

RECEIVED BY LFMB	
Date.	11/1/83
Log.	Nov 2 Amend
By.	Brown
Orig. To.	United Blood Services 259 East Erie Street Chicago, Illinois 60611
Action Compl.	October 24, 1983

US Nuclear Regulatory Commission
Material Licensing Branch
Division of Fuel Cycle and
Material Safety
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Applicant.	371740-3E
Check No.	Amendment
Amount.	030-17277
Type of Fee	11/83
Date Check Recd.	Brown
Received By.	License No. 12-19296-01

Dear Sir/Madam:

United Blood Services would like to request an amendment to License No. 12-19296-01 to add a second self-contained Gammacell-1000 irradiator. This unit is manufactured by Atomic Energy of Canada, Limited. The current license allows possession of two Cesium-137 sealed sources with a combined total activity not to exceed 816 Curies. An amendment is requested which would allow possession of a second irradiator (self-contained) with a combined total Cesium-137 activity not to exceed 844 Curies. The Gammacell-1000 is a Model A, Type ISO-1000/82CS.

The Gammacell-1000 is designed with sufficient shielding to be used in an unshielded room. Dose rates are not to exceed 2 mR/hr at 1 meter and 20 mR/hr at 5 centimeters. It will be housed in the same room with the other irradiator.

As a precaution and a consideration of the ALARA concept, all employees using or working in close proximity to the Gammacell-1000 irradiators will wear film badges for at least six months. The badges will be changed monthly. In addition, there will be a room monitor located no more than 10 feet from the irradiators. If no exposures are recorded within the six-month test period, badges will be cancelled for employees. The room monitor, however, will be retained.

Training in the use of the irradiator will continue to be under the direction of Dr. Lloyd Cock, M.D., Medical Director, and Mr. Christopher Coffin, Technical Director. Both of these individuals are listed on the current license. A list is maintained of those United Blood Services employees who have received training in the operation of the irradiators. This policy will continue. Operation of the Gammacell-1000 will be demonstrated by the AECL personnel when the unit is delivered. Mr. Robert Ware is the Executive Director of the Chicago Branch of United Blood Services.

Emergency procedures will be posted in the immediate area of the irradiator. Included in these procedures will be phone numbers of responsible parties and where they can be located in the event of an emergency.

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OCT 26 1983

REGION III

Control No. 75817

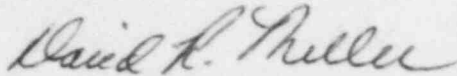
OCT 26 1983

Amendment request: License No. 12-19296-01

Dr. David Miller, Radiation Safety Officer, will continue to monitor the irradiator as specified in the original license application. He will be responsible for the leak testing of the sealed sources at six-month intervals.

The fee for the license amendment is enclosed. If additional information is needed, please contact Dr. David Miller, 312-649-8300, or Mr. Christopher Coffin, 312-751-1701.

Yours truly,



David R. Miller, Ph.D.
Radiation Safety Officer

cc: Dr. Lloyd Cood, M.D.
Mr. Christopher Coffin
Mr. Robert Ware

United Blood Services
259 East Erie Street
Chicago, Illinois 60611
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The Gammacell-1000 is designed with sufficient shielding to be used in an unshielded room. Dose rates are not to exceed 2 mR/hr at 1 meter and 20 mR/hr at 5 centimeters. It will be housed in the same room with the other irradiator.

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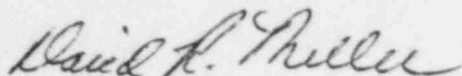
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