

SGTB:CRM
71-9010

NOV 01 1988

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CRMartotta
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PDR
RChappell
GJackson
NMSS r/f

Nuclear Assurance Corporation
ATTN: Mr. A. H. Wells
5720 Peachtree Parkway
Norcross, GA 30092

Gentlemen:

As requested by Nuclear Assurance Corporation application dated February 26, 1988 as supplemented on August 22, 1988, and pursuant to 10 CFR Part 71, Certificate of Compliance No. 9010 for the Model No. NLI-1/2 package is amended to authorize contents as follows:

Two (2) melted Fermi-1 fuel assemblies (melted in the Fermi-1 reactor incident) each placed in its own seal welded aluminum canister with a 4.375-inch ID and a 0.25-inch aluminum wall. Each canister is to singly occupy its own cavity quadrant. Spacers must be used to prevent movement of these canisters. The remaining two quadrants can be used in the same shipment holding Zr-clad or unclad intact Fermi-1 fuel pins in their own aluminum containers, four per cavity quadrant. Seal welded aluminum with greater than pin holes and hairline cracks are not authorized.

Cask Configuration C is to be used for this shipment of a maximum of ten aluminum canisters with dry contents in a dry cavity. The Boral formed cruciform basket is to be used for the above contents. (Dwg. No. 460-052-FB, Rev. 4).

All other conditions of Certificate of Compliance No. 9010 shall remain the same.

This authorization shall expire March 31, 1989.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

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Charles E. MacDonald, Chief
Transportation Branch
Division of Safeguards and
Transportation, NMSS

Enclosure:
Approval Record

cc: w/encl:
Rockwell International
Rocketdyne Division
ATTN: W.F. Dennison
6633 Canoga Avenue
Canoga Park, CA 91304

Mr. Michael E. Wangler
Department of Transportation

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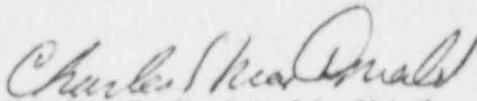
UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

Transportation Branch
Approval Record
Model No. NLI-1/2 Package
Docket No. 71-9010

By application dated February 26, 1988 as supplemented on August 22, 1988, Nuclear Assurance Corporation requested a letter amendment to Certificate of Compliance No. 9010, to authorize the transport of two (2) melted Fermi-1 fuel assemblies, each placed in its own aluminum seal-welded canister and each singly occupying its own cavity quadrant with spacers to prevent movement of the canisters. The additional two quadrants may contain aluminum canisters holding Zr-clad or unclad intact Fermi-1 fuel pins.

The requested shipment poses no criticality hazard since the original criticality analysis assumed all fuel, -clad or declad-to be optimally moderated within the cavity quadrant without taking the aluminum canisters into account. The melted fuel has a less favorable geometry under moderated or unmoderated conditions and thus poses no hazard in terms of criticality of the cask.

Approval is recommended for the proposed melted assembly shipment in the NLI-1/2 cask.


Charles E. MacDonald, Chief
Transportation Branch
Division of Safeguards and
Transportation, NMSS

Date: November 1, 1988