

Alpha - Omega Services, Inc.

R A D I A T I O N T H E R A P Y S O U R C E S A N D A C C E S S O R I E S

May 22, 1990

U.S. NUCLEAR REGULATORY COMMISSION
Division of Safeguards and Transportation Branch NMSS
Washington, DC 20555

Attn: Charles E. MacDonald, Chief

Ref: Docket 71-5979
AOS Model 5979 Shipping Cask
USA/5979/B()

Dear Mr. MacDonald:

ALPHA-OMEGA SERVICES, INC. respectfully requests a renewal of our Certificate of Compliance #5979, due to expire July 31, 1990.

There have been no changes since last application and certification review. There has never been any incidents or any unsafe occurrences with the 5979.

Enclosed in triplicate, you will find:

1. Copies of our current Certificate of Compliance
2. USNRC Quality Assurance Program approval
3. Drawings of 5979 unit
4. Copies of our current U.S. Competent Authority

Also enclosed is our check for \$150.00 to cover the renewal fee as per 10CFR 170:31,10(B).

Sincerely,

ALPHA-OMEGA SERVICES, INC.

Richard L. Southern

Richard L. Southern
Regulatory Manager

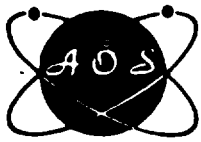
cc: Michael E. Wangler
Chief, Radioactive Branch
Office of Hazardous Material & Transportation

RLS/elb

9005300139 900522
FDR ADCK 07105979
C PDC

Rec'd w/ \$150.00 CH# 3933

71-5979
N102
1/1



Alpha - Omega Services, Inc.

A D I A T I O N T H E R A P Y S O U R C E S A N D A C C E S S O R I E S

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SEC. I

CERTIFICATE OF COMPLIANCE
FOR RADIOACTIVE MATERIALS PACKAGE

U.S. NUCLEAR REGULATORY COMMISSION

1 a. CERTIFICATE NUMBER 5979	b. REVISION NUMBER 6	c. PACKAGE IDENTIFICATION NUMBER USA/5979/B()	d. PAGE NUMBER 1	e. TOTAL NUMBER PAGES 2
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REAMBLE

- a. This certificate is issued to certify that the packaging and contents described in Item 5 below, meets the applicable safety standards set forth in Title 10, Code of Federal Regulations, Part 71, "Packaging of Radioactive Materials for Transport and Transportation of Radioactive Material Under Certain Conditions."
- b. 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

a. PREPARED BY (Name and Address):

Alpha-Omega Services, Inc.
16220 Gundry Avenue
Paramount, CA 90723

b. TITLE AND IDENTIFICATION OF REPORT OR APPLICATION:

Alpha-Omega Services, Inc. application dated
June 1980, as supplemented.

71-5979

c. DOCKET NUMBER

4 CONDITIONS

This certificate is conditional upon fulfilling the requirements of 10 CFR Part 71, as applicable, and the conditions specified below

5.

(a) Packaging

(1) Model No.: 5979

(2) Description

A shipping container for teletherapy cobalt sources. Configuration of the outer container is box-like measuring approximately 38" x 50" x 40". The box is lined with 4.5" of plywood with a 0.125" outer steel shell welded to an exterior angle framework. Transverse strips across the bottom facilitate use of a fork-lift and lifting lugs are provided at the four top corners. The inner shield vessel is essentially a 24" diameter, lead-filled, barrel-shaped configuration. Three different cylindrical plug inserts and bolted end caps provide flexibility to accommodate several sizes and shapes of sources. Gross weight is approximately 5,000 lbs.

(3) Drawings

The packaging is constructed in accordance with Alpha-Omega Services, Inc. Drawing Nos.: 0090, Rev. 0; 0091, Rev. 0; 0092, Rev. 0; and 0093, Rev. 0.

8507120625 3pp.

5. (b) Contents

(1) Type and form of material

Cobalt 60 or cesium 137 as sealed sources which meet the requirements of special form radioactive material.

(2) Maximum quantity of material per package

15,000 curies Co-60 or 3,000 curies Cs-137, with decay heat load not to exceed 200 watts.

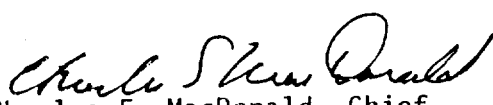
6. Lifting eyes shall be covered or blocked to prevent use as tie-down attachments.
7. The shield vessel closures shall be equipped with gaskets.
8. Bolts used to secure the shield vessel closure caps shall be secured against loosening by vibration during transport.
9. The package authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR §71.12.
10. Expiration date: July 31, 1990.

REFERENCES

Alpha-Omega Services, Inc. application dated June 1980.

Supplement dated: April 12, 1983.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION


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

Date: JUL 02 1985



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

Transportation Certification Branch
Approval Record
Model No. 5979 Package
Docket No. 71-5979

By application dated June 11, 1985, Alpha-Omega Services, Inc. requested renewal of Certificate of Compliance No. 5979. No changes have been requested or made to the package since approval of the latest supplement dated April 12, 1983.

The staff concludes that the statements of the original application, as supplemented, satisfy the requirement for renewal of the Certificate of Compliance.

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

Date: JUL 12 1985

Model No. 5979
USA/5979/B()

Addressees: w/encls

Ltr dtd: JUL 0 2 1985

Alpha-Omega Services, Inc.
ATTN: Mr. Bill Bradley
16220 Gundry Avenue
Paramount, CA 90723

General Electric Company
ATTN: Mr. G. E. Cunningham
P.O. Box 460
Pleasanton, CA 94566

Therapy Services, Inc.
ATTN: Mr. J. L. Togle
5409 Feagaville Lane
Frederick, MD 21701

X-Ray Equipment Company
ATTN: Mr. Clyde Peabody
P.O. Box 2431
Fort Worth, TX 76113

SEC. II

QUALITY ASSURANCE PROGRAM APPROVAL
FOR RADIOACTIVE MATERIAL PACKAGES

1. APPROVAL NUMBER

0086

REVISION NUMBER

4

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974, as amended, and Title 10, Code of Federal Regulations, Chapter 1, Part 71, and in reliance on statements and representations heretofore made in Item 5 by the person named in Item 2 the Quality Assurance Program identified in Item 5 is hereby approved. This approval is issued to satisfy the requirements of Section 71.101 of 10 CFR Part 71. This approval is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

2. NAME

Alpha-Omega Services, Inc.

3. EXPIRATION DATE

November 30, 1994

STREET ADDRESS

16220 Gundry Avenue

4. DOCKET NUMBER

CITY

Paramount

STATE

CA

ZIP CODE

90723

71-0086

5. QUALITY ASSURANCE PROGRAM APPLICATION DATE(S)

May 25, 1983 and October 10, 1989

6. CONDITIONS

Activities conducted under applicable criteria of Subpart H of 10 CFR Part 71 to be executed with regard to transportation packages for radioactive material in special form.



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Charles E. MacDonald
Charles E. MacDonald

CHIEF, TRANSPORTATION CERTIFICATION BRANCH
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY
OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS

DATE

8912200390 1P.

SEC. III

1872-1873

FIGURE WITHHELD UNDER 10 CFR 2.390

				ALPHA-Omega SERVICES, INC.		
				Model 1-2-3	APPROVED BY	MADE BY ALB
				DATE 5-6-80		GRADE
				GENERAL ARRANGEMENT - CONTINUED		
Copy of	2-12-1-1	OF	2-12-1-1	GENERAL ARRANGEMENT - CONTINUED		0000

0051 0051		DETAILS	
CONTAINER/TRANSFER CASE			
0051 0051		0051 0051	
ALPHA-OMEGA SERVICES, INC.			

FIGURE WITHHELD UNDER 10 CFR 2.390

2500 <small>UNITED STATES</small>		2500 - 2500 - 2500	
2500 - 2500 - 2500			
2500 <small>UNITED STATES</small>	2500 <small>UNITED STATES</small>	2500 <small>UNITED STATES</small>	2500 <small>UNITED STATES</small>
2500 - 2500 - 2500			

FIGURE WITHHELD UNDER 10 CFR 2.390

FIGURE WITHHELD UNDER 10 CFR 2.390

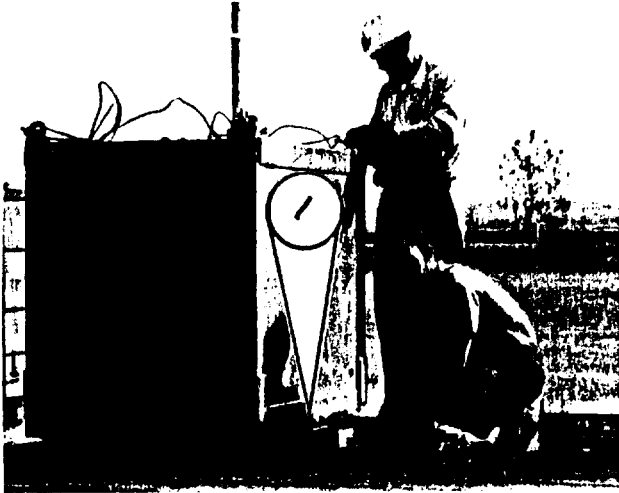
ALMA - CHEMICAL SERVICES INC.			
NAME		ADDRESS	
DATE		DATE OF BIRTH	
ESTABLISHED - CHEMICAL SERVICES INC.			
DATE OF BIRTH		DATE OF BIRTH	

HANDLING PROCEDURE

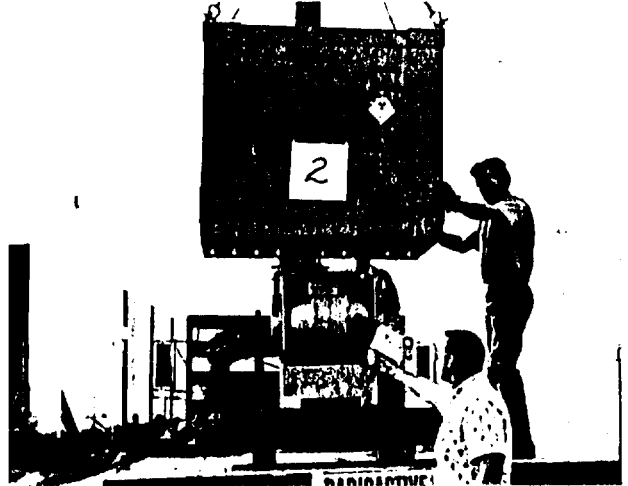
Shipment consists of:

One box 40" x 50" x 48" high (53 feet cube) weight 5400 pounds.

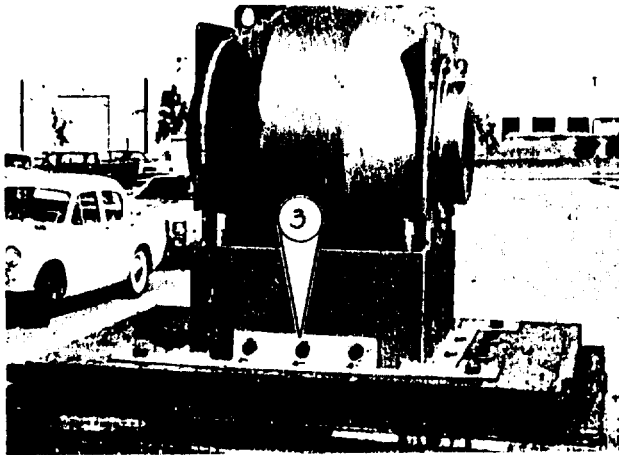
Two boxes (wheels and tools) 14" x 24" x 53" long (18 feet cube for two) - weight 200 pounds.



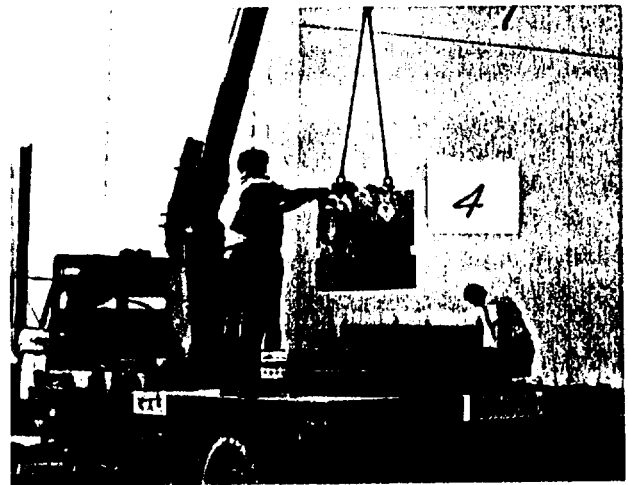
1. Remove 36 each Hex. Hd. bolts 3/4NC 10 x 2" - note corner cut match mark for proper reassembly.



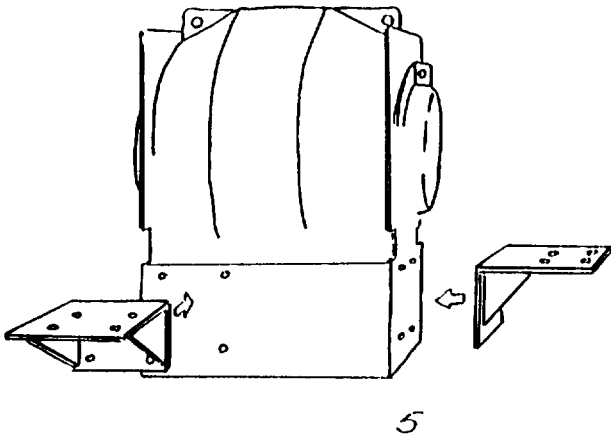
2. Remove 5 sided box - weight approximately 1500 pounds.



3. Remove 6 each Hex. Hd. cap screws 5/8NC 11 x 1 1/2".



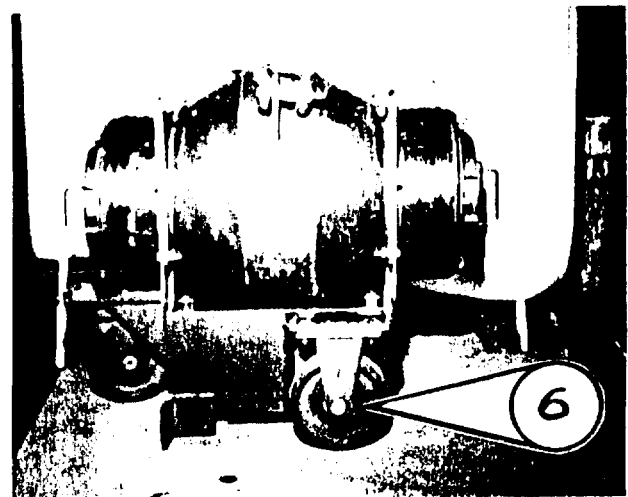
4. Lift steel and lead container weight 3400 pounds.



5. Hold container at a convenient level and install wheel support brackets 3 each using 12 each 1/2NC 13 Hex. Hd. cap screws.

Note: Some holes in some containers are tapped; others all are tapped.

Where tapped holes are adjacent to jack screw, select proper length of cap screw to insure that it does not bind the jack screw.



6. Install wheels onto support brackets with 12 each Hex. Hd. bolts 1/2NC 13 x 2" with nuts.

Min. door opening unit will pass 32" less wheel support brackets 24".

SEC. IV



U.S. Department
of Transportation

**Research and
Special Programs
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590

Exp 7/31/90

COMPETENT AUTHORITY CERTIFICATION
FOR A TYPE B()
RADIOACTIVE MATERIALS PACKAGE DESIGN
CERTIFICATE USA/5979/B(), REVISION 2

This certifies that the radioactive materials package design described below has been certified by the competent authority of the United States as meeting the regulatory requirements for a Type B() packaging for radioactive materials as prescribed in the IAEA¹ and USA² regulations.

1. Package Identification - Model No. 5979
2. Packaging Description and Authorized Radioactive Contents - as described in Nuclear Regulatory Commission Certificate of Compliance No. 5979, Revision 6 (attached).
3. GENERAL CONDITIONS -
 - a. Each user of this certificate must have in his possession a copy of this certificate and all documents necessary to properly prepare the package for transportation.
 - b. Each user of this certificate, other than the original petitioner, shall register his identity in writing to the Office of Hazardous Materials Regulation, Research and Special Programs Administration, U.S. Department of Transportation, Washington D.C. 20590.
 - c. This certificate does not relieve any consignor or carrier from compliance with any requirement of the Government of any country through or into which the package is to be transported.

¹"Safety Series No. 6, for the Safe Transport of Radioactive Materials, 1967 Edition" published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

²"Title 49, Code of Federal Regulations, Parts 100 - 199, USA."

CERTIFICATE USA/5979/B(), REVISION 2

4. The package shall bear the marking USA/5979/B() in addition to other required markings and labeling.

5. This certificate, unless renewed, expires on July 31, 1990.

Certified by:



August 9, 1985

Richard R. Rawl
Chief, Radioactive Materials Branch
Office of Hazardous Materials Regulation
Materials Transportation Bureau

Revision 2 - issued to incorporate Rev. 6 of NRC certificate; extend expiration date.