

DEC 19 1989

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MEMORANDUM FOR: The Files

FROM: Nancy L. Osgood
Transportation Branch
Division of Safeguards
and Transportation, NMSS

SUBJECT: MEETING SUMMARY CONCERNING CERTIFICATION OF DOE BUSS
PACKAGE

Attendees

DOE

R. H. Towell
J. H. Haberman
Jim Leonard
Liz Ten Eyck

ANL

Glenn F. Popper

Westinghouse - Hanford

W. W. Bowen
H. R. Gardner
J. M. Allison

NRC

C. E. MacDonald
C. R. Chappell
N. L. Osgood

Sandia

Richard H. Yoshimura

Introduction

A meeting was held at the request of Department of Energy (DOE) in Germantown, Maryland, on December 11, 1989, concerning the certification of the Beneficial Uses Shipping System (BUSS) package for the transport of cesium chloride capsules. Transportation Branch staff attended the meeting to address technical issues which may be involved if NRC certification of the package is sought.

Discussion

1. The status of the packages being used to ship cesium chloride capsules from Radiation Sterilizers, Inc. (RSI) to Hanford was discussed. Shipment of the capsules has been hampered by the limited availability of casks. The BUSS package can carry up to 16 capsules but has not been certified by either DOE or NRC.
2. A technical description of the BUSS package was given. The cask is stainless steel approximately 13 inches thick, with foam impact limiters at each end. The cask is designed for a decay heat load of 4 kW, and is backfilled with helium coolant. The cask lid is sealed with a metallic seal system. The containment vessel has two penetrations: a drain port and a vent port. The package weighs approximately 32,900 lbs.

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MEETING

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3. The drain port closure is being modified to ensure accuracy of the helium leak testing of the port. The modification is currently under review by DOE Packaging Certification staff.
4. The BUSS package is being considered for the shipment of cesium chloride capsules at RSI facilities. Currently, the Safety Analysis Report specifies that only capsules fabricated to Revision 0 of the drawings are to be shipped. Many of the capsules at RSI facilities were fabricated to later revisions of the drawings.
5. The ability of the RSI capsules to meet the requirements of special form was discussed by the DOE Packaging Certification Staff. Westinghouse-Hanford has implemented a program to ensure that the capsules meet special form. Capsules which do not meet the program criteria for special form are considered as normal form. The DOE Packaging Certification Staff has not reviewed this program and stated that the program will be part of the review and approval for the BUSS package.

Nancy L. Osgood
 Transportation Branch
 Division of Safeguards
 and Transportation, NMSS

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

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Discussion

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2. A technical description of the BUSS package was given. The cask is stainless steel approximately 13 inches thick. There are foam impact limiters at each end. The cask is designed for a decay heat load of 4 kW, and is backfilled with helium coolant. The cask lid is sealed with a metallic seal system. The containment vessel has two penetrations: a drain port and a vent port.

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