

# Yale New Haven Hospital

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. 06-00189-03, Docket No. 030-01244, dated August 13, 1985, the following information is supplied.

On November 25, 1985 a nominal 10 curie Ir-192 source 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

Victoreen Thyac III  
(calibrated Oct. 17, 1985)

In the middle at contact	6 mR/hr
Front end at contact	0.3 mR/hr
Back end at contact	0.08 mR/hr
In the middle at 1 meter	0.04 mR/hr
Background	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	<0.1 mR/hr
2. 4 MeV Operator's Console	<0.1 mR/hr
3. Closet	<0.1 mR/hr
4. 4 MeV Room Door	<0.1 mR/hr
5. "Hot" spot in wall	<0.3 mR/hr
6. Sagittaire Hallway Wall	<0.1 mR/hr
7. Sagittaire Operator's Console	<0.1 mR/hr

B604090217 651223  
REG1 LIC30  
06-00819-03 PDR

"OFFICIAL RECORD COPY" 1/1 JAN 06 1986

RECEIVED  
JAN 10 1986  
10:00 PM  
85-00189-03

Jan 7-8 - not necessary  
RECEIVED-REGION 1  
JAN 9 1986  
104867  
Voted

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 curies.

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

- 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

# 4 MeV Accelerator Room

Building Foundation

20 inches of concrete

Area of Gammaned Use

16 inches of concrete

Steel

Steel

Hallway

32 inches of concrete

①

Console Area

②

32 inches of concrete

20 inches of concrete

DOOR

Closet

⑤

④

③

Hallway

Scale  
1/4" = 1 Foot

Basement of Hunter Radiation Therapy Center

BEFORE: William O. Miller, Chief  
License Fee Management Branch  
Office of Administration

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

3001244  
02110  
8/90

LICENSE FEE TRANSMITTAL

No Fee  
Needed

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: Yale New Haven Hospital

Application Dated: 12/23/85

Control No.: 104867

License No.: 06-00819-03

2. FEE ATTACHED

Amount: 0

Check No.: 0

3. COMMENTS

Signed Branda Pilatchek

Date 1/7/86

B. LICENSE FEE MANAGEMENT BRANCH

1. Fee Category and Amount: 7B, 3E

2. Correct Fee Paid. Application may be processed for:

Amendment ✓

Renewal       

License       

Jan 7 1986  
EXEMPT

Signed       

Date