



DAHER-TLI
Fulton, MD

**Application for Certificate of
Compliance for the
Versa-Pac Shipping
Package**

NRC Certificate of Compliance

USA/9342/AF-96

Docket 71-9342

REVISION 8
MAY 2015

RECORD OF REVISIONS

<u>Rev. No.</u>	<u>Date</u>	<u>Description of Revision</u>
8	May 2015	<p>Major Reasons for Revision</p> <ul style="list-style-type: none"> • 5-year renewal application. • Correct non-safety related error in Section 6 dealing with the single and package array evaluation dealing with homogenous, distributed fissile mass. See <u>§6.6.2.1 Homogeneous Model Results</u> and <u>§6.4 Single Package Evaluation</u> below. • Add loading table for 5, 10, and 20 wt% enriched uranium contents to increase mass limits for lower enrichments. • Add natural thorium as acceptable contents. • Edited for clarification. <p>General editorial corrections throughout that are marked with change bar</p> <ul style="list-style-type: none"> • Deleted “shipping container” in several places. • Replaced “container” with “package” or “packaging.” • Replaced “55 gallon version” and “110 gallon version” with “VP-55” and “VP-110.” • Deleted reference to Century Industries. • Added references section to each chapter. Added citations throughout. <p>General editorial corrections throughout not marked with change bar</p> <ul style="list-style-type: none"> • No substantive or technical corrections. • Spelling (e.g., “thru” changed to “through”). <p>Chapter 1</p> <ul style="list-style-type: none"> • §1 Removed General Information section • §1.1 Added Table 1-1, which is the enrichment loading table. • §1.1 Removed reference to 49CFR173.417(a)(6), which referred to 6M drums. This paragraph no longer exists in the regulations. • §1.3 Added References section.

		<ul style="list-style-type: none"> • Appendices: new Daher-TLI standard operating procedures. <p>Chapter 2</p> <ul style="list-style-type: none"> • No technical changes made to Chapter 2 • Change bars indicate general editorial corrections mentioned above. <p>Chapter 3</p> <ul style="list-style-type: none"> • No technical changes made to Chapter 3 • Change bars indicate general editorial corrections mentioned above. <p>Chapter 4</p> <ul style="list-style-type: none"> • No technical changes made to Chapter 4 • Change bars indicate general editorial corrections mentioned above. <p>Chapter 5</p> <ul style="list-style-type: none"> • No technical changes made to Chapter 5 • Change bars indicate general editorial corrections mentioned above. <p>Chapter 6</p> <ul style="list-style-type: none"> • Change bars indicate general editorial corrections mentioned above. • <u>§6.1.1 Design Features</u>: Added Table 6-1A to introduce enrichment loading table. • <u>§6.1.3 Criticality Safety Index (CSI)</u>: Revised to clarify. • <u>§6.3.1 Model Configuration</u>: Revised to clarify. • <u>§6.3.1.1 Model Conservatisms</u>: Revised to clarify. • <u>§6.3.4.1 Fuel Density and Distribution</u>: Revised to clarify how the fissile mass was modeled. • <u>§6.3.4.3 Fuel Mixture (U-Poly) Moderation</u>: Revised to clarify the polyethylene density study process. • <u>§6.4 Single Package Evaluation</u>: Revised to clarify. • <u>§6.5 Evaluation of Package Arrays Under Normal Conditions of Transport</u>: Revised to clarify that the HAC evaluation bounds the NCT evaluation.
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		<p>Chapter 8</p> <ul style="list-style-type: none">• No technical changes made to Chapter 8• Change bars indicate general editorial corrections mentioned above.
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CONTENTS

1	GENERAL INFORMATION	1-1
2	STRUCTURAL EVALUATION.....	2-1
3	THERMAL EVALUATION.....	3-1
4	CONTAINMENT	4-1
5	SHIELDING EVALUATION.....	5-1
6	CRITICALITY EVALUATION	6-1
7	PACKAGE OPERATIONS.....	7-1
8	ACCEPTANCE TESTS AND MAINTENANCE PROGRAM	8-1