

Pryor Foundry, Inc.

Subsidiary of JI Case
A Tenneco Company

71-9033
PDR
Return
to:
396SS

P. O. Box 549
Pryor, Oklahoma 74361
(918) 476-8321

October 29, 1982



Mr. Charles E. MacDonald, Chief
Transportation Branch
Division of Materials and Fuel Cycle Facility Licensing
Office of Nuclear Material Safety and Safeguards
United States Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. MacDonald:

In accordance with 10 CFR 71.12 (b) (1) (111), Pryor Foundry, Inc. Post Office Box 549, Pryor, Oklahoma 74361, NRC License No. 35-18099-01, requests to be registered as a user of Tech/Ops Model 650, Package Identification Number USA/9033/B, under terms of Certificate Compliance Number 9033 issued to Technical Operations, Incorporated, Radiation Products Division, Burlington, Massachusetts.

This certificate includes Tech/Ops Capsule Model No. A-424-9.

Sincerely,

A handwritten signature in cursive script, appearing to read "J. H. Gilbreath".

Jack H. Gilbreath
Manager, Foundry Operations

JHG:pr
Encl.

- 1. USA-9033/B
- 2. USA-0154/S



FEE EXEMPT



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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
9033	3	USA/9033/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, Massachusetts 01803

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

Technical Operations, Inc. application
dated November 8, 1974.

3.(c) Docket No. 71-9033

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.: 660 and 660E
- (2) Description:

A steel encased, uranium shielded Gamma Ray Projector. Primary components consist of an outer steel shell, polyurethane potting material, uranium shield, Zircalloy or Titanium "S" tube, and end plugs. The contents are securely positioned in the "S" tube by a source cable locking device and shipping plug. Tamper-proof seals are provided on the packaging. The maximum total weight of the package is approximately 48 pounds.

(3) Drawings

The packaging is constructed in accordance with the Technical Operations, Inc. Drawings Nos. 66025, Rev. A, Sheets 1, 2, and 3.

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PP-

5. (b) Contents

(1) Type and form of material

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

(2) Maximum quantity of material per package

120 curies

6. The source assembly for use with this packaging is limited to Technical Operations, Inc. Model No. A424-9 as shown in Technical Operations, Inc. Drawing No. C42400, Sheet 2 of 3, Rev. F.
7. The name plate shall be fabricated of materials capable of resisting the fire test of 10 CFR Part 71 and maintaining their legibility.
8. The package authorized by this certificate is hereby approved for use under general license provisions of Paragraph 71.12(b) of 10 CFR Part 71.
9. Expiration date: July 31, 1984.

REFERENCES

Technical Operations, Inc. application dated November 8, 1974.
Supplements dated: December 15, 1978 and June 15, 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 25 1979



DEPARTMENT OF TRANSPORTATION
 RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION
 WASHINGTON, D.C. 20590

IAEA CERTIFICATE OF COMPETENT AUTHORITY

Special Form Radioactive Material Encapsulation

Certificate Number USA/0154/S

(Revision 2)

This certifies that the encapsulated sources, as described, when loaded with the authorized radioactive contents, have been demonstrated to meet the regulatory requirements for special form radioactive materials as prescribed in IAEA 1/ and USA 2/ regulations for the transport of radioactive materials.

I. Source Description - The source capsules described by this certificate are identified as the Technical Operations, Inc., Models which are described and constructed as follows:

<u>Capsule Model</u>	<u>Approximate Size</u> (in inches, diameter x length)
✓60001 A424-9	.25 x .97
✓60004	.25 x .97
60006 Pellet, Wafer or Large Wafer	.25 x .90
68310 Pellet or Wafer	.25 x .78
60017	.25 x .97
60018	.25 x .97

All capsules are constructed of either 304 or 304L stainless steel and conform with the following design drawings:

<u>Capsule Model</u>	<u>Drawing Number</u>
60001	B60001 - 1 Rev. H and - 2 Rev. F
60004	B60001 - 1 Rev. H and B60004 - 1 Rev. D
60006 Pellet	B60006 - 1 Rev. H and B60001 - 2 Rev. F
60006 Wafer	B60006 - 1 Rev. H and B60004 - 1 Rev. D
60006 Large Wafer	B60006 - 2 and B60001 - 2 Rev. F
68310 Pellet	C68310 Rev. B and B68310-3
68310 Wafer	C68310 Rev. B
60017	B60017 Rev. A
60018	B60018 Rev. A

II. Radioactive Contents - The authorized radioactive contents consist of metallic Iridium-192 with not more than 240 Curies in models 60001, 60004, 60006 Pellet, Wafer and Large Wafer or 120 Curies in models 60017, 60018, 68310 Pellet and Wafer.

III. This certificate, unless renewed, expires December 31, 1984.

This certificate is issued in accordance with paragraph 803 of the IAEA Regulations 1/, and in response to the December 29, 1980, petition by Technical Operations, Inc., Burlington, Massachusetts, and in consideration of the associated information therein.

Certified by:

R. R. Rawl

R. R. Rawl
Chief, Radioactive Materials Branch
Office of Hazardous Materials Regulation
Washington, D.C. 20590

January 26, 1981
(Date)

1/ "Safety Series No. 6, Regulations for the Safe Transport of Radioactive Materials, 1973 Revised Edition", published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

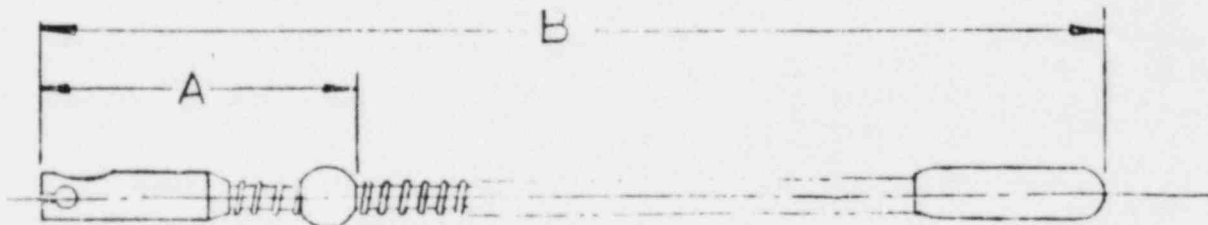
2/ Title 49, Code of Federal Regulations, Parts 170-178, USA.

Revision 1 issued to reference Capsule Model instead of source model number.

Revision 2 issued to include Models 60017 and 60018 and to extend expiration date.

REV.	DATE	DESCRIPTION	
A	12-18-78	SEE SHEET 2	FST

MODEL	CAPACITY (CURIES)	CAPSULE STYLE
A424-1	120	B60001 OR B60004
A424-9	120	B60001 OR B60004
A81401	120	B60001 OR B60004
A68309	120	C68310
B69701	120	B60001 OR B60004
A424-20	240	B60001 OR B60004
A58101	240	B60005
A424-6	120	B60001 OR B60004



MATERIALS

FINISH

DRAWN BY

CHECKED BY

APPROVED BY

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

.X ±

.XX ±

.XXX ±

ANGLES ±

FRACTIONS ±



TECHNICAL OPERATIONS INC.
RADIATION PRODUCTS DIVISION
BURLINGTON, MA 01803

DWG TITLE

192
IRIDIUM SOURCE REFERENCE

CLASSIFICATION

SIZE

DWG. NO.

A

60050

REV.

A

SCALE 1:1

SHEET 1 OF 2