

Safety Evaluation Report for Renewal of the Model T-3 Packaging

Docket No. 12-22-9132

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The Department of Energy (DOE) Packaging Certification Program (PCP) staff reviewed the renewal request¹ for the T-3 Packaging. Specifically, the staff reviewed the Consolidated Safety Analysis Report for Packaging² (SARP) and Addendum³ to determine if any changes to the SARP were necessitated by the change in the Parker ThredSeal, Part Number 7500-1-12 to Parker, ThredSeal, Part Number 750-0000-1.

The PCP staff agreed with the Applicant's conclusion that the previous Parker ThredSeal, Part Number 7500-1-12, must be replaced with the new Parker ThredSeal, Part Number 750-0000-1, because the old part number is no longer available. The staff also concluded that using the new part is an equivalent replacement and will have no effect on the containment, shielding, or criticality functions of the T-3 Packaging.

The PCP requested the Applicant to update Drawing H4-61280 — Fabrication Drawing, and Drawing H-4-66230 — Certificate of Compliance (CoC) Drawing, to implement the part number change as a condition to renew the CoC.

The Applicant updated the drawings and submitted them to PCP for review. The staff reviewed the drawings and concurred with the changes: the Parker ThredSeal, Part Number 7500-1-12, included in Rev. 0 of the SARP, has been updated to Parker ThredSeal, Part Number 750-0000-1 in both revised drawings. In Drawing H4-61280, Cask Body Assembly⁴, Item 9 of the Parts List has been updated. In Drawing H-4-66230, Sheet 2, T-3 Shipping Cask⁵, the note describing the push rod nut seals has been updated in Section C-C.

These changes do not affect the ability of the package to meet the requirements of 10 CFR Part 71 when operated in accordance with the CoC.

References

1. *T-3 Cask Certificate of Compliance (CoC) Extension*, Email, Richard J. Self to James Shuler, May 14, 2012.
2. *Consolidated Safety Analysis Report for T-3 Spent Fuel Shipping Cask*, WHC-1990, Revision 6a, Westinghouse Hanford Company, Richland, Washington, August 1990
3. *Addendum to the Consolidated Safety Analysis Report for the T-3 Spent Fuel Shipping Cask Demonstrating Compliance to the Requirement of 10 CFR 71, Sodium-Bonded Fuel*, FFTF-30866, Revision 1, June 2007
4. *Cask Body Assembly T-3 Shipping Cask*, Fabrication Drawing, H4-61280, Rev 4
5. *T-3 Shipping Cask*, CoC Drawing, H-4-66230, Sheet 2, Rev 2