

Mr. D.J. Sreniawski
U.S. Nuclear Regulatory Commission
Region III
Radioisotope Licensing Section
799 Roosevelt Road
Glen, Ellyn, Illinois

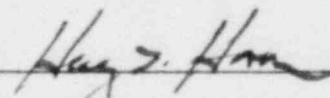
Dear Sir:

This letter is in response to your original letter of October 2, 1981, which reported the results of an inspection conducted by Mr. J.R. Mullauer on September 17 and 18, 1981.

The CDV-700 survey meter was calibrated on 12/22/80 and 9/29/81. Copies of the calibration data are attached. Upon renewal of our byproduct license we will request that the frequency of calibration be changed to annually.

If more information is needed please contact us.

I swear that the information contained in this letter is true and correct.



Harry Haver, Administrator
University Heights Hospital

Dec. 2, 1981

Date Deanna M. Henson

Deanna M. Henson - Notary Public

Jan 24, 1984
Commission Expires

CERTIFICATE OF INSTRUMENT CALIBRATION

For University Heights Hospital

Instrument

Manufacturer Victoreen
 Type G-M survey meter
 Model No. CDV-700 6B
 Serial No. 121295

Calibration Data:

Scale	Exposure rate (mR/hr)	Instrument reading (mR/hr)	Exposure rate (mR/hr)	Instrument reading (mR/hr)	Exposure rate (mR/hr)	Instrument reading (mR/hr)
X 1	0.15	0.17	0.35	0.35		
X 10	1.5	1.2	3.0	2.5		
X 100	7.0	6.0	15	11	30	20

Comments

Calibration Source	Nuclide	Activity or Exposure Rate at Specified Distance	Calibration Accuracy
1)	Co-137	8.25 R-cm ² /hr = mCi	±5%
	(8.5 mg Ra-226 equiv.)		±2.5%
2)	Ra-226	15.6 μCi	

Calibrated by Arthur Blawie Date 9/29/81

12/22/80

Calibration Data for Victoreen CD Survey Meter, Model No. 63, Serial No. 121225

Calibration Source for x10 and x 100 scales: Cesium-137 Model #67-601, (Nuclear Associates, Inc.). Total activity 24 mCi \pm 5% equivalent to 9.6 mg Radium on December 1975.

Calibration Source for x1 scale: Radium-226 Serial no. 293 (Amersham Searle). Total activity 15.6 uCi \pm 2% on October 1969.

Low energy check source Co-57, 5.61 mCi on 5-6-76

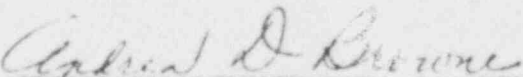
Conversion of Cs-137 source to mg Radium allowed for consistent use of $= 8.25 \text{ R-cm}^2/\text{hr-mCi}$

Source activity	Distance (cm)	Calculated mR/hr	Measured mR/hr
8.6 mCi	217.5	1.5	1.5
" "	142.4	3.5	3.2
" "	67.8	15	12
" "	45.0	35	22
15.6 uCi	29	0.15	0.15
" "	19.2	0.35	0.35

Low Energy Calibration Check Source: Calculated mR/hr = 0.27
Measured mR/hr = 0.25

Operational Check Source Reading: 1.7 mR/hr (on x10 scale)

Note: Use graph on x 100 scale


Andrea D. Browne, Ph.D.