

October 28, 1982

H. E. Book, Chief
Radiological Safety Branch
United States Nuclear Regulatory Commission
Region V
1450 Maria Lane, Suite 210
Walnut Creek, California 94596

To Whom It May Concern:

Please find the enclosed linearity tests for the dose calibrator. I believe the linearity tests and accompanying face letter from the nuclear medicine technician is self-explanatory.

Sincerely yours,

Roger D. Fellows, M.D.
Radiation Safety Officer

RDF:cac
Enclosure
(L.0)

8212060273 821130
NMS LIC30
50-13648-01 PDR

Fairbanks Memorial Hospital

1650 Cowles St
FAIRBANKS, ALASKA 99701

OPERATED BY
LUTHERAN HOSPITALS AND HOMES SOCIETY
FARGO, NORTH DAKOTA 58103

October 28, 1982

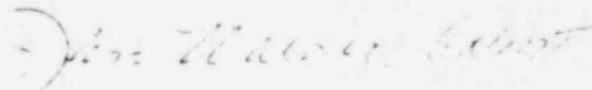
To: NRC

From: Nuclear Medicine Department

Subject: Linearity Test - Dose Calibrator

Enclosed please find a copy of the linearity test on our dose calibrator dated 10/11/82. The error in the lowest range has been noted and we are presently in contact with Squibb to resolve the problem. Please note the readings are within acceptable limits except the 48 hour reading which is +23.7%. We are continuing to use the machine since the error is not such that a patient can be overdosed.

Sincerely,



Jan Walker, CNMT
Nuclear Medicine

QUARTERLY LINEARITY CHECK

DOSE CALIBRATOR

9/82

TIME

AMOUNT OF
ACTIVITY

CALCULATED
ACTIVITY

±%

DOSE CALIBRATOR
READING

	TIME	AMOUNT OF ACTIVITY	CALCULATED ACTIVITY	±%	DOSE CALIBRATOR READING
8/11	6hr 8Am		243.6 mci	+5.3%	252 mci
	6hr 2Pm		122 mci	+1.6%	124 mci
9/2	24hr 8Am		15.3 mci	+1.3%	15.5 mci
	30hr 2Pm		—	—	7.7 mci
9/13	48hr 8Am		.97 mci	+23.7%	1.2 mci
	0hr				
	6hr				
	24hr				
	30hr				
	48hr				
	0hr				
	6hr				
	24hr				
	30hr				
	48hr				
	0hr				
	6hr				
	24hr				
	30hr				
	48hr				
	0hr				
	6hr				
	24hr				
	30hr				