



U.S. Department of Transportation
**Pipeline and Hazardous Materials
Safety Administration**

1200 New Jersey Avenue, SE
Washington, DC 20590

NOV 30 2011

Pierre M. Saverot
Project Manager
Licensing Branch
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety and Safeguards (NMSS)
Mailstop EBB 3D-02M
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Dear Mr. Saverot:

This is in response to your November 22, 2011 letter requesting additional information for your evaluation of the Model No. R7008 transportation package authorized by the U.K. Competent Authority Certificate of Approval No. GB/3750A/B(U)-96 (NRC Docket No. 71-3059, TAC No. L24558).

Enclosed is the response provided by REVISS Services Inc.

If you have any questions or need any additional safety information, please feel free to contact me or Michael Conroy of my staff at (202) 366-3597 or via email at Michael.Conroy@dot.gov.

Sincerely,

Rick Boyle
Sciences Branch
Division of Engineering and Research
Office of Hazardous Materials Safety

Enclosure



23 November 2011

Mr. Richard W. Boyle, Chief
Sciences Branch
Division of Engineering and Research
Office of Hazardous Materials Safety
U.S. Department of Transportation
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Washington, D.C. 20590

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**SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE MODEL
NO.R7008 PACKAGE**

Dear Mr. Boyle,

In response to the letter dated 22 November 2011 from the U.S. Nuclear Regulatory Commission requesting additional information with respect to their revalidation review of the REVISS Services Model R7008 container, REVISS Submits the attached responses to their two questions.

Please let us know if they require additional information during the conduct of their review.

Best regards,

A handwritten signature in black ink, appearing to read "John L. Schrader". The signature is fluid and cursive, written over a horizontal line.

John L. Schrader
Vice President Operations and Logistics
North America

cc: David Rogers
Michael Nixon

**REVISS RESPONSE TO
NRC REQUEST FOR ADDITIONAL INFORMATION
FOR THE MODEL NO. R7008 PACKAGE
COMPETENT AUTHORITY CERTIFICATE No. GB/3750A/B(U)-96
DOCKET No. 71-3059, TAC No. L24558**

6.9.2 TEMPERATURE OF ACCESSIBLE SURFACES (AIR TRANSPORT ONLY)

Clarify why, for air transport only, the package surface temperature may exceed 50°C in the shade, as stated in page 28 of the R7008BU report.

Paragraph 617 of TS-R-1 states that, for packages to be transported by air, the temperature of the accessible surfaces shall not exceed 50°C at an ambient temperature of 38°C with no account taken for insolation. Contrary to this requirement, the application, R7008BU (Section 6.9.2) notes that the surface temperature may exceed 50°C.

This information is needed to determine compliance with Paragraph 617 of TS-R-1.

The response in the report is in error and will be corrected at its next issue as follows:

With the full contents load (7.4PBq Co-60) the maximum surface temperature in the shade is 79°C but for air transport the contents are limited to 1.2PBq so the maximum surface temperature may be estimated to be $((1.2/7.4) \times (79-38)) + 38 = 44.6^\circ\text{C}$. This assumes that the surface to ambient temperature difference, dT , is proportional to the heat load (activity). This is an acceptable simplification as the margin to 50°C is such that the inaccuracy would have to approach 80% before 50°C became a possibility.

5.1.1 EVIDENCE FOR COMPLIANCE

Also, the statement regarding the "1.2 m drop, 9 m drop, and 1.2 m punch test" in Section 5.1.1 needs to be clarified because it appears that the puncture (paragraph 727b) and penetration (paragraph 724) tests were both done at a height of 1 m, as required in TS-R-1.

The response in the report is in error and will be corrected at its next issue as follows:

"1.2m punch tests" will become "1.0m punch tests" (two places).