

October 26, 2012

Mr. Steven E. Sisley  
EnergySolutions  
Spent Fuel Division  
2105 S. Bascom Ave., Suite 230  
Campbell, CA 95008

SUBJECT: CERTIFICATE OF COMPLIANCE NO. 9276, REVISION NO. 4, FOR THE  
MODEL FUELSOLUTIONS™ TS125 TRANSPORTATION PACKAGE

Dear Mr. Sisley:

As requested by your application dated September 10, 2012, enclosed is Certificate of Compliance No. 9276, Revision No. 4, for the Model No. FuelSolutions™ TS125 Transportation Package. Changes made to the enclosed certificate are indicated by vertical lines in the margin. The staff's Safety Evaluation Report is also enclosed.

The approval constitutes authority to use the package for shipment of radioactive material and for the package to be shipped in accordance with the provisions of 49 CFR 173.471.

If you have any questions regarding this certificate, please contact me or Huda Akhavannik of my staff at (301) 492-3273.

Sincerely,

**/RA/**  
Michael D. Waters, Chief  
Licensing Branch  
Division of Spent Fuel Storage and Transportation  
Office of Nuclear Material Safety  
and Safeguards

Docket No. 71-9276  
TAC No. L24684

Enclosures: 1. Certificate of Compliance  
No. 9276, Rev. No. 4  
2. Safety Evaluation Report

cc w/encls: R. Boyle, Department of Transportation  
J. Shuler, Department of Energy  
Registered Users

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Spent Fuel Division  
2105 S. Bascom Ave., Suite 230  
Campbell, CA 95008

SUBJECT: CERTIFICATE OF COMPLIANCE NO. 9276, REVISION NO. 4, FOR THE MODEL  
FUELSOLUTIONS™ TS125 TRANSPORTATION PACKAGE

Dear Mr. Sisley:

As requested by your application dated September 10, 2012, enclosed is Certificate of Compliance No. 9276, Revision No. 4, for the Model No. FuelSolutions™ TS125 Transportation Package. Changes made to the enclosed certificate are indicated by vertical lines in the margin. The staff's Safety Evaluation Report is also enclosed.

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Closes L24684

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ADAMS P8 Package No.: **ML12306A387**; Letter/SER ML12306A428; CoC ML12306A426

<b>OFC</b>	SFST	E	SFST		SFST	
<b>NAME</b>	HAkhavannik		MDeBose		MWaters	
<b>DATE</b>	10/22/12		10/24/2012		10/26/2012	

C=Without attachment/enclosure E=With attachment/enclosure N=No copy **OFFICIAL RECORD COPY**

**SAFETY EVALUATION REPORT**  
**Docket No. 71-9276**  
**FuelSolutions™ TS125 Transportation Package**  
**Certificate of Compliance No. 9276**  
**Revision No. 4**

**SUMMARY**

By application dated September 10, 2012, EnergySolutions Spent Fuel Division, requested renewal of Certificate of Compliance No. 9276, for the Model No. FuelSolutions™ TS125 Transportation Package. The certificate has been renewed for a 5-year term that expires on October 31, 2017.

**EVALUATION**

By application dated September 10, 2012, EnergySolutions requested renewal of Certificate of Compliance No. 9276, for the Model No. FuelSolutions™ TS125 Transportation Package. In addition to their renewal request, EnergySolutions Spent Fuel Division provided their updated address.

The FuelSolutions™ TS125 Transportation Package is approved to ship pressurized-water reactor spent nuclear fuel in W21 canisters with a maximum burn up no greater than 60 GWd/MTU. Given staff's concerns with the effects of hydride reorientation on high burn-up spent fuel rods as stated in Interim Staff Guidance 11, Rev. 3, staff has not yet stated a position on the continued approval of transportation packages shipping this content. In this case, although the package has been previously approved for this content, it is limited by the provisions of 10 CFR 71.19(c). This regulation applies to a package with a -85 designation in the certificate's identification number and requires that all fabrication of this packaging must have been completed by December 31, 2006. To date, EnergySolutions has not fabricated any packagings and would therefore need to apply for a -96 designation in the certificate's identification number to fabricate and use this package. To address this regulatory requirement, Condition No. 10 was included in the certificate of compliance.

The staff reviewed the documents referenced in the certificate and determined that the documentation was available and complete.

**CONDITIONS**

The following changes have been made to the certificate of compliance:

Section 3 has been updated to reflect the correct address for EnergySolutions Spent Fuel Division.

Condition No. 9, which allows use of Revision No. 2 of this certificate until November 31, 2008, has been removed.

Condition No. 10 has been updated to No. 9 and reflects the new expiration date of October 31, 2017.

Condition No. 10 has been added to reflect the provisions of 10 CFR 71.19(c).

The references section has been updated to include this renewal request.

## **CONCLUSION**

The certificate has been renewed for a 5-year term that expires on October 31, 2017. This change does not affect the ability of the package to meet the requirements of 10 CFR Part 71.

Issued with Certificate of Compliance No. 9276, Revision No. 4, on October 26, 2012.