

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

1.(a) Certificate Number	1.(b) Revision No.	1.(c) Package Identification No.	1.(d) Pages No.	1.(e) Total No. Pages
6244	3	USA/6244/B()	1	3

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):

Chem-Nuclear Systems, Inc.
P.O. Box 1866
Bellevue, WA 98009

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

Chem-Nuclear Systems, Inc. application
dated April 22, 1974, as supplemented

3.(c) Docket No. 71-6244

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 No.: 6244

(2) Description .

The package consists of a steel and lead shielded cask. The cask is positioned within an overpack constructed of steel and honeycomb material. The gross weight of the package is 46,000 pounds.

The mild steel cask is approximately 111-1/2 inches in length and 58 inches in diameter. The walls, top, and bottom are of 2-inch thick steel plate. Shielding is provided by 2 inches of lead within the walls and 2-inch thick steel walls of the cask. The cask lid is secured to the cask body by twenty-four, 3/4-inch diameter bolts and is sealed by a compressible polyurethane seal. Lifting devices are attached to the lid and body of the cask.

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5. (a) Packaging (Continued)

(2) Description (Continued)

The cask is positioned within an overpack approximately 139-1/2 inches in overall length and 89-3/8 inches in diameter. Aluminum honeycomb material is confined by an outer steel shell 3/8-inch thick and an inner steel shell of 1/4-inch thickness. The overpack cover is of the same construction as the rest of the overpack and is secured to the walls by eight, 5/8-inch diameter bolts. Lifting devices are welded to the outer shell of the overpack cover.

(3) Drawings

The package is constructed in accordance with Nuclear Waste Systems Drawing No. 6930-1, Rev. E (Sheet 1 of 2) and Chem-Nuclear Systems Drawing No. 6930-1, Rev. D (Sheet 2 of 2).

(b) Contents

(1) Type and form of material

- (i) Greater than Type A quantities of byproduct material as process solids, either dewatered, solid, or solidified, in secondary container(s) which meet the requirements for Type A (49 CFR §173.389(j)) packaging, or
- (ii) Greater than Type A quantities of byproduct material as solid metal components in secondary containers, as required.

(2) Maximum quantity of material per package

Not to exceed 10 thermal watts of byproduct material.

- 6. The lifting lugs on the outside of the overpack shall be covered during transport to prevent their accidental use for the purpose of tie-down or lifting.
- 7. Shoring shall be placed between the secondary containers (or activated components) and the cask cavity to minimize movement during normal conditions of transport.
- 8. The lid polyurethane seal shall be replaced at least every six (6) months and prior to final closure for each shipment of contents specified in Item 5.(b)(1)(ii) above. The secondary container(s) specified in Item 5.(b)(1)(i) above need not meet the requirement for Type A packaging provided the lid polyurethane seal is replaced prior to final closure for each shipment.

9. The package authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR §71.12(b).
10. Expiration date: May 31, 1984

REFERENCES

Chem-Nuclear Systems, Inc. application dated April 22, 1974.

Supplements dated: June 19, 1978 and June 5, 1979

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

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

Date: JUL 30 1979

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