



Butterworth
HOSPITAL

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June 10, 1987

U.S. Nuclear Regulatory Commission, Region III
Material Licensing Section
799 Roosevelt Rd.
Glen Ellyn, IL 60137

To Whom It May Concern:

This is a request for an amendment to our current NRC license number 21-00243-06. We would like to purchase a self-contained Cesium loaded blood irradiator for clinical and research applications. The unit being purchased is a Gamacell 1000 Blood Irradiator manufactured by Atomic Energy of Canada Limited. The Cesium source is also supplied by Atomic Energy of Canada and is a model B, 1200 Curie nominal activity (+ 20%) source. The requested possession amount is for 3,000 Curies to allow for variation in the nominal activity as well as for a second source on the premises during source exchange.

The individual responsible for the radiation safety and proper use of the irradiator will be Thomas Vitalis, the RSO for the hospital. Individuals who will operate the irradiator will receive training that includes: (1) the principles and fundamentals of radiation safety, (2) the use of radiation detection instruments, and (3) the operation of the blood irradiator.

The irradiator will be housed in a storage room within the blood lab. Access to the irradiator will be controlled by the use of a lock on the storage room door as well as keeping surveillance over the area in which the irradiator is contained to prevent access by unauthorized persons.

The radiation safety program covering the areas of personnel monitoring, radiation detection instrumentation and leak testing will be handled as is currently contained in our NRC license.

Finally, the operating and emergency procedures will include: (1) step by step operating procedures, (2) guidelines for personnel monitoring during operation of the irradiator, (3) controlled access to the irradiator when it is unattended, and (4) emergency procedures around the irradiator.

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U.S. Nuclear Regulatory Commission, Region III

NRC license #21-00243-06

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Please note that in addition to the request for the blood irradiator, we would also like to change the named Radiation Safety Officer on our license 21-00243-06, from Donald J. Blanchard to Thomas J. Vitalis. Enclosed you will find a completed form NRC 313M Supplement A documenting training and experience of the Radiation Safety Officer as well as a check for the appropriate license amendment fee.

If I can be of any further assistance in these matters, please contact me.

Sincerely,

A handwritten signature in cursive script that reads "Thomas J. Vitalis".

Thomas J. Vitalis, M.S.
Medical Physicist
(616) 774-1830

TJV/jm

Enclosure

TRAINING AND EXPERIENCE
AUTHORIZED USER OR RADIATION SAFETY OFFICER

1. NAME OF AUTHORIZED USER OR RADIATION SAFETY OFFICER Thomas J. Vitalis, M.S.	2. STATE OR TERRITORY IN WHICH LICENSED TO PRACTICE MEDICINE
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3. CERTIFICATION

SPECIALTY BOARD A	CATEGORY B	MONTH AND YEAR CERTIFIED C
American Registry of Radiologic Technologists	Radiation Therapy Tech.	NOv. 1981

4. TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES

FIELD OF TRAINING A	LOCATION AND DATE(S) OF TRAINING B	TYPE AND LENGTH OF TRAINING	
		LECTURE/ LABORATORY COURSES (Hours) C	SUPERVISED LABORATORY EXPERIENCE (Hours) D
a. RADIATION PHYSICS AND INSTRUMENTATION	Wayne State University Detroit, MI 1979 - 1985	390	32
b. RADIATION PROTECTION	Wayne State University Detroit, MI 1985	80	42
c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY	Wayne State University Detroit, MI 1979 - 1985	107	10
d. RADIATION BIOLOGY	Wayne State University Detroit, MI 1980	45	
e. RADIOPHARMACEUTICAL CHEMISTRY	Wayne State University Detroit, MI 1985	20	

5. EXPERIENCE WITH RADIATION. (Actual use of Radioisotopes or Equivalent Experience)

ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
Co-60	7000 Ci	Harper Hosp. Detroit, MI	4½ yrs.	teletherapy
I-125	100 mCi	Harper Hosp. Detroit, MI	4½ yrs	brachytherapy
Ir-192	150 mCi	Harper Hosp. Detroit, MI	4½ yrs.	brachytherapy
Cs-137	600 mCi	Harper Hosp. Detroit, MI Butterworth Hospital Grand Rapids, MI	6 yrs	brachytherapy brachytherapy