

Quest Diagnostics Incorporated

900 Business Center Drive
Horsham, Pennsylvania 19044
215.957.9300



February 4, 2005

Licensing Assistant Section
Nuclear Materials Safety Branch
U.S. Nuclear Regulatory Commission, Region 1
475 Allendale Road
King of Prussia, Pa. 19406-1415

05 FEB -8 P2:04

RECEIVED
REGION 1

RE: License 37-28294-01 02030859

To Whom It May Concern:

Enclosed please find an application for renewal of our Material License.
If you have any questions regarding this application, please contact me as soon as possible.

Sincerely,

Linda Dickson
Special Chemistry Manager
Radiation Safety Officer

cc: D.Jenkins

136478
NMSS/RGNI MATERIALS-002

APPLICATION FOR MATERIAL LICENSE

Estimated burden per response to comply with this mandatory collection request: 7.4 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Records Management Branch (T-6 E6), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to bjs1@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0000), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND,
MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA,
RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

LICENSING ASSISTANT SECTION
NUCLEAR MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO
RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,
SEND APPLICATIONS TO:

SAM MUNN ATLANTA FEDERAL CENTER
U. S. NUCLEAR REGULATORY COMMISSION, REGION II
61 FORSYTH STREET, S.W., SUITE 23T85
ATLANTA, GEORGIA 30303-8931

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND
APPLICATIONS TO:

MATERIALS LICENSING BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
801 WARRENVILLE RD.
LISLE, IL 60532-4351

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,
LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA,
OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR
WYOMING, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-8084

03030859

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.

1. THIS IS AN APPLICATION FOR (Check appropriate item)

☐

A. NEW LICENSE

☐

B. AMENDMENT TO LICENSE NUMBER

☒

C. RENEWAL OF LICENSE NUMBER

37-28294-01

2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)

QUEST DIAGNOSTICS
900 BUSINESS CENTER DRIVE
HORSHAM, PA 19044

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

QUEST DIAGNOSTICS
900 BUSINESS CENTER DRIVE
HORSHAM, PA 19044

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

LINDA DICKSON

TELEPHONE NUMBER

215-442-7656

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL

a. Element and mass number; b. chemical and/or physical form; and c. maximum amount
which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR
TRAINING EXPERIENCE.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY

3P

AMOUNT

ENCLOSED

\$

13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39, AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE

LINDA DICKSON MGR. SPECIAL CHEMISTRY, RSO

SIGNATURE

Linda Dickson

DATE

2/4/05

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	
					136478

ITEM 5 - RADIOACTIVE MATERIAL

- a. Element and Mass Number: Iodine 125
- b. Chemical and/or Physical form: Prepackaged Kits
- c. Maximum amount possessed at any one time: 70 millicuries

ITEM 6 - PURPOSE FOR WHICH LICENSED MATERIAL WILL BE USED

For use in conducting in vitro laboratory studies.

ITEM 7 - INDIVIDUAL RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE

Linda Dickson, Manager Special Chemistry including RIA and Radiation Safety Officer. NRC License number 37-28294-01

Linda Dickson received a Bachelors of Science Degree in Medical Technology from Hahnemann University in 1992, has 23 years experience in a hospital environment and received Radiation Safety Training at Frankford and Northeastern Hospitals. In her 12 years of Employment at Quest Diagnostics, she attended a Radiation Safety program by Englehardt Associates, PA DEP workshop on "Managing Radioactive Materials and Waste in Bio-Medical Facilities" and viewed training films on "Radiation Safety for Healthcare". Linda Dickson currently works closely with Quest Diagnostics Corporate Health and Safety on Radiation Safety guidelines and Standard Operating Procedures.

ITEM 8 - TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS

All employees who perform RIA testing meet or exceed the educational requirements set by all regulating authorities as Medical Laboratory Technicians or Medical laboratory Technologists.

Upon hire or transfer into the RIA area, each employee is instructed in the use and proper handling of Radioactive Material and associated equipment including Gamma Counters, Survey Meters and Film Badges.

Instruction includes:

- Review of Corporate and Department Radiation Procedures and Safety
- Radioactive Material and ALARA
- Equipment Usage and maintenance
- Radiation safety Program
- Radioactive Material Log in Procedure
- Radioactive Waste Disposal Procedures
- Handling and Storage of Radioactive Material
- Emergency and Decontamination Procedures
- Changes in 10CFR part 20
- Performance of Environmental Surveys using Survey Meter and Swipe Tests

Yearly, every Technologist and Lab Assistant receives Radiation Safety Training including Review of Corporate and Department Radiation Procedures and Safety and the above topics. Upon completion of yearly training, a competency test is given and reviewed with each employee.

ITEM 9 - FACILITIES AND EQUIPMENT

Facilities - The use of Radioactive materials for RIA testing is contained within the Special Chemistry Department. Attached is a diagram of the area where the use of Radioactive Material is permitted.

Equipment -

1. Gamma Counters – Two IsoData Gamma Counters Serial # 5001646
Serial # 507215

The gamma counters are calibrated daily using iso-calibrator reference sources supplied by PolyMedco BioMedicals, Inc. Daily QC is performed and recorded on each instrument to check the following:

- Background
- Factor Values
- % Difference between wells

- % Efficiency

2. Survey Meters – Two Ludlum Model #2/44-3 Serial # 63666
Serial # 83765

Both Survey meters are calibrated annually by:

JRT Calibration Services
1200 E. High Street, Suite 111
Pottstown, PA. 19464

Attached are copies of the calibration certificates.

3. Quest Diagnostics participates in Global Dosimetry Solutions occupational radiation monitoring program. On a monthly basis, occupational radiation film badges are provided to employees who work with radioactive material. The badges are returned to Global Dosimetry Solutions and scanned for exposure. Results are reviewed and signed by each employee.

ITEM 10 - RADIATION SAFETY PROGRAM

Attached please find the Horsham Radiation Safety Standard Operating Procedure. The SOP's are reviewed annually with each Technologist and Lab Aide working in the RIA area. A test is given after completion of the training to ensure competency. In addition, the proper use of the Survey Meters and Swipe test procedure are reviewed.

ITEM 11 - WASTE MANAGEMENT

All dry Radioactive waste is transported for decay in storage via a contract with ADCO Services, Inc 17650 Duvan Drive, Tinley Park, IL 60477, License #IL-01347-01, expiration date 12/31/2007.

Liquid radioactive waste is disposed of into the sewer system. No more than 100 uCi of I125 is disposed of on a daily basis.

This is to acknowledge the receipt of your letter/application dated

2/4/2005, and to inform you that the initial processing which includes an administrative review has been performed.

☒ Renew 37-28294-01 There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

☐ Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 136470.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

(FOR LFMS USE)
INFORMATION FROM LTS

Program Code: 02410
Status Code: 2
Fee Category: 3P
Exp. Date: 20050331
Fee Comments: _____
Decom Fin Assur Req'd: N
.....

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

Applicant/Licensee: QUEST DIAGNOSTICS OF PENN INC.
Received Date: 20050208
Docket No: 3030859
Control No.: 136478
License No.: 37-28294-01
Action Type: Renewal

2. FEE ATTACHED

Amount: /
Check No.: /

3. COMMENTS

Signed
Date

Robert J. Ford
2/17/2005

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

1. Fee Category and Amount: _____

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

Amendment _____
Renewal _____
License _____

3. OTHER _____

Signed
Date

