

**KAST METALS CORPORATION**

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RETURN TO  
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39655



August 13, 1981

Director, Division of Material Licensing  
The Nuclear Regulatory Commission  
Washington, DC 20545

SUBJECT: SOURCE MATERIAL LICENSE (DEPLETED URANIUM)

Gentlemen:

Please accept this letter as our formal application for a radioactive materials license to cover the depleted uranium which is used as shielding material in the Varian Associates linear accelerator Linatron 200.

The amount of depleted uranium used in the Linatron 200 is approximately 200 pounds, and is obtained from natural uranium as a by-product of the gaseous diffusion process to extract U-235 for weapons production. The U-235 content has been reduced from the normal 0.7% to less than 0.2%, therefore, the material is greater than 99.8% U-238. There is no information available as to the time of separation for the individual pieces used except that it could have been from 2 to 24 years. All pieces of depleted uranium used in the Linatron 200 are cadmium plated to prevent oxidation and steel stamped with the impression "Caution Radioactive Material Depleted Uranium." This material presents no significant hazard and more than 150 licenses have been granted by both state and Federal agencies of the former AEC for this application during the past five years.

Please forward the radioactive material license to the undersigned as soon as possible.

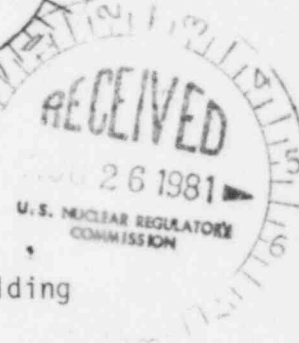
Very truly yours,

KAST METALS CORPORATION

*Harold T. Woodruff*

H. T. Woodruff  
Radiation Safety Officer

jr



**FEE EXEMPT**  
*depleted uranium*  
19825