Form NRC-618
(12-73)
10 CFR 71

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 |
|---|---|---|---|---|
| 9039 | 4 | USA/9039/B( ) | 1 | 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):

Technical Operations, Inc.
Northwest Industrial Park
Burlington, MA 01803

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

Technical Operations, Inc. application dated March 10, 1975, as supplemented.

3.(c) Docket No. 71-9039

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.: 715

(2) Description

A protective overpack for radiographic devices. The overpack consists of an MS-27683-2, 18-gage steel drum; 14-gage clamp closure ring fastened by a bolt; 1.5 inches of Mil-I-2781 or Mil-2819 high temperature insulation; and a molded rubberized hair filler material. Overall dimensions of the overpack are approximately 15.5-inch diameter by 24-inch high. Maximum weight including contents is 105 pounds.

(3) Drawings

The radiographic devices, as secondary packaging authorized for use in the overpack are constructed in accordance with the following Technical Operations, Inc. Drawing Nos.:

| Model No. | Drawing Nos. |
|---|---|
| 533 | D53301, Rev. B |
| 616 | D61699, Rev. O |
| 644 | D64400, Rev. I |
| 713 | C71301, Rev. O |
| | D53301, Rev. B |

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5. (b) Contents

(1) Type and form of material

Iridium-192 as sealed sources that meet the requirements of special form as defined in §71.4(o) of 10 CFR Part 71.

(2) Maximum quantity of material per package

(i) 120 curies contained in the Model No. 533, Model No. 644 or Model No. 713 radiographic device.

(ii) 240 curies contained in the Model No. 616 radiographic device.

6. Source assemblies for use in this packaging are limited to those assemblies as identified in Technical Operations, Inc. Drawing No. C42400, Rev. F, Sheet 2, and Sheet 3 of 3.

7. Separate molded filters shall be used for each model type radiographic device to ensure a snug fit within the overpack.

8. Nameplates shall be fabricated of materials capable of resisting the fire test of 10 CFR Part 71 and maintaining their legibility.

9. The packaging authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR §71.12(b).

10. Expiration date: August 31, 1980.

REFERENCES

Technical Operations, Inc. application dated March 10, 1975.

Supplements dated: April 11, 1975 and November 16, 1977.

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: MAY 20 1980