

20 York Street, New Haven, CT 06504

December 23, 1985

U.S. Nuclear Regulatory Commission Ms. Jenny M. Johansen Region I Nuclear Materials Safety Section 631 Park Avenue King of Prussia, PA 19406

Dear Ms. Johansen:

In response to the conditions of license No. 06-00139-03, Docket No. 030-01244, dated August 13, 1985, the Following information is supplied.

On November 25, 1985 a nominal 10 curie Ir-192 scurce was received at Yale-New Haven Hospital. A survey of the shipping container was performed using a Kiethley 36100 ion chamber. Radiation levels of 5.7 mR/hr at the surface and 0.1 mR/hr at 3 feet were recorded. A wipe test of the shipping crate as well as the source pig was performed, no contamination was found.

The source was loaded into the Gamma Med IIi by Felix W. Mick of Mick Radio-Nuclear Instruments Inc. The serial number of the source was found to be #611 which agreed with the serial number on the packing slip.

The following survey of the Gamma Med III after source exchange was made:

Gamma Med III

In the middle at contact Front end at contact Back end at contact In the middle at 1 meter Background Victoreen Thyac III (calibrated Oct. 17, 1985)

> 6 mR/hr 0.3 mR/hr 0.08 mR/hr 0.04 mR/hr 0.02 mR/hr

All interlocks and indicator lights were checked for proper operation. The timer mechanism was checked and the positioning of the source was verified.

With the Gamma Med IIi: Source exposed in the 4 MeV room the following radiation survey was performed. (see attached diagram)

1. Modulator Room

2. 4 MeV Operator's Console

3. Closet

4. 4 MeV Room Door

5. "Hot" spot in wall

6. Sagittaire Hallway Wall

7. Sagittaire Operator's Console

8604090217 851223 REG1 LIC30 06-00819-03 PDR <0.1 mR/hr <0.1 mR/hr

<0.1 mR/hr

(0.1 mR/hr

<0.3 mR/hr

<0.1 mR/hr <0.1 mR/hr

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U.S. Nuclear Regulatory Commission December 23, 1985 Page 2

On December 4, 1985 a measurement was made at 30 cm from the source in air. The radiation level was $0.856\ R/min$ and the computed activity of the source was $9.7\ cvries$.

Original notes and daily safety checklists are kept on file for NRC inspection. If you have any questions please feel free to contact me at (203) 785-2950.

Sincerely,

Michael J. Bohan Health Physicist

MJF:krm

attach: 4 MeV Room diagram

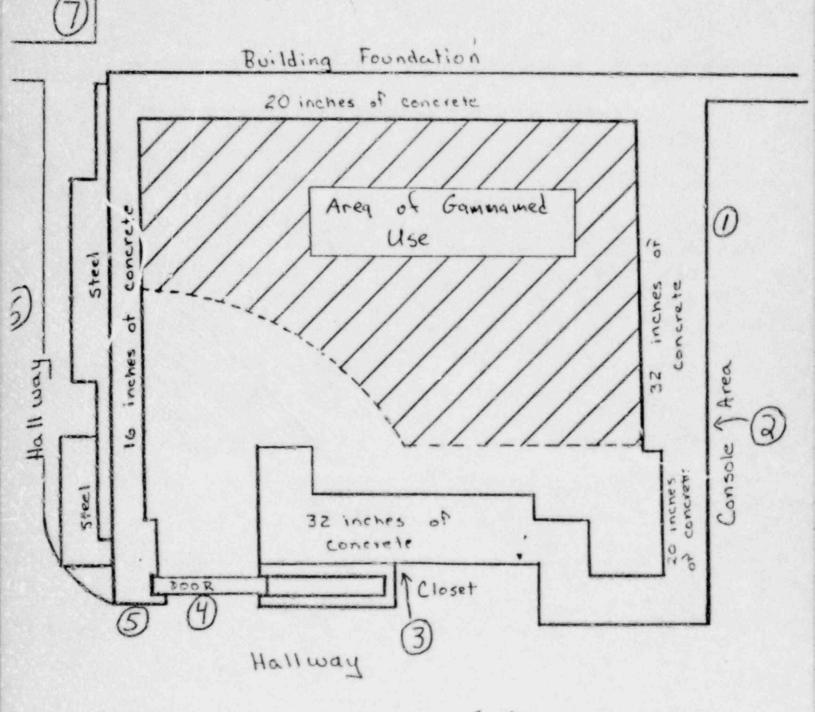
- @ Madulator Room
- @ 4 Mev operator's Console
- 3 Closet
- 4 4 Mev Room Door

(3) How Spot In Wall

@ Sagittaire Hallway Wall

1 Sagittaire Operator's Console

4 MeV Accelerator Room



Basement of Hunter Rediction Therapy Center Secte Yi" = 1 foot BITATEN: William D. Miller Chief
License Fee Management Eranch
Office of Administration

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John E. Glenn, Chief Nuclear Materials Section B Division of Engineering and Technical Programs

		Technical Programs
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	1.	Application Dated: 12/23/85
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		Signed Brando Polatchek Date 47/86
8.		ENSE FEE MANAGEMENT BRANCH
	1.	Fee Category and Amount: 78.3E
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