



**DEFENSE THREAT REDUCTION AGENCY
AND
UNITED STATES STRATEGIC COMMAND CENTER
FOR COMBATING WEAPONS OF MASS DESTRUCTION
8725 JOHN J. KINGMAN ROAD, STOP 6201
FORT BELVOIR, VA 22060-6201**

B1. 2

JUN 18 2014

03035668

U.S. NRC Region 1 DNMS
2100 Renaissance Blvd
King of Prussia, PA 19406

Subject: License Amendment, Docket No. 030-35668, Control No. 573138.

Mr. Dennis Lawyer:

This letter requests amending the following to DTRA/SCC WMD License 45-25551 -01:

1. We have removed the portable nuclear gauges from the Permanent High Explosive Test Site (PHETS), White Sands Missile Range, N.M. and relocated them to the Technical Evaluation Assessment Monitor Site (TEAMS), Kirtland AFB. We are requesting that the PHETS be decommissioned and removed from the license as a storage location. Portable nuclear gauges were the only radioactive devices/material (special form) stored at the PHETS location. Additionally, since November 2012, the housing on the soil density gauges have been locked and the gauges are secured and sealed in locked storage containers. The gauges have been placed into a storage status in accordance with License 45-25551 -01, Amendment No. 18, Item 15 E.

The materials listed below represent all material previously stored at the PHETS. See Attachment A for the most recent leak test results.

Manufacturer	SSD Registry #	Model	Isotope	Serial #
Troxler Electronic Labs Inc	NC-646-D-138-S	3450	CS-137	750-6277
Troxler Electronic Labs Inc	NC-646-D-138-S	3450	AM-241:BE	47-11601
Troxler Electronic Labs Inc	NC-646-D-830-S	3411	CS-137	CC-4066
Troxler Electronic Labs Inc	NC-646-D-830-S	3411	AM-241:BE	CAA-3287
CPN International Inc	CA-208-D-106-S	AC-2R	AM-241:BE	1274

2. Attachment B contains a request for additional licensable material. Authorized users of HEG Series sources are trained in accordance with Item 12. B., of license amendment 18. In addition, sources that expose workers to a "radiation area" or a "high radiation area" will be supervised by a Certified Health Physicist or a National Registry of Radiation Protection Technician with sufficient knowledge, training, and experience to provide proper oversight. Sealed source registry No.: CA0406S122S.

3. Attachment C contains the most recent Agency/Center Organizational Chart.


584161

REC'D 10619 14AM1037

4. Address correction on Amendment 18, Item 10., I) to read: Joint Base **Pearl** Harbor-Hickam.

If there are any questions or additional information needed, please contact Mr. Michael Hinton at (703) 767-0295 or email him at michael.hinton@dtra.mil

Sincerely,


Sherry J. Davis
Dir, ESON Department (J4E)
Acquisition, Finance, & Logistics
703-767-7122

Attachments:
As stated



**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 FOIA, Privacy, and Information Collections 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. *AMENDMENTS/RENEWALS THAT INCREASE THE SCOPE OF THE EXISTING LICENSE TO A NEW OR HIGHER FEE CATEGORY WILL REQUIRE A FEE.

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
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PA 19406-2713

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
1600 E. LAMAR BOULEVARD
ARLINGTON, TX 76011-4511

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 45-25551-01
- C. RENEWAL OF LICENSE NUMBER _____

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

Defense Threat Reduction Agency (DTRA)
8725 John J Kingman Road
Fort Belvoir VA 22060

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

At locations specified in current license.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Michael Hinton

BUSINESS TELEPHONE NUMBER
(703) 767-0295

BUSINESS CELLULAR TELEPHONE NUMBER

BUSINESS EMAIL ADDRESS
michael.hinton@dtra.mil

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 (Fees required only for new applications, with few exceptions*) (See 10 CFR 170 and Section 170.31)

FEE CATEGORY N/A 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, 37, 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

Sherry J. Davis, Dir, ESOH Department

SIGNATURE

Sherry J. Davis

DATE

18 Jun 14

FOR NRC USE ONLY

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

Radioactive Counting Data/Results

Date: 19 November 2012

Evaluation of: Source Leak Test

Counter/Meter: Ludlum 3030E α/β Sample Counter Serial#: 217602

Detector Assembly: 43-10-1 Serial#: PR229473

Calibrated: 2 April 2012 Calibration Due: 28 March 2013

Counting Date: 19 November 2012

Counting Statistics: Nominal Counts BKG $\alpha=2$ $\beta=80$ Counting Time: 1 min

Th-230 Activity: 19,600 dpm SN 5610-05 Tc-99 Activity: 8780 dpm SN 5611-05

	α Channel	β Channel	% in β	Efficiency	MDAcpm	MSdpm	MS in uCi
Th-230	7247 cpm	923 cpm	12.7	36.9%	9.3 cpm	25.2 dpm	1.13 E-5
Tc-99	5 cpm	2896 cpm	0.17	32.1%	44.3 cpm	138.0 dpm	6.22 E-5

NOTES: Regulatory MS Trigger is 11100 dpm or 5.0 E-3 uCi. Counter Minimum Sensitivity (MS) correlates to the sample count rates action limit of Channel MDAcpm (α bkg+9 or β bkg+44 cpm)

Date Swiped	Source Type	Source SN/ID	Swipe Area	CPM α/β Gross	CPM α/β Net	DPM Net	Result uCi	Source Location Notes	Initial
16 Nov 12	Am-241	NO2 0002/02 Sandia3086	Source	1/77	0/0	<MDA	<1.13 E-5 α	TEAMS Leak Test	FMS
16 Nov 12	Am-241	NO2 0003/02 Sandia 3085	Source	0/84	0/4	<MDA	<1.13 E-5 α	TEAMS Leak Test	FMS
16 Nov 12	Am-241/Cs-137	AC-2R A230101274	Source	1/82	0/2	<MDA	<1.13 E-5 α <6.22 E-5 β	TEAMS Leak Test	FMS
16 Nov 12	Am-241/Cs-137	Troxler 3411 6928	Source	1/77	0/0	<MDA	<1.13 E-5 α <6.22 E-5 β	TEAMS Leak Test	FMS
16 Nov 12	Am-241/Cs-137	Troxler 3450 447	Source	0/76	0/0	<MDA	<1.13 E-5 α <6.22 E-5 β	TEAMS Leak Test	FMS
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Standards: Decay Check Source Activity for current dpm values. The sources' half-life is sufficiently long enough to not significantly change the activity rate statistically, but run the calculation to ensure this is the case.
 MDA = $2.71 + 4.65 \sqrt{\text{BKGcpm}}$ Take BKGcpm SQRT multiply by 4.65 add 2.71 to find count uncertainty. This value is divided by the Eff for that energy range to convert to dpm. Convert dpm to uCi by 2.22 E6 dpm/uCi. This value must be lower than 0.005 uCi or 185 dps for leak testing and 22 dpm/cm2 for beta/gamma emitters and 2.2 dpm/cm2 for alpha emitters for area removable tests.
 Leak Testing: wipe the largest portion of the sealed source possible; DPMnet converts to Result uCi compared to MS uCi for that source
 Area Testing: standardize evaluation area to 100 square centimeters; DPMnet results are normalized to dpm/cm2 when applicable.

Proposed revision to license items 6-8:

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	Comments/Purpose or change
A. Cs-137	Sealed Source Eckert and Zeigler (Isotope Products Laboratory) Model HEG Series, Capsule Type 3000	Not to exceed 50 millicuries per source and 100 millicuries total	New line item: Teaching & Training, Will not be used on humans or animals
B. Sr-90/Y-90	Calibration Source	Not to exceed 1 microcurie per source or 10 microcuries total	New line item: Instrument calibration

This is to acknowledge the receipt of your letter application dated

6-18-14, and to inform you that the initial processing which includes an administrative review has been performed.

Amend: 45-25551-01
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** 584161.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

NRC FORM 532 (RI)
(6-96)

Sincerely,
Licensing Assistance Team Leader