

Alpha - Omega Services, Inc.

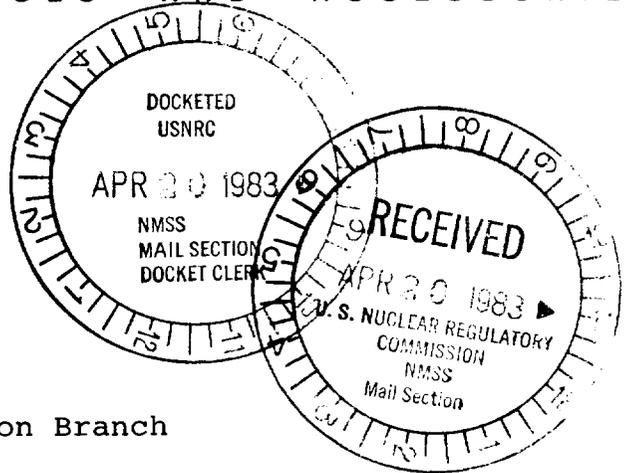
71-5979

PDR Return

RADIATION THERAPY SOURCES AND ACCESSORIES

to 39155

April 12, 1983



U.S. NUCLEAR REGULATORY COMMISSION  
Div. of Fuel Cycle and Material Safety  
Washington, D.C. 20555

Attention: Mr. C.E. MacDonald, Chief  
Transportation Certification Branch

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

Dear Mr. MacDonald:

ALPHA-OMEGA SERVICES, Inc. hereby requests an amendment to Certificate of Compliance Number 5979, Revision 3, adding as authorized contents 3,000 curies of Cesium 137 in Special Form encapsulation.

The AOS Model 5979 cask is currently authorized to carry a maximum of 15,000 curies of Cobalt 60 in Special Form encapsulation with a package heat load limit of 200 watts. This requested amendment would also permit the carriage of 3,000 curies of Cesium 137 in Special Form encapsulation meeting the requirements of 10 CFR 71.4 (o). The 200 watt package heat load limit would apply to the Cesium contents as it does to the Cobalt contents.

The Cesium gamma energy, at approximately .66 Mev per disintegration, is substantially lower than that of Cobalt 60, which produces two gamma photons of 1.33 Mev and 1.17 Mev per disintegration. On a per-curie basis, the Cesium source strength is about one-fourth of that of the Cobalt. Furthermore, the proposed Cesium loading in the Model 5979, is one-fifth of the currently authorized Cobalt contents. It is clear from above that the proposed Cesium contents are well within the design basis of the Model 5979 cask.

We believe that the requested addition to the authorized contents constitutes an administrative amendment when we compare the Cesium source parameters to the Model 5979 cask design. Accordingly, a check in the amount of \$150.00 is enclosed in compliance with 10 CFR 170.31 (11) (C).

8304270045 830412  
PDR ADDCK 07105979  
PDR  
C

Applicant	.....
Check No.	5373
Amount, Fee Category	150.00
Type of Fee	.....
Enc Check Ac'd	.....
Received By	J. Schmitt

83 APR 15 AM 1:14

20175

*Alpha-Omega Services, Inc.*

We have a fairly pressing shipping schedule which calls for the movement of a Cesium source on April 21, 1983. We apologize for the timing of this amendment request, and hope that your review process will allow us to meet our shipping commitments. If you have any questions on the above amendment request, please contact: Mr. Bruce Hedger, of our firm at (213)630-4221.

Respectfully submitted,

ALPHE-OMEGA SERVICES, Inc.



Bruce Hedger  
Vice President

BH/elb

Enclosure Check #5393

cc. R.R. Rawl, Chief  
Radioactive Materials Branch  
Office of Hazardous Materials Regulation  
Materials Transportation Bureau  
U.S. Department of Transportation  
Washington, D.C. 20590

04/20/83 INITIAL ABC

Letter regarding  
the Amtrak

DESCRIPTION:

<input checked="" type="checkbox"/>	FCU
<input type="checkbox"/>	FCAF
<input type="checkbox"/>	WM
<input type="checkbox"/>	WMUR
<input checked="" type="checkbox"/>	FCU
<input type="checkbox"/>	PDR
<input type="checkbox"/>	LPR
<input checked="" type="checkbox"/>	IS&N
<input type="checkbox"/>	SAFEGUARDS
<input type="checkbox"/>	OTHER

DATE RCVD. 04/20/83

DATE OF DOC. 04/12/83

CONTROL NO. 22175

DOCKET NO. 71-5979

Docket No. 71-5979

William O. Miller, License Fee Management Branch, ADM

MATERIALS LICENSE AMENDMENT CLASSIFICATION

Applicant: Alpha Omega  
 License No: 5979 Fee Category: 11C  
 Application Dated: 4/12/83 Received: 4/15/83  
 Applicant's Classification: Administrative

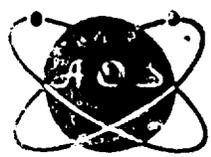
The above application for amendment has been reviewed by NMSS in accordance with §170.31 of Part 170, and is classified as follows:

1. Safety and Environmental Amendments to Licenses in Fee Categories 1A through 1H, 2A, 2B, 2C, and 4A
  - (a)  Major safety and environmental
  - (b)  Minor safety and environmental
  - (c)  Safety and environmental (Categories 1D through 1G only)
  - (d)  Administrative

2. Justification for reclassification: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

3. The application was filed (a)  pursuant to written NRC request and the amendment is being issued for the convenience of the Commission, or (b)  Other (State reason): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Signature R H Olegard  
 Division of Fuel Cycle & Material Safety  
 Date 04/20/83



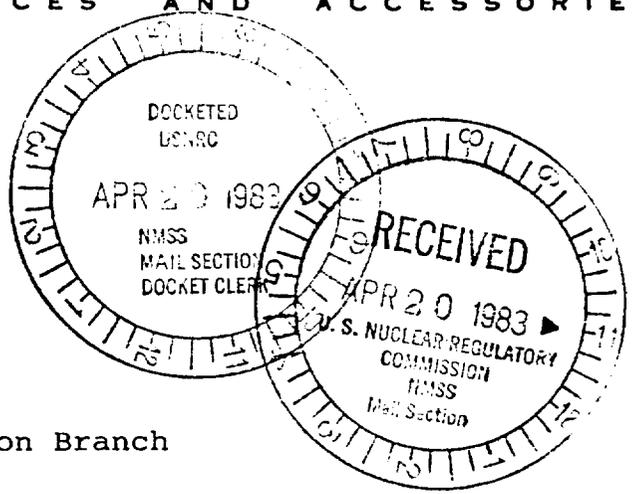
Region V

71-5979

Alpha - Omega Services, Inc.

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April 12, 1983



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Div. of Fuel Cycle and Material Safety  
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71-5979-283

Applicant	.....
Case No.	283
Amount, Fee Category	\$150.00
Type of Fee	.....
Check No.	1513
Received By	.....

83 APR 15 AM 1:14

22175

Alf 2 - Omega Services, Inc.

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Bruce Hedger  
Vice President

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