



PO Box 9311  
Richmond Heights, Mo. 63117

Radiation Therapy

Providing Physics Services in  
• Diagnostic Radiology •

Nuclear Medicine

Phone (314) 644-3000-Ext. 4246

February 20, 1981

W.L. Fisher  
Acting Chief  
Nuclear Regulatory Commission  
Region III  
799 Roosevelt Rd.  
Glen Elyn, IL 60137

Dear Sir:

A recent inspection of Compton Hills Medical Center in St. Louis, MO by R.E. Burgin of the NRC resulted in a citation to the Medical Center due to the fact that quarterly linearity tests of the Nuclear Medicine's Dose Calibrator could not be found. These linearity tests had been performed in a timely fashion. I, however, had temporarily borrowed the two most recent test results (August '80, October '80) in order to present it in the form recommended in Nuc. Reg. Guide 10.8, App. D, E(4), (log-log graph). Previously this data had been mathematically analyzed but not graphed. The data for the initial linearity test (4/28/80) was previously graphed but filed under an inappropriate heading.

Compton Hills has recently changed their procedures so that, a) Xerox copies of data will be forwarded to me (or other suitable consultant), b) a "Dose Calibrator Linearity Test" file has been established.

Sincerely,

*David J. Keys*

David J. Keys, M.A.  
Medical Physicist

8106050495

COMPTON HILL MEDICAL CENTER  
LINEARITY TEST

Date \_\_\_\_\_ Time \_\_\_\_\_ Amount \_\_\_\_\_ Tech \_\_\_\_\_

Time \_\_\_\_\_ Amount \_\_\_\_\_ Tech \_\_\_\_\_

Date \_\_\_\_\_ Time \_\_\_\_\_ Amount \_\_\_\_\_ Tech \_\_\_\_\_

Time \_\_\_\_\_ Amount \_\_\_\_\_ Tech \_\_\_\_\_

Tech \_\_\_\_\_

Violation #3 & #4

"No records were maintained of disposals of wastes; i.e., used syringes, vials, etc., to normal (cold) trash."

"Failed to maintain records of surveys that you performed to assure compliance with 10 CFR 20.301, Waste Disposal, General Requirements. Specifically, no records were maintained by the Nuclear Medicine Department for results of surveys of waste material disposed of as normal (cold) trash."

Enclosed are copies of a sample disposal of waste and recording of same, (Section 3 & 4, attachment A), that had been utilized.

Enclosed is a copy of a new adopted form that will be utilized, commencing February 23, 1981, that should comply with the requirement, (Section 3 & 4, attachment B).

[illegible]

[illegible]

# Waste Disposal

Waste From

12-15-80

12-22-80

12-29-80

1-5-81

1-12-81

1-19-81

1-26-81

2-2-81

Total Reading

$< .01$  mR/HR

disposed in trash Dumpster on 2-10-81 9:30am DD



Date \_\_\_\_\_ Moly \_\_\_\_\_ Ratio \_\_\_\_\_

Tech \_\_\_\_\_

Tech \_\_\_\_\_

Purpose \_\_\_\_\_

Activity on hand MC

Volume on hand ML

Activity admin. MC

Volume admin. ML

Activity remain MC

Volume remain ML

Stored needle syringe

Stored hot lab vial

Tech. \_\_\_\_\_

Date for stored decay

Tech. \_\_\_\_\_

Date disposed in cold trash

Tech. \_\_\_\_\_

Geiger MR/HR

Agent/Patients

Section 3/4  
Attachment B

Section 5

Violation #5

"Records did not contain all the information required by Form NRC-5. Specifically, Social Security numbers and date of birth were not present for all persons requiring personnel monitoring.

Enclosed is a copy of previous dosemitry report indicating the absence of the nuclear medicine technicians Social Security number and date of birth, (Section 5, attachment A).

Enclosed is a copy of dosemitry report, indicating corrections. This has been fully completed, February 13, 1981, (Section 5, attachment B).





EXPENSE	DATE

1 MONTH M	0.35	1.03	1	77777	1
				1 CAL QUARTER 10 5-15	
				1 NO DOMEST	2
				1 (OMB 1 AND 144098	

**R. S. Landauer, Jr. & Co.**  
Division of Technical Operations, Incorporated  
Glenwood Science Park  
Glenwood, Illinois 60425  
Telephone (312) 755-7000

RADIATION  
DOSIMETRY  
REPORT

2006-11-01

PARTICIPANT ID	PARTICIPANT NAME	SOCIAL SECURITY NO.	EXPOSURE TO RADIATION FOR THE PERIOD OR PERIODS INDICATED BELOW				CUMULATIVE TOTALS - IN MILLIREMS				BIRTH DATE	AGE AT EXPOSURE	AGE AT END OF EXPOSURE	AGE AT LAST EXAMINATION	AGE AT LAST EXAMINATION	AGE AT LAST EXAMINATION	AGE AT LAST EXAMINATION
			DATE	DOSE	DOSE	DOSE	DOSE	DOSE	DOSE	DOSE							
00000	CATHOL	239805992	11/10/00	10	11/10/80	1001	12.31	100	100	12/1	2	2	2	2	2	2	2
00000	DELLINGER PEGGY	239805992	11/10/00	10	11/10/80	1001	12.31	100	100	12/1	2	2	2	2	2	2	2
00000	CATHOL	239805992	11/10/00	10	11/10/80	1001	12.31	100	100	12/1	2	2	2	2	2	2	2
00000	DELLINGER PEGGY	239805992	11/10/00	10	11/10/80	1001	12.31	100	100	12/1	2	2	2	2	2	2	2
00000	CATHOL	239805992	11/10/00	10	11/10/80	1001	12.31	100	100	12/1	2	2	2	2	2	2	2
00000	DELLINGER PEGGY	239805992	11/10/00	10	11/10/80	1001	12.31	100	100	12/1	2	2	2	2	2	2	2
00000	CATHOL	239805992	11/10/00	10	11/10/80	1001	12.31	100	100	12/1	2	2	2	2	2	2	2
00000	DELLINGER PEGGY	239805992	11/10/00	10	11/10/80	1001	12.31	100	100	12/1	2	2	2	2	2	2	2
00000	CATHOL	239805992	11/10/00	10	11/10/80	1001	12.31	100	100	12/1	2	2	2	2	2	2	2
00000	DELLINGER PEGGY	239805992	11/10/00	10	11/10/80	1001	12.31	100	100	12/1	2	2	2	2	2	2	2
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00000	CATHOL	239805992	11/10/00	10	11/10/80	1001	12.31	100	100	12/1	2	2	2	2	2	2	2
00000	DELLINGER PEGGY	239805992	11/10/00														

(Simon's  
RH 2000 and A)

[illegible]

