



U.S. DEPARTMENT *of* ENERGY

Office of Environmental Management

DOE Packaging Certification Program

**Safety Evaluation Report for
Simple Amendment of Certificate of Compliance
No. 9979 for the Model 9979 Package**

Docket No. 26-34-9979

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This Safety Evaluation Report (SER) documents the U.S. Department of Energy (DOE) Packaging Certification Program (PCP) independent review of Safety Analysis Report for Packaging (SARP) Revision 8, prepared by the Savannah River National Laboratory (SRNL) on behalf of the DOE Savannah River Operations Office (SR) for amendment of DOE Certificate of Compliance (CoC) Number 9979, Revision 21, for the Model 9979 package design.

EVALUATION

By email ^[1] dated April 23, 2026, SR requested a simple amendment of DOE CoC No. 9979 Revision 21 based on Revision 8 of the SARP ^[2], which incorporates all approved SARP supplements listed in Section 5(e) of the CoC into the SARP.

DOE PCP staff confirmed by document review all previously approved supplements were correctly incorporated into SARP Revision 8.

In addition, the applicant consolidated and condensed special form documentation in the SARP Revision 8 to remove excessive detail about the special form designs, which are certified independently of this review. DOE PCP staff confirmed sufficient detail is retained in Appendix 1.2 of SARP Revision 8, that is, the certification documentation for each special form design.

Finally, DOE PCP staff noted that Step 13 in SARP Section 7.1.3, does not address a configuration when a MacroBag® is used as an optional dunnage. In this configuration, the void volume in Step 13 for calculating the shipping window should be the void volume inside the MacroBag®, not the void volume in the 30-gallon drum. The applicant proposed to include this clarification in the next SARP revision. Staff agrees and recommends this clarification as a condition in the CoC until the SARP is revised.

CONDITIONS OF APPROVAL

The following changes to CoC Rev 21 are required to implement the changes evaluated in this SER.

- 3(2) *Title and identification of report or application*: Revise to “... Revision 8, April 2026...”
- 3(3) *Date*: Revise to “April 2026”
- 5(a)(3) *Drawings*:
 - Revise last para. to “Each special form capsule design authorized for transport in the package is listed in Appendix 1.2 of the SARP and includes a certificate of testing or a special form certificate issued by an IAEA national competent authority.” (improvement/clarification)
 - Delete the special form drawing table. (not essential to the package design)
- 5(b)(2) *Maximum Quantity of Material per Package*
 - Table 2, third item, revise to “U-235 fissile gram equivalent limit is based on ..., and Reference 5, N-NCS-A-00049, Rev 0)” (reference incorporated in the SARP)
- 5(d) *Conditions*
 - Revise (10) to “Revision 20 this certificate may be used until May 31, 2027, and

- Revision 21 of this certificate may be used until August 31, 2027.” (allow use of previous revisions).
- Revise (14) to remove references to the supplements. (incorporated in the SARP)
- Revise (15) to “... the MacroBag® shall also be purged/sampled in accordance with Condition 14 to reset the shipping window - the void volume used for calculating the shipping window (t_{LFL}) using the equation in Step 13 of SARP Section 7.1.3 is the void volume inside the MacroBag®.” (clarification in lieu of SARP revision)
- 5(e) *Supplements*: delete all (incorporated in the SARP)

CONCLUSION

Based on the statements contained in SARP Revision 8, and the conditions listed above, DOE PCP staff concludes the changes indicated do not affect the ability of the package to meet the requirements of 10 CFR Part 71.

REFERENCES

- [1] *DOE-SR concurrence for DOE PCP review of S-SARP-G-00006 Rev. 8*, Email, Sobus to Cable, April 23, 2026.
- [2] *Safety Analysis Report for Packagings Model 9979 Type AF Shipping Package*, S-SARP-G-00006, Revision 8, April 2026.