



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION IV

611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011-8064

AUG 9 1994

Docket: 030-22309
License: 35-23195-01

Cardiology of Tulsa, Inc.
ATTN: Robert Okada, M.D.
Radiation Safety Officer
6585 South Yale, Suite 800
Tulsa, Oklahoma 74136

SUBJECT: RESPONSE TO NRC INSPECTION REPORT 030-22309/94-01

Thank you for your letter of July 15, 1994, in response to our letter and Notice of Violation dated June 20, 1994. We have reviewed your reply and find it responsive to the concerns raised in our Notice of Violation. We will review the implementation of your corrective actions during a future inspection to determine that full compliance has been achieved and will be maintained.

Sincerely,

Linda L. Kasner, Chief
Nuclear Materials Inspection Branch

cc:
Oklahoma Radiation Control Program Director

9408120023 940809
PDR ADJCK 03022309
C PDR

JE07

bcc w/copy of licensee letter:
DMB - Original (IE-07)
LJCallan
DWeiss, OC/LFDCB (T-9E10)
wLFisher
LLKasner
FAWenslawski, WCFO
RALeonardi
NMIB
MIS System
RIV Nuclear Materials File - 5th Floor (2)

RIV:NMIB <i>RA</i>	C:NMIB <i>JK</i>			
RALeonardi	LLKasner <i>JK</i>			
08/09/94	08/9/94			

bcc w/copy of licensee letter:

DMB - Original (IE-07)

LJCallan

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RALeonardi

NMIB

MIS System

RIV Nuclear Materials File - 5th Floor (2)

RIV:NMIB <i>Rev</i>	C:NMIB <i>JK</i>			
RALeonardi	LLKasner <i>JK</i>			
08/09/94	08/9/94			

Cardiology of Tulsa
6585 S. Yale Ave., Suite 800
Tulsa, OK 74136

July 15, 1994

Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 1000
Arlington, TX 76011

JUL 28 1994

Docket: 030-22309
License: 35-23195-01

Dear Gentilepersons:

Thank you for your letter of June 20, 1994, regarding an unannounced NRC inspection on June 2, 1994. In response to your citations, we would like to file the following information.

- A.1) The reason for the violation was that we did not have documentation demonstrating an evaluation of radiological conditions at our facility.
- A.2) The correcting steps that were taken was to conduct and finely document a survey.
- A.3) The corrective steps that we will be taking to avoid this violation in the future will be to make periodic surveys of the contiguous areas.
- A.4) Full compliance was achieved on July 14, 1994.
- B.1) The reason of the violation was that formal request for discontinuing an authorized user was not made.
- B.2) The corrective step that has been taken was to make application to remove James Higgins, M.D., from the license.
- B.3) The corrective steps that will be taken to avoid this in the future is to file for removal of the license of a user who permanently discontinues operation.

~~940802046D~~ 5AP

94-1472

B.4) Full compliance was achieved on July 15, 1994.

Sincerely,

Robert Okada, M.D.
Radiation Safety Officer

RO/jml

Cardiology of Tulsa
6585 S. Yale Ave., Suite 800
Tulsa, OK 74136

July 15, 1994

Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive, Suite 1000
Arlington, TX 76011

SUBJECT: Removal of authorized user
Docket: 030-22309
License: 35-23195-01

Dear Gentlepersons:

Please remove James Higgins, M.D., from our license as an authorized user. Thank you for your attention in this matter.

Sincerely,

Robert Okada, M.D.
Radiation Safety Officer

RO/jml

(misc\COTNRC)

SURVEY

CARDIOLOGY OF TULSA
6585 S. YALE AVENUE, SUITE 800
TULSA, OK 74136

DESCRIPTION:

OPERATIONS: Operations at Cardiology of Tulsa utilize Tl-201 and Tc-99m for function and imaging studies of the heart. A single large room is used to house all functions and features of the program. Radiopharmaceuticals and imaging equipment are housed here. The room is located on the 8th floor. The south wall is an outside wall. The west wall is an elevator shaft wall and the north and east walls are contiguous to hallways. There is no "general public access" to the Nuclear Medicine room or contiguous hallways.

MEMBERS OF THE PUBLIC:

GENERAL UNIDENTIFIED PUBLIC: None.

PATIENT PUBLIC: In contiguous hallways, less than one hour per year.

WORKER PUBLIC: In contiguous hallways, less than 50 hours per year.

RADIATION WORKERS: In Nuclear Medicine Room 2000 hours per year.

SURVEY:

Keithley Ionization Chamber

Model: 36150

Serial Number: 22932

< 0.1 mR/hour in contiguous hallways.

Calibration: 3-14-94

Ludlum Microroentgen Meter

Model: 3-77

Serial Number: 73980

< 0.1 mR/hour in contiguous hallways (External Detector).

Calibration: 3-13-94

< 0.1 mR/hour in contiguous hallways (Internal Probe).

Calibration: 3-14-94

Dosimeter GM Survey Meter

Model: 3700A

Serial Number: 191 1904

< 0.1 mR/hour in contiguous hallways.

Calibration: 3-29-94

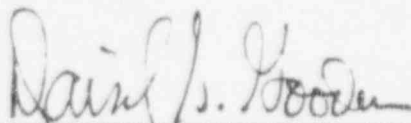
RESULTS:

RATES: < 0.1 mR/hour in contiguous hallways.

MAXIMUM YEARLY EXPOSURE TO PATIENT PUBLIC: < 0.1 mR/year.

MAXIMUM YEARLY EXPOSURE TO NONRADIATION WORKER PUBLIC: < 5 mR/year.

MAXIMUM YEARLY EXPOSURE TO RADIATION WORKERS: Monitored.



David S. Gooden, Ph.D., J.D.
Radiological Physicist

July 14, 1994
DATE