

REGISTRATION CERTIFICATE—USE OF DEPLETED URANIUM UNDER GENERAL LICENSE

Section 40.25 of 10 CFR Part 40 establishes a general license authorizing the use of depleted uranium contained in industrial products or devices for mass-volume applications. This Form NRC-244 shall be submitted within 30 days after the first receipt or acquisition of such depleted uranium.

Massachusetts General Hospital
Fruit Street
Boston, Massachusetts 02114

3. I hereby file Form NRC-244 pursuant to § 40.25 of 10 CFR Part 40, for use of depleted uranium contained in industrial products or devices for mass-volume applications.

4. To be completed by the Nuclear Regulatory Commission.

INSTRUCTIONS

1. Submit this form in triplicate to:
Director, Division of Nuclear Safety
U.S. Nuclear Regulatory Commission
Washington D.C. 20555

FILE NUMBER:

126

(Leave this space blank—number to be assigned by NRC)

2. Please print or type the name and address (including ZIP code) of the registrant for whom this form is filed. Position the first letter of the address below the left dot and do not extend the address beyond the right dot. (At NRC, a file number will be assigned and a copy of NRC-244 will be returned.)

5. Name and/or title, address, and telephone number of the individual duly authorized to act for and on behalf of the registrant in supervising the procedures identified in 10 CFR 40.25(c)(1)(ii).
Tele: 617-726-8326
Edward W. Webster, Ph.D.
Acting Radiation Safety Officer
Department of Radiology
Massachusetts General Hospital
Fruit Street, Boston, Massachusetts 02114

6. Certification

I hereby certify that:

- a. All information in this registration certificate is true and complete.
- b. The registrant has developed and will maintain procedures designed to establish physical control over the depleted uranium described in 10 CFR 40.25(a) and designed to prevent transfer of such depleted uranium in any form, including metal scrap, to persons not authorized to receive the depleted uranium.
- c. I understand that Commission regulations require that any changes in information furnished by a registrant on this registration certificate be reported in writing to the Director of Inspection and Enforcement within 30 days after the effective date of such change.
- d. I understand that the registrant is required to comply with the provisions of Section 40.25 of the NRC's regulation 10 CFR Part 40 (reprinted on the reverse side of this form) with respect to all depleted uranium which he receives, acquires, uses, or transfers under the general license for which this registration certificate is filed with the Nuclear Regulatory Commission.

DATE: August 28, 1990

BY: Edward W. Webster
(Signature of person filing form)

Edward W. Webster, Ph.D., Acting Radiation Safety Officer

(Printed name and title of person filing form)

WARNING: 18 U.S.C., Section 1001, Act of June 25, 1948; 62 Stat. 749, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

DESCRIPTION OF DEPLETED URANIUM
 SUPPLIED BY VARIAN ASSOCIATES
 IN CLINAC 600C 4MV LINAC



Held by Massachusetts General Hospital
 under General License - registration filed on
 Form NRC 244 on August 28, 1990

**DEPLETED URANIUM COMPONENTS
 IN THE CLINAC 4, 4S, 6X, 4/100, 6/100, AND 600C**

Clinac 4, 4S and 6X

<u>Part Containing Uranium</u>	<u>No. of Parts</u>	<u>(pounds)</u>	
		<u>Unit Weight</u>	<u>Total Weight</u>
Primary collimator	1	68	68
Upper jaw	2	31	62
Lower jaw	2	53	106
Face plate shield	2	8.5	17
Gun shield	1	18.5	18.5
Gun shield disks	-	-	-
Total Pounds:			271.5

Clinac 4/100, 6/100 and 600C

<u>Part Containing Uranium</u>	<u>No. of Parts</u>	<u>(pounds)</u>	
		<u>Unit Weight</u>	<u>Total Weight</u>
Primary collimator	1	96	96
Upper jaw		Tungsten replacement	
Lower jaw		Tungsten replacement	
Face plate shield	2	8.5	17
Gun shield	-	-	-
Gun shield disks	3	40	120
Total Pounds:			233

Element and Mass Number: U-238
 Physical Form: Metal Alloy U-0.75% Titanium
 Specific Activity: 3.6×10^{-7} Ci/gm
 Purpose of Use: Shielding
 Isotope U-235 is less than 0.25 weight percent of total uranium present.