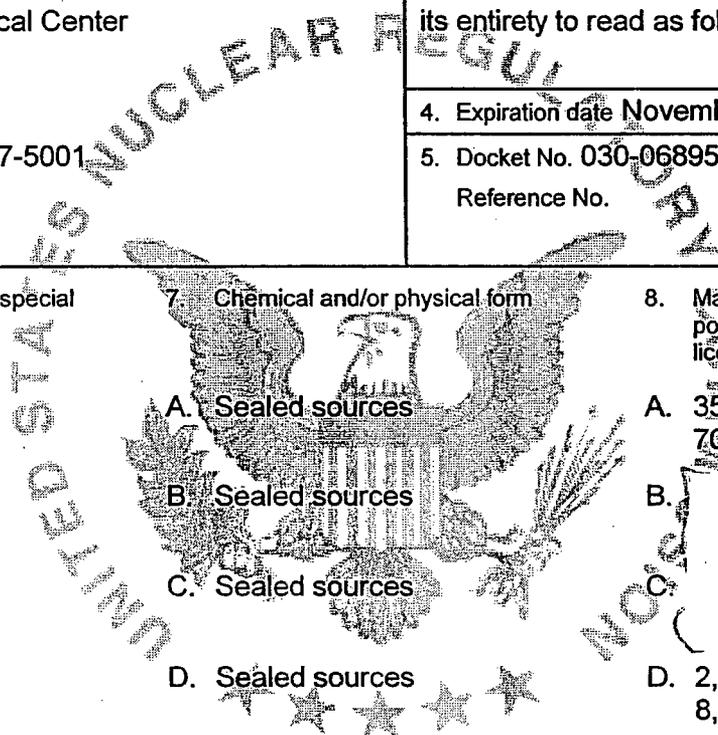


MATERIALS LICENSE

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, 36, 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 Walter Reed Army Medical Center</p> <p>2. Washington, D.C. 20307-5001</p>	<p>In accordance with letter dated October 15, 1998,</p> <p>3. License number 08-01738-03 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date November 30, 2001</p> <hr/> <p>5. Docket No. 030-06895 Reference No.</p>
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<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Cobalt 60</p> <p>B. Cobalt 60</p> <p>C. Cesium 137</p> <p>D. Cesium 137</p> <p>E. Cesium 137</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed sources</p> <p>B. Sealed sources</p> <p>C. Sealed sources</p> <p>D. Sealed sources</p> <p>E. Sealed sources</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. 3500 curies per source and 70,000 curies total</p> <p>B. [] per source and total</p> <p>C. [] per source and total</p> <p>D. 2,100 curies per source and 8,400 curies total</p> <p>E. [] per source and total</p>
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9. Authorized use:

A. In AECL Gammacell Model 220 Irradiators for the irradiation of material except explosives, flammables, or corrosives.	
B. In [] Series Irradiators for the irradiation of material except explosives, flammables or corrosives.	
C. In [] Irradiators for the irradiation of material except explosives, flammables or corrosives.	
D. In AECL Gammacell Model 40 Irradiators for the irradiation of material except explosives, flammables, or corrosives.	
E. In [] Irradiators for the irradiation of material except explosives, flammables, or corrosives.	

Information in this record was deleted in accordance with the Freedom of Information Act exemptions 2

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
08-01738-03Docket or Reference Number
030-06895

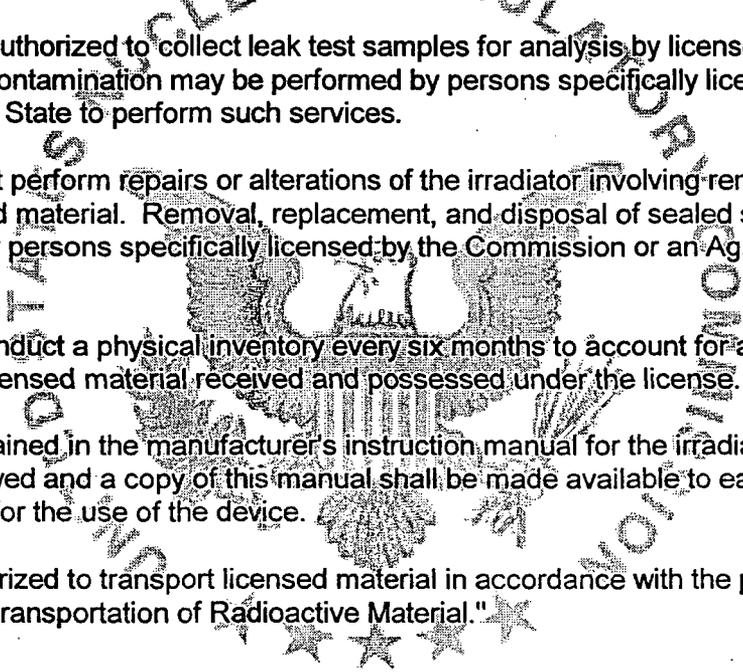
Amendment No. 24

CONDITIONS

10. Licensed material may be used only at the licensee's facilities located at Walter Reed Army Medical Center, Washington, D.C.
11. A. Licensed material shall only be used by, or under the supervision of, individuals who have received the training described in application dated March 18, 1991 and have been designated in writing by the Radiation Safety Officer.
- B. The Radiation Safety Officer for this license is LTC William B. Johnson.
12. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
13. A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three years.
- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
- E. Sealed sources and detector cells need not be leak tested if:
- (i) they contain only hydrogen-3; or
 - (ii) they contain only a radioactive gas; or
 - (iii) the half-life of the isotope is 30 days or less; or
 - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
 - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
08-01738-03Docket or Reference Number
030-06895

Amendment No. 24

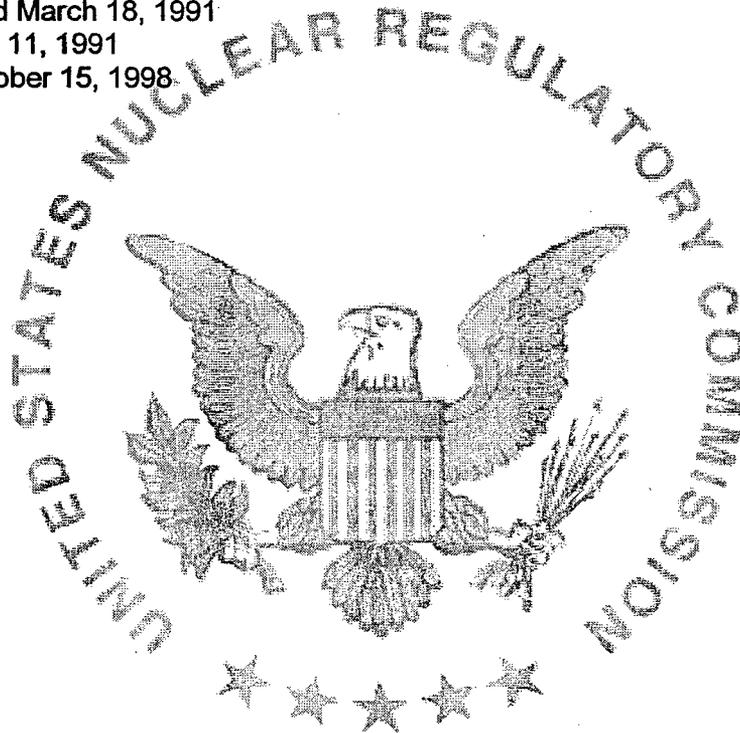
- F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source or detector cell shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within five days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source or detector cell involved, the test results, and corrective action taken.
- G. The licensee is authorized to collect leak test samples for analysis by licensee. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
14. The licensee shall not perform repairs or alterations of the irradiator involving removal of shielding or access to the licensed material. Removal, replacement, and disposal of sealed sources in the irradiator shall be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
15. The licensee shall conduct a physical inventory every six months to account for all sealed sources and devices containing licensed material received and possessed under the license.
16. The procedures contained in the manufacturer's instruction manual for the irradiator authorized by this license shall be followed and a copy of this manual shall be made available to each person using or having responsibility for the use of the device.
17. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**License Number
08-01738-03Docket or Reference Number
030-06895

Amendment No. 24

18. 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 March 18, 1991
- B. Letter dated July 11, 1991
- C. Letter dated October 15, 1998.



For the U.S. Nuclear Regulatory Commission

Date November 12, 1998

By

Original signed by Sheri Minnick

Sheri Minnick
Nuclear Materials Safety Branch 2
Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406

November 12, 1998

Docket No. 030-06895
Control No. 126198

License No. 08-01738-03

Colonel William B. Johnson
Radiation Safety Officer
Department of the Army
Walter Reed Army Medical Center
Washington, DC 20307-5001

Dear COL. Johnson:

This refers to your license amendment request. Enclosed with this letter is the amended license. Please note that as part of this amendment, in accordance with 10 CFR 30.36, effective February 15, 1996, the expiration date of your license has been extended by a period of five years. Your new expiration date is stated in Item 4 of the license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

Original signed by Sheri Minnick

Sheri Minnick
Health Physicist
Nuclear Materials Safety Branch 2
Division of Nuclear Materials Safety

Enclosures:

1. 10 CFR Part 30
2. Amendment No. 24

ML10

W. Johnson
Department of the Army

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DOCUMENT NAME: G:\DNMS\DOCWORK\LICLTRL0801738.03

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To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

OFFICE	DNMS/RI	<input checked="" type="checkbox"/> N	DNMS/RI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NAME	SMinnick <i>SM</i>						
DATE	11/12/98		11/ /98		11/ /98		11/ /98

OFFICIAL RECORD COPY

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

10-15-98, and to inform you that the initial processing which includes an administrative review has been performed. 08-01738-03

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 **126198**
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



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

030-06895

REPLY TO
ATTENTION OF

October 15, 1998

Preventive Medicine Services

SUBJECT: NRC Materials License 08-01738-03 Amendment Request to Add 2 Irradiators

Nuclear Regulatory Commission, Region I
Medical Licensing Division
475 Alendale Road
King of Prussia, Pennsylvania 19406-1415

Medical Licensing Division:

Walter Reed Army Medical Center (WRAMC), Washington, DC, uses byproduct material authorized by U.S. Nuclear Regulatory Commission (NRC) license number 08-01738-03 with an expiration date of November 30, 2001.

Request that paragraphs 6-9 of NRC License 08-01738-03 be amended to add a model cobolt-60 irradiator Registry of Radioactive Sealed Sources and Devices (SS&D) Number [redacted] The source model designation is [redacted] SS&D Number is [redacted] with a maximum loading of [redacted] of cobolt-60. Request to increase the license sealed source limit by [redacted] of cobolt-60 for this irradiator.

Request that paragraphs 6-9 of NRC License 08-01738-03 be amended to add a model irradiator Registry of Radioactive Sealed Sources and Devices (SS&D) Number [redacted] The source model designation is [redacted] SS&D Number is [redacted] with a maximum loading [redacted] of cesium-137. Request to increase the license sealed source limit by [redacted] of cesium-137 for this irradiator.

This licensee will conduct its radiation safety program in accordance with that statements, representations and procedures contained in Amendment 23, NRC License 08-01738-03, documents accompanying the license renewal application dated March 18, 1991 and letter dated July 11, 1991.

Request to amend Item #10.1 on the renewal application dated 18 March 1991 to read:

“All personnel using the irradiators will be monitored by electronic area monitoring and alarming devices. Records will be maintained in the Health Physics Office documenting that any individuals using the irradiator(s) are not likely to receive, in one year, a radiation dose in excess of 10% of the allowable limits in 10 CFR Part 20.”

Ex 2

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126108
OCT 21 1998

For additional information regarding this correspondence, please contact Colonel William B. Johnson, Chief, Health Physics Office, Preventive Medicine Services, at (202) 356-0058.

Sincerely,



William B. Johnson

Colonel, U.S. Army
Radiation Safety Officer, Walter Reed Army
Medical Center

Copy Furnished:

U.S. Army Medical Command, ATTN: MCHO-CL-W/COL Daxon, 2050 Worth Road, Fort Sam
Houston, TX 78234-6000