



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION REPORT
Docket No. 71-9218
Model No. TRUPACT-II
Certificate of Compliance No. 9218
Revision No. 29

SUMMARY

By letter dated May 28, 2025 (Agencywide Documents Access and Management System [ADAMS] Accession No. ML25148A336) Salado Isolation Mining Contractors, LLC (SIMCO)(hereon referred to as the applicant), requested an amendment on behalf of the U.S. Department of Energy (DOE) for Certificate of Compliance (CoC) No. 9218, for the Model No. TRUPACT-II transportation package. The application included a safety analysis report (SAR), "TRUPACT-II SAR, Revision 27," in which the applicant proposed changes in the following drawings of the SAR: 2077-500SNP, 163-001, 163-002, 163-003, 163-004, 163-006, and 163-009.

EVALUATION

Structural Evaluation

The applicant proposed to revise the weld at drawing zone C-3 of Sheet No. 4 of the Drawing 2077-500SNP, "TRUPACT-II Packaging," Revision AC, to a complete joint penetration type. The U.S. Nuclear Regulatory Commission (NRC) staff reviewed the proposed change in the drawing and found that the change does not affect the safety functions of the package. Therefore, the NRC staff determined that the proposed change is acceptable.

In addition, the applicant proposed to update and/or add information to the following drawings:

- Standard Pipe Overpack, 163-001, Revision 10,
- S100 Pipe Overpack, 163-002, Revision 7,
- S200 Pipe Overpack, 163-003, Revision 6,
- S300 Pipe Overpack, 163-004, Revision 4,
- Compacted Puck Drum Spacers, 163-006, Revision 3, and
- Criticality Control Overpack, 163-009, Revision 5.

The NRC staff reviewed the proposed changes in the drawings and found that all drawings have updated information (i.e., name of the contractor) in the title block and border of the drawings from Nuclear Waste Project to SIMCO, as the managing contractor for the DOE's Waste Isolation Pilot Plant facility. This change is only an administrative change and there is no impact on the safety basis of the packaging. Therefore, the NRC staff determined that the proposed change is acceptable.

Evaluation Findings

Based on review of the statements and presentations in the application, the NRC staff determined that the proposed changes are acceptable and concludes that the package maintains adequate structural integrity to meet the structural requirements in Title 10 of the *Code of Federal Regulations* (10 CFR) Part 71.

Material Evaluation

The staff reviewed Revision 27 to the TRUPACT-II SAR to verify that the material performance of the transportation package meets the requirements of 10 CFR Part 71. Only the sections of the materials evaluation that changed from the previous SAR will be discussed below.

The applicant submitted a revision to the TRUPACT-II SAR to provide minor revisions to the licensed drawings. These changes include modifications to welding penetration notes, geometric modifications to ease fabrication, removing the callout of the diameter of a hoist ring, and other non-technical administrative changes. The applicant states that these revisions have no impact on the existing safety basis. The staff reviewed the revised drawings in Section 1.3.1 of the TRUPACT-II SAR and determined that they do not affect the staff's previous evaluation of the licensed drawings.

Evaluation findings

The staff concludes that Revision 27 to the TRUPACT-II SAR does not alter the staff's previous finding that the SAR adequately considers material properties and material quality controls such that the design is in compliance with 10 CFR Part 71.

CONDITIONS

The following changes have been made to the CoC:

Condition 3.b was updated to reflect the consolidated application submitted by SIMCO, LLC on May 28, 2025.

Condition 5(a)(3) was updated to reflect the new revision numbers of the drawings listed in this condition.

References were updated to reference the consolidated application submitted by SIMCO, LLC on May 28, 2025.

CONCLUSION

This change does not affect the ability of the package to meet the requirements of 10 CFR Part 71.

Issued with CoC No. 9218, Revision No. 29.