

# Research Medical Center™

*Your HCA Midwest Hospital*

3 February 2011

U. S. Nuclear Regulatory Commission  
Region III  
Materials Licensing Section  
2443 Warrensville Road, Suite 210  
Lisle, Illinois 60532-4352

Re: Addendum to application for renewal of license number 24-18625-01

Varian has provided us with the amount of depleted uranium in a Clinac 4, which we did not have at the time our application was submitted. Their information sheet is attached.

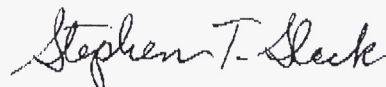
Total weight of uranium-titanium alloy      271.5 pounds

123.4 kilograms

Activity      44.4 mCi

Should you need further information, please feel to contact me at (816) 276-4449.

Sincerely,



Stephen T. Slack, Ph. D.  
Radiation Safety Officer

attachment

Depleted Uranium Components  
Clinac 4, 4S, 6X

A.	Clinac 4, 4S and 6X		(Pounds)	(Pounds)
a.	<u>Part Containing Uranium</u>	No. of Parts	Unit Weight	Total Weight
	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

B. Characteristics:

- Element and Mass Number: U-238
- Physical Form: Metal Alloy U-0.75 titanium
- Specific Activity:  $3.6 \times 10^{-7}$  ci/gm
- Purpose of Use: Shielding