



May 6, 1985

Materials Licensing Branch
U.S. Nuclear REgulatory Commission
Region I
631 Park Avenue
King of Prussia, PA 19406

Re: Decommissioning survey - C-1000 teletherapy room

Gentlemen:

Pursuant to our amendment request of 20 September 1984 and subsequent issuance of amendment 06 (27 November 1984) to materials license no. 29-09701-02, please be informed that the ATC Medical Group has finally removed the old Picker C-1000 teletherapy unit from hospital property. The unit was dismantled and the source was taken into possession by ATC Medical Group's representatives.

Enclosed you will find the decommissioning survey of the C-1000 teletherapy facility performed on April 12, 1985. Results show that radiation levels are at background and the wipe tests are all below the lower limit of detectability of the unit (0.19 Bq) with the exception of one area within the Ra-226 storage fort which was monitored at 0.796 Bq.

If any additional information is required concerning this survey, please do not hesitate to contact the hospital.

With best regards,

Michael L. Caprio, Jr., M.S., CHP
Certified Health Physicist
Radiology Department

RECEIVED BY LFMB	
Date	5/20/85
Log	May 4 I
By	Brown
Orig To	
Action Compl	5/30/85

8507050154 850606
REG1 LIC30
29-09701-02 PDR

OVER
50 YEARS
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MAY 14 PM 2:45

FEE EXEMPT continuation
of 9/20/84
request
"OFFICIAL RECORD COPY"

ML10

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MAY 14 1985



DECOMMISSIONING SURVEY AND WIPE TEST ANALYSIS OF COBALT-60
TELETHERAPY ROOM.

April 12, 1985

The Picker C-1000 teletherapy unit was dis-mantled by authorized representatives of the ATC Medical Group. The Co-60 source was taken into possession of ATC Medical Group. Following this the C-1000 unit was removed from hospital property.

This teletherapy room also served as a storage location for the hospital's Cs-137 therapeutic sources and the older Ra-226 sources.

A complete radiation survey and wipe test of the room and Ra-226 storage fort was performed on this date.

Survey unit - Technical Associates PUG-1 GM-meter
Calibration date: 3/85
Background - 0.02 mR/hr

Wipe test unit- Abbott ANSR Auto-well
Window - 500 Kev - 2000 Kev
Unit efficiency = 1.91 dpm/cpm

BKG = 610 cts/10-min
61 ± 2.47 cpm (1-sd)
LLD = 11.5 net-cpm

RESULTS:

<u>Area</u>	<u>Exp. Rate (mR/hr)</u>	<u>Wipe Test (cpm-net)</u>	
1- Floor- entry	BKG	-1	4 LLD
2- Floor	BKG	-2	4 LLD
3- Floor	BKG	2	4 LLD
4- Under C-1000	BKG	4	4 LLD
5- Floor	BKG	-1	4 LLD
6- Floor	BKG	-4	4 LLD
7- Floor	BKG	-6	4 LLD
8- C-arm	BKG	2	4 LLD
9- Outer Ra-fort	BKG	-4	4 LLD
10- Inner Ra-fort	BKG	4	4 LLD
11- Inner Ra-fort	BKG	25	47.75 dpm (0.796 Bq)
12- Inner Ra-fort	BKG	1	4 LLD
13- Inner Ra-fort	BKG	-3	4 LLD

DECOMMISSIONING SURVEY & WIPE TEST
CO-60 TELETHERAPY ROOM

RIVERVIEW MEDICAL CENTER
Red Bank, NJ

April 12, 1985

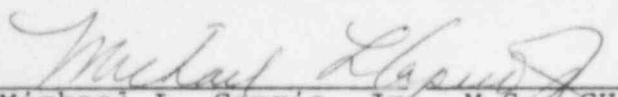
Page 2.

The results of the radiation survey utilizing the Technical Associates PUG-1 survey meter show that in all areas of the room surveyed, the nominal radiation levels were not significantly different than the background exposure rate of 0.02 mR/hr.

With reference to the wipe test analysis, all areas except one (1) position within the Ra-226 storage safe showed removable contamination less than the unit's LOWER LIMIT OF DETECTABILITY (LLD). The LLD being defined as 4.66 times the std-bkg count rate. The single area within the Ra-226 fort showing 25 net-cpm (47.75 dpm/100 sq cm) is acceptable removable contamination levels for alpha/beta emitters as defined by NRC Reg. Guide 8.23. This level of removable contamination is considered to be acceptable since the lead bricks of the Ra-226 fort are not being released to an unrestricted area, but will be used for additional shielding within the hot lab of the nuclear medicine department.

FATE OF RADIOACTIVE MATERIALS WITHIN THIS AREA:

- (a) Cobalt-60 source and C-1000 unit - under possession of ATC Medical Group;
- (b) Cs-137 fort and sources - re-located to new Co-60 room;
- (c) Ra-226 sources - returned to Radium Chemical Company


Michael L. Caprio, Jr., M.S., CHP -
Certified Health Physicist

April 12, 1985

A. TYPE OF ACTION AND IDENTIFICATION CODES									
NEW LICENSE		AMENDMENT TO RENEW LICENSE		AMENDMENT TO TERMINATE		VOID	DOCKET NUMBER	MAIL CONTROL NUMBER	CHANGE NAME ADDRESS ("X" box)
1	NEW LICENSE AND NEW LICENSEE	OTHER AMENDMENT		CLERICAL CHANGE NO AMENDMENT		4	030-12960	03472	<input type="checkbox"/>
B. INDICATIVE INFORMATION									
INDIVIDUAL LICENSEES	NAME (Last, First, Middle) <i>MS-23 PS</i>				NAME (Last, First, Middle)				
	NAME (Last, First, Middle)				NAME (Last, First, Middle)				
	NAME (Last, First, Middle)				NAME (Last, First, Middle)				
ORGANIZATION	ORGANIZATION NAME (Alphabetic Sequence) Riverview Hospital DEPARTMENT OR BUREAU								
LICENSEES									
ADDRESS	BUILDING, STREET	CITY	STATE	ZIP CODE					
5	35 Union St.	Red Bank	NJ	07701					
6	TYPE OF APPLICANT	U.S. GOVERNMENT AGENCY INDIVIDUAL LICENSEE	DATE REQUEST RECEIVED	INSTITUTION CODE	PENDING PROG. CODE	ACTUAL PROG. CODE			
	3333	ORGANIZATIONAL LICENSEE	02/27/85	09701					
	SECONDARY PROGRAM CODES (As required)								
7	#1	#2	#3	#4	#5				
	LICENSE NUMBER		DATE LICENSE ISSUED OR ACTION COMPLETED		EXPIRATION DATE				
	29-09701-01		MAY 30 1985						
C. STATISTICAL INFORMATION									
MEDICAL CATEGORY		FOR HUMAN USE ONLY		FOR HUMAN AND NONHUMAN USE		FOR NONHUMAN USE ONLY			
POSSESSION OF THE MATERIAL IS AUTHORIZED IN ONE OF THE FOLLOWING AREAS									
AND/OR IN THE STATE(S), TERRITORY(IES), COUNTRY CHECKED (At right)	SAME AS STATE / IN ADDRESS	ALL STATES	ALL NON AGREEMENT STATES						
	AL ALABAMA	GA GEORGIA	MD MARYLAND	NJ NEW JERSEY	SC SOUTH CAROLINA	WY WYOMING			
	AK ALASKA	HI HAWAII	MA MASSACHUSETTS	NM NEW MEXICO	SD SOUTH DAKOTA				
	AZ ARIZONA	ID IDAHO	MI MICHIGAN	NY NEW YORK	TN TENNESSEE	AS AMERICAN SOMOA			
	AR ARKANSAS	IL ILLINOIS	MN MINNESOTA	NC NORTH CAROLINA	TX TEXAS	CZ CANAL ZONE			
	CA CALIFORNIA	IN INDIANA	MS MISSISSIPPI	ND NORTH DAKOTA	UT UTAH	GU GUAM			
	CO COLORADO	IA IOWA	MO MISSOURI	PUERTO RICO					
	CT CONNECTICUT	KS KANSAS	MT MONTANA	VIRGIN ISLANDS					
	DE DELAWARE	KY KENTUCKY	NE NEBRASKA	CANADA					
	DC WASHINGTON DC	LA LOUISIANA	NV NEVADA						
FL FLORIDA	ME MAINE	NH NEW HAMPSHIRE							
D. POSSESSION LIMITS OF SOURCE AND SPECIFIC ACTIVITY									
SOURCE MATERIAL CEILING		G GRAMS	SNM CEILING						
		Kg KILOGRAMS							
MATERIAL	AMOUNT	UNIT	CONFIG	ENRICH					
US U235		G S							
U3 U233		Kg UNS							
PL Plutonium		G S							
UR Uranium		Kg UNS							
TH Thorium		G S							
		Kg UNS							
		G S							
		Kg UNS							
H3 Tritium		CURIES		RRS CODES					
		MILLICURIES							
		MICROCURIRES							
		S SEALED	UNS UNSEALED						

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