UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

June 2, 2021

Mr. Philip Sewell
Senior Engineer
8161 Maple Lawn Boulevard
Suite 450
Fulton, MD 20759

SUBJECT: APPLICATION FOR AMENDMENT REQUEST OF CERTIFICATE OF COMPLIANCE NO. 9342 FOR THE MODEL NO. VERSA-PAC – REQUEST FOR ADDITIONAL INFORMATION

Dear Mr. Sewell:

By letter dated February 17, 2021 (Agencywide Documents Access and Management System Accession No. ML21049A137), Daher-TLI submitted an application in accordance with Title 10 of the *Code of Federal Regulations* Part 71 to amend Certificate of Compliance No. 9342 for the Model No. Versa-Pac package per the details of the submitted revision of the safety analysis report, Revision 12. In connection with the U.S. Nuclear Regulatory Commission staff review, we need the information identified in the enclosure to this letter. Additional information requested by this letter should be submitted in the form of revised pages.

In order to complete our technical review on schedule, please provide your response within one month of the date of this letter. If you have any questions regarding this matter, I may be contacted at (301) 415-5196.

Sincerely,

Nishka Devaser

Nishka J. Devaser, Project Manager
Storage and Transportation Licensing Branch
Division of Fuel Management
Office of Nuclear Material Safety
and Safeguards

Docket No. 71-9342
EPID L-2021-LLA-0024

Enclosure:
Request for Additional Information

SUBJECT: APPLICATION FOR AMENDMENT REQUEST OF CERTIFICATE OF COMPLIANCE NO. 9342 FOR THE MODEL NO. VERSA-PAC – REQUEST FOR ADDITIONAL INFORMATION

DATE: June 2, 2021

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*** by email ADAMS Memo Accession Number: ML21153A044**

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Request for Additional Information
Daher-TLI
Docket No. 71-9342
Certificate of Compliance No. 9342
Versa-Pac Transportation Package

By letter dated February 17, 2021 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML21049A137), Daher-TLI submitted an application in accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) Part 71 to amend Certificate of Compliance No. 9342 for the Model No. Versa-Pac package. This request for additional information identifies information needed by the U.S. Nuclear Regulatory Commission staff in connection with its review of the safety analysis report (SAR or the application). The staff used guidance provided in NUREG-1609, "Standard Review Plan for Transportation Packages for Radioactive Material," in its review of the application.

The question describes information needed by the staff for it to complete its review of the application and to determine whether the applicant has demonstrated compliance with regulatory requirements.

Chapter 3: Thermal Analysis

3-1 Justify the heat transfer coefficient value used to perform the analysis of the 30-minute regulatory fire.

SAR Section 3.5.3.5.1 "Fire Test Conditions" states that forced convection heat transfer is used with a convection coefficient of 10 W/m-°C. This value may not be adequate for the regulatory fire as use of a lower heat transfer coefficient value may result in nonconservative predicted temperatures. The staff needs this information to determine that predicted temperatures and pressures remain below allowable limits during hypothetical accident conditions.

For reference, Sandia Report "Thermal Measurements in a Series of Large Pool Fires", Sandia Report SAND85– 0196 TTC – 0659 UC 71, (August 1971) measured a higher value of about 25.5 W/m^2-°C for this type of fire.

Note: The units used in the heat transfer coefficients on SAR Section 3.5.3.5.1 appear to be incorrect and should be revised.

This information is needed to determine compliance with 10 CFR 71.73(c)(4).

Enclosure