

May 25, 2016

Mr. Troy Hedger, President  
Alpha-Omega Services, Inc.  
9156 Rose Street  
P.O. Box 789  
Bellflower, CA 90706

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE  
MODEL NOS. AOS-25A, AOS-50A, AOS-100A, AOS-100B, AND AOS-100A-S  
PACKAGES

Dear Mr. Hedger:

By letter dated March 16, 2016, Alpha-Omega Services, Inc. (AOS) submitted an amendment request to Certificate of Compliance No. 71-9316 for the Model Nos. AOS-25A, AOS-50A, AOS-100A, AOS-100B, and AOS-100A-S packages.

In connection with the staff's review of the application "AOS Radioactive Material Transport Packaging System Safety Analysis Report," Report No. AOS-FM9054, Revision No. H1, dated March 11, 2016, we need the information identified in the enclosure to this letter. We request that you provide this information by June 15, 2016. If you are unable to meet this deadline, you must notify us in writing no later than June 3, 2016, of your submittal date and the reasons for the delay. The staff will then assess the impact of the new submittal date and notify you of a revised schedule.

Please reference Docket No. 71-9316 and TAC No. L25099 in future correspondence related to this request. The staff is available to meet with you to discuss your proposed responses. If you have any questions regarding this matter, I may be contacted at (301) 415-7505.

Sincerely,

**/RA/**

Pierre Saverot, Project Manager  
Spent Fuel Licensing Branch  
Division of Spent Fuel Management  
Office of Nuclear Material Safety  
and Safeguards

Docket No. 71-9316  
TAC No. L25099

Enclosure: Request for Additional Information

Mr. Troy Hedger, CEO  
Alpha-Omega Services, Inc.  
9156 Rose Street  
P.O. Box 789  
Bellflower, CA 90706

May 25, 2016

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE MODEL NOS. AOS-25A, AOS-50A, AOS-100A, AOS-100B, AND AOS-100A-S PACKAGES

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Pierre Saverot, Project Manager  
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Docket No. 71-9316  
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Enclosure: Request for Additional Information  
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**ADAMS Accession No. : ML16147A551**

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<b>NAME:</b>	PSaverot		YKim		JPiotter		SFiguroa		BHWhite for SRuffin			
<b>DATE:</b>	05/18/2016		05/19/2016		05/23/2016		05/23/2016		05/25/2016			

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Request for Additional Information  
for the  
Model Nos. AOS-25A, AOS-50A, AOS-100A,  
AOS-100B, AND AOS-100A-S PACKAGES  
Docket No. 71-9316

By application dated August March 16, 2016, Alpha-Omega Services, Inc. (AOS) submitted an amendment request for the Model Nos. AOS-25A, AOS-50A, AOS-100A, AOS-100B, and AOS-100A-S packages.

This Request for Additional Information (RAI) identifies information needed by the staff in connection with its review of the "AOS Radioactive Material Transport Packaging System Safety Analysis Report for Model Nos. AOS-025, AOS-050, and AOS-100 Transport Packages," Report No. AOS-FM9054, Revision No. H1, dated March 11, 2016. The requested information is listed by chapter number and title in the applicant's Safety Analysis Report. The staff reviewed the application using the guidance in NUREG 1609, "Standard Review Plan for Transportation Packages for Radioactive Material."

Each individual RAI section describes information needed by the staff to complete its review of the application and to determine whether the applicant has demonstrated compliance with the regulatory requirements.

## **Chapter 2 – Structural Evaluation**

- 2-1 Provide detailed technical information for the stress analysis of the axial shielding plate for the Model Nos. AOS-100A and AOS-100A-S packages.

The application does not provide technical justifications for the selection of the simple support beam with its location. In addition, it does not provide detailed technical information such as: (i) whether or not masses above the axial shielding plate (e.g., cavity spacer plate, etc.) were considered in the analysis under hypothetical accident conditions, and (ii) whether a detailed finite element analysis with proper boundary conditions would be more conservative and provide a more realistic approach than the simply supported beam model analysis.

A complete understanding of the structural analysis is needed for staff to complete its review.

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

- 1-2 Provide detailed technical information for the stress analysis of the cavity spacer plate for the Model Nos. AOS-100A and AOS-100A-S packages.

The application does not provide detailed technical information (i.e., boundary conditions, loading conditions and material properties, etc.) used in the analysis. Also, the application does not provide the results of the analysis (e.g., the maximum

deformations of the cavity spacer plate, and the shielding material in the vertical and horizontal directions, etc.).

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