

LTR-20000-120-01

October 7, 2019

ATTN: Document Control Desk,
Director, Division of Spent Fuel Management,
Office of Nuclear Material Safety and Safeguards,
U.S. Nuclear Regulatory Commission,
Washington, DC 20555-0001

Dear Mr. Layton:

DAHER-TLI hereby submits an application for amendment of license USA/9342/AF-96 for Model No. Versa-Pac. All amendment contents have been consolidated to Revision 11 to the Versa-Pac Safety Analysis Report, Docket No. 71-9342.

Revision 11 adds a new criticality analysis to support an increased fissile mass limit for $\leq 20\text{wt}\%$ ^{235}U enriched material by limiting the total quantity of hydrogenous material in the package for this content limit to 1 lb. Also, an expanded definition of TRISO fuel contents of the package is provided to more clearly describe the permissible contents of this form.

The Safety Analysis Report enclosed in this submittal includes content that is being withheld from public disclosure because it contains information proprietary to DAHER-TLI. The affidavit for withholding from public disclosure is documented in LTR-20000-120-02, submitted jointly with this application. A redacted version of the Safety Analysis Report is also enclosed in this submittal. To support customer scheduling obligations, we request the approval of the certificate revision by the end of May 2020. DAHER-TLI is committed to providing timely responses to any proposed questions to support this timing.

The following information provides general description of the Revision 11 of the Versa-Pac SAR. Full details can be found in SAR Rev 11, Record of Revisions.

- Section 1 is revised as follows:
 - Addition of Table 1-1D for hydrogen restricted contents under Section 1.1
 - Addition TRISO fuel definition to Section 1.2.2
 - Addition of conditions for hydrogen restricted contents in Section 1.2.2
- Section 6 is revised as follows:
 - Addition of Tables 6.1-3A and 6.1-10 to list hydrogen restricted content fissile limits and evaluation summary
 - Addition of Sections 6.1.3.4 and 6.2.3 to document CSI and conditions for hydrogen restricted contents
 - Addition of hydrogen restricted content criticality analysis (Appendix 6.10.8).

Thank you for your attention to this license application for the Versa-Pac. This report is being submitted in accordance with 10CFR71.1, Communications and records. The enclosures of this report are being submitted through the EIE system.

A draft Certificate of Compliance with recommended revisions and sample input/output files will be provided separately to the NRC Project Manager, Nishka Devaser. Please address any questions or comments to the undersigned.

Sincerely,

Philip Sewell
Principal Engineer
DAHER-TLI

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Non-Proprietary Enclosures:

Description:

Affidavit to Withhold Proprietary Information
SAR Revision 11, Non-Proprietary

File Name:

LTR-20000-120-02.pdf
VP SAR Rev 11-NP.pdf

Proprietary Enclosures:

Description:

SAR Revision 11, Proprietary

File Name:

VP SAR Rev 11-P.pdf