

**United Defense**

1/12/2005  
RECEIVED  
REGION 1

'05 JAN 19 07:32

Licensing Assistance Team  
Division of Nuclear Materials Safety  
Us Nuclear Regulatory Commission, Region 1  
475 Allendale Rd.  
King of Prussia, PA 19406-1415

37-20684-01  
0320718  
X

Re: License 3720684-01 Amendment

Please renew and revise United Defense's license to reflect the following:

- 1) Extension of license to United Defense site located at:  
300 University Drive  
Lemont Furnace, PA. 15446

**Reason**

As United Defense has grown there is a corporate need to extend the capability to handle the alignment devices and collimator received from government vehicles returning from field operations at this additional site. All training and storage requirements in addition to all other conditions of the material license will be implemented and enforced at this Lemont Furnace site.

- 2) Add an additional Radiation Safety Officer to the radiation safety team

**Reason**

United Defense needs an additional radiation safety officer to assure compliance and radiation safety is maintained as a back up to Michael Davis.

Please feel free to contact me with any questions you might have at 717 225 8187

Regards,

*Michael Davis*  
Michael Davis

136334  
NMSC/RGN MATERIALS-0J2

NRC FORM 313  
(4-2004)  
10 CFR 30, 32, 33,  
34, 35, 36, 39, and 40

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 10/31/2005

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

03020718  
X

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.

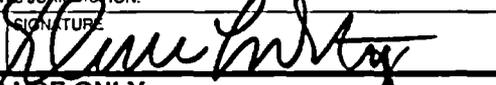
1. THIS IS AN APPLICATION FOR (Check appropriate item) <input type="checkbox"/> A. NEW LICENSE <input checked="" type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER <u>37-20684-01</u> <input checked="" type="checkbox"/> C. RENEWAL OF LICENSE NUMBER <u>37-20684-01</u>	2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code) United Defense, LP PO Box 15512 York, PA 17405-1512
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3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED 1100 Bairs Rd. York, PA 17404  300 University Drive Lemont Furnace, PA 15456	4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION Michael W. Davis  TELEPHONE NUMBER (717) 225-8187
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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.

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 <u>N/A</u>   AMOUNT ENCLOSED \$ <u>0.00</u>

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.

CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE Elmer Doty United Defense GSD, VP/General Manager	SIGNATURE 	DATE 1/11/05
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FOR NRC USE ONLY					
TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	
					136334

<b>United Defense</b>
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**Application for Material License - NRC Form 313 Supplemental Items 5-11**


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**Re: License 3720684-01**

**5) Radioactive Materials**

**Hydrogen 3 (H-3)**

- Sealed Sources (US Army model no. 10544463 or similar) 3 curies/source 300 curies total allowable for possession/transfer
- Sealed Sources (US Army model no. 10556136 or similar) 10 curies/source 2000 curies total allowable for possession/transfer

**6) Purpose for license**

- Receipt and storage of radioluminous lamps typically in optical alignment devices manufactured in accordance with US Army dwg. no. 10544462 and 10544463 (or similar), for redistribution Department of Defense facilities pursuant to terms and conditions of a specific license issued by the NRC and for transfer to foreign governments pursuant to a United States State Department license.
- Receipt and storage of radioluminous lamps typically in M1A1 collimators manufactured in accordance with US Army dwg. no. 10556135 and 10556235 (or similar), for redistribution Department of Defense facilities pursuant to terms and conditions of a specific license issued by the NRC and for transfer to foreign governments pursuant to a United States State Department license

**7) Individuals responsible for Radiation Safety Program and their training experience**

- Michael Davis- Primary  
Hands- on Experience
  - Performed field radiography in state of Texas from 1982-1985 as a Level II in accordance with state radiological safety requirements , utilizing up to 100ci of Ir <sub>192</sub> and 38 ci of Co <sub>60</sub>. ASNT Level III and UDLP Radiation Safety Officer 1987 to present.

**Classroom Study**

- Niagara Mohawk sponsored radiation safety training for entrance into Nine Mile Nuclear Power Station (3/84)
- Amersham Isotope Radiation Safety (6/88)
- RTS Technology course in radiation safety program administration

**Responsibilities**

- Ensure use of radioactive material is by or under the direct supervision of individuals specifically listed on license.
- Ensure all users are instructed in the safe use and handling of radioactive materials.
- Ensure that radioactive materials are secured against unauthorized removal
- Perform routine inspections of all facilities using or storing licensed radioactive material
- Ensure that the terms and conditions of United Defense's license are met and that all required records are maintained

## United Defense

- Thomas Mitcheltree- secondary Hands- on Experience
  - Performed field radiography in Pennsylvania as a Level II in accordance with the state radiological safety requirements utilizing  $Ir_{192}$ . (1982-85)
- Classroom Study
  - Attended Radiation Safety Aspects of Isotope Radiography though Tech Ops (8/82)
  - Radiation Safety Officer Course Applied Health Physics Inc (10/01)
- Responsibilities
  - Provides the annual safety training for United Defense Employees
  - Performs requisite radiation safety postings
  - Responsible for the collection and distribution of monthly dosimetry.
  - Presided over the resolution of a safety incident approximately 16 months ago.

### 8) Training for individuals working in or frequenting Restricted Areas

United Defense personnel receive instruction as specified in 10 CFR 19.12 before beginning duties with or in the vicinity of the tritium material (H-3). Personnel will be re-instructed whenever there is a significant change in duties , regulations, or the terms of this license. This instruction includes safe handling procedures ad emergency procedures.

### 9) Facilities and Equipment

H-3 material removed from vehicles will be stored in a secure area with only RSO-authorized access. This area, typically a caged area, will be posted with appropriate signage indicating "Caution Radioactive Material", colored yellow and magenta and exhibiting the crosshatch icon in signs commercially available indicating storage of radioactive material.

### 10) Radiation Safety Program

Incoming license material is received and checked into the secured storage area personnel trained in proper handling techniques and precautions. Any discrepancies in count or conditions are reported to the Radiation Safety Officer.

This licensed material is retained in a secured area which is posted with placards as indicated above and emergency procedures. All receipts and issues of licensed material are logged as they occur. Inventories are performed under warehouse supervision to verify correct balances. In addition the RSO performs random personal checks of this area. When materials are stored at United Defense, a physical inventory is taken to account for all sealed sources and devices possessed under this license periodically, not to exceed every six months.

**United Defense****11) Waste Management**

United Defense has never generated radioactive waste. The tritium sources are normally components of government furnished property. If not shipped with the government vehicles, United Defense would be provided with disposition instructions by the US Government Property Administrator. Physical disposition is then performed under the direct instruction and guidance of the United Defense Radiation Safety Officer. In the unlikely event of a direct sale device was involved, it would be returned to the manufacturer under instructions issued by them under the control of United Defense's RSO and Environmental Engineering department.

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

11/11/2005, and to inform you that the initial processing which includes an administrative review has been performed.

Renew 37-20684-01  
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 136334.  
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: 03620  
: Status Code: 2  
: Fee Category: 3P  
: Exp. Date: 20050228  
: Fee Comments: \_\_\_\_\_  
: Decom Fin Assur Req: N  
: ::::::::::::::::::::::::::::::::::::::

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

Applicant/Licensee: UNITED DEFENSE L.P.  
Received Date: 20050111  
Docket No: 3020718  
Control No.: 136334  
License No.: 37-20684-01  
Action Type: Renewal

2. FEE ATTACHED

Amount: \_\_\_\_\_  
Check No.: \_\_\_\_\_

3. COMMENTS

Signed *Rebecca Juarez*  
Date 11/26/2005

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 \_\_\_\_\_