



UNITED STATES DEPARTMENT OF COMMERCE
National Institute of Standards and Technology
Gaithersburg, Maryland 20899-0001

August 7, 1996

Dr. William D. Travers
Director, Spent Fuel Project Office
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Dear Dr. Travers:

Subject: Docket No. 71-9246, Certificate of Compliance No. 9246.

NIST respectfully requests renewal of the Certificate of Compliance for its Model ST fuel transfer cask, Package Identification No. (USA/9246/AF). All analyses previously submitted remain the same and are still valid. The performance of the cask since its initial use has been flawless.

NIST also requests a change in the description of the cask. The proposed change shown as item 3 in revised Drawing No. D-04-04 sheets 1 and 2 Revision 3, copy of which is enclosed, affects only the internal device that positions the element. It does not affect any portion of the containment system of the cask or the cask performance. The proposed design device is typical of what will be used to position the element and will allow for easier loading and unloading of the element.

Sincerely,

Lyman E. Pevey
Chief, Occupational Health
and Safety Division

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NIST

FIGURE WITHHELD UNDER 10 CFR 2.390

FIGURE WITHHELD UNDER 10 CFR 2.390

NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGY GAITHERSBURG, MARYLAND 20899	
SHIPPING CONTAINER MODEL ST SERIES	
FOR NBSR FUEL ELEMENT	
DESIGNED BY JACK STURROCK DATE 8-24-80	DESIGNED BY JACK STURROCK DATE 8-24-80
DESIGNED BY MADHESH SUTHER DATE 2-7-92	DESIGNED BY JOHN NICKLAS DATE 2-7-92
ALL DIMENSIONS IN FEET AND INCHES	SCALE: NO NOT SCALE
SPR. 828 REV. 000	SHRINK ID D-04-048



May 22, 1996

MEMORANDUM FOR Jim Tracy
Program Manager for Radioactive Material packages
245/C101

FROM Mahesh Suthar/Paul Liposky
Reactor Engineering
235/A151 x6266

mm/ P12

SUBJECT Proposed design changes to the Shipping Container for
NBSR fuel elements.

In order to improve handling, assembly and disassembly of the above subject shipping container, the following minor modifications to the wooden supports within the container are proposed (Refer to drawing no. D-04-048, rev. 3):

- (i) Decrease diametrical dimensions by 1/8" of item no. 3, 4, and 5 (Top, Bottom, and Nozzle Supports).
- (ii) Replace 2" long wood screws on item no. 3 (Top Support) with 1/4"-20 bolts and tee nuts.
- (iii) Drill a 1/4" diameter thru hole in the center of item no. 3 (Top Support) and install a 1/4" diameter tee nut at the bottom of the lower piece as shown. This will facilitate to remove the Top Support from the fuel element by inserting a 1/4" diameter threaded rod, threading it into the tee nut and pulling the whole assembly out.

These modifications will provide for easier insertion and removal of the fuel element from the container and will eliminate past difficulties experienced in some removals. At the same time, it will provide a positive and reliable hold on the element within the container. Accordingly, it is our conclusion that the proposed modifications do not change any of the safety considerations of the shipping container.

Please review the proposed modifications. We will proceed upon receipt of your approval.

FIGURE WITHHELD UNDER 10 CFR 2.390

INTERNAL, SIGNATURE OF ENGINEER & TECHNICIAN CERTIFICATION, SAFETY DATA SHEET	
SHIPPING CONTAINER MODEL, ST. NUMBER	
MESA FUEL, U.S. DOT	
DATE: JUN 1980	DATE: JUN 1980
BY: E. J. 10	BY: E. J. 10
ALL INFORMATION IN THIS AND OTHER	SCALE: NO NOT SCALE
NO. 000	0-04-048

FIGURE WITHHELD UNDER 10 CFR 2.390

OFFICE, OFFICE OF TROOPERS & INSPECTION CANTONMENT, PORTLAND, MAINE			
SHIPPING CONTAINER MODEL ST 3000			
NEER FUEL ELEMENT			
DATE OF DEPARTURE 8-20-64	DATE OF ARRIVAL 8-20-64	DATE OF DEPARTURE 8-20-64	DATE OF ARRIVAL 8-20-64
DATE OF DEPARTURE 8-20-64	DATE OF ARRIVAL 8-20-64	DATE OF DEPARTURE 8-20-64	DATE OF ARRIVAL 8-20-64
ALL INFORMATION IN FILE AND COPY		DATE OF DEPARTURE 8-20-64	
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FIGURE WITHHELD UNDER 10 CFR 2.390

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FIGURE WITHHELD UNDER 10 CFR 2.390

NATIONAL BUREAU OF STANDARDS & TECHNOLOGY Gaithersburg, Maryland 20899	
SHIPPING CONTAINER MODEL ST SERVICE	
NBSR FUEL ELEMENT	
DATE: 6-24-90	DATE: 6-24-90
BY: J. C. J. J. J.	BY: J. C. J. J. J.
ALL DIMENSIONS IN INCHES	SCALE: 100% NET SCALE
0-04-048	0-04-048