



VETERANS ADMINISTRATION
HOSPITAL
150 MUIR ROAD
MARTINEZ, CALIFORNIA 94553

2892

July 24, 1978

IN REPLY
REFER TO: 612/115

Radioisotopes Licensing Branch
Division of Fuel Cycle and Material Safety
Office of Nuclear Material Safety and Safeguards
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Gentlemen:

Re: License No. 04-02956-02
Control No. 93686

Further to our letter of April 19, 1978, concerning renewal of our station license 04-02956-02, we wish to report that Item 10 has been duly completed with respect to the dose-calibrator as well as the two survey instruments.

The dose calibrator was checked and tested in accordance with the guidelines issued by the NRC in NURE 6-0338 Rev. 1. These tests included:

- (1) Instrument linearity
- (2) Geometric variation
- (3) Instrument accuracy and constancy

and were carried out using Co⁵⁷, Cs-137, I-131 (Ba-133) and Radium 226 reference sources, as well as a pre-calibrated 99mTc reference source.

The results of these tests indicated that the dose calibrator is performing within the limits prescribed by the NRC and that we are in compliance with federal regulations.

We await your favorable action in connection with our station license so that we may continue to provide patient care without interruption.

C. H. Nixon
C. H. NIXON
Hospital Director

Encl

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INSPECTION AND ENFORCEMENT

8408160322 840803
NMS LIC30
04-02956-02 PDR

450-0312
Mrs. McBrick

CALIBRATION OF DOSE CALIBRATOR

A. Sources Used for Linearity Test:

Check as appropriate

 First elution from new Mo-99/Tc-99m generator

or

 X other* (specify) 99mTc 76.4 mCi pre-calibrated reference source

B. Sources Used for Instrument Accuracy and Constancy Tests:

Radionuclide	Activity (mCi)	Accuracy
57 Co	<u>2.41 mCi</u>	<u>within +5%</u>
133 Ba	<u>1.40 mCi</u>	<u>within +5%</u>
137 Cs	<u>205 uCi</u>	<u>within +5%</u>
other 226 Ra	<u>14.7 uCi</u>	<u>within +5%</u>

C. X The procedures described in Appendix D Section 2 will be used for calibration of the dose calibrator.

or

 Equivalent procedure are attached.

*Must be equivalent to the highest activity used.

Item No. 10
Date: 7/24/78