

RADIOLOGY OF EASTERN OKLAHOMA, INC.

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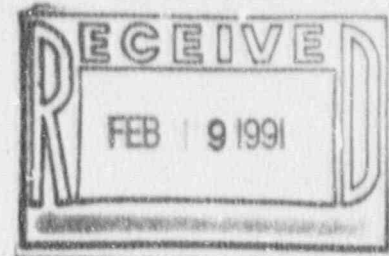
481-4666

TULSA, OKLAHOMA 74136

LAURA L. LEE, M.D.

JEFFREY A. DEMOLY, M.D.

February 13, 1991



A. Bill Beach, Director  
Division of Radiation Safety and Safeguards  
Nuclear Regulation Commission  
611 Ryan Plaza Drive, Suite 1000  
Arlington, Texas 76011

Gentlemen:

RE: License: 35-13341-01  
Docket: 030-02925/91-01

This refers to your letter of January 28, 1991 and the Notice of Violation pertaining to the geometry dependence tests on our Searle Analytic - Mediac Model 6362 (serial number 004304) dose calibrator.

1. Failure to perform the geometry dependence tests required by section 35.50 (b) (4) following repair of the dose calibrator was an oversight on our part.
2. The RSO, health physicist (David S. Gooden, Ph.D.) and the technician have reviewed the regulations CFR part 35.50.
3. A notice has been attached to the dose calibrator with regard to the regulations pertinent to the types and frequency of the tests required by CFR part 35.50. A copy of that notice is enclosed.
4. On February 4, 1991 a geometry dependence test was performed on our Searle Analytic - Mediac Model 6362 (serial number 004304) dose calibrator. Results of that test are enclosed.

Please let us know if we can be of further assistance.

Respectfully,

A. Paul Compton, M.D.

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REG4 LIC30  
35-13341-01 PDR

91-352 APC/r

TE-07

1. constancy - daily
2. accuracy - installation and annually
3. linearity - installation and quarterly
4. geometry dependence - installation

Appropriate checks and tests will be done following adjustment or repair.

Searle Analytic-Mediac Model 6352  
(Serial # 004304)  
DOSE CALIBRATOR GEOMETRY EVALUATION

Radiology of Eastern Oklahoma, Inc.  
February, 1991

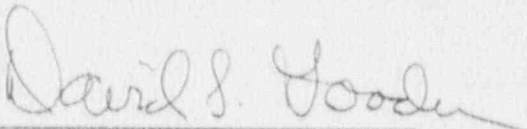
10 cc vial:            2cc - 13.1, 13.1, 13.1      mCi  
                          4cc - 13.0, 13.0, 13.1  
                          6cc - 13.0, 13.0, 12.9  
                          8cc - 13.0, 12.9, 12.9  
                          10cc - 12.9, 12.9, 12.9  
                          geometric variation less than +/-1%;  
                          no correction factor needed.

3 cc syringe:        0.5cc - 14.4, 14.4, 14.3 mCi  
                          1.0cc - 14.4, 14.4, 14.3  
                          1.5cc - 14.4, 14.4, 14.4  
                          2.0cc - 14.2, 14.1, 14.4  
                          2.5cc - 14.1, 14.2, 14.2  
                          3.0cc - 14.0, 14.0, 14.1  
                          geometric variation less than +/-2%  
                          no correction factor needed.

5 cc syringe:        1.0cc - 20.3, 20.3, 20.3 mCi  
                          2.0cc - 20.3, 20.3, 20.2  
                          3.0cc - 20.2, 20.2, 20.2  
                          4.0cc - 20.2, 20.3, 20.3  
                          5.0cc - 20.2, 20.2, 20.2  
                          geometric variation less than +/-1%  
                          no correction factor needed.

10 cc syringe:      1.0 cc - 25.4, 25.4, 25.4 mCi  
                          2.0 cc - 25.6, 25.6, 25.6  
                          3.0 cc - 25.6, 25.6, 25.7  
                          4.0 cc - 25.5, 25.5, 25.4  
                          5.0 cc - 24.9, 24.9, 24.9  
                          6.0 cc - 24.5, 24.5, 24.5  
                          geometric variation less than +/-2%  
                          no correction factor needed.

Reviewed by



David S. Gooden, Ph.D.  
Radiological Physicist

