



DEPARTMENT OF ENERGY
NATIONAL NUCLEAR SECURITY ADMINISTRATION
1000 INDEPENDENCE AVENUE SW
WASHINGTON DC 20585-1000

NR:RR:ASHunt G#C22-01757
April 29, 2022

CONFIDENTIAL – Unclassified upon removal of Enclosure (1). ✓

John Lubinski
Director, Office of Nuclear Material Safety and Safeguards
Nuclear Regulatory Commission
Washington, DC 20555

M-140 SHIPPING CONTAINER - SAFETY ANALYSIS REPORT FOR PACKAGING TO SUPPORT S3G-3 SPENT FUEL SHIPMENT; RESPONSE TO NRC REQUEST FOR ADDITIONAL INFORMATION (U)

Reference: (a) NR letter G#C21-04011 dated August 26, 2021
(b) NNL meeting summary RSS-SC-SCA-00432 dated April 1, 2022

Background:

a. M-140 spent fuel shipping containers are used to transport naval spent nuclear fuel to the Naval Reactors Facility in Idaho. The M-140 shipping container is certified to meet the Type B packaging requirements for shipment of fissile and highly radioactive material in accordance with Title 10, Code of Federal Regulations, Part 71 (10CFR71). Compliance to 10CFR71 is demonstrated through a safety analysis report for packaging (SARP).

b. The S3G-3 reactor core is installed in both MTS DANIEL WEBSTER (MTS 626) and MTS SAM RAYBURN (MTS 635). MTS 626 and 635 are scheduled for inactivation, with subsequent spent fuel removal and shipment to the Naval Reactors Facility using the M-140 shipping container. In the reference (a) letter, Naval Reactors forwarded a revision of the S3G-3 Spent Fuel in the M-140 SARP that incorporates the MTS cargo to the Nuclear Regulatory Commission (NRC) for review and concurrence. Naval Reactors, NRC, and Naval Nuclear Laboratory conducted a meeting to discuss initial NRC questions on the SARP revision, as documented in the reference (b) meeting summary. This meeting resolved many of the NRC questions, and resulted in one remaining question requiring disposition through a request for additional information. NRC provided the request for additional information to Naval Reactors in a letter dated March 3, 2022 (Docket No. 71-9793; EPID No. L-2021-LLA-0154).

Derived from: DOE-DOD Classification Guide CG-RN-1
RESTRICTED DATA
This document contains Restricted Data as defined in the Atomic Energy Act of 1954. Unauthorized disclosure is subject to administrative and criminal sanctions.

Naval Reactors Action: Enclosure (1) to this letter provides the response to the NRC request for additional information (Docket No. 71-9793; EPID No. L-2021-LLA-0154). Naval Reactors appreciates the NRC's thorough and timely review efforts of the application and if you have any additional questions, please do not hesitate to call or email me at (202) 781-6034 or nicholas.plate@navy.mil.



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Naval Reactors

Enclosure: (1) NAVAL REACTORS RESPONSE TO NRC REQUEST FOR ADDITIONAL INFORMATION (DOCKET NO. 71-9793; EPID No. L-2021-LLA-0154)

Copy to:
KAPLADSARS
NRLFO
NRLFO-Transportation Division [M. Salamon]

Director, Division of Fuel Management, NMSS, NRC [S. Helton]
Chief, Storage and Transportation Licensing Branch, DFM, NMSS, NRC [Y. Diaz-Sanabria]
Senior Project Manager, STLB, DFM, NMSS, NRC [B. White]

General Manager, NNL [G. Lubinsky]
Manager, Reactor Servicing, NNL [V. Pantloni]
Manager, Reactor Servicing Systems, RS, NNL [M. Drewen]
Manager, Shipping Containers, RSS, RS, NNL [S. Fiscus]
Manager, Shipping Container Analysis, SC, RSS, RS, NNL [C. Haslett]