

RECEIVED

SEP 30 2011

DNMS

DEPARTMENT OF THE ARMY
HEADQUARTERS, WILLIAM BEAUMONT ARMY MEDICAL CENTER
EL PASO, TEXAS 79920-5001

30 August, 2011



Handwritten initials

Health Physics Office

US Nuclear Regulatory Commission, Region IV
Nuclear Materials Licensing Section
ATTN: Ms. Rachel S. Bowder
Arlington, TX 76011-8064

Reference: Nuclear Regulatory Commission Materials License 42-05255-07, William Beaumont Army Medical Center, El Paso, Texas 79920-5001.

Dear Sir or Madam:

Request amendment of the referenced by-product materials license to remove VA Health Care Center, 5001 North Piedras Street, El Paso, Texas (surgical suites and the third floor), (paragraph 10.B) from the license. William Beaumont Army Medical Center no longer performs surgeries involving licensed material in the VA Operating Rooms. The VA Operating Rooms were used as overflow during the remodeling of the William Beaumont Army Medical Center Operating Rooms. The remodeling of the William Beaumont Army Medical Center Operating Rooms is complete and was the only purpose for which the VA was added to this NRC license. This request was approved by the Radiation Safety Committee.

Request amendment of the referenced by-product materials license and application to remove the requirement for a negative pressure room when conducting xenon ventilation studies. William Beaumont Army Medical Center has been using the negative pressure room and a xenon trap in conjunction with one another since the early 1990s. Currently, Nuclear Medicine uses a Pulmonex model BIODEx xenon trap. There is only one negative pressure room available in the Nuclear Medicine Clinic on the 12th floor of William Beaumont Army Medical Center. Removing the requirement for a negative pressure room would allow Nuclear Medicine to move the xenon trap to the 3rd floor Nuclear Medicine Clinic added by Amendment 64 and conduct xenon ventilation studies in that location. This request was approved by the Radiation Safety Committee.

Request amendment of the referenced by-product materials license and application to update language concerning the types of dosimeters used by this facility. Specifically, the Army Dosimetry Center has requested all NRC Licensees it services to submit amendments with the following language: "Army-approved National Voluntary Laboratory Accreditation Program (NVLAP)-accredited dosimetry system." The Army Dosimetry Center will be updating their equipment over the next few years and implementing Optically Stimulated Luminescence (OSL) technology to replace the Thermo-Luminescent Dosimeter (TLDs) technology. The new language is necessary to authorize a mix of the old and new technology until the update is completed.

ADAMS # _____
Template _____
Date ____/____/____ QC'd by _____

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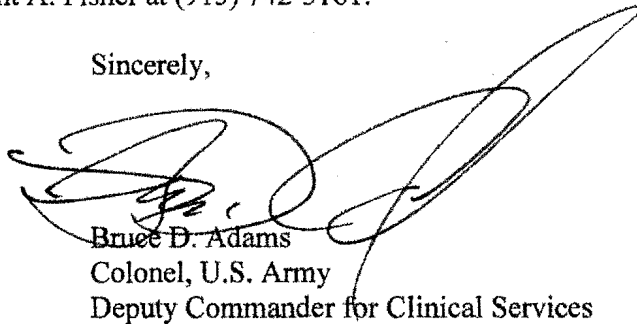
William Beaumont Army Medical Center
Materials License 42-05255-07
Amendment Request

Request amendment of the referenced by-product materials license to remove Conditions 20 and 21 relating to detector cells and foils. William Beaumont Army Medical Center does not use detector cells, nor does it have any in its possession. William Beaumont Army Medical Center does not have any GC/MS machines that use these detector cells. This request was approved by the Radiation Safety Committee.

Request amendment of the referenced by-product materials license to increase the limit of Mo-99 and Tc-99m (paragraph 6F and 6G) to 15 Ci each. We currently purchase 7.5 Ci Mo/Tc generators. However, the manufacturer sometimes sends 10 Ci generators a few days before they are needed so that they decay to 7.5 Ci. We would like to increase our Mo/Tc limit to ensure we do not inadvertently breach our possession limits due to this practice. This request was approved by the Radiation Safety Committee.

Please refer any questions to 1LT Kent A. Fisher at (915) 742-3161.

Sincerely,



Bruce D. Adams
Colonel, U.S. Army
Deputy Commander for Clinical Services

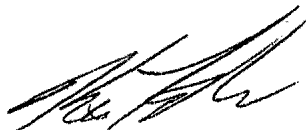
Enclosure

16 September 2011

MEMORANDUM FOR Nuclear Medicine Service Personnel

SUBJECT: Room Clearance Times for Xe-133 Spill

1. This memorandum shall be posted in areas where Xe-133 is used or stored and personnel shall be knowledgeable in the following as required by Nuclear Regulatory Commission Regulations.
2. The xenon gas trap will be used, however, in the case of an accidental release, follow these procedures.
3. Emergency procedures in case of Xe-133 spill.
 - a. Notify personnel in the room that a spill has occurred.
 - b. In rooms 3F14, 3F17, or 12002, turn on the emergency air evacuation system
 - c. In rooms 3L05 or 12006, ensure the fume hoods are running and the sliding lids are closed to the hash marks.
 - d. Immediately vacate the room.
 - e. Close the door, control access to the room, and note the time.
 - f. Immediately notify Health Physics (915-742-3161 or 915-569-3158).
4. Based upon the measured exhaust rate and the maximum activity in each room, evacuation times were calculated to determine the amount of time required after a spill to reduce the Xe-133 concentration levels in the room to public limits.
 - a. Nuc Pharmacy Evacuation Time (Room 3L05) : 11 minutes
 - b. Imaging Room Evacuation Time (Room 3F14) : 19 minutes
 - c. Imaging Room Evacuation Time (Room 3F17) : 7 minutes
 - d. Imaging Room Evacuation Time (Room 12002) : 22 minutes
 - e. Nuc Pharmacy Evacuation Time (Room 12006) : 7 minutes



KENT A. FISHER
1LT, MS
Chief, Health Physics

Nuclear Pharmacy (3L05)

V	3330	cubic feet
Q	924	room air exhaust in CFM
C	1.00E-05	uCi/ml
A	20000	uCi (max dose)
t =	11.00800422	minutes

Room 3F14

V	3697	cubic feet
Q	580	room air exhaust in CFM
C	1.00E-05	uCi/ml
A	20000	uCi (max dose)
t =	18.80322161	minutes

Room 3F17

V	4424	cubic feet
Q	1835	room air exhaust in CFM
C	1.00E-05	uCi/ml
A	20000	uCi (max dose)
t =	6.679158185	minutes

Room 12002

V	6960	cubic feet
Q	760	room air exhaust in CFM
C	1.00E-05	uCi/ml
A	20000	uCi (max dose)
t =	21.22127876	minutes

Room 12006 (Old Pharmacy)

V	3774	cubic feet
Q	1766	room air exhaust in CFM
C	1.00E-05	uCi/ml
A	20000	uCi (max dose)
t =	6.260031887	minutes

Equation:
$$-(V*28316.8466)/(Q*28316.8466)*(LN(C*((V*28316.8466)/A)))$$

-----Original Message-----

From: Harris, William S CIV USA AMC
Sent: Monday, August 15, 2011 2:58 PM
To: Komp, Greg R Mr CIV USA HQDA ASO
Subject: Life Cycle Replacement of Dosimetry System

Greg,

The Army Dosimetry Center (ADC) has obtained funding to initiate the process of replacing all ionizing radiation dosimeters that are issued to Army personnel who are occupationally exposed to ionizing radiation with badges using new optically stimulated luminescence (OSL) technology. The OSL dosimeters will replace the older thermoluminescent dosimeters (TLDs) that date back to the early 1980s. The OSL system uses the same size dosimeter and dosimeter holder as the current Panasonic UD-802 TLD dosimeter; however, the TLD elements are replaced with OSL elements.

The OSL dosimeter represents a major improvement in ionizing radiation detection for Army personnel. Improvements include the ability to re-read the OSL dosimeters multiple times, an order of magnitude improvement in the lower limit of detection, significantly shorter processing times, and much lower life cycle support costs. Because the OSL dosimeter can be re-read, field measurements can be made with a portable reader. We have used this technology to establish an Overseas Contingency Operation (OCO) in Korea and are scheduled to establish an OCO in Germany in September 2011. The portable readers (Microstars) and dosimeters will be prepositioned in Korea, Germany, Kuwait and Afghanistan. This system has already been used to monitor Army personnel during Operation Tomodachi in Japan.

Recent conversations with NRC Licensees have indicated that their licenses may specify the use of TLDs only. Although the expected full implementation of the OSL technology is still 2-3 years away, it is recommended that all NRC Licensees be notified of this change and amend their licenses accordingly. It is recommended that generic wording be used, such as an "Army-approved National Voluntary Laboratory Accreditation Program (NVLAP)-accredited dosimetry system."

Bill

William S. Harris Jr., CHP
Chief, US Army Dosimetry Center
ATTN: AMSAM-TMD-SD
Building 5417
Redstone Arsenal, AL 35898
(256) 876-1786
FAX: (256) 876-3816
email: william.harris3@us.army.mil

From/ATTN Department of Preventive
WBAMC/MCHM DPM
5005 N.Piedras Street
El Paso,TX-79920-5001

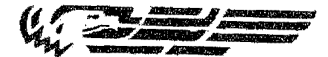
CERTIFIED MAIL



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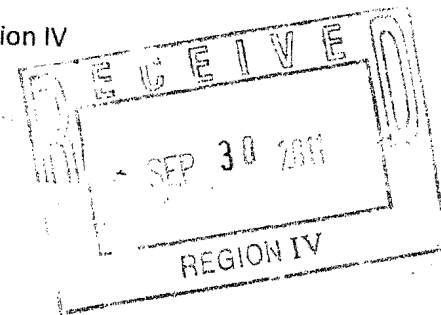
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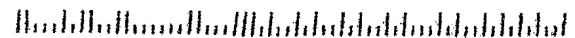
ZIP 79916 \$ 005.79⁰
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0001365643 SEP. 28. 2011.

**RETURN RECEIPT
REQUESTED**

To/US Nuclear Regulatory Commission, Region IV
Nuclear Materials Licensing Section
ATTN: Ms. Rachel S. Bowder
Arlington, TX-76011-8064



760118064



6101675

SEP 30 2011

DATE

This is to acknowledge the receipt of your letter/application dated 8/30/11, and to inform you that the initial processing, which includes an administrative review, has been performed.

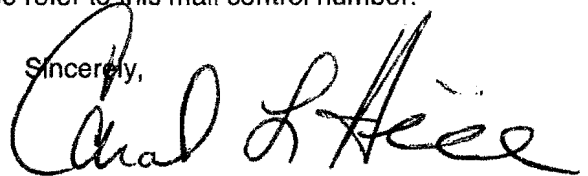
- There were no administrative omissions. Your application will be assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.
- Please provide to this office within 30 days of your receipt of this card:

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** 576106.
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: 02110
Status Code: Pending Amendment
Fee Category: 3L 7B
Exp. Date: 09/30/2013
Fee Comments:
Decom Fin Assur Req: Y

License Fee Worksheet - License Fee Transmittal

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: ARMY, DEPARTMENT OF THE
Received Date: 09/30/2011
Docket Number: 300326^
Mail Control Number: 57^108
License Number: /~~0~~-06255-07
Action Type: Amendment

2. FEE ATTACHED

Amount: _____

Check No.: _____

3. COMMENTS

Signed: Carol Heice
Date: 9/30/11

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: _____