG-LS 3979A, Update to Revision 3

[Docket No: 71-9337], Certificate Number: 9337, TAC NO: L24639

Request for Additional Information (RAI) Round # 1

Prepared By: Bhasker (Bob) P. Tripathi

Date: 7-24-2012

Chapter 2: Structural Evaluation:

2.1 Provide Table 2-41 mentioned on Page 2-56 of document CTR 2008/10 Rev. 3.

The SAFEKEG-LS 3979A cask is a package (for the transportation of radioisotopes used in a wide range of medical applications and research) which consists of an outer stainless steel keg and inner containment vessel with insulating cork packing. Staff needs to verify the adequacy of the package subjected to the deep water immersion test required for all packages.

This information is required by the staff to determine compliance with 10 CFR 71.73(c)(6).

2.2 The lowest design margin calculated is 0.28, as reported in Document CTR 2008/10 Rev. 3, Page 2-37 Table 2-29. This margin is indicated for NCT, free drop on side, in hot condition. The governing stress type shown is for bearing stress under the bolts.

The applicant needs to elaborate and justify the following statement on page 2-34 that contradicts the assertion in Table 2-29 mentioned above: "The g values applied to the model for the drop on the side of the package are low; however the results are bounded by the results of the drop on the corner of the package as the corner drop test has far higher g values applied".

This information is required by the staff to determine compliance with 10 CFR 71.71(c)(7).

2.3 Provide VECTRA Report 925-3272/R1 (Section 2.12.2) to verify the adequacy of "Stress linearization" post-processing feature using ABAQUS.

Staff needs this reference to complete their review of structural adequacy of the package.

This information is required by the staff to determine compliance with 10 CFR 71.71 and 71.73.

Observations:

1) In the Document CTR 2008/10 Rev. 3, Page 2-18, Section 2.3-1: Change AMSE section IX to ASME Section IX.

2) In the Document CTR 2008/10 Rev. 3, Page 2-26, Section 2.6.2 last sentence change the word "and" to "at".