

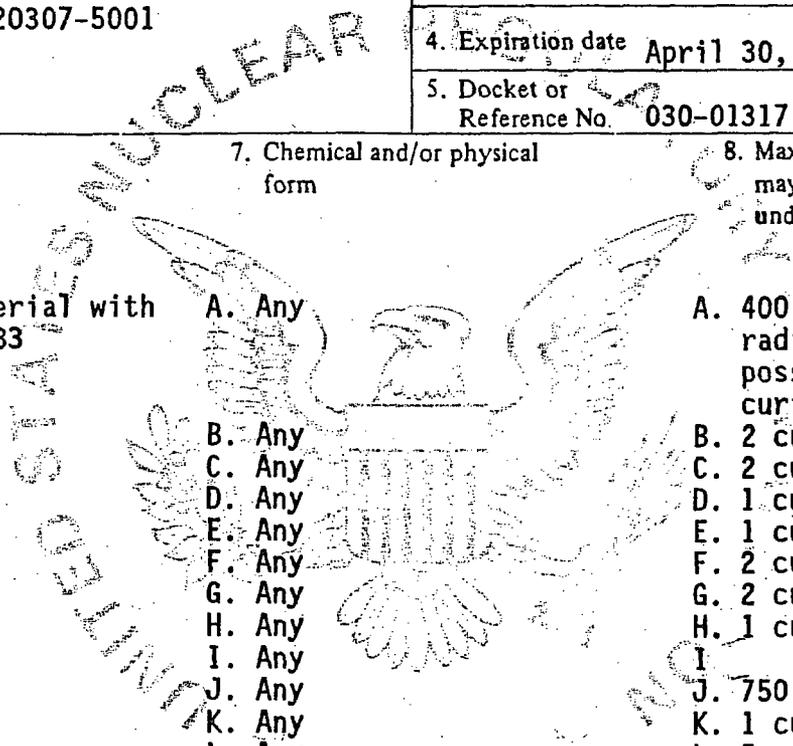
MATERIALS LICENSE

Amendment No. 61

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 39, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

|  |  |
|--|--|
| <p>Licensee</p> <p>1. Department of the Army<br/>Walter Reed Army Medical Center (WRAMC)</p> <p>2. Washington, D.C. 20307-5001</p> | <p>In accordance with letter dated April 8, 1992,</p> <p>3. License number 08-01738-02 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date April 30, 1993</p> <hr/> <p>5. Docket or Reference No. 030-01317</p> |
|--|--|

| 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 material with atomic numbers 1-83    | A. Any  | A. 400 millicuries of each radionuclide with a total possession limit of 26 curies |
| B. Iodine 131   | B. Any  | B. 2 curies  |
| C. Xenon 133  | C. Any  | C. 2 curies  |
| D. Krypton 85   | D. Any  | D. 1 curie   |
| E. Gold 198   | E. Any  | E. 1 curie   |
| F. Phosphorus 32                                      | F. Any  | F. 2 curies  |
| G. Carbon 14  | G. Any  | G. 2 curies  |
| H. Iodine 125   | H. Any  | H. 1 curie   |
| I. Iridium 192  | I. Any  | I. 1 curie   |
| J. Chromium 51  | J. Any  | J. 750 millicuries   |
| K. Sulfur 35  | K. Any  | K. 1 curie   |
| L. Hydrogen 3   | L. Any  | L. 5 curies  |
| M. Molybdenum 99/<br>Technetium 99m<br>Generators     | M. Molybdenum 99/<br>Technetium 99m<br>Generators                                     | M. 23 curies   |
| N. Technetium 99m                                     | N. Any  | N. 23 curies   |
| O. Strontium 90                                       | O. Sealed sources   | O. [ ]   |
| P. Cesium 137   | P. Sealed sources   | P. [ ]   |
| Q. Gadolinium 153                                     | Q. Sealed sources   | Q. [ ]   |
| R. Iodine 125   | R. Sealed sources<br>(Norland Inst. Co.,<br>Model 178A591A)                           | R. 400 millicuries   |
| S. Iodine 125   | S. Sealed sources<br>(3M Company seeds)   | S. 500 millicuries   |
| T. Iodine 125   | T. Sealed sources<br>(AECL Models C235 or<br>C324, or Amersham Corp.<br>Model IMC.P2) | T. 4 sources, not to exceed<br>300 millicuries each                                |



Information in this record was deleted in accordance with the Freedom of Information Act, 5 U.S.C. 552, b(7)(C).  
 2006-0238

EX 2  
 "OFFICIAL RECORD COPY" ML 10 / KK/15

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number

08-01738-02

Docket or Reference number

030-01317

Amendment No. 61

(Items 6., 7. & 8. continued)

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

U. Cesium 137  
V. Cobalt 60  
W. Americium 241  
X. Americium 241

U. Sealed sources  
V. Sealed sources  
W. Any  
X. Sealed sources

U. [ ]  
V. [ ]  
W. 100 microcuries  
X. [ ]

Y. Nickel 63  
Z. Iodine 129  
AA. Thorium  
BB. Uranium  
CC. Uranium depleted in Uranium 235  
DD. Americium 241  
EE. Cesium 137

Y. Sealed sources and foils  
Z. Sealed sources  
AA. Any  
BB. Any  
CC. Plated Metal  
DD. Sealed sources  
EE. Sealed source

Y. 1 curie  
Z. 1 curie  
AA. 5 kilograms  
BB. 50 kilograms  
CC. 400 kilograms  
DD. [ ]  
EE. [ ]

FF. Cesium 137

FF.

FF. [ ]

9. Authorized use

- A. through T. Medical research, diagnosis, and therapy; research and development as defined in 10 CFR 30.4.
- U. through Z. Research and development as defined in 10 CFR 30.4; teaching.
- AA. and BB. Teaching and laboratory research.
- CC. Shielding
- DD. Standards and reference sources.
- EE. In an instruments. ] for calibration of
- FF. Instrument calibration.

CONDITIONS

10. Location of use:

Walter Reed Army Medical Center, Washington, D. C.; WRAMC Forest Glen Section and Annex, Silver Spring, Maryland; Walter Reed Army Institute of Research Animal Holding Facility, Fort Meade, Maryland; U.S. Army Medical Laboratory, WRAMC Department of Pathology, Fort Meade, Maryland; and U.S. Army Institute of Dental Research Facility, Fort Meade, Maryland; Rickman Building, 13 Taft Court, Rockville, Maryland; Key West Research Center, 9620 Medical Center Drive, Rockville, Maryland.

11. Radiation Safety Officer: LTC Arthur G. Samiljan.

EX 2

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number

08-01738-02

Docket or Reference number

030-01317

Amendment No. 61

(Continued)

CONDITIONS

12. A. Licensed material shall be used by, or under the supervision of, individuals designated by the licensee's Radiation Safety Committee, Col. Joan T. Zajtchuk, Chairman.
- B. The use of licensed material in or on humans shall be by a physician as defined in Section 35.2 of 10 CFR Part 35.
- C. Physicians designated to use licensed material in or on humans shall meet the training criteria established in 10 CFR Part 35, Subpart J.
13. Experimental animals administered licensed materials or their products shall not be used for human consumption.
14. In lieu of using the conventional radiation caution colors (magenta or purple on yellow background) as provided in Section 20.203(a)(1), of 10 CFR Part 20, the licensee is hereby authorized to label detector cells and cell baths, containing licensed material and used in gas chromatography devices, with conspicuously etched or stamped radiation caution symbols without a color requirement.
15. Detector cells containing titanium tritide foil shall only be used in conjunction with a properly operating temperature control mechanism which prevents foil temperatures from exceeding 225 degrees Centigrade.
16. Detector cells containing scandium tritide foil shall only be used in conjunction with a properly operating temperature control mechanism which prevents foil temperatures from exceeding 325 degrees Centigrade.
17. Notwithstanding the requirements of 10 CFR 35.49 (a) and (b), the licensee may use for medical use any byproduct material or reagent kit for which the Food and Drug Administration has accepted a "Notice of Claimed Investigational Exemption for a New Drug" (IND).
18. The licensee may transport licensed material in accordance with the provisions of 10 CFR 71, "Packaging and Transportation of Radioactive Material."
19. If only a single radionuclide specified in NUREG 0767, is possessed, the possession limit is the quantity specified in Schedule of Limiting Possession Limits, NUREG-0767. If two or more radionuclides are possessed, the possession limit for each is determined as follows: the sum of the quotients of the quantities possessed divided by the quantities of those radionuclides specified in the Schedule of Limiting Possession Limits, NUREG-0767 shall not exceed unity.
20. The licensee is authorized to hold radioactive material with a physical half-life of less than 90 days for decay-in-storage before disposal in ordinary trash provided:
  - A. Radioactive waste to be disposed of in this manner shall be held for decay a minimum of 10 half-lives.

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number

08-01738-02

Docket or Reference number

030-01317

Amendment No. 61

(20. continued)

CONDITIONS

- B. Before disposal as normal waste, radioactive waste shall be surveyed to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
  - C. Generator columns shall be segregated so that they may be monitored separately to ensure decay to background levels prior to disposal.
21. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.
- A. Application dated July 18, 1979
  - B. Letter dated January 13, 1984
  - C. Letter dated May 8, 1987
  - D. Letter dated March 16, 1988
  - E. Letter dated March 28, 1988
  - F. Application dated August 5, 1988
  - G. Letter dated September 23, 1988
  - H. Letter dated July 28, 1989
  - I. Letter dated September 12, 1989
  - J. Letter dated January 19, 1990
  - K. Letter dated July 16, 1990
  - L. Letter dated March 15, 1991
  - M. Letter dated July 11, 1991
  - N. Paragraphs 4 and 5 of the letter dated April 8, 1992
  - O. Letter dated August 4, 1992

For the U.S. Nuclear Regulatory Commission

Original Signed By:  
Jenny Johansen

By

Nuclear Materials Safety Branch  
Region I  
King of Prussia, Pennsylvania 19406

Date SEP 09 1992

SEP 09 1992

License No. 08-01738-02  
Docket No. 030-01317  
Control No. 116711

Department of the Army  
Office of the Surgeon General  
ATTN: Colonel Peter H. Myers  
Radiological Hygiene Consultant  
5109 Leesburg Pike  
Falls Church, Virginia 22041

Dear Colonel Myers:

Please find enclosed an amendment to your NRC Material License.

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the Region I Material Licensing Section, (215) 337-5093, so that we can provide appropriate corrections and answers.

Please be advised that you must conduct your program involving licensed radioactive materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, please note the items in the enclosed, "Requirements for Materials Licensees."

Since serious consequences to employees and the public can result from failure to comply with NRC requirements, the NRC expects licensees to pay meticulous attention to detail and to achieve the high standard of compliance which the NRC expects of its licensees.

You will be periodically inspected by NRC. A fee may be charged for inspections in accordance with 10 CFR Part 170. Failure to conduct your program safely and in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in prompt and vigorous enforcement action against you. This could include issuance of a notice of violation, or in case of serious violations, an imposition of a civil penalty or an order suspending, modifying or revoking your license as specified in the General Policy and Procedures for NRC Enforcement Actions, 10 CFR Part 2, Appendix C.

Department of the Army

-2-

We wish you success in operating a safe and effective licensed program.

Sincerely,

Original Signed By:  
Jenny Johansen

Jenny M. Johansen, Chief  
Medical Licensing Section  
Division of Radiation Safety  
and Safeguards

Enclosures:

1. Amendment No. 61
2. Requirements for Materials Licensees
3. NRC Forms 3 and 313

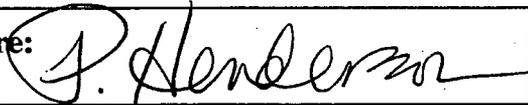
bcc:  
Radiation Safety Officer - WRAMC

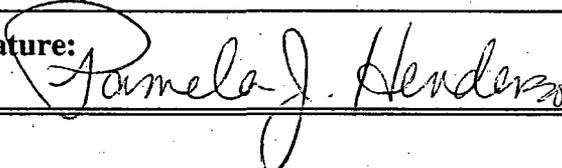
DRSS:RI   
Henderson/gcb

09/02/92

DRSS:RI  
Johansen

09/11/92 

|  |                                    |  |
|--|------------------------------------|--|
| <b>TELEPHONE CONVERSATION RECORD</b>   | <b>Date:</b> 9/4/92                | <b>Time:</b> 2:30 PM                       |
| <b>Mail Control No.:</b> 116711  | <b>License No.:</b><br>08-01738-02 | <b>Docket No.:</b><br>030-01317            |
| <b>Person Called:</b><br>David Burton  | <b>Organization:</b><br>WRAMC      | <b>Telephone Number:</b> (301)<br>427-5104 |
| <b>Person Calling:</b> Pamela J. Henderson   |                                    |  |
| <b>Subject:</b> Amendment Request  |                                    |  |
| <p><b>Summary:</b></p> <p>Licensee had requested that condition 2 of their license be amended to state a more specific address for correspondence purposes. The address they wanted on their license is their Health Physics Office which is located in Maryland. I explained that since WRAMC is in Washington, D.C., that their license would then have a different state number (Maryland) than the actual location of WRAMC. LAS Section stated that this is not feasible.</p> <p>I spoke with Cindy O'Daniell (LAS) in order to resolve the licensee's concern over receiving their NRC correspondence. She suggested that I have a sticker placed on the docket requesting that all correspondence be blind cc'd to the Health Physics Office at WRAMC. Apparently this is the case with several other licensees.</p> <p>I told the licensee that I would place a sticker on their docket which would direct reviewers to send blind cc's to the Health Physics Office at WRAMC for all future correspondence involving their docket (licensing/inspection).</p> |                                    |  |
| <b>Action Required/Taken:</b> Place sticker on docket with WRAMC Health Physics Office address.  |                                    |  |
| <b>Signature:</b>   | <b>Date:</b> 9/4/92                |  |

|  |                                    |  |
|--|------------------------------------|--|
| <b>TELEPHONE CONVERSATION RECORD</b>   | <b>Date:</b> 8/4/92                | <b>Time:</b> 10:00 AM                      |
| <b>Mail Control No.:</b> 116711  | <b>License No.:</b><br>08-01738-02 | <b>Docket No.:</b><br>030-01317            |
| <b>Person Called:</b><br>David Burton  | <b>Organization:</b><br>WRAMC      | <b>Telephone Number:</b> (301)<br>427-5104 |
| <b>Person Calling:</b> Pamela J. Henderson   |                                    |  |
| <b>Subject:</b> Amendment Request  |                                    |  |
| <b>Summary:</b>  |                                    |  |
| Asked licensee to:   |                                    |  |
| <ol style="list-style-type: none"> <li>1. Clarify that they want condition 10 of their license amended to delete two addresses of use - USAMRIID and Andrew Rader Army Clinic. This was not clear from their letter which referred to condition 5 of WRAMC authorization procedures.</li> <li>2. Clarify that they want condition 2 of their license amended to state a more specific address for correspondence purposes. Although an address change was requested, no new address was given in their letter. Asked them also to clarify that this change was requested for all correspondence (condition 2).</li> <li>3. Confirm that Nuclear Medicine will process all incoming shipment in accordance with Regulatory Guide 10.8 <u>Revision 2 - Appendix K and L procedures.</u></li> </ol> |                                    |  |
| <b>Action Required/Taken:</b> File MS-15.  |                                    |  |
| <b>Signature:</b><br>   | <b>Date:</b> 8/4/92                |  |



DEPARTMENT OF THE ARMY  
WALTER REED ARMY MEDICAL CENTER  
WASHINGTON, DC 20307-5001

MS16

K7



REPLY TO  
ATTENTION OF:

HSHL-H-HP (385-11m)

04 AUG 1992

MEMORANDUM FOR US Nuclear Regulatory Commission, Region I, Nuclear Material Section B, Attn: Ms. Pamala Henderson, Mail Control No. 116711, 475 Allendale Road, King of Prussia, PA 19406

SUBJECT: Additional information requested to amend NRC License No. 08-01738-02, Mail Control No. 116711.

1. Condition 10 (Location of use) should be modified to delete the addresses for the Andrew Rader Army Clinic, Fort Myer, Virginia and U.S. Army Medical Research Institute for Infectious Diseases, Fort Detrick, Frederick, Maryland. The Andrew Rader Clinic is a health clinic with x-ray facilities as it's only radiation hazards. There are no plans to use radioactive material at this location. The U.S. Army Medical Research Institute for Infectious Diseases has recently received their own broad scope and irradiator licenses (NRC # 19-11831-01 and 02).

2. Condition 2 should be modified to: Health Physics Office, 2681 Linden Lane, Silver Spring, Maryland. 20910. This is not a new isotope use location, it is part of the Walter Reed Army Medical Center, Forest Glen Annex. Use of this address will eliminate routing delay due to the Medical Center's distribution system.

3. The Nuclear Medicine Clinic will process all incoming isotope shipments in accordance with Regulatory Guide 10.8 revision 2, Appendix K and Appendix L.

4. If any other information is needed the point of contact is Mr. David W. Burton. (301) 427-5161

  
ARTHUR G. SAMILJAN

LTC, MS  
Chief, Health Physics Office

**FILE EXEMPT**

25 11 11 1992

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OFFICIAL RECORD COPY **ML 10**

AUG 11 1992



REPLY TO  
ATTENTION OF

DEPARTMENT OF THE ARMY  
OFFICE OF THE SURGEON GENERAL  
5109 LEESBURG PIKE  
FALLS CHURCH, VA 22041-3258

April 20, 1992



Preventive Medicine  
Consultants Division

US Nuclear Regulatory Commission  
Region I  
475 Allendale  
King of Prussia, Pennsylvania 19406

Dear Sir:

Enclosed are two copies of a request to amend Byproduct  
Material License Number 08-01738-02, Walter Reed Army Medical  
Center, Washington, DC.

Recommend approval.

Sincerely,

Peter H. Myers  
Colonel, U.S. Army  
Radiological Hygiene Consultant

Enclosure

CF: HSHB-MR-H

ITEMS HANDS  
PULLED OUT  
AND CONTROLLED  
SEPARATELY 6/9/92.

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~~116472~~

APR 24 1992

APR 13 1992

OFFICIAL RECORD COPY ML 10 copy Rec'd in LAS



DEPARTMENT OF THE ARMY  
WALTER REED ARMY MEDICAL CENTER  
WASHINGTON, D.C. 20307-5001



REPLY TO  
ATTENTION OF:  
HSHL-HP (385-11m)

8 Apr 92

MEMORANDUM THRU HQDA (SGPS-PSP-E), 5109 Leesburg Pike, Falls  
Church, VA 22041-3258

FOR US Nuclear Regulatory Commission, Region I, Nuclear Material  
Safety Section A, 475 Allendale Road, King of Prussia, PA  
19406-1415

SUBJECT: Application for Exemption to 10 CFR 35.315(a)7

1. Request that Walter Reed Army Medical Center (WRAMC), NRC License No. 08-01738-02, be granted exemption from the provisions of 10 CFR 35.315 (a) 7.
2. WRAMC averages thirty iodine therapies per year and has a dedicated room which is assigned only to iodine therapy patients. Before reassigning the room to another iodine therapy patient, Health Physics Office (HPO) personnel clean and disinfect it. The room remains locked until needed for an iodine therapy and may only be opened by HPO personnel.
3. Although ensuring a maximum removable room contamination level of 200 dpm/cm<sup>2</sup> is appropriate for a room that may be utilized by the general public, it does not seem necessary for a room that is solely used by patients that have just received 150 mCi of radioiodine and well trained radiation workers.
4. Also, Condition No.5 of the WRAMC authorization procedures has been modified to delete addresses for USAMRIID and Andrew Rader Army Clinic; to change the Health Physics Office mailing address to the recently assigned street address; and to include the Nuclear Medicine Clinic as a receipt point for radiopharmaceutical shipments. (Enclosure)
5. Nuclear Medicine has been approved by the WRAMC Radiation Control Committee to receive radiopharmaceuticals directly from local pharmacies for more timely and cost effective handling of this material. Nuclear Medicine will process all incoming shipments in accordance with Regulatory Guide 10.8 and forward inventory records to the Health Physics Office.

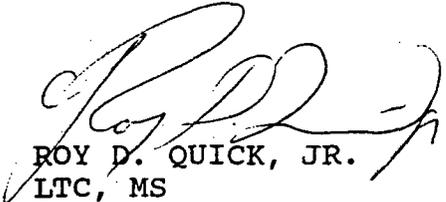
116711

HSCL-HP

SUBJECT: Application for Exemption to 10 CFR 35.315(a)7

FOR THE COMMANDER:

Encl  
as



ROY D. QUICK, JR.  
LTC, MS  
Executive Officer

Copy Furnished

Commander, US Army Health Services Command, ATTN: HSCL-P, Fort Sam  
Houston, TX 78234-6000

HEALTH PHYSICS  
WALTER REED ARMY MEDICAL CENTER  
Washington, D.C. 20307-5001

CONDITION NO. 5

FOR

RADIOACTIVE MATERIAL AUTHORIZATIONS

PROCEDURES FOR  
ORDERING, RECEIVING AND SAFELY OPENING PACKAGES  
CONTAINING RADIOACTIVE MATERIAL

1. GENERAL. Radioactive material for Walter Reed Army Medical Center (WRAMC) and tenant activities will be ordered, received and secured in accordance with US Army Regulations, Title 10, Code of Federal Regulations, and the provisions of WRAMC's Nuclear Regulatory Commission License.

2. PRINCIPAL USER'S RESPONSIBILITIES.

a. WRAMC Principal Users are responsible for ordering and receiving radioactive material in accordance with the instructions outlined below.

b. A Principal User may procure only those radioisotopes currently authorized for their use by the WRAMC Radiation Control Committee, subject to the limitations of their authorization.

c. Unless specified prior arrangements have been made with the Health Physics Officer, the maximum quantity which may be ordered at any one time is limited by the maximum activity of that radioisotope which the User is authorized to possess less the amount of activity the User will have on hand at the time the new order is received.

d. Specific prior approval of the Health Physics Office shall be required before receiving and/or transferring gifts containing radioactive material. This procedure applies to those instances where normal supply channels are not utilized. All gifts will be delivered to the Health Physics Office unless alternate arrangements are specifically approved by the Health Physics Office.

3. ORDERING PROCEDURES.

a. The Principal User shall submit a completed Purchase Request through normal supply channels for procurement of all radioactive materials.

CONDITION NO. 5 FOR RADIOACTIVE MATERIAL AUTHORIZATION  
(PROCEDURES FOR ORDERING, RECEIVING AND SAFELY OPENING PACKAGES  
CONTAINING RADIOACTIVE MATERIAL)

(b) Radiopharmaceuticals for WRAMC Nuclear  
Medicine Clinic:

Walter Reed Army Medical Center  
Nuclear Pharmacy  
Bldg 2, Room [ ] Ex 2  
Washington, D.C. 20307-5001

4. RECEIVING PROCEDURES.

a. All incoming shipments of radioactive material to the Health Physics Office will be received by the Health Physics Office during duty hours, or by the Military Police, WRAMC Forest Glen Section during non-duty hours. Shipments to Fort Meade, or the WRAMC Nuclear Medicine Clinic will be delivered to the address shown in paragraph 3. The Health Physics Office must be notified immediately of any shipment delivered to an unapproved address.

b. All incoming packages of radioactive material will be examined for damage immediately upon receipt. Any packages that appear to be wet, punctured, crushed, or otherwise damaged will be considered to be contaminated, until it can be determined that they are not.

c. Incoming radioactive material shipments must be continuously secured against unauthorized removal and the radiation levels adjacent to the secured storage area may not exceed 0.5 mR/hr.

5. SHIPMENT MONITORING & DELIVERY TO AUTHORIZED RECIPIENTS.

a. All shipments of radioactive material must be inspected to insure that the shipment does not exceed the possession limits of the Authorization under which it is ordered. Unauthorized shipments will be returned to the vendor when possible, disposed of as radioactive waste, or held by the Health Physics Office until the Principal User obtains an amended Radioactive Material Authorization allowing receipt of the material. Unauthorized shipments will not be held by Health Physics for more than ninety (90) days.

b. Shipments will be Delivered to Principal Users by the Health Physics Office after monitoring procedures have been accomplished.

Ex 2<sup>3</sup>

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