



EM Environmental Management

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DOE Packaging Certification Program

Safety Evaluation Report to Renew Certificate of Compliance Number No. 9315

Docket No. 20-49-9315

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Date: 2020.08.05 08:18:23 -04'00' Date: e-sign date

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Evaluation

By letter ^[1] dated February 28, 2020, National Nuclear Security Administration, Office of Material Management and Minimization (NA-23) requested renewal of DOE Certificate of Compliance (CoC) No. 9315 for the Model No. ES-3100 package. This letter also requested an amendment to the CoC to authorize a design change to use of Packcrete as an alternative to the Kaolite as insulation and impact-limiting material in the package design. Due to delays in the application review process (Docket 19-11-9315) of the Packcrete design change, renewal of the CoC is based on the current CoC 9315, Revision 16, approved package design, operating procedures, and acceptance tests and maintenance program of the package.

Note - The design changes for Packcrete, if approved, will be authorized in a subsequent CoC amendment.

Conditions of Approval

The 9315 certificate revision was changed from Revision 16 to Revision 17, with the following changes:

- Sections 3(2) and 3(3) – Safety basis SARP is SP-PKG-801940-A001, Revision 2, dated September 8, 2016, formerly Supplement 5(e)(1).
- Section 5(d)(13), revised as follows: Revision 16 of the certificate may be used until July 31, 2021. For export or import use of this package under a Department of Transportation Competent Authority Certification (CAC), previous revisions of this certificate may continue to be used until their expiration date, unless otherwise specified in the CAC.
- Section 5(d)(14), revised as follows: The periodic leakage rate test interval of the containment boundary is 24 months.
- Section 5(e), renumbered supplements and added “(8) Amendment Items for the ES-3100 Package with Bulk HEU Content, US DOE Certificate of Compliance USA/9315/B(U)F-96 (DOE), Letter Kilmartin to Shuler, February 28, 2020.”

Conclusion

Based on the statements and representations in *Y-12 National Security Complex, Model ES-3100 Package with Bulk HEU Contents*, SP-PKG-801940-A001, Revision 2, dated September 8, 2016, as supplemented, DOE PCP staff concludes that the Model No. ES-3100 package design has been adequately described and evaluated and has reasonable assurance that requirements of 10 CFR Part 71 have been met, subject to the conditions above.

Reference

- [1] *Amendment Items for the ES-3100 Package with Bulk HEU Content, US DOE Certificate of Compliance USA/9315/B(U)F-96 (DOE)*, Letter from W. E. Kilmartin to James M. Shuler, February 28, 2020.