



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

August 4, 2023

Chris Backus, Mechanical Engineer  
Orano Federal Services LLC  
505 S. 336th Street  
Suite 400  
Federal Way, WA 98003

SUBJECT: SPECIAL PACKAGE AUTHORIZATION FOR THE CRYSTAL RIVER UNIT 3  
MIDDLE PACKAGE (CR3MP) - DOCKET NO. 71-9393

Dear Chris Backus:

By letter dated September 1, 2021 (Agencywide Documents Access and Management System [ADAMS] Accession No. ML21244A485), Orano Federal Services LLC submitted an application for approval of the CR3 Middle Package (CR3MP).

On February 14, 2022, your application was accepted for review after receiving on January 6, 2022, (ADAMS No. ML22006A365) your responses to the October 15, 2021, request for supplemental information (ADAMS No. ML21286A798). On December 19, 2022, responses were received (ADAMS No. ML22356A314) to staff's first request for additional information (RAI) dated June 24, 2022 (ADAMS No. ML22172A114).

Orano Federal Services LLC provided its responses to staff's second request for additional information (ADAMS No. ML23113A011) and submitted an updated application, Revision No. 4, by letter dated June 8, 2023 (ADAMS No. ML23159A273).

The CR3MP package will be transported from the Crystal River site to the Waste Control Specialist disposal site in Texas. The staff has determined that a Special Package Approval is acceptable for a one-time only shipment of the CR3MP package under the provisions of Title 10 of the *Code of Federal Regulations* (CFR) Part 71. The results of the staff's review are documented in the enclosed safety evaluation report.

In addition to the requirements of Subpart G of 10 CFR Part 71, the following conditions apply to the Special Package Authorization under 10 CFR 71.41(d):

- (1) The package is a one-time only exclusive use shipment.
- (2) The package is constructed and assembled in accordance with Licensing Drawing No. 3024427, Revision No. 3, 2 sheets.
- (3) The package must be conspicuously and durably marked with the trefoil symbol and the following information: Type B(U), Model No. CR3MP, Package Identification Number USA/9393/B(U)-96.
- (4) The package authorized by this letter must be transported by road and by barge in a conveyance assigned for the sole use of the shipper.

- (5) The package must be prepared for shipment and transported in accordance with chapter 7 of the application. Due to material property limits, a Lowest Service Temperature of 0°F is established for the entirety of the transport.
- (6) The package must be acceptance tested in accordance with chapter 8 of the application.
- (7) Lifting of the CR3MP is performed exclusively via direct external jacking of the package from below or jacking while the package is resting on a skid or beams. Tie-downs for the CR3MP are only hold-down devices, placed over or around the package, that are fastened either to the transport skid or directly to the conveyance.
- (8) Prior to shipment, package dose rates shall be measured at all locations necessary to demonstrate compliance with 10 CFR 71.47.
- (9) A Transport Emergency Response Plan to coordinate all transport activities shall be in place before the shipment can proceed.
- (10) Transport duration is limited to 6 months after purging the CR3MP air gap (Step #6 in section 7.1.2 of the application) has been completed.
- (11) The Special Package Authorization will expire on August 31, 2027.

The CR3MP package that is authorized by this Special Package Authorization is hereby approved for use under the general license provisions of 10 CFR Part 71.

If you have any questions regarding this authorization, please contact Pierre Saverot of my staff at [Pierre.Saverot@nrc.gov](mailto:Pierre.Saverot@nrc.gov).

FOR THE U.S. NUCLEAR REGULATORY COMMISSION



Signed by Diaz-Sanabria, Yaira  
on 08/04/23

Yaira Diaz-Sanabria, Chief  
Storage and Transportation Licensing Branch  
Division of Fuel Management  
Office of Nuclear Material Safety  
and Safeguards

Docket No. 71-9393  
EPID L-2021-NEW-0003

Enclosure:  
Safety Evaluation Report

cc w/encl:  
R. Boyle, Department of Transportation  
J. Shuler, Department of Energy c/o L. F. Gelder

SUBJECT: SPECIAL PACKAGE AUTHORIZATION FOR THE CRYSTAL RIVER UNIT  
3 MIDDLE PACKAGE (CR3MP) DOCKET NUMBER 71-9393

DOCUMENT DATE: August 4, 2023

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CLOSES EPID L-2021-NEW-0003

Filename: G:/SFST/Saverot/71-9393 CR3RPV/Special Authorization; SER

**ADAMS Nos.: ML23208A144 (pkg); ML23208A147(ltr); ML23208A145(encl)**

E=With attachment/enclosure

N=No copy

C=Without attachment/enclosure

\*via email

OFFICE	NMSS/ DFM	C	NMSS/ DFM	C	NMSS/ DFM	E	NMSS/ DFM	C	NMSS/DFM	E	NMSS/ DFM	C
NAME	WAllen*		JPiotter*		PSaverot		JBorowsky		DMarcano		OKhan	
DATE	03/07/2023		03/09/2023		05/23/2023		06/10/2023		06/27/2023		06/30/2023	
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NAME	SSamaddar		TBoyce		JCurry		PSaverot		YDiaz-Sanabria			
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