

U.S. NUCLEAR REGULATORY COMMISSION
CERTIFICATE OF COMPLIANCE
For Radioactive Materials Packages

1.(a) Certificate Number 9145	1.(b) Revision No. 2	1.(c) Package Identification No. USA/9145/A	1.(d) Pages No. 1	1.(e) Total No. Pages 2
----------------------------------	-------------------------	--	----------------------	----------------------------

2. PREAMBLE

- 2.(a) This certificate is issued to satisfy Sections 173.393a, 173.394, 173.395, and 173.396 of the Department of Transportation Hazardous Materials Regulations (49 CFR 170-189 and 14 CFR 103) and Sections 146-19-10a and 146-19-100 of the Department of Transportation Dangerous Cargoes Regulations (46 CFR 146-149), as amended.
- 2.(b) The packaging and contents described in item 5 below, meets the safety standards set forth in Subpart C of Title 10, Code of Federal Regulations, Part 71, "Packaging of Radioactive Materials for Transport and Transportation of Radioactive Material Under Certain Conditions."
- 2.(c) This certificate does not relieve the consignor from compliance with any requirement of the regulations of the U.S. Department of Transportation or other applicable regulatory agencies, including the government of any country through or into which the package will be transported.

3. This certificate is issued on the basis of a safety analysis report of the package design or application—

3.(a) Prepared by (Name and address):

Nuclear Packaging, Inc.
815 South 28th Street
Tacoma, WA 98409

3.(b) Title and identification of report or application:

NUPAC application dated September 19, 1980,
as supplemented.

3.(c) Docket No.

71-9130

4. CONDITIONS

This certificate is conditional upon the fulfilling of the requirements of Subpart D of 10 CFR 71, as applicable, and the conditions specified in item 5 below.

5. Description of Packaging and Authorized Contents, Model Number, Fissile Class, Other Conditions, and References:

(a) Packaging

- (1) Model Nos.: NUPAC 50-1.5L, NUPAC 50-2.5L, NUPAC 50-3.0L, and NUPAC 50-4.0L

(2) Description

A steel encased lead shielded casks for low specific activity radioactive material. The casks are right circular cylinder with a 48.5 inch inside diameter by 52.5 inch inside high cavity. The walls of the casks contain a lead thickness ranging from 1.25 to 3.75 inches encased in 3/8-inch thick steel shells. The bottom and top covers of the cask are made up of two, steel plates ranging in thickness from 1.00 to 3.00 inches. The primary cask lid is secured to the cylindrical cask body by eight, 1-inch ratchet binders. A secondary cask lid is centered in the primary lid and is secured to the primary lid with eight, 3/4-inch studs and nuts. Each lid is provided with a Neoprene gasket seal. The cask is provided with four equally spaced lifting/tie down devices. Casks gross weights range from 13,200 to 28,900 pounds.

(3) Drawing

The packagings are fabricated in accordance with Nuclear Packaging, Inc. Drawing No. X-20-201D, Sheets 1 and 2, Revision C.

(b) Contents

(1) Type and form of material

- (i) Dewatered, solids, or solidified waste, meeting the requirements for low specific activity radioactive material as defined in 10 CFR §71.4(g), in secondary containers; or
- (ii) Activated solid components meeting the requirements for low specific activity radioactive material as defined in 10 CFR §71.4(g).

(2) Maximum quantity of material per package

Greater than Type A quantities of radioactive material.

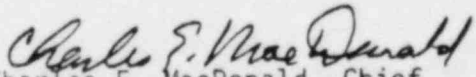
- 6. Shoring shall be placed between secondary containers (or activated components) and the cask cavity to prevent movement during normal conditions of transport.
- 7. Prior to each shipment, the packaging lid seals shall be inspected. The seals shall be replaced with new seals if inspection shows any defects or every twelve (12) months, whichever occurs first.
- 8. The package authorized by this certificate shall be transported on a vehicle, railroad car, aircraft, inland water craft, or hold or deck of a seagoing vessel assigned for sole use of the licensee.
- 9. Lid lifting devices shall be covered prior to transport to prevent its use as tie-down devices.
- 10. The cask body and each cask lid shall be marked in accordance with 10 CFR §71.53(c).
- 11. The package authorized for use by this certificate is hereby approved for use under license provision of 10 CFR §71.12(b).
- 12. Expiration date: February 28, 1986.

REFERENCES

Nuclear Packaging, Inc. application dated September 19, 1980.

Supplements dated: December 12 and 18, 1980; and August 25, 1982.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION


Charles E. MacDonald, Chief
Transportation Certification Branch
Division of Fuel Cycle and
Material Safety

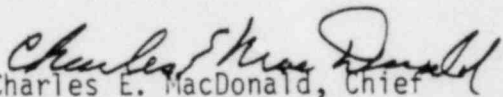
Date: SEP 03 1982

U.S. Nuclear Regulatory Commission
Transportation Certification Branch
Approval Record
Model No. NUPAC 50 Packagings
Docket No. 71-9145

By application dated August 25, 1982, NUPAC has requested an amendment to Certificate of Compliance No. 9145 to permit a constant position of the tie-down/lifting lugs relative to the top of the casks.

The staff has reviewed these revisions and is in agreement with the applicant's conclusion that corresponding changes to the applicable sections of the SAR result in small changes in margins of safety but positive margins of safety are retained in all cases.

The requested revision does not effect the ability of the packaging design to meet the requirements of 10 CFR Part 71.


Charles E. MacDonald, Chief
Transportation Certification Branch
Division of Fuel Cycle and
Material Safety, NMSS

Date: SEP 03 1982