



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**OFFICE OF RADIATION AND INDOOR AIR**  
 National Air and Radiation Environmental Laboratory  
 540 South Morris Avenue, Montgomery, AL 36115-2601  
 (334) 270-3400

February 8, 2005

RECEIVED  
 REGION 1  
 05 FEB 10 AM 3:31

Licensing Assistance Team  
 Division of Nuclear Materials Safety  
 U.S. Nuclear Regulatory Commission, Region I  
 475 Allendale Road  
 King of Prussia, PA 19406-1415

Dear Sir/Madame:

03003576

The National Air and Radiation Environmental Laboratory (NAREL) is requesting an amendment to Materials License 01-07317-01 to update personnel changes appearing in conditions eleven and twelve.

**Requested Changes to Condition 11:**

Due to the death of our Radiation Protection Officer (RPO), Randy O. McLendon, a new RPO must be designated. Please amend the license to reflect the appointment of D. Lynn Evans as Acting RPO, effective immediately. Samuel W. Poppell will remain the first alternate and J. Scott Telofski will remain the second alternate.

Currently the NAREL is evaluating its Safety, Health, Environmental and Radiation management programs. A new Safety, Health & Environmental manager will likely be recruited in the coming months to fill the position vacancy created by Mr. McLendon's death. Depending upon the qualifications of the candidate selected, the NAREL may choose to assign RPO duties to the Safety, Health & Environmental manager. When a decision is made to permanently assign RPO duties, an amendment request will be sent for your review and action.

**Requested Changes to Condition 12:**

I have replaced Edwin L. Sensintaffar as Director, NAREL. Please add me, Ronald G. Fraass, and D. Lynn Evans to the list of supervisors effective immediately and delete Edwin L. Sensintaffar and Randy O. McLendon. As the Senior Management Designee for this licensed location, any future correspondence should be addressed to me or the RPO. Enclosed is a summary of the training, experience and qualifications for myself and Ms. Evans.

Thank you for your timely consideration of this request. Please contact me at (334) 270-3401 or Lynn Evans at (334) 270-3475 if you have any questions.

Sincerely,

Ronald G. Fraass  
 Director

Enclosures

- cc: Radioactive Material License 01-07317-01 Correspondence File  
 Michael Clark  
 Lynn Evans  
 Samuel Poppell  
 Scott Telofski

136460  
**NMSS/RGNI MATERIALS-002**

Estimated burden per response to comply with this mandatory collection request: 7 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 and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), 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.

**APPLICATION FOR MATERIAL LICENSE**

**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:**

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, MISSISSIPPI, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

LICENSING ASSISTANCE TEAM  
DIVISION OF NUCLEAR MATERIALS SAFETY  
U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

**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  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, IL 60532-4352

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 BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TX 76011-4005

03003576

**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 01-07317-01
- C. RENEWAL OF LICENSE NUMBER \_\_\_\_\_

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

U. S. Environmental Protection Agency  
National Air and Radiation Environmental Laboratory  
540 South Morris Avenue  
Montgomery, Alabama 36115-2601

**3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED**

U. S. Environmental Protection Agency  
National Air and Radiation Environmental Laboratory  
540 South Morris Avenue  
Montgomery, Alabama 36115-2601  
(and temporary job sites throughout the United States)

**4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION**

D. Lynn Evans

**TELEPHONE NUMBER**

(334) 270-3475

**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	AMOUNT ENCLOSED	\$ 0.00
--------------	-----------------	---------

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

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, 38, 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**

Ronald G. Fraass, Director, NAREL/EPA

**SIGNATURE**

*Ronald G. Fraass*

**DATE**

02/08/2005

**FOR NRC USE ONLY**

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

136460

Curriculum Vitae

**CAPT Donna Lynn Evans**

PHS # 53668

Environmental Protection Agency  
National Air and Radiation Environmental Laboratory  
540 South Morris Avenue  
Montgomery, Alabama 36115-2601

February 2005

Education

M.S. (Health Physics) Georgia Institute of Technology, 1982

B.S. (Nuclear Medicine Technology) University of Alabama in Birmingham, 1977

B.S. (Biology) University of Alabama (Tuscaloosa), 1976

Experience

**Environmental Protection Agency  
Office of Radiation and Indoor Air (ORIA)  
National Air and Radiation Environmental Laboratory (NAREL)  
Environmental Studies Branch (ESB)  
Montgomery, Alabama**

**October 2002 - present**

**Health Physicist/Radiological Emergency Response Training Coordinator**

- Member of the EPA Radiological Emergency Response Team (RERT) based in the Office of Radiation and Indoor Air (ORIA). The RERT works closely with the EPA Superfund Program, other Federal agencies and state and local agencies in responding to emergencies involving radioactive materials. Response activities include field monitoring using various radiation detection equipment, sample collection and analysis, personnel monitoring/decontamination and technical consultation.
- Responsible for development and implementation of the radiological emergency response training program for the EPA National Air and Radiation Environmental Laboratory (NAREL).
- Represented NAREL on the RERT Infrastructure Development Workgroup. This was an EPA headquarters-directed workgroup assigned to develop position descriptions, training requirements and standard operating procedures for the RERT.
- Provide health physics support and technical assistance to EPA headquarters and regional staff, other Federal agencies and state and local governments
- Member of Commissioned Corps Readiness Force (CCRF). Currently completing requirements necessary to become Fully-Qualified member of CCRF.

**Food and Drug Administration  
Chicago, Illinois**

**July 2000 to September 2002**

**Regional Radiological Health Representative (RRHR) - Central Region**

Appointed RRHR for entire Central Region (CER) which doubled the responsibilities and workload for this RRHR position. The CER is the FDA's largest region covering 15 states and the District of Columbia.

- Managed and coordinated regional radiological health program for the CER that included 35% of all certified mammography facilities, 27% of all x-ray equipment manufacturers/assemblers and 88 million consumers.
- Technical expert and co-project officer for state contracts and partnership agreements. Included 14 state Mammography Quality Standards Act (MQSA) contracts for more than 2700 annual inspections and 10 state X-ray Partnership Agreements.
- FDA radiological emergency response liaison to numerous state and federal organizations including the Federal Emergency Management Agency (FEMA), Nuclear Regulatory Commission (NRC), Public Health Service (PHS), Environmental Protection Agency (EPA), Department of Agriculture (USDA) and state emergency response offices. Evaluated state and local emergency response plans and participated in emergency exercises associated with the nuclear power generating units located throughout the CER.
- Developed and managed training and operational budgets for the CER rad health program.
- Provided technical and management oversight to radiological health staff in 7 FDA Districts and the Regional office. Six of those staff were GS-13 senior rad health experts.
- Member of 3 advisory groups having significant influence on the national rad health program.
- Provided direct input to FDA headquarters in development of annual rad health workplan for all 7 CER districts. Monitored work progress and coordinated assignments and resources to ensure completion of CER workplan.
- Forecast federal/state radiological training needs; initiated programs to meet needs. Determined eligibility of federal and state personnel to participate in FDA rad health programs. Approved nominations of personnel seeking certification as MQSA inspectors and conducting x-ray field tests. Participated in approval of FDA personnel to become MQSA auditors and diagnostic x-ray auditors
- Participated in development of regulatory policy and guidelines at the regional and national level. Had significant impact on implementation of MQSA and other FDA rad health programs.

**January 1998 - June 2000**

**Regional Radiological Health Representative - Central Region (Midwestern States)**

Maintained RRHR responsibilities for the 7 Midwestern states after the Midwest and MidAtlantic Regions merged to form the Central Region (CER). Worked with counterpart RRHR for midAtlantic states to ensure rad health programs were consistent for entire CER. Except for size of region covered, duties same as those given above for RRHR Central Region.

**February 1997 - December 1997**

**Regional Radiological Health Representative - Midwest Region**

**September 1996 - January 1997**

**Acting Regional Radiological Health Representative - Midwest Region**

Except for size of region covered, duties same as those given above for RRHR Central Region.

NOTE: Performed RRHR duties concurrent with duties listed below for Radiological Health Specialist, September 1996 to October 1997.

**October 1994 - August 1996**

**Radiological Health Specialist**

- Certified as MQSA Inspector within 9 months of reassignment to the FDA. Completed six weeks of intensive training and formal examinations. Inspect/survey mammography facilities to ensure compliance with the MQSA.
- MQSA Auditor; evaluated performance of federal and state Certified MQSA Inspectors in the 7 states of the Midwest Region.
- Served on MQSA Inspector Working Group, a national committee to evaluate/revise MQSA facility inspection procedures.
- Faculty member for MQSA Course III, "Inspection Procedures", Mammography Quality Standards Act (MQSA). This is the last in the series of courses required for Certification as an MQSA Inspector. Presented lecture, directed laboratory exercises and conducted final examinations.
- Completed 11 weeks of training including FDA regulation of medical devices, x-ray equipment compliance testing, and implementation of the Mammography Quality Standards Act of 1992 (MQSA).
- Provided support to the Regional Radiological Health Representative in implementation of MQSA within the FDA Midwest Region (7 state area) including support of District personnel in development of a data base for tracking enforcement actions, preparation of Regional comments on draft MQSA documents produced by the Center for Devices and Radiological Health and preparation of summary of state licensure requirements for health care professionals who provide mammography services.
- MQSA enforcement activities in the FDA Midwest Region including identification of violations, preparation of Warning Letters to mammography facilities and evaluation of corrective actions.

**National Institutes of Health  
Bethesda, Maryland**

**March 1994 - September 1994**

**Assistant Chief, Radiation Safety Operations Section**

**Supervisor, Basic Research Laboratory Unit, Radiation Safety Operations Section**

- Assisted in management of Section; special projects such as development of Branch policy for tracking performance of monthly surveys from approximately 2500 labs on the NIH campus to identify delinquent labs.
- Responsible for the overall management, administration and supervision of comprehensive health physics program for the Basic Research Unit, which included approximately 1500 research labs on the NIH main campus and satellite buildings.
- Supervised 4 to 5 health physicists (GS-9 to GS-12) and Physical Science Technician (GS-9) who provided radiation safety expertise to all NIH research labs except those in the Clinical Center; reviewed all work performed by these individuals as described below for the Clinical Center except for direct patient care responsibilities.
- Back-up for Area 13 Health Physicist due to staff shortages; available to perform all duties required of staff health physicists in addition to supervisory responsibilities.
- First responder to after-hours emergencies.

**January 1990 - February 1994****Supervisor, Clinical Center Unit, Radiation Safety Operations Section**

- Management and supervision of health physics program for Clinical Center Unit, which included approx. 1000 research labs, Nuclear Medicine Department, Radiology Department, Radiation Oncology Branch, Cardiac Catheterization lab and an animal facility. Because of its composition, the U.S. Nuclear Regulatory Commission (NRC) particularly scrutinized this Unit; any violations of proper radiation safety practice in this Unit would jeopardize the continued use of radioactive materials at the NIH.
- Supervised 4 to 5 senior health physicists (GS-9 to GS-12 and 04 Commissioned Officer) who provided radiation safety expertise to the Clinical Center; reviewed all work performed by these health physicists, e.g., protocols for use of large amounts of radioactive materials, internal and external exposure investigation reports, correspondence with the NRC involving license applications, renewals and/or amendment requests, shielding evaluations, training handouts, reports to the NIH Radiation Safety Committee, etc. Work was reviewed for timeliness, technical content, organization and compliance with NRC and NIH regulations.
- Supervised health physics support of the therapeutic use of radioactive materials (radiopharmaceuticals and sealed sources) in patient-care activities.
- Developed and presented lectures in the Radiation Safety Branch training program.
- Directed and participated in emergency response activities; designated as first responder to after-hours emergencies.
- Responsible for review of radiation safety design criteria for renovations of the Clinical Center facilities.
- Ensured that lab inspections were conducted on a schedule consistent with NIH policy, federal regulations and NRC license conditions.
- Ensured that inventories and leak tests of sealed radioactive sources were performed in accordance with license requirements.
- Provided radiation safety expertise to other safety specialists, research leaders, architects and engineers.
- Interacted with high ranking officials at the NIH as well as with officials at other Federal agencies and other institutions on matters related to radiation safety and health physics; this included frequent interactions with the NRC concerning use of irradiators, use of radioactive materials in patient therapies, and inspection findings.
- Responsible for planning and conducting tours of the NIH for NRC Commissioners and other high ranking NRC officials.
- Assisted in the overall management, administration and supervision of the Section; provided input to the decision making process of the Branch.

**July 1983 - December 1989****Health Physicist, Radiation Safety Operations Section**

- Responsible for the radiation safety of a designated area of the NIH including the Nuclear Medicine Department, the Diagnostic Radiology Department and the Radiation Oncology Branch. This included approximately 300 biomedical research labs, five cell/animal irradiators and numerous x-ray units. Served as back-up health physicist for cyclotron facility.
- Provided radiation safety consultation, technical assistance and training to NIH researchers; conducted surveys and inspections of labs; investigated external and internal radiation exposures to NIH workers, reviewed qualifications of researchers to use radioactive materials; reviewed proposed protocols for use of large amounts of radioactivity in labs and with human subjects, including internal dosimetry calculations; conducted inventories and leak tests of sealed sources; provided radiation safety coverage and direction during the therapeutic use of radioactive materials in patients; prepared renewal applications and amendment requests for the licenses issued to the NIH by the NRC; responded to emergency situations.

**Commissioned and ordered to active duty in the Commissioned Corps of the U.S. Public Health Service in July 1983.**

**Veterans Administration Hospital  
Birmingham, Alabama**

**June 1978 - July 1981**

**Clinical Instructor, Nuclear Medicine Technology; Staff Nuclear Medicine Technologist**

- Responsible for preparation of radiopharmaceuticals and administration to patients.
- Performed radionuclide imaging procedures using mobile and stationary scintillation cameras and a rectilinear scanner.
- Performed radioimmunoassay procedures including extensive quality control programs.
- Served as a clinical instructor in the Nuclear Medicine Technology Program, University of Alabama in Birmingham; provided clinical, hands-on training to students.

**Crawford Long Hospital  
Atlanta, Georgia**

**October 1977 - June 1978**

**Staff Nuclear Medicine Technologist**

- Responsible for radiopharmaceutical preparation, quality control and administration.
- Performed various radionuclide imaging procedures using a scintillation camera and a rectilinear scanner.

**Continuing Education**

FRMAC Capstone Drill: Field Monitoring Team Training	August 2004
IS 195: Basic Incident Command System (FEMA course)	June 2004
Emergency Response Equipment Courses	April, May, July 2004
Emergency Response Deployment Courses	April 2004
Air Sampling During Emergency Situations	September 2003
Hazardous Materials Incident Response Operations	March 2003
Health and Safety Eight-Hour Training	October 2002
Emergency Response/Planning Training (FEMA Training)	
Advanced Radiological Accident Assessment-Post Plume Phase	March 1999
Radiological Accident Assessment-Plume Phase	February 1999
Radiological Emergency Management	June 1997
Radiological Emergency Preparedness Exercise Evaluation	May 1997
Radiological Emergency Preparedness Planning	April 1997
MQSA Certification Training	
MQSA Course I	February 6-17, 1995
MQSA Course II	April 18-28, 1995
MQSA Course III	June 5-16, 1995
<u>Certified MQSA Inspector</u>	June 1995
Mammography Quality Standards Act (MQSA) Continuing Education	
4.5 hours	November/December 1999
9 hours	November/December 1998
12 hours	May 1998
9 hours	November/December 1997
11.5 hours	April 1997
9 hours	November/December 1996
10 hours	May 1996
Health Physics Certification Training	April 1996



## Ronald G. Fraass

Mr. Fraass is currently the Director of EPA's National Air and Radiation Environmental Laboratory in Montgomery, Alabama. He came to this position after 28 months as Executive Director of the Conference of Radiation Control Program Directors (CRCPD) in Frankfort, Kentucky. As Executive Director, he managed all business aspects of the organization as well as representing them with numerous federal and international organizations. He is now an Emeritus Member of the CRCPD.

Mr. Fraass served as a Public Health Physicist in the Bureau of Air and Radiation of the Kansas Department of Health and Environment prior to working for CRCPD. He was with the state for ten years and left as the Supervisor, Environmental Radiation and Emergency Preparedness. He provided training in basic and advanced radiation detection and protection to state and federal staff who routinely work with radioactive materials. His primary duties included emergency response to potential radiological incidents throughout the state and preparation for accidents at nuclear power plants that are within or border Kansas. He rewrote state Protective Action Guides to conform to modified guidance from the Environmental Protection Agency and Food and Drug Administration. He completed numerous NRC and FEMA courses on health physics, protective actions, and emergency response. As an Associate Member of CRCPD, he represented CRCPD at national management meetings and exercises of the Federal Radiological Monitoring and Assessment Center; served as Chair of the Emergency Response Planning (E-6) Committee; and was a member of the Board of Directors. FEMA requested him to help revise two national courses on dose assessment. He taught a section of a DOE course on emergency response to senior federal officials. At NRC's request, he served as an exercise controller during a major exercise at Fort Calhoun Nuclear Station in Nebraska

Mr. Fraass came to the Bureau of Air and Radiation after 20 years of professional experience in the United States Air Force. Lieutenant Colonel Fraass retired in September 1991 as Chief, Systems Vulnerability and Weapons Effects Division, Directorate of Command, Control and Force Management, DCS Requirements and Test, Headquarters, Strategic Air Command (SAC). He assumed that position in August 1989 and was responsible for managing \$600 million in nuclear survivability vulnerability (S/V) programs for strategic aircraft, communication, and missile systems. He coordinated nuclear S/V programs for SAC weapon systems with other Air Force commands, the national laboratories, and the Defense Nuclear Agency (now Defense Threat Reduction Agency). He formulated SAC policy on hardening requirements for present and future military systems.

Earlier in his career, while at the Air Force Academy, he directed all radiation protection activities for four major organizations including two hospitals and a radiation laboratory. He prepared and renewed seven NRC and Air Force radioisotope licenses and had no inspection discrepancies. He repaired the radiation laboratory's Van de Graaff accelerator and neutron generator. He introduced an ALARA program at USAFA. He reduced exposure to X-ray technicians and doctors through training programs.

Following his tour at the USAF Academy, he was hand picked in 1982 for a joint assignment to Field Command, Defense Nuclear Agency. He served as Deputy Technical Director for

HURRON LANDING and then as Technical Director for MISTY RAIN. As Technical Director, he was responsible for all experimental aspects of the \$200 million underground nuclear weapon effects test.

He attended Kansas State University in Manhattan Kansas and graduated *cum laude* in December 1970 with a Bachelor of Science Degree in Nuclear Engineering. He graduated from the Air Force Institute of Technology in March 1978, with distinction, earning a Master of Science Degree in Nuclear Engineering. His thesis topic on dosimetry was published by the IEEE and the dosimeter design received a patent.

He is a graduate of the Applied Health Physics Course at Oak Ridge Associated Universities, the Radiological Emergency Response Course, an EPA 40 hour hazardous material course, and FEMA's basic and advanced dose assessment courses.

Member of Tau Beta Pi, Sigma Tau, and Phi Kappa Phi  
Plenary Member American Society of Health Physics  
Member of the American Nuclear Society and American Society for Testing and Materials, International

Publications and other information:

Fraass, R. G. and Tallon, R. W., "Use of a Metal-Nitride-Oxide-Semiconductor as the Detector for a Radiation Dosimeter," IEEE Transactions on Nuclear Science, Vol NS-25, No 6, December 1978

"MISTY RAIN Grounding and Shielding Guidelines," as Chairman of the Instrumentation Review Committee for MISTY RAIN, June 1984

Co-holder of US Patent number 4,213,045 for the MNOS Radiation Dosimeter

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

2/9/2005, and to inform you that the initial processing which includes an administrative review has been performed.

Amend 01-07317-01  
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** 136460.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.

(FOR LFMS USE)  
INFORMATION FROM LTS

BETWEEN:

License Fee Management Branch, ARM  
and  
Regional Licensing Sections

: Program Code: 03620  
: Status Code: 0  
: Fee Category: EX 3M 1D 2C  
: Exp. Date: 20120430  
: Fee Comments: 2C NOT SHIELDING  
: Decom Fin Assur Req'd: Y  
:.....

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

Applicant/Licensee: ENVIRONMENTAL PROTECTION AGENCY  
Received Date: 20050210  
Docket No: 3003576  
Control No.: 136460  
License No.: 01-07317-01  
Action Type: Amendment

2. FEE ATTACHED

Amount: /  
Check No.: /

3. COMMENTS

Signed Rivera Juncal  
Date 2/16/2005

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 \_\_\_\_\_