

MATERIALS LICENSE

Amendment No. 05

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

OFFICIAL RECORD COPY

| | |
|---|--|
| Licensee | In accordance with the letter dated April 25, 1997, |
| 1. Glen A. Vahjen, M.D. | 3. License Number 06-28707-01 is amended in its entirety to read as follows: |
| 2. 3018 Dixwell Avenue Hamden, Connecticut 06518 | 4. Expiration Date January 31, 2002 |
| | 5. Docket or Reference No. 030-32582 |

| 6. Byproduct, Source, and/or Special Nuclear Material | 7. Chemical and/or Physical Form | 8. Maximum Amount that Licensee May Possess at Any One Time Under This License |
|---|--|--|
| A. Any byproduct material identified in 10 CFR 35.100 | A. Any radiopharmaceutical identified in 10 CFR 35.100 | A. As needed |
| B. Any byproduct material identified in 10 CFR 35.200 | B. Any radiopharmaceutical identified in 10 CFR 35.200 except generators and gas | B. As needed |
| C. Iodine 131 | C. As identified in 10 CFR 35.300 | C. As needed |

9. Authorized use

- A. Any uptake, dilution and excretion procedure approved in 10 CFR 35.100.
- B. Any imaging and localization procedure approved in 10 CFR 35.200.
- C. Diagnosis and treatment of hyperthyroidism, and treatment of cardiac dysfunction.

CONDITIONS

- 10. Licensed material may be used only at the licensee's facilities located at The McDonald Building, 1st Floor, 3018 Dixwell Avenue, Hamden, Connecticut, and 2416 Whitney Avenue, Hamden, Connecticut.
- 11. The Radiation Safety Officer for this license is Glen A. Vahjen, M.D.
- 12. Licensed material listed in Item 6 above is only authorized for use by, or under the supervision of, the following individuals for the materials and uses indicated:

Authorized Users

Glen A. Vahjen, M.D.

Material and Use

35.100; 35.200
Iodine 131 for treatment of hyperthyroidism and cardiac dysfunction

9706160310 970517
PDR ADOCK 03032582
C PDR



ML 10

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

06-28707-01

Docket or Reference Number

030-32582

Amendment No. 05

13. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d), 40.36(b), and 70.25(d) for establishing financial assurance for decommissioning.
14. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
15. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below, except for minor changes in the medical use radiation safety procedures as provided in 10 CFR 35.31. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
- A. Application dated October 10, 1991
 - B. Letter dated December 20, 1991
 - C. Letter dated February 26, 1992
 - D. Letter dated February 28, 1992
 - E. Letter dated March 2, 1995
 - F. Letter dated April 12, 1995
 - G. Letter dated April 13, 1995
 - H. Letter dated July 23, 1996
 - I. Letter dated August 16, 1996

MAY 17 1997

Date _____

For the U.S. Nuclear Regulatory Commission
Original Signed By:
Pamela J. Henderson

By _____

Nuclear Materials Safety Branch
Region I
King of Prussia, Pennsylvania 19406

MAY 17 1997

Glen A. Vahjen, M.D.
3018 Dixwell Avenue
Hamden, CT 06518

Dear Dr. Vahjen:

This refers to your license amendment request dated April 25, 1997. Enclosed with this letter is the amended license. The facility at Ken Mike Tower, 325 Boston Post Road, Orange, Connecticut, may be released for unrestricted use.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

Original Signed By:
Pamela J. Henderson



John D. Kinneman, Chief
Nuclear Materials Safety Branch 2
Division of Nuclear Materials Safety

License No. 06-28707-01
Docket No. 030-32582
Control No. 124514

Enclosure:
Amendment No. 05

DOCUMENT NAME: R:\WPS\MLTR\L0628707.01

To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

| | | | | | | | |
|--------|----------|---|-----------|---------|--|---------|--|
| OFFICE | DNMS/RI | N | DNMS/RI | | | | |
| NAME | SLodhi | | JKinneman | | | | |
| DATE | 05/08/97 | | 05/16/97 | 05/ /97 | | 05/ /97 | |

OFFICIAL RECORD COPY

ML 10

FAX COVER SHEET

NUCLEAR DIAGNOSTICS, PC
3018 DIXWELL AVENUE
HAMDEN, CT 06518

030-32582

MS-16

Q2

Phone number (203) 281-1017

Fax number (203) 281-1690

| | |
|--------------------|--------------|
| SEND TO | From |
| NRG-Region I | Tracy |
| Attention MR. Lodi | Date |
| | 5/7/97 |
| 06-28707-01 | |
| Fax number | Phone number |
| 1.610.337-5269 | 203.281.1017 |

☐ Urgent ☐ Reply ASAP ☐ Please comment ☐ Please review ☐ For your information

Total pages, including cover

3

COMMENTS

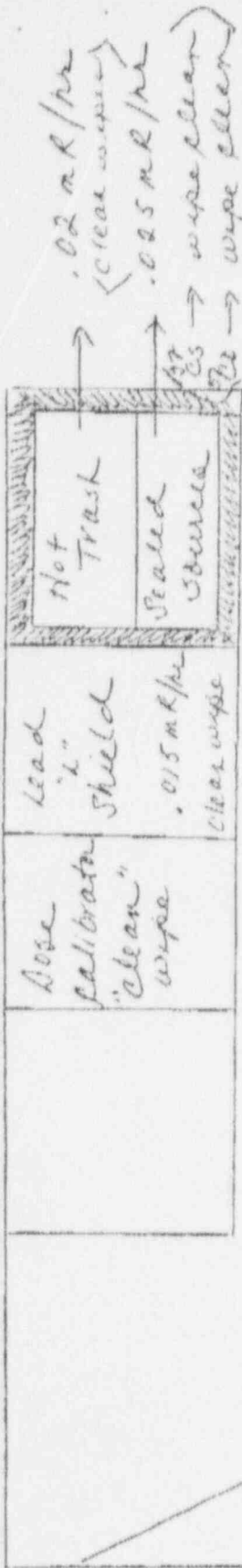
As per our phone conversation, I
am sending along a detailed diagram
of surveys done for the shutdown
of our Charge office. Hope this will
do it, but if you need anything please
feel free to call!

Tracy, Tracy

1 2 4 5 1 4

MAY - 7 1997

Hot Lab

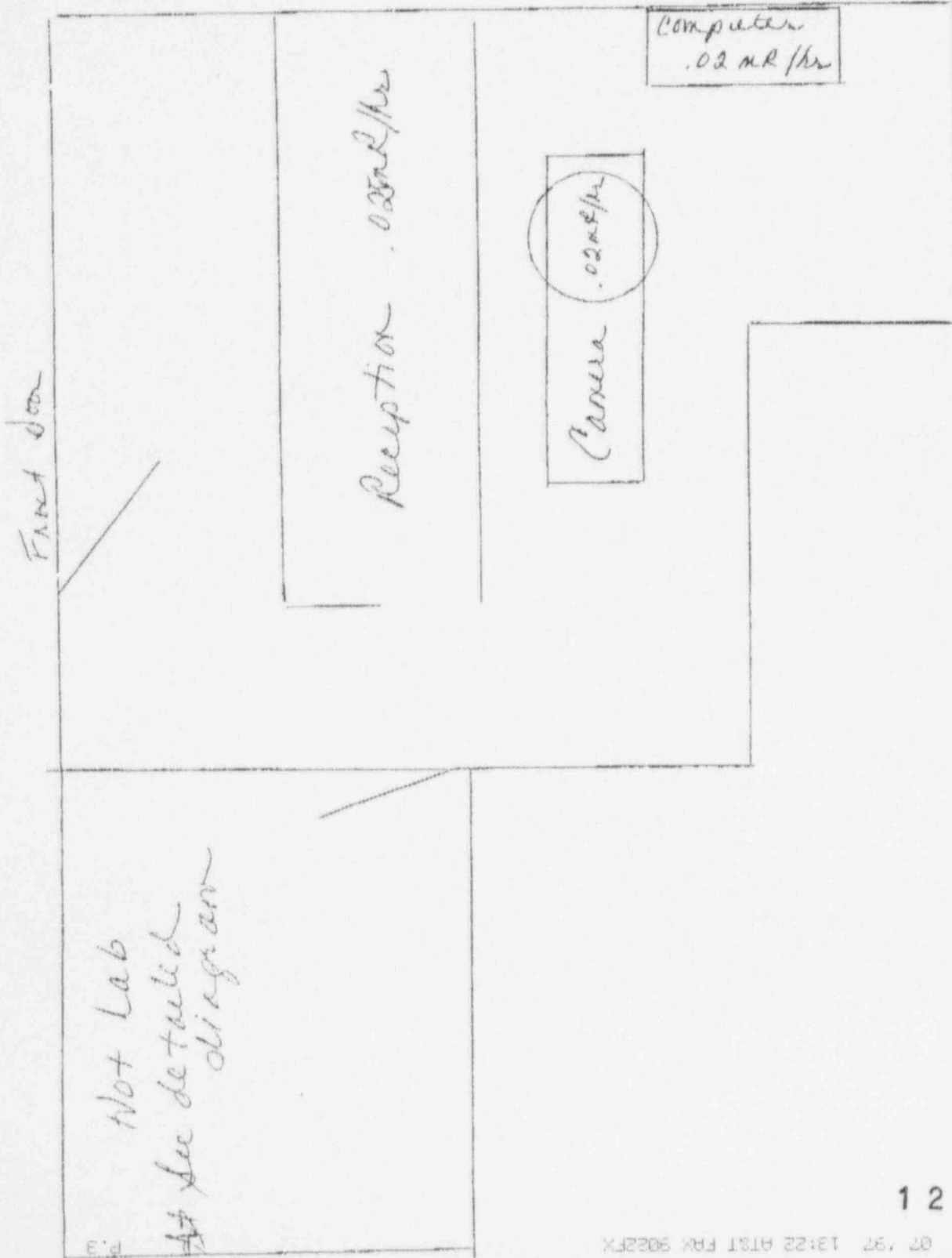


ALL
DASH
FANS
- .02 mR/hr

INLETTING
TABLE
- .02 mR/hr
clean wipe

Lead
Waste
Basket
- .005 mR/hr
Clean
Wipe

all wipes & surveys below background



1 2 4 5 1 4

DNMS TELEPHONE CONVERSATION RECORD

| | | |
|-----------------|----------------------------------|---------------------------|
| Person Called: | Glen Vahjen, M.D., RSO | Phone No.: (203) 281 1017 |
| Person Calling: | Sattar Lodhi | Date: 5-6-97 |
| Facility Name: | Vahjen, Glen, M.D. Hamden, CT | Time: 10:00 a.m. |
| License No. | 06-28707-01 | Docket No. 030-32582 |

Subject: Amendment to remove a facility from the license

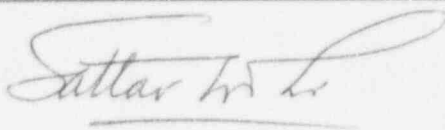
Summary: I called Dr. Vahjen to request details of the decommissioning surveys. Specifically, dose rate at lead waste basket were noted to be 0.25 mR/hr while the background is 0.025 mR/hr. I also requested that he should indicate these dose rates on the facility diagram. He will call back. He also stated that they had only used Tc-99m at that facility and that the sealed sources were leak tested before being moved to his other facility. He stated that the facility is fully decommissioned. He will investigate as to why the dose rates on the waste basket are above background and thinks it is an error in recording the data.

His CNMT, Tracy Merola called and stated that she is the one who performed these surveys, and the dose rates in all areas of use were at background. She stated that in her notes she has the dose rates at the waste basket to be around 0.02 mR/hr and she made an error while copying. She also stated that she leak tested the sealed sources also and none were found to be leaking.

She will send the information soon. Dr. Vahjen also wanted to know about fee for this amendment, I provided her with Sandy Kimberly's number so that they can get the information about fee for this amendment.

Action Required/Taken: Document/wait for response

Signature:



Mail Control No. 124514

NUCLEAR DIAGNOSTICS, P.C.

3018 Dixwell Avenue
Hamden, Connecticut 06518
(203) 281-1017 • Fax (203) 281-1690

Ken Mike Tower, 325 Boston Post Road
Orange, Connecticut 06477
(203) 891-8987 • Fax (203) 891-9015

April 25, 1997

030-32582

NRC Region I
475 Allendale Rd
King of Prussia, PA 19406

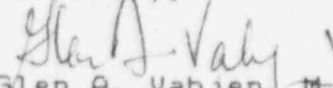
To Whom it may concern,

06-28707-01

Please be advised that we will be closing down our satellite office located at 325 Boston Post Road, Orange, CT. All sealed sources have been removed from the space and transported to the Dixwell Ave. office using DOT regulations for radioactive materials. Area surveys have been performed using a Ludlum Model 14c Geiger Counter (serial # 119824) and a Ludlum model# 44-38 Detector (serial # 122147). Wipes have been done on all areas where radioactive materials were used. The Nuclear Data 62 well counter was used to perform all wipes (model# 88-0708, serial# 840-172). Enclosed you will find results of these tests. There was no radioactive waste on site, as the last patient was seen in the office 4 weeks ago, and only 99mTc04- has been used in the last year. All sealed sources, past surveys and any record keeping will be stored at the Dixwell Ave. office in Hamden.

We would like to release this location from our license as soon as possible. Please let us know what the fee for this amendment will be and we will forward this to you immediately. As always, thank you for your prompt attention to this matter.

Sincerely,


Glen A. Vahjen, M.D.
President, R.S.O.

124514

OFFICIAL RECORD COPY ML 10 FAX REC'D APR 25 1997

APR 28 1997

NUCLEAR DIAGNOSTICS, P.C.

3018 Dixwell Avenue
Hamden, Connecticut 06518
(203) 281-1017 • Fax (203) 281-1690

Ken Mike Tower, 325 Boston Post Road
Orange, Connecticut 06477
(203) 891-8987 • Fax (203) 891-9015

AREA SURVEYS FOR OFFICE CLOSING

April 24, 1997

INSTRUMENT: Ludlum Model# 14C Geiger Counter
(serial # 119824)

Ludlum Model# 44-38 Detector
(serial # 122147)

BACKGROUND: .02
.03 mR/hr
.02

LOCATION: Unrestricted areas

Hot Lab

Camera: .02
Computer: .02
Reception: .025

Hot Trash Storage .02
Sealed Source Storage .025
Lead "L" Shield .015
Lead Waste Basket .25
Injecting Table .02
All trash cans .02

*****ALL READINGS IN mR/HR*****

SIGNATURE OF PERSON PERFORMING SURVEYS:

Tracy L. Merola cant

*There were no readings above bck. anywhere
in the office!*

NUCLEAR DIAGNOSTICS, P.C.

3018 Dixwell Avenue
Hamden, Connecticut 06518
(203) 281-1017 • Fax (203) 281-1690

Ken Mike Tower, 325 Boston Post Road
Orange, Connecticut 06477
(203) 891-8987 • Fax (203) 891-9015

AREA WIPES FOR OFFICE CLOSING

April 24, 1997

INSTRUMENT: Nuclear Data 62 Well Counter
(Model # 88-0708; Serial # 840-172)

LOCATIONS:

Hot Trash Storage:

Sealed Source Storage:

Prep Area:

Dose Calibrator:

Lead Waste Basket:

Injecting Table:

CS-137 vial:

Co-57 vial:

****SEE ATTACHED DOCUMENTATION FOR ACTUAL WIPES IN DPM****

SIGNATURE OF PERSON PERFORMING WIPES:

Tracy I. Merole *CMNT.*

Hot Trash Storage

24-APR-97

13:12:04

| ISOTOPE | BKG-CPM | NET-CPM | DPM | MICRO-CURIES |
|---------|---------|---------|---------|--------------|
| CS-137 | 0.000 | 13.000 | 108.333 | 4.886 E-05 |
| CO-57 | 68.000 | 0.000 | 0.000 | 0.000 |
| TC99M | 34.000 | 0.000 | 0.000 | 0.000 |
| TL201 | 0.000 | 1.000 | 1.408 | 0.634 E-06 |
| 123I | 32.000 | 0.000 | 0.000 | 0.000 |
| I131 | 0.000 | 17.000 | 170.000 | 0.766 E-04 |

Sealed Source Storage

24-APR-97

13:08:05

| ISOTOPE | BKG-CPM | NET-CPM | DPM | MICRO-CURIES |
|---------|---------|---------|---------|--------------|
| CS-137 | 0.000 | 11.000 | 91.667 | 4.129 E-05 |
| CO-57 | 34.000 | 0.000 | 0.000 | 0.000 |
| TC99M | 0.000 | 21.000 | 29.577 | .332 E-05 |
| TL201 | 0.000 | 8.000 | 11.268 | .508 E-05 |
| 123I | 0.000 | 22.000 | 30.986 | 1.396 E-05 |
| I131 | 0.000 | 22.000 | 220.000 | 0.991 E-04 |

Prep area

24-APR-97

13:13:29

| ISOTOPE | BKG-CPM | NET-CPM | DPM | MICRO-CURIES |
|---------|---------|---------|---------|--------------|
| CS-137 | 0.000 | 12.000 | 100.000 | 4.505 E-05 |
| CO-57 | 0.000 | 22.000 | 30.986 | 1.396 E-05 |
| TC99M | 0.000 | 24.000 | 33.803 | 1.523 E-05 |
| TL201 | 0.000 | 8.000 | 11.268 | 0.508 E-05 |
| 123I | 0.000 | 34.000 | 47.887 | 2.157 E-05 |
| I131 | 0.000 | 16.000 | 160.000 | 0.721 E-04 |

Dose Calibrator

24-APR-97

13:16:56

| ISOTOPE | BKG-CPM | NET-CPM | DPM | MICRO-CURIES |
|---------|---------|---------|---------|--------------|
| CS-137 | 66.000 | 0.000 | 0.000 | 0.000 |
| CO-57 | 0.000 | 26.000 | 36.620 | 1.650 E-05 |
| TC99M | 34.000 | 0.000 | 0.000 | 0.000 |
| TL201 | 0.000 | 11.000 | 15.493 | 0.698 E-05 |
| 123I | 0.000 | 19.000 | 26.761 | 1.205 E-05 |
| I131 | 0.000 | 17.000 | 170.000 | 0.766 E-04 |

Lead Hexar (waste)

24-APR-97

12:59:32

| ISOTOPE | BKG-CPM | NET-CPM | DPM | MICRO-CURIES |
|---------|---------|---------|---------|--------------|
| CS-137 | 0.000 | 17.000 | 141.667 | 0.638 E-04 |
| CO-57 | 68.000 | 0.000 | 0.000 | 0.000 |
| TC99M | 0.000 | 26.000 | 36.620 | 1.650 E-05 |
| TL201 | 0.000 | 7.000 | 9.859 | 4.441 E-06 |
| 123I | 97.000 | 0.000 | 0.000 | 0.000 |
| I131 | 0.000 | 30.000 | 300.000 | 1.351 E-04 |

Injecting Table

24-APR-97

13:15:08

| ISOTOPE | BKG-CPM | NET-CPM | DPM | MICRO-CURIES |
|---------|---------|---------|---------|--------------|
| CS-137 | 0.000 | 13.000 | 108.333 | 4.880 E-05 |
| CO-57 | 102.000 | 0.000 | 0.000 | 0.000 |
| TC99M | 34.000 | 0.000 | 0.000 | 0.000 |
| TL201 | 0.000 | 11.000 | 15.493 | 0.698 E-05 |
| 123I | 0.000 | 27.000 | 38.028 | 1.713 E-05 |
| I131 | 0.000 | 19.000 | 190.000 | 0.856 E-04 |

Co 57 vial

24-APR-97

13:01:49

| ISOTOPE | BKG-CPM | NET-CPM | DPM | MICRO-CURIES |
|---------|---------|---------|--------|--------------|
| CS-137 | 0.000 | 8.000 | 66.667 | 3.003 E-05 |
| CO-57 | 0.000 | 25.000 | 35.211 | 1.586 E-05 |
| TC99M | 34.000 | 0.000 | 0.000 | 0.000 |
| TL201 | 21.000 | 0.000 | 0.000 | 0.000 |
| 123I | 0.000 | 21.000 | 29.577 | 1.332 E-05 |
| I131 | 105.000 | 0.000 | 0.000 | 0.000 |

Co-57

24-APR-97

13:04:37

| ISOTOPE | BKG-CPM | NET-CPM | DPM | MICRO-CURIES |
|---------|---------|---------|---------|--------------|
| CS-137 | 66.000 | 0.000 | 0.000 | 0.000 |
| CO-57 | 34.000 | 0.000 | 0.000 | 0.000 |
| TC99M | 0.000 | 22.000 | 30.986 | 1.396 E-05 |
| TL201 | 10.000 | 0.000 | 0.000 | 0.000 |
| 123I | 32.000 | 0.000 | 0.000 | 0.000 |
| I131 | 0.000 | 19.000 | 190.000 | 0.856 E-04 |

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

(FOR LFMS USE)
INFORMATION FROM LTS

Program Code: 02200
Status Code: 0
Fee Category: 7C
Exp. Date: 20020131
Fee Comments: _____
Decom Fin Assur Req'd: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: VAHJEN, GLEN A., M.D.
Received Date: 970425
Docket No: 3032582
Control No.: 124514
License No.: 06-28707-01
Action Type: Amendment

2. FEE ATTACHED

Amount: _____
Check No.: _____

3. COMMENTS

Signed Brown, R. J.
Date 5/1/97

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered ☒)

1. Fee Category and Amount: 7C \$440

2. Correct Fee Paid. Application may be processed for:

Amendment _____
Renewal _____
License _____

3. OTHER _____

Signed _____
Date _____

I (97)

| | |
|----------|--------------------------|
| Log | 970425 |
| Renewal | NUCLEAR DIAGNOSTICS, PC. |
| Check No | 2485 |
| Amount | \$440 |
| Fee Code | 7C |
| Type | AMD |
| Date | 5/1/97 |
| By | BB |

5/1/97
Per e-mail from
Rebecca, check sent
to RT, she will send to
me today.
BB

1097 MAY -6 111 10:52