

orano

Federal Way Office USA
505 S. 336th Street
Suite 400
Federal Way, WA 98003
Tel: (253) 552-1310
@orano_USA

July 19, 2018
FS-18-0175

ATTN: Document Control Desk
Director, Spent Fuel Project Office
Office of Nuclear Material Safety and Safeguards
U. S. Nuclear Regulatory Commission
Washington, DC 20555-0001

SUBJECT: Submittal of Safety Analysis Report for the 1105-SD Package,
Rev. 0, Docket No. 71-9379

Dear Mr. White:

Orano Federal Services LLC (Orano FS) hereby submits the Safety Analysis Report (SAR) for the 1105-SD for approval as a Type B(U)-96 Package. The 1105-SD package is to be understood as the commercial version of the NNSA's 435-B package. The 1105-SD package is identical to the 435-B package defined by the 435-B SAR, Revision 4.3, NRC Docket 71-9355. Revision 4.3 of the 435-B SAR corresponds to NRC Certificate of Compliance USA/9355/B(U)-96, Revision 2. The 1105-SD SAR, Rev. 0 was created by making only the changes to the 435-B SAR, Rev. 4.3, which were necessary to change its identity and to update some references.

To assist the staff in reviewing the 1105-SD SAR, a detailed roadmap of changes made to the 435-B SAR, Rev. 4.3, is provided as Attachment A.

Included with this letter is one paper copy of the 1105-SD SAR and one CD containing the PDF file "1105-SD SAR, Complete, Rev. 0.pdf" (32,191 kb, 495 pages). The CD is contained within an envelope labeled, "1105-SD package SAR Revision 0, Electronic Copy of Document, Docket 71-9379".

Should you have any questions regarding this submittal, please contact me at (233) 552-1321 or via email (phil.noss@orano.group).

Yours Truly,



Philip Noss
Licensing Manager
Orano Federal Services LLC

NM5520



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Copies:

Attention: Bernie White (including one paper copy and one CD)
Mail Stop T4B34
U. S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, MD 20852
Richard J. Smith, Project Manager, Orano Federal Services LLC

Attachments:

Attachment A, Roadmap of Detailed Changes Made to the 435-B SAR, Rev. 4.3
to Create the 1105-SD SAR, Rev. 0



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Attachment A

Roadmap of Detailed Changes Made to the 435-B SAR, Rev. 4.3 to Create the 1105-SD SAR, Rev. 0

The 1105-SD radioactive material transport package is identical to the 435-B package defined by the 435-B Safety Analysis Report, Revision 4.3, NRC Docket 71-9355. Revision 4.3 of the 435-B SAR corresponds to NRC Certificate of Compliance USA/9355/B(U)-96, Revision 2.

The following minor editorial changes have been made in order to create the new package.

Section No.	Change to 435-B SAR Rev. 4.3 to Create 1105-SD SAR Rev. 0
All chapters, all sections	Substitute 1105-SD for 435-B
All chapters, all sections	Update drawing numbers: <ul style="list-style-type: none">• 1916-01-01-SAR, Rev. 6 to 3021717-SAR, Rev. 0• 1916-01-02-SAR, Rev. 4 to 3021718-SAR, Rev. 0• 1916-01-03-SAR, Rev. 4 to 3021719-SAR, Rev. 0
All chapters	Format for double-sided printing
Section 1.0	Update TS-R-1 to SSR-6
Page 1.1-1, footnote	Update ANSI N14.5-1997 to -2014 (Note: ANSI N14.5-1997 has been updated to -2014 in Chapters 1, 4, 7, and 8. It has not been updated to -2014 in Chapters 2, 3, 5, and 6 because -1997 is historically accurate in describing the issue of the standard used during development of the 435-B safety analysis.)
Section 1.3.1	Update references to current editions (#1, #2, and #3)
SAR drawings	Update drawing numbers and title block (<i>Note: no changes were made to the drawings other than the title block.</i>)
Section 2.7	Clarify relationship between 435-B and 1105-SD testing
Section 2.7.1.2	Add a justification for applying the test results of the 435-B packaging to the 1105-SD
Section 2.12.1	Update references to current editions (#1 and #27)
Section 2.12.2	Add a justification for applying the test results of the 435-B packaging to the 1105-SD
Section 2.12.2.6	Update references to current editions (#2 and #3)
Section 2.12.3	Add a justification for applying the test results of the 435-B packaging to the 1105-SD
Section 2.12.3.7	Update references to current editions (#1 and #4)
Section 2.12.4.1	Clarify relationship between 435-B and 1105-SD testing



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Section 2.12.4.2.3.4	Update TS-R-1 to SSR-6
Section 2.12.4.7	Update references to current editions (#2, #3, and #8)
Page 2.12.4-28	Add a discussion justifying why the labels internal to the finite element model plots which show '435-B' may be read as indicating '1105-SD'
Section 3.5.1	Update reference #1 to current edition
Section 4.5.1	Update references to current editions (#1 and #5)
Section 6.0	Update reference #1 to current edition
Section 7.5.2	Update references to current editions (#1, #2, #3, and #4)
Section 8.3.1	Update references to current editions (#1 and #7)
Chapter 9	Remove, based on NRC approval of Orano Federal Services LLC <i>Quality Assurance Program Description</i> , FS-QA-PMD-001, Revision 04