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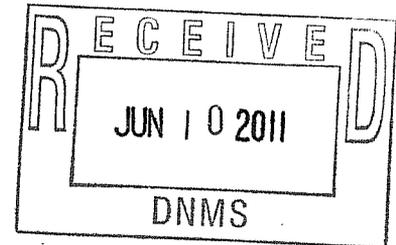


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
RADIATION AND INDOOR ENVIRONMENTS NATIONAL LABORATORY
P.O. BOX 98517 • LAS VEGAS, NEVADA 89193-8517

June 6, 2011

OFFICE OF
AIR AND RADIATION

Nuclear Materials Licensing Branch
U.S. Nuclear Regulatory Commission, Region IV
Attn: Roberto Torres
E. Lamar Boulevard, Suite 400
Arlington, TX 76011-4125



RE: License Amendment 27-05861-02

Dear Mr. Torres:

I am writing this letter to request an amendment to our NRC license, license number 27-05861-02, using the enclosed NRC Form 313, Application for Materials License. The amendment is to request a change of the Radiation Safety Officer at Radiation and Indoor Environments (R&IE) National Laboratory. The roles, responsibilities, and duties of the Radiation Safety Program would be relinquished from myself, Wesley Boyd, and given to Lyndsey Kelly to overtake and manage. Ms. Kelly has accomplished all necessary requirements of a Radiation Safety Officer as stated in 10 CFR 35.50. The enclosed documentation of Ms. Kelly's education and experience is outlined in the following page titled "Radiation Safety Officer Training and Experience" in addition to her attached resume. To assist with the application review and approval, I have used the suggested wording and committed to use the model procedures in NUREG 1556, Vol. 1, Rev. 1.

If there is anything else I can do to help with the process, please do not hesitate to call me at (702) 784-8255 (work) or (702) 494-7042 (cell). I can also be e-mailed at Boyd.Wesley@epa.gov. Thank you for your assistance with this matter.

Sincerely,

Wesley Boyd
Radiation Safety Officer

Enclosures (4): Amendment Application for Materials License 27-05861-02
 Items for Amendment of License Number 27-05861-02
 "Radiation Safety Officer Training and Experience"
 Lyndsey Kelly's Resume

NRC FORM 313
(3-2009)
10 CFR 30, 32, 33,
34, 35, 36, 39, and 40

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 3/31/2012

APPLICATION FOR MATERIALS LICENSE

Estimated burden per response to comply with this mandatory collection request: 4.3 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 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects.resource@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.

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:

OFFICE OF FEDERAL & STATE MATERIALS AND ENVIRONMENTAL MANAGEMENT PROGRAMS
DIVISION OF MATERIALS SAFETY AND STATE AGREEMENTS
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, 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, MISSISSIPPI, 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
612 E. LAMAR BOULEVARD, SUITE 400
ARLINGTON, TX 76011-4125

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.

<p>1. THIS IS AN APPLICATION FOR <i>(Check appropriate item)</i></p> <p><input type="checkbox"/> A. NEW LICENSE</p> <p><input checked="" type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER <u>27-05861-02</u></p> <p><input type="checkbox"/> C. RENEWAL OF LICENSE NUMBER _____</p>	<p>2. NAME AND MAILING ADDRESS OF APPLICANT <i>(Include ZIP code)</i></p> <p>U.S. Environmental Protection Agency Wes Boyd 944 East Harmon Avenue Las Vegas, NV 89119</p>
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<p>3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED</p> <p>944 East Harmon Avenue Las Vegas, NV 89119</p>	<p>4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION</p> <p>Wes Boyd</p> <p>TELEPHONE NUMBER</p> <p>(702) 784-8255</p>
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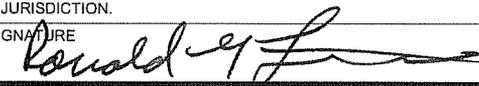
SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

<p>5. RADIOACTIVE MATERIAL</p> <p>a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.</p>	<p>6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.</p>		
<p>7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.</p>	<p>8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.</p>		
<p>9. FACILITIES AND EQUIPMENT.</p>	<p>10. RADIATION SAFETY PROGRAM.</p>		
<p>11. WASTE MANAGEMENT.</p>	<p>12. LICENSE FEES <i>(See 10 CFR 170 and Section 170.31)</i></p> <table border="1"> <tr> <td>FEE CATEGORY</td> <td>AMOUNT ENCLOSED \$</td> </tr> </table>	FEE CATEGORY	AMOUNT ENCLOSED \$
FEE CATEGORY	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.

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.

<p>CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE</p> <p>Ronald G. Fraass Laboratory Director</p>	<p>SIGNATURE</p> 	<p>DATE</p> <p>06/06/2011</p>
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FOR NRC USE ONLY

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

Items needed for Amendment of License Number 27-05861-02

Item #5 and #6: Radioactive Material added to License and Purpose for Adding Material

Radionuclide	Form	Manufacturer	Model	Quantity	Purpose
No Changes Requested					

Item #7: Individual(s) responsible for Radiation Safety program and their training and experience

Name	Education	Certificates	Experience
Wes Boyd (RSO)	Master's Degree in Health Physics at University of Nevada Las Vegas	Certified Health Physicist (CHP) and 40 hour Radiation Safety Course through Radiation Safety Academy	Five years of applied Health Physics experience at EPA
Lyndsey Kelly (Acting RSO)	Master's Degree in Health Physics at University of Nevada Las Vegas	40 hour Radiation Safety Course and 40 hour Advanced Radiation Safety Course through Radiation Safety Academy	Two years of applied Health Physics experience at EPA; Two years technician experience at Louisiana State University Radiation Safety Office

Item #8: Training for individuals working in or frequenting restricted areas

Name	Training
No Changes Requested	

Item #9: Facilities and Equipment

(Facilities and equipment have not changed)

Item #10: Radiation Safety Program

Aspects of Radiation Safety Program	Response Needed?		Explanation
	Yes	No	
Annual audit program		<input checked="" type="checkbox"/>	The applicant is not required to, and should not, submit its audit program to NRC for review during the licensing phase. Annual audits of the Radiation Safety Program will take place once a year as stated in the Radiation Safety Manual in reference to the guidelines of section 8.10.1 "Radiation Safety Program--Audits "of the NUREG 1556 Vol. 11, Rev. 1, dated April 1999.

Termination of Activities			The applicant is not required to, and should not, submit a response to the termination of activities section during the initial application. However, when the license expires, the license ceases operations, NRC Form 314 must be submitted.
Radiation monitoring instruments			The applicant is not required to, and should not, submit a response to radiation monitoring instrumentation. All users will be required to use a radiation survey meter that meets the requirements as stated in section 8.10.2 "Radiation Safety Program--Radiation Monitoring Instruments" of the NUREG 1556 Vol. 11, Rev. 1, dated April 1999.
Material receipt and accountability			The applicant is not required to, and should not, submit a response to material receipt and accountability. Physical inventory of the sources will be conducted as stated in the Radiation Safety Manual in reference to the guidelines of section 8.10.3 "Radiation Safety Program--Material Receipt and Accountability" of the NUREG 1556 Vol. 11, Rev. 1, dated April 1999.
Occupational Dose			The applicant is not required to, and should not, submit a response to occupational doses. As stated in the Radiation Safety Manual, any authorized personnel(s) who could potentially receive in one year a radiation dose in excess of 10% of the allowable limits in 10 CFR 20 will be provided dosimetry processed and evaluated by an NVLAP-approved processor that is exchanged quarterly throughout the year.
Public Dose			The applicant is not required to submit a response to the public dose section during the licensing phase. This matter will be examined during an inspection.
Safe use of RAM, operating and emergency procedures, bioassay, security			The operating and emergency procedures in section 8.10.6 "Radiation Safety Program--Safe Use of Radionuclides and Emergency Procedures" of the NUREG 1556 Vol. 11, Rev. 1, dated April 1999 will be implemented and maintained at all times.
Surveys, leak tests, calibrations			Leak tests will be performed by authorized personnel at intervals of twice a year as approved by NRC in the Radiation Safety Manual.

Maintenance		<input checked="" type="checkbox"/>	The applicant is not required to submit its response to maintenance during the licensing process. However, this issue will be reviewed during inspection.
Transportation		<input checked="" type="checkbox"/>	The applicant is not required to submit its response to transportation during the licensing process. However, this issue will be reviewed during inspection.

Item #11: Waste Management

Aspects of Radiation Safety Program	Response Needed?		Explanation
	Yes	No	
Waste disposal		<input checked="" type="checkbox"/>	The applicant is not required to submit a response to waste management during the licensing process.

RADIATION SAFETY TRAINING AND EXPERIENCE

Structured Educational Program for Proposed Radiation Safety Officer:

Course Title	Course Description	Clock Hours	Dates of Training Period
Radiation Detection	Provides a basic understanding of dosimetry and radiation detection. Energy loss through the interaction of radiation with matter. Differing typed of spectroscopy, electronics, and instrumentation involved in radiation detection. Statistics, errors, and interpretation encountered in data collection.	48 hours	Jan 2008- May 2008
Radiation Physics Instrumentation Lab	Laboratory experiments in basic radiation physics and detection. Includes operation and calibration of survey instruments and gas-filled counters. Theory and operation of alpha and gamma spectrometry equipment and liquid scintillation counters. Laboratories using radioisotopes and sealed sources ,and discussions on counting statistics and basic electronics.	48 hours	Jan 2008- May 2008
Radiation Protection	Atomic and nuclear structure; decay energetics and kinetics; interactions of radiation with matter; radiation protection standards; practical aspects of radiation protection; photon, neutron, beta and X-ray shielding; criticality; radiation protection at reactors, accelerators and medical facilities; radioactive material transportation regulations. Heavily math/calculus dependent.	64 hours	Aug 2008- Dec 2008
Environmental Health Physics	Cosmic and terrestrial radiation sources. Emphasis on TENORM, radon and pathway modeling. Topics include environmental regulations, nuclear fuel cycle, nuclear weapons testing and accidents, geohydrology and geochemistry.	48 hours	Aug 2007- Dec 2007
Radiation Biology	Radiation biochemistry, radiation effects on cellular structure and function, organs and systems, organisms, and populations. Discussions include target theory, direct and indirect effects, cell survival kinetics, prompt effects including acute radiation syndrome, delayed effects, and dose-effect relationships.	48 hours	Jan 2008- May 2008
Radiation Dosimetry	Mathematical treatment of the fundamental principles of internal and external radiation dosimetry. Pathway models and bioassay techniques studied to support the calculation of radiation dose from the intake of radioactivity. General external dosimetry from a variety of industrial and medical sources is addressed.	48 hours	Jan 2008- May 2008
Radiochemistry Lab	Laboratory experiments in radiation detection, counting statistics and radiochemical separations are discussed. The operation and calibration of alpha- and gamma-ray spectrometry equipment and liquid scintillation counters will be examined. Radiochemical separation and analysis of environmental samples are performed. Novel and standard procedures for sample examination will be covered	48 hours	Aug 2008- Dec 2008
Radioactive Waste Management	Overview of the cleanup and management of radioactive and mixed wastes in the federal and private sector. Role of radiation protection personnel in radioactive waste management activities discussed.	48 hours	Jan 2009- May 2009

Formal Radiation Safety Training:

Company	Course Title	Clock Hours	Dates of Training Period
Radiation Safety Academy	Radiation Safety Officer's Course	40 hours	March 8-12, 2010
Radiation Safety Academy	Advanced Radiation Safety Officer's Course	40 hours	Sept 20-24, 2010

Lyndsev Kelly

Objective:

Seeking a professional employment where my professional experience, training, and background in Health Physics will allow me to contribute as an integral part of an innovative, progressive company.

Experience:

May 2009-Present

United States Environmental Protection Agency, Radiation and Indoor Environments National Laboratory, Las Vegas, NV

Environmental Protection Specialist/Health Physicist

Provides Health physics expertise and support to the laboratory's mission with field-focused radiological monitoring and measurement activities such as assessment, evaluation, and removal actions of radioactive contaminated sites including site monitoring, decontamination, and long term site restoration; Provides national and international Health Physics, technical assistance as vital member of the Radiological Emergency Response Team (RERT); Dose Assessor for the working group of the multi-agency Federal Radiological Monitoring and Assessment Center (FRMAC) in the event of a national radiological crisis; Serves as the decontamination specialist and Health Physicists for RERT and works in junction with experts of the National Decontamination Team to join the research of new technologies of radiological decontamination to the field members and personnel of the RERT; Global air monitoring RadNet fixed station operator; Assistant/Acting Radiation Safety Officer (RSO) and maintains compliance with the Nuclear Regulatory Commission's guidelines and ensures safe practices to protect employees' health and the public from the potential harmful effects of ionizing and non-ionizing radiation.

Aug. 2007-Dec. 2009

Department of Health Physics, University of Nevada Las Vegas, Las Vegas, NV

Graduate/Research Assistant

Applying the theoretical and problem solving aspects of health physics and related disciplines to real world situations, Effectively communicating technical information in both oral and written form, Study various aspects of my research and applying findings to my practice

Jan. 2006-Aug. 2007

Louisiana State University Radiation Safety Office, Baton Rouge, LA

Technical Assistant

Recording and checking radioactive packages for contamination, Opening/Closing of radiation laboratories, Radioactive waste handling and management, Administration and review of radiation safety training examinations, Quarterly radiation laboratory contamination surveys, Semi-annual radiation laboratory audits, radiation survey meter calibration, Radiation dosimeter management, annual inspection for analytical X-ray equipment, operation of gamma irradiators

Education:

Fall 2007-Fall 2009

University of Nevada Las Vegas, Las Vegas, NV

Masters Degree in Health Physics with a concentration in Environmental Health Physics

Fall 2002-Spring 2007

Louisiana State University, Baton Rouge, LA

Bachelors Degree in Physics with a concentration in Medical Physics

Research:

Fall 2007-2009

Department of Health Physics, University of Nevada Las Vegas, Las Vegas, NV

Thesis Title: "Optimization of Microprecipitation as a Sample Preparation Method for Alpha Spectroscopy"

Perfect the method of microprecipitation by studying the influence of carrier element, solution temperature, precipitation time, the amount of carrier and hydrofluoric acid used on the procedure. In addition an autoradiography technique is used to visually determine the homogeneity of radionuclide deposition on the filter.

Fall 2002-Spring 2007 **Department of Biological Sciences, Louisiana State University, Baton Rouge, La.**
Conducted a bioremediation project to alter the DNA code of the *Pseudomonas stutzeri* by irradiating the strain eventually causing the strain to become radio resistant for bioremediation of radioactive wastes and contaminants.

Presentations:

April 2011 **Lyndsey Kelly**, “Is Radiation Harmful? How to Convey Radiation Risk to Patients.” 2011 Western States Osteopathic Conference, Las Vegas, Nevada.

Sept. 2008 **Lyndsey Kelly**, Sherry Stock Faye, Phillip Patton, and Ralf Sudowe, “Optimization of Microprecipitation Procedure for Nuclear Forensics Applications,” Western Regional Meeting of the American Chemical Society, Las Vegas, Nevada.

July 2008 **Lyndsey Kelly**, Sherry Stock Faye, Phillip Patton, and Ralf Sudowe, “Optimization of Microprecipitation as a Sample Preparation Method for Alpha Spectroscopy,” 53rd Annual Meeting of the Health Physics Society, Pittsburgh, Pennsylvania.

July 2008 Matthew Mitchell, **Lyndsey Kelly**, Wei-Hsung Wang, “Evaluation of the Public Awareness in Nuclear Power and Radiation,” 53rd Annual Meeting of the Health Physics Society, Pittsburgh, Pennsylvania.

Training:

Sept. 2010 Advanced Radiation Safety Officer Training—Radiation Safety Academy
March 2010 Radiation Safety Officer Training—Radiation Safety Academy
Aug. 2008 Modern Methods in Alpha Spectroscopy—Ortec, Inc.

Skills:

Computer: Excellent knowledge of Microsoft Office and typing skills

Technical: High level of proficiency in laboratory based instrumentation
(Alpha/Beta proportional counters, liquid scintillation, germanium detectors)
Excellent knowledge and experience of hand held instrumentation
(Geiger Muller counters, ion chambers, scintillators)
High level of proficiency in Portable spectroscopy instruments
(SAM 940 and in-situ germanium detectors)

Honors:

Jan. 2011 Bronze Medal for Commendable Service, U.S. Environmental Protection Agency
Jan. 2011 Outstanding Team Award, U.S. Environmental Protection Agency
June 2010 Superior Accomplishment Recognition Award, U.S. Environmental Protection Agency
2010 Team Award, U.S. Environmental Protection Agency (6 Total Awards)

Activities and Clubs:

Dec. 2010-Present Program Committee Member for the National Health Physics Society
Dec. 2005-Present Member of the National Health Physics Society

JUL 14 2011

DATE

This is to acknowledge the receipt of your letter/application dated 6/6/11, and to inform you that the initial processing, which includes an administrative review, has been performed.

There were no administrative omissions. Your application will be 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:

The action you requested is normally processed within 90 days.

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** 575529.
When calling to inquire about this action, please refer to this mail control number.
You may call me at 817-860-8103.

Sincerely,



Licensing Assistant

BETWEEN:

Accounts Receivable/Payable
and
Regional Licensing Branches

[FOR ARPB USE]
INFORMATION FROM LTS

Program Code: 03610
Status Code: Pending Amendment
Fee Category: 3L 3P
Exp. Date:
Fee Comments:
Decom Fin Assur Req: Y

License Fee Worksheet - License Fee Transmittal

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: ENVIRONMENTAL PROTECTION AGENCY
Received Date: 06/10/2011
Docket Number: 3006981
Mail Control Number: 575529
License Number: 27-05861-02
Action Type: Amendment

2. FEE ATTACHED

Amount: _____

Check No.: _____

3. COMMENTS

Signed: Colleen Murnahan

Date: 7-05-2011

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 _____

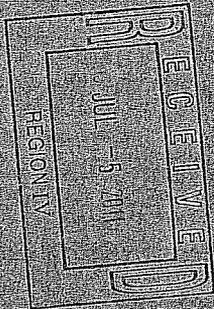
Signed: _____

Date: _____



United States
 Environmental Protection Agency
 Radiation and Indoor Environment
 National Laboratory
 P.O. Box 96517
 Las Vegas, NV 89193-9517
 Official Business
 Penalty for Private Use
 \$300

US NRC Region IV
 ATTN: Licensing Assistant
 612 East Lamar Boulevard, Suite 400
 Arlington, TX 76011-4125



Hester
 06/29/2011
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