

Medical Physics Consultants, Inc.

SEALED SOURCE LEAK TEST

Location: Doctors Diagnostic Center

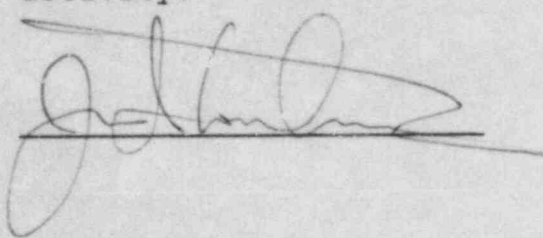
Date: 26 Nov 85

Cs-137 M/N: CDC.V1 S/N: 2016 MA
 none 10 uCi disc

Co-57 M/N: MLD-01 S/N: SW0201086
 MLS-01 A (spot)
 MLS-01 B (spot)

Ba-133 M/N: BDC.V1 S/N: 2018MA

COMMENT: The sources listed above were leak tested using a dry wipe technique and were found to have less than 0.005 uCi removeable activity.

Tested by: 

Date: 2 Dec 85

8512240290 851202
REG3 LIC30
21-24482-01 PDR

Medical Physics Consultants, Inc.

NUCLEAR MEDICINE INSPECTION

Licensee Doctors Diagnostic Center

License No. 21-24482-01 Exp. Date 31 May 90

Authorized User(s) As listed on license

Inspector James Tomlinson, M.S. Date 26 Nov 85

10CFR19.11 REQUIRED NOTICES POSTED OR REFERENCED?

10CFR19 and 10CFR20

YES

License with conditions and amendments

YES

Operating procedures:

Radiation safety regulations

YES

Emergency spill procedures

YES

Ordering, receiving, unpacking, and
logging of radionuclide shipments

YES

Waste disposal

YES

Clinical procedures manual

YES

Form NRC-3 "Notice to Employees"

YES

MDPH Form RH-100 "Notice to Employees"

YES

MDPH Ionizing Radiation Rules - Part 5

YES

10CFR19.12 DOCUMENTED WORKER INSTRUCTION PROGRAM?

YES

10CFR20.202 PERSONNEL MONITORING

Whole body

YES

Extremity

YES

Bioassay

N/A

Hand / clothing contamination

YES

Personnel exposures / burdens acceptable

YES

10CFR20.203 CAUTION SIGNS POSTED

Doors

YES

Work areas

YES

Storage areas

YES

Fume hood

YES

Refrigerators

N/A

Containers

YES

Hot sink

N/A

Hot waste

YES

10CFR20.401 REQUIRED SURVEYS DOCUMENTED?

Daily area surveys with a low-level meter

YES

Weekly surveys including wipe tests

YES

Monthly surveys including wipe tests

N/A

Radiation levels acceptable

YES

Xenon trap monitoring

YES

Room ventilation monitoring

YES

Effluent monitoring

N/A

Radionuclide therapy monitoring

N/A

Radionuclide inventories

YES

RADIONUCLIDE CONTROL

10CFR20.205 Radionuclide receipt	
Radiation survey (surface and 3 feet)	<u>YES</u>
Contamination monitoring	<u>YES</u>
10CFR35.14 Radionuclide use	
Only authorized radiopharmaceuticals	<u>YES</u>
Used only as authorized	<u>YES</u>
Amounts within possession limits	<u>YES</u>
Proper assay and administration	<u>YES</u>
Mo-99 monitoring	<u>N/A</u>
10CFR20.301 Waste disposal	<u>YES</u>
Current sealed source leakage tests	<u>YES</u>
Current MDPH registration form RH-20	<u>YES</u>
Quarterly Radiation Safety Committee minutes	<u>N/A</u>

INSTRUMENT CALIBRATION/MAINTENANCE

GM survey meters <u>BICRON 11-8-85</u>	<u>YES</u>
Ionization survey meters	<u>N/A</u>
Dose calibrators: -	
Constancy	<u>YES</u>
Linearity (last test on 20 NOV 85)	<u>YES</u>
Accuracy (last test on 24 OCT 85)	<u>YES</u>
Geometrical variation (last test on 24 OCT 85)	<u>YES</u>
Thyroid uptake probe	<u>YES</u>
Well counter	<u>N/A</u>
Gamma camera / imaging devices	<u>YES</u>

FACILITIES

Lead bricks	<u>YES</u>
Lead storage containers	<u>YES</u>
Lead syringe holders	<u>YES</u>
Lead syringe shields	<u>YES</u>
Lead-glass face shield	<u>YES</u>
Remote handling tools	<u>YES</u>
Remote pipetters	<u>YES</u>
Lab coats	<u>YES</u>
Absorbant pads	<u>YES</u>
Fume hood	<u>YES</u>
Nuclear-grade activated charcoal	<u>N/A</u>
Hot sink	<u>N/A</u>
Hot waste storage:	
Short term (half-life < 1 d)	<u>YES</u>
Intermediate (1 d < half-life < 10 d)	<u>YES</u>
Long term (half-life > 10 d)	<u>N/A</u>

OPERATING PROCEDURES FOLLOWED?	<u>YES</u>
--------------------------------	------------

Appendix

NOTICE OF VIOLATION

Doctors Diagnostic Center

License No. 21-24482-01

As a result of the inspection conducted on October 28, 1985, and in accordance with the General Policy and Procedures for NRC Enforcement Actions, (10 CFR Part 2, Appendix C), the following violation was identified:

10 CFR 35.14(e)(1)(i) states that any licensee who possesses sealed sources as calibration or reference sources shall cause each sealed source containing byproduct material, other than hydrogen-3, with a half-life greater than thirty days in any form other than gas to be tested for leakage and/or contamination at intervals not to exceed six months. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, the sealed source shall not be used until tested.

Contrary to this requirement, the licensee failed to leak test a sealed calibration source which was received from a transferor and put into use, without a valid leak test certificate. Specifically, you failed to leak test, prior to use, a nominal 200 microcurie barium-133 sealed calibration source, received from Plymouth Community Clinic without a valid leak test certificate, in May 1985.

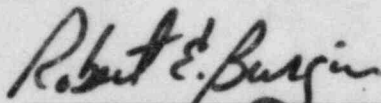
This is a Severity Level IV violation (Supplement VI).

Pursuant to the provisions of 10 CFR 2.201, you are required to submit to this office within thirty days of the date of this Notice a written statement or explanation in reply, including for each item of noncompliance:

(1) corrective action taken and the results achieved; (2) corrective action to be taken to avoid further noncompliance; and (3) the date when full compliance will be achieved. Consideration may be given to extending your response time for good cause shown.

NOV 14 1985

Dated _____


for D. G. Wiedeman, Chief
Nuclear Materials Safety
Section 1

851119/0405