

March 21, 2014

Mr. Steven E. Sisley
Cask Licensing Manager
EnergySolutions
2105 South Boston Ave.
Suite 230
Campbell, CA 95008

SUBJECT: APPLICATION FOR CERTIFICATE OF COMPLIANCE FOR THE MODEL NO.
3-60B PACKAGE – SUPPLEMENTAL INFORMATION REQUESTED

Dear Mr. Sisley:

By letter dated January 30, 2014, you submitted an application to amend Certificate of Compliance No. 9321 for the Model No. 3-60B package. Staff performed an acceptance review of the application to determine if it contained sufficient technical information in scope and depth to allow the staff to complete the detailed technical review.

This letter is to advise you that, based on our acceptance review, the application does not contain sufficient technical information. The information needed to continue our review is described in the enclosure to this letter as Request for Supplemental Information (RSIs). In order to schedule our technical review, the RSI responses should be provided by April 4, 2014. If the RSI responses are not received by this date, the review of this application may be delayed. Staff included observations to allow you more time to address items which may be asked at a later date. Observations are not the result of a detailed technical review and may be resolved once staff begins a detailed review. Responses to observations are not required for staff to begin a detailed technical review. This letter also confirms our phone call on March 20, 2014, with respect to the supplemental information needed. If you have any questions regarding this matter, please contact me at (301) 287-9225.

Sincerely,

/RA/

Chris Allen, Project Manager
Licensing Branch
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety
and Safeguards

Docket No. 71-9321
TAC No. L24883

Enclosure: Request for Supplemental Information

Mr. Steven E. Sisley
Cask Licensing Manager
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Enclosure: Request for Supplemental Information

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DATE:	3/20/14		3/20/14		3/21/2014					

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EnergySolutions

DOCKET NO. 71-9321

REQUEST FOR SUPPLEMENTAL INFORMATION

Thermal

1. Provide further justification that the previous application's thermal analyses bound the proposed changes in the current application, or provide the following documentation that supports the Chapter 3 thermal analyses:
 - a) ANSYS input and output files (.db, text readable files, etc.)
 - b) Energy Solutions Document No. TH-022, Rev. 1 (steady-state NCT thermal analyses of 3-60B cask)
 - c) Energy Solutions Document No. TH-023, Rev. 3 (HAC thermal analyses of 3-60B cask).

The above files and documents would provide model details and help staff perform a thermal review if the previous amendment's thermal analyses do not bound the proposed changes.

This information is needed to determine compliance with 10 CFR 71.33.

2. Provide allowable temperatures, and their references, for seals and impact limiter foam.

In order to perform a thermal review, the allowable temperature of the impact limiter foam should be provided so that it can be compared with calculated values. Likewise, references that list the allowable temperatures of the foam and various seal materials should be provided for verification.

This information is needed to determine compliance with 10 CFR 71.33.

Observations

Thermal

1. Clarify whether the maximum temperature of the seals during NCT and HAC include all of the seals, such as lid, drain, etc.

Table 3-1 and Table 3-2 provide a maximum seal temperature during NCT and HAC, respectively, but there is no indication that this represents the maximum value of all the seals used in the package.

This information is needed to determine compliance with 10 CFR 71.33.

Structural & Materials

1. Provide a classification for all structures, systems, and components (SSCs), including welds, according to their importance to safety. Engineering justification should be provided for weld classification based on their role in the package.

All SSCs should be identified as either important to safety (ITS) or not important to safety (NITS), either in the SAR or on the licensing drawings. ITS components should be further categorized into one of three classification categories (A, B, or C), based on the component's importance to safety. Further guidance can be found in NUREG/CR-6407: "Classification of Transportation Packaging and Dry Spent Fuel Storage System Components According to Importance to Safety." Note also that per NUREG-CR-6407: "Welds that join a component (such as a cylinder longitudinal seam weld) are the same classification as the components they are a part of."

This information is needed to ensure compliance with requirements in 10 CFR 71.101(b) and 71.107(a).

2. Verify correct referencing to a Quality Assurance Program in Section 8.1.5, "Component and Material Tests."

The section references a Quality Assurance Program as detailed in Appendix B of 10 CFR Part 71. Appendix B does not exist. The Quality Assurance Program is detailed in Subpart H of 10 CFR Part 71.

This information is needed to ensure compliance with requirements in 10 CFR 71.7(a).