NRC FORM 313 (4-2008)
10 CFR 30, 32, 33, 34, 35, 36, 39, and 40

U.S. NUCLEAR REGULATORY COMMISSION

APPLICATION FOR MATERIALS LICENSE

APPROVED BY OMB: NO. 3150-0120 EXPIRES: 10/31/2008

Estimated burden per response to comply with this mandatory collection request: 4.4 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 and FOIA/Privacy Services Branch (T-5 F53), 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.

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, 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

(06-30007-02)

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

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03219

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)*

- [X] A. NEW LICENSE
- [X] B. AMENDMENT TO LICENSE NUMBER ~~06-30007-01~~ 30007
- [ ] C. RENEWAL OF LICENSE NUMBER

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

RSA Laboratories
A Division of Radiation Safety Associates, Inc.
P.O. Box 107
Hebron, CT 06248-0107

2008 JUL -8 AM 11:00 RECEIVED REGION 1

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

Temporary job sites owned/operated by other NRC licensees, as well as non-licensees.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

K. Paul Steinmeyer, RSO

TELEPHONE NUMBER

(860) 228-0487

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. maiximum 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 **14** 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, 39, AND 40, AND THAT ALL INFORMATION CONTANED 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 C RIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURIS DICTION.

CERTIFYING OFFICER -- TYPED/PRINTED NAME AND TITLE	SIGNATURE	DATE
K. Paul Steinmeyer, President		July 7, 2008

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			$		142595 NMSS/RGN1 MATERIALS-002
APPROVED BY				DATE	

REC'D IN LAT 8/5/08

Radiation Safety Associates, Inc.

19 Pendleton Drive, PO Box 107 • Hebron, CT 06248

July 7, 2008

U.S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406-1415

ATTN: Licensing Section

RE: Request for Amendment
License 06-30007-01 (Current Amendment No. 16)
Docket No. 030-33025

Dear Sir or Madame:

This is an application for amendment of the above license. NRC License Amendment

License Number 06-30007-01
Current Amendment 16

Expedited Action Requested

If additional information is needed, please contact K. Paul Steinmeyer at (860) 228-0487 or at kpstein@radpro.com.

Purpose

RSA Laboratories, a Division of Radiation Safety Associates, Inc. (RSA) is amending its license to obtain authorization to perform remediation services (decontamination and decommissioning) at temporary job sites utilizing its own license. This license will apply only to temporary job sites owned/operated by other NRC licensees, as well as non-licensees.

Introduction

We have reviewed "Policy and Guidance Directive FC 94-02" and its appendices, dated January 21, 1994, and agree to implement our remediation services program in accordance with it.

Details

See attached NRC Form 313 Application for Materials License.

Phone: (860) 228-0487 • Fax: (860) 228-4402 • Web: www.radpro.com • E-mail: kpstein@radpro.com

5. RADIOACTIVE MATERIAL.

	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, source or special nuclear material with Atomic Numbers 1 through 99	Any	As present at the site to be remediated
B	Any naturally occurring radioactive material and accelerator-produced radioactive material	Any	As present at the site to be remediated

The site owner remains responsible for decommissioning financial assurance (if a licensee) and for the eventual release of the site.

RSA's existing license, Condition 10, permits us to transport calibration and reference sources to temporary job sites in NRC-regulated states. Condition 21 allows us to transport radioactive material.

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

Remediation of licensed and non-licensed sites.

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

7.1 Radiation Safety Officer

The Radiation Safety Officer for this license will be K. Paul Steinmeyer, RRPT. Mr. Steinmeyer is already the RSO on Materials License 06-30007-01. His credentials were submitted with our license renewal application dated January 31, 2003.

7.2 Authorized Users

Authorized Users on this license are Paul R. Steinmeyer, Jay R. Dockendorff and Kurt Newton. These individuals are already named as Authorized Users on Materials License 06-30007-01. Their credentials were submitted with our license renewal application dated January 31, 2003.

7.3 Radiation Safety Committee

The Radiation Safety Committee for this license will be composed of the RSO and the three Authorized Users. The committee will meet:

- 14 days or less before the start of a remediation job
- Weekly during the on-site portion of the job
- Quarterly at other times.

A quorum will consist of the RSO and 2 of the 3 Authorized Users.

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

8.1 Annual radiation worker training is provided to the Authorized Users by the RSO or by another qualified person.

8.2 Other workers used on a remediation project will receive training from the RSO or by another qualified person that is commensurate with the risk associated with the work. This training will be documented.

9. FACILITIES AND EQUIPMENT.

All facilities and equipment under this license will be the property and responsibility of the owner of the site to be remediated.

10. RADIATION SAFETY PROGRAM

10.1 Procedures

During the 14 day wait period between notification to the NRC and commencement of work, site-specific procedures will be written and RSA personnel will be trained to those procedures. Examples of procedure topics are listed below.

- Program Scope
- Authority and Responsibility
- Definitions and Limits
- Personal Dosimetry, Exposure Control and Surveys
- Contamination Control
- Personal Protective Equipment
- Respiratory Protection
- Waste Minimization, Control, Packaging and Storage
- Posting and Labeling
- Internal Dosimetry
- Training
- ALARA
- Emergencies
- Survey and Analytical Methods
- Records and Reports
- Program Audits
- Packaging and Transporting Radioactive Material
- Instrumentation
- Other topics as required by a specific job,

10.2 Limits and Acceptance Criteria

The limits and acceptance criteria used in procedures developed for each remediation job will incorporate those specified in the Code of Federal Regulations. Where the Code of Federal Regulations does not establish a clear limit or acceptance criterion, the RSO will take into consideration values put forth

in regulatory guides and other documents published by NRC, including MARSSIM (NUREG-1575).

10.3 Personnel Monitoring

10.3.1 All RSA personnel, while engaged in licensed activities at remediation sites, will wear personal radiation-monitoring devices while performing such work. These dosimeters will usually be changed and evaluated quarterly. At higher dose-rate jobs the RSO may require more frequent dosimeter change. Personnel radiation exposure records will be maintained, and reports provided, as a required in 10 CFR 19 and 10 CFR 20.

10.3.2 Personal dosimeters will be supplied by Landauer, or by another vendor with NVLAP accreditation.

10.3.3 Radiation levels in unrestricted areas will be monitored by direct radiation surveys at a frequency determined by the RSO.

10.4 Radiation Detection Instruments and Calibration

10.4.1 Survey Meters

a. These instruments will be utilized to perform gross radiation and contamination surveys at client facilities.

b. Survey instruments will be calibrated every twelve (12) months, plus or minus one (1) month. They will also be calibrated after any servicing of the instrument (other than a simple battery change or replacement of a detector cord with a cord of the same length). Calibrations will normally be performed in house (authorized by RSA's current license).

c. The types of survey meters that will be available at any location where remediation activities are taking place depend on the isotopes and quantities at the site. The list below shows those types of detectors that RSA has available for use at remediation sites.

Type	Radiation Detected	Sensitivity Range	Use
Portable thin-window G-M pancake-type detector with count-rate meter	beta-gamma	0-600 kcpm	Survey and monitoring, gross testing of samples
Portable G-M side-wall detector with exposure-rate meter	gamma	10^{-6} - 10^{-8} µCi	Survey and monitoring, gross testing of samples
Portable zinc-sulfide detector with count-rate meter	Alpha	10^{-8} µCi	Survey and monitoring, gross testing of samples
Portable Micro-R or Micro-Rem meters	Gamma	0-5000 µR/h	Survey and monitoring.

10.4.2 Analytical Equipment

a. The instruments listed in the table below will be used to perform quantitative analysis on surfaces and samples during remediation operations.

b. Survey instruments will be calibrated every twelve (12) months, plus or minus one (1) month. They will also be calibrated after any servicing of the instrument (other than a simple battery change or replacement of a detector cord with a cord of the same length). Calibrations will normally be performed in house (authorized by RSA's current license).

c. The types of analytical detectors that will be available at any location where remediation activities are taking place depend on the isotopes and quantities at the site. The list below shows those types of detectors that RSA has available for use at remediation sites.

Type	Radiation Detected	Sensitivity Range	Use
Sodium iodide gamma spectrum analyzer	Gamma	10^{-6} - 10^{-8} µCi	Analytical measurements
Gas-flow proportional counter, 1`00 cm^2 and 425 cm^2	Alpha, beta	10^{-6} - 10^{-8} µCi	Analytical measurements
Liquid scintillation analyzer	Beta	10^{-8} µCi	Analytical measurements
Thin-window G-M detector with counter-scaler and constant geometry sample holder	Beta, gamma	10^{-3} µCi	Analytical measurements
Thin-window zinc sulfide scintillation detector with counter-scaler and constant geometry sample holder	Alpha	10^{-6} µCi	Analytical measurements
Thin-window sodium iodide scintillation detector with counter-scaler and constant geometry sample holder	Low-energy gamma, x-ray	10^{-6} µCi	Analytical measurements

10.5 Routine Surveys

Routine wipe surveys, direct contamination surveys and gamma radiation surveys will be performed at a frequency established in the site-specific procedures developed for each site. Acceptance criteria and action levels will also be established for each site.

10.6 Posting And Labeling

Areas will be posted with radiation warning signs and containers will be labeled with radiation warning labels in accordance with 10 CFR 20.1901 through 1905.

11. WASTE MANAGEMENT

All radioactive waste produced during remediation projects worked under this license will remain the property and responsibility of the site owner. Typically it is anticipated that this waste will be packaged and made ready for transport by RSA, and put into secure storage at the site for eventual pick up by a licensed waste broker.

Please contact me immediately if you need clarification or additional information in support of this application. This application is available in electronic format if needed.

Sincerely,

K. Paul Steinmeyer, RRPT
President and Radiation Safety Officer
RSA Laboratories, a Division of Radiation Safety Associates, Inc.
E-Mail: kpstein@radpro.com