

From: Garcia Santos, Norma

Sent: Monday, July 10, 2017 9:48 AM

To: 'Thompson, Chad E' <Chad.Thompson@nnsa.doe.gov>

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Subject: Model No. 380-B, CoC, R. 0 - Follow Up Request For Additional Information after Telephone Call on July 6, 2017

Dear Mr. Thompson:

By dated April 6, 2016 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML16102A136), as supplemented on October 13, 2016 (ADAMS Accession No. ML16294A260), October 20, 2016 (ADAMS Accession No. ML16301A022), the National Nuclear Security Administration (NNSA or the applicant) submitted an application for the Model No. 380-B package. In June 2017, the applicant submitted a response to a request for additional information (RAI) in accordance with 10 CFR Part 71. The U.S. Nuclear Regulatory Commission (NRC) staff reviewed the information provided and concluded that additional information is needed to supplement the responses to the RAIs.

On July 6, 2017, the staff held a telephone call with the applicant to discuss questions related to RAIs No. RAI M-4, RAI M-5, RAI M-6, RAI M-13, and RAI M-16. In the July 6 telephone call, the applicant agreed to provide the following information, to further address RAIs referenced in this email:

RAI M-4 Revise Section 7 of the application to add a requirement to verify that the sources (payload) as well as the packaging cavity are dry prior to loading. Provide revisions to the application as part of your response.

RAI M-5 Since the applicant removed the term "forging" from the description of items in the drawings, revise the application to ensure that the term "forging" (as applicable to the components described in the drawings) is removed from the application, as applicable. For graphics related to code runs including the word "forging," the applicant can add a clarification note to ensure that terms are used consistently through the application or can re-run the code, if appropriate. Examples in which the term "forging" that refers to either the upper or base forging or "forgings" that refers to both the upper and base forgings appear in Revision 1 of the application are the following:

1. Section 2.7.1.2, page 2.7-8
2. Section 2.12.4.4.7, page 2.12.4-12
3. Figure 2.12.4-40, page 2.12.4-42
4. Figure 2.12.4-44, page 2.12.4-44
5. Figure 2.12.4-44a, page 2.12.4-45
6. Figure 2.12.4-44b, page 2.12.4-45
7. Figure 2.12.4-66, page 2.12.4-57
8. Table 5.3-1, page 5.3-3

Provide revisions to the application as part of your response.

- RAI M-6 Provide the proper justification for the temperature dependent material properties of ASTM A276. Provide revisions to the application as part of your response.
- RAI M-13 Provide a complete response to the application including explaining the changes in the application to address this question.
- RAI M-16 Since the applicant changed its approach, provide the information identified in NUREG\CR-3854, Section 3.2.1, "Acceptance Testing for the Gamma Shield." This information needs to be incorporated into the information.

You may contact me at (301) 415-6999 or by e-mail if you have any questions regarding this review.

Sincerely,

Norma Garcia Santos

Project Manager

Division of Spent Fuel Management

Office of Nuclear Material Safety

and Safeguards

U.S. NRC

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