



Timken Mercy Medical Center

1320 Timken Mercy Drive N.W. • Canton, Ohio 44708 • 216-489-1000

June 13, 1985

License Management Branch
Region III
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Dear Sir:

This constitutes an application for amendment of NRC Byproduct Material License No. 34-01954-01.

The Cobalt-60 Teletherapy Unit is scheduled for replacement in August 1985 with a Varian Associates Radiotherapy Linear Accelerator. The Linear Accelerator will be located in the basement of the high-rise area in a room labeled "Radiation Therapy". Approximately 230 lbs. of depleted uranium is used as shielding material in the collimating jaws of the Linear Accelerator. We request the NRC license be changed to authorize this institution to possess this amount of depleted uranium.

The following statement is provided by Varian Associates regarding the depleted uranium:

"The Clinac 6/100 contains approximately 230 lbs. of depleted uranium. This material is a byproduct of the gaseous diffusion process where fissionable U-235 is extracted from natural uranium. It consists of at least 99.7% U-238 and less than 0.3% U-235. Because the metal is highly reactive, each piece of depleted uranium is cadmium plated to prevent surface corrosion. Some accelerator shielding components are manufactured with a depleted uranium alloy containing 0.75% titanium, which can readily be identified by its metallic green surface. The alloy is stable and does not require plating. Each piece of depleted uranium used in the Clinac 6/100 is steel stamped with the impression "Caution Radioactive Material - Depleted Uranium." Depleted uranium is only mildly radioactive (specific activity of 3.6×10^{-7} Ci/g) and as a shielding material presents no significant external radiation hazard."

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REGION III

FEE EXEMPT

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Amount \$9785.00
Check No. 9785
Amount For Category 7C
Date Check Rec'd 7/1/85
Received By [Signature]

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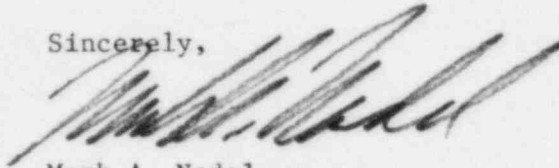
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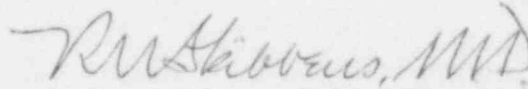
June 13, 1985

Enclosed is a check in the amount of \$120.00 to cover the cost of the license amendment.

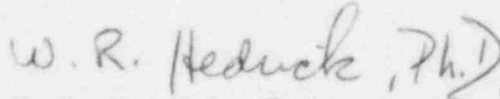
Sincerely,



Mark A. Nadel
President



R. V. Skibbens, M.D., Chairman
Department of Radiology



W. R. Hedrick, Ph.D.
Clinical Radiation Biophysicist

MAN/RVS/WRH/njc

Enclosure

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