

PAPASTAVROS ASSOCIATES, P.A.

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SUITE 100
THE PROFESSIONAL BUILDING IV
1701 AUGUSTINE CUT-OFF
WILMINGTON, DELAWARE 19803

DIAGNOSTIC ROENTGENOLOGY
COMPUTERIZED TOMOGRAPHY
NUCLEAR MEDICINE
ULTRASOUND

May 7, 1987

RECEIVED

'87 MAY 21 49:38

U.S. NRC
LIC FEE MONITORING

U.S. Nuclear Regulatory Commission
Region 1
631 Park Avenue
King of Prussia, PA 19408

Dear Sirs:

To conform with current regulations, we wish to amend our license with the following enclosure for the dose calibrator. We will begin doing these procedures immediately. Also enclosed enclosed is a check for \$125.00 as per regulations.

Sincerely yours,

Garth A. Koniver, M.D.
Radiation Safety Officer

GAK:ms

Log	May 13
Remitter	
Check No.	16756
Amount	\$125 (Refundable)
Fee Category	7C
Type of Fee	Amendment
Date of ch. Rec'd.	5/22/87
Date Completed	5/26/87
By:	S. Koniver

B710210217 B70702
REG1 LIC30
07-16529-01 PDR

Lic No 07-16529-01
* Check returned/and
not necessary.

"OFFICIAL RECORD COPY"

107244

ML10

12 MAY 1987

DOSE CALIBRATOR

A. The following test will be performed on the dose calibrator:

1. Instrument Constancy (daily)
2. Instrument accuracy (at installation and annually)
3. Instrument linearity (at installation and quarterly)
4. Geometrical variation (at installation)

B. Constancy Test:

The dose calibrator will check for constancy using the Cesium-137 source at all frequency used setting and will be performed at the start of each working day. Any variation greater than 5 percent will indicate the need of adjustment or repair of dose calibrator.

C. Accuracy Test:

The accuracy test will be performed at installation and at intervals not to exceed one year. The test for accuracy will involve the use of three sealed sources (Cobalt-57, Barium-133, Cesium-137) whose activity the manufacturer has determined within 5 percent of its stated activity, whose activity is at least 50 microcuries for barium-133 and Cesium-137, and at least 1-millicuries for Cobalt-57. The dose calibrator will be considered fully calibrated if all three source reading do not differ from decay corrected reading by 5 percent.

D. Linearity Test:

The linearity test will be performed on the dose calibrator upon installation and during the first week of each calendar quarter thereafter over the range of its use between the highest dosage that will be administered to a patient and 10 microcuries.

E. Test for Geometrical Variation:

At installation the dose calibrator will be tested for geometry dependence over the range of volumes and volume configurations for which it will be used. A record of this test data will be retained in our records for duration of the use of the dose calibrator.

F. All the above listed installation test will be performed on the dose calibrator following adjustment or repair.

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