

Sample Licenses

Portable Gauge
(Blue Moon DOT)

Type A Broad Scope
(Chipmunk University)

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, 37, 39, 40, 70 and 71, 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.

Licensee				4. Expiration Date: August 31, 2021
1. Blue Mountain Department of Transportation				5. Docket No.: 030-99909 Reference No.:
2. 2165 Main Street Goodland, WI 53888		3. License number: 48-99999-01		
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	9. Authorized use	
A. Cesium-137	A. Sealed Sources (AEA Technology/QSA, Inc., Model CDCW556; Isotope Products Laboratories, Model HEG-137)	A. 9 millicuries per source and 18 millicuries total	A. For use in Troxler Electronic Laboratories Model 3400 Series portable gauges for measuring physical properties of materials.	
B. Americium-241/ Beryllium	B. Sealed Neutron Source (AEA Technology/QSA, Inc., Model AMNV.997; Isotope Products Laboratories, Model AM1.NO2, 3021, or 3027)	B. 44 millicuries per source and 88 millicuries total	B. For use in Troxler Electronic Laboratories Model 3400 Series portable gauges for measuring physical properties of materials.	
C. Cesium-137	C. Sealed Sources (CPN International, Inc., Model CPN-131)	C. 10 millicuries per source and 20 millicuries total	C. For use in CPN International, Inc., Model MC Series PORTAPROBE portable gauges for measuring physical properties of materials.	

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
48-99999-01

Docket or Reference Number
030-99909

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|---|---|--|--|
| 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 | 9. Authorized use |
| D. Americium-241/ Beryllium | D. Sealed Neutron Source (CPN International, Inc., Model CPN-131) | D. 50 millicuries per source and 100 millicuries total | D. For use in CPN International, Inc., Model MC Series PORTAPROBE portable gauges for measuring physical properties of materials. |
| E. Cesium-137 | E. Sealed Sources (AEA Technology/QSA, Inc., Model CDCW556; Isotope Product Laboratories, Model HEG-137) | E. 9 millicuries per source and 27 millicuries total | E. For use in Troxler Electronic Laboratories Model 4640B portable gauging devices for measuring physical properties of materials. |
| F. Cesium-137 | F. Sealed Sources (AEA Technology/QSA, Inc., Model CDC.805; Isotope Product Laboratories, Model HEG-137) | F. 11 millicuries per source and 33 millicuries total | F. For use in Humboldt Scientific, Inc. Model 5001 portable gauging devices for measuring physical properties of materials. |
| G. Americium-241/ Beryllium | G. Sealed Neutron Source (AEA Technology/QSA, Inc., Model AMNV.997; Isotope Products Laboratories, Model AM1.NO2) | G. 44 millicuries per source and 132 millicuries total | G. For use in Humboldt Scientific, Inc. Model 5001 portable gauging devices for measuring physical properties of materials. |

CONDITIONS

10. Licensed material may be used or stored only at the licensee's facilities located at:
1. 2165 Main Street, Goodland, Wisconsin
 2. 2323 North Talman, Very Goodland, Wisconsin

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Temporary job sites anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material, including areas of exclusive Federal jurisdiction within Agreement States.

If the jurisdiction status of a Federal facility within an Agreement state is unknown, the licensee should contact the federal agency controlling the job site in question to determine whether the proposed job site is an area of exclusive Federal jurisdiction. Authorization for use of radioactive materials at job sites in Agreement States not under exclusive Federal jurisdiction shall be obtained from the appropriate state regulatory agency.

11. Licensed material shall only be used by, or under the supervision and in the physical presence of, individuals who have received the training described in the application dated May 3, 2011.
12. The Radiation Safety Officer (RSO) for this license is Bobby Calvin.
13. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State. In the absence of a registration certificate, sealed sources shall be tested for leakage and/or contamination at intervals not to exceed 6 months, or at such other intervals as specified.
B. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or by an Agreement State prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested and the test results received.

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- C. Sealed sources need not be tested if they are in storage and are not being used. However, when they are removed from storage for use or transferred 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 shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- D. The leak test shall be capable of detecting the presence of 0.005 microcuries (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcuries (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region IV, 1600 East Lamar Blvd., Arlington, Texas 76011-4511, ATTN: Director, Division of Nuclear Materials Safety. The report shall specify the source involved, the test results, and corrective action taken.
- E. Tests for leakage and/or contamination shall be performed by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services. In addition, the licensee is authorized to collect leak test samples but not perform the analysis; analysis of leak test samples must be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
- F. Records of leak tests results shall be kept in units of microcuries and shall be maintained for 3 years.
14. Sealed sources containing licensed material shall not be opened or sources removed from source holders by the licensee, except as specifically authorized.
15. The licensee shall conduct a physical inventory every 6 months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory, and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.

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16. Except for maintaining labeling as required by 10 CFR Part 20 or 71, the licensee shall obtain authorization from U.S. Nuclear Regulatory Commission before making any changes in the sealed source, device, or source-device combination that would alter the description or specifications as indicated in the respective Certificates of Registration issued either by the Commission pursuant to 10 CFR 32.210 or by an Agreement State.
17. Each portable nuclear gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport, storage or when not under the direct surveillance of an authorized user.
18. Any cleaning, maintenance, or repair of the gauges that requires detaching the source or source rod from the gauge shall be performed only by the manufacturer or other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
19. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
20. A. If the licensee uses unshielded sealed sources extended more than 3 feet below the surface, the licensee shall use surface casing that extends from the lowest depth to 12 inches above the surface and other appropriate procedures to reduce the probability of the source or probe becoming lodged below the surface. If it is not feasible to extend the casing 12 inches above the surface, the licensee shall implement procedures to ensure that the cased hole is free of obstruction before making measurements.
- B. If a sealed source or a probe containing sealed sources becomes lodged below the surface and it becomes apparent that efforts to recover the sealed source or probe may not be successful, the licensee shall notify the U.S. Nuclear Regulatory Commission and submit the report required by 10 CFR 30.50(b)(2) and (c). The licensee shall not abandon the sealed source or probe without obtaining the Commission's prior written consent. Notification and reporting requirements should be made to the NRC Emergency Operations Center at 301-816-5100.

U.S. NUCLEAR REGULATORY COMMISSION

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. Chipmunk University - Treebark Campus</p> <p>2. Administration Building 666 Main Street Happylake, MI 58899</p>	<p>In accordance with letter dated October 8, 2008,</p> <p>3. License number 21-90909-09 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date: January 31, 2010</p> <hr/> <p>5. Docket No. 030-88888 Reference No.</p>
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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 between 1-83, inclusive, except as specified below:	A. Any	A. 700 millicuries of each radionuclide with a total possession limit of 10 curies
B. Hydrogen-3	B. Any	B. 6 curies
C. Cesium-137	C. Sealed source (registered pursuant to Section 32.210 of 10 CFR Part 32 or an Agreement State)	C. 60 millicuries
D. Americium-241	D. Any	D. 0.1 millicuries
E. Phosphorus-33	E. Any	E. 500 millicuries
F. Sulfur-35	F. Any	F. One curie
G. Californium-252	G. Solid	G. 75 microcuries

9. Authorized Use:

A. through G. Research and development, as defined in Section 30.4 of 10 CFR Part 30, student instruction, and instrument calibration.

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030-88888

Amendment No. 14

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at Chipmunk University, Treebark Campus, HappyLake, Michigan.
11. The Radiation Safety Officer for this license is Orville Bacherreden, M.S.
12. Licensed material in Subitem Nos. 6.A. through 6.G. shall be used by, or under the supervision of, individuals designated by the Radiation Safety Committee, Stephen Carrot, Ph.D., Chairman. The licensee shall maintain records of individuals designated as users.
13. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the limits specified in 10 CFR 30.72 which require consideration of the need for an emergency plan for responding to a release of licensed material.
14.
 - A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration, referred to in 10 CFR 32.210.
 - 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 3 months.
 - C. In the absence of a certificate from a transferor indicating that a test has been made, a sealed source or detector cell received from another person shall not be put into use until tested.
 - D. Sealed sources 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 materials; 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 transferred 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.

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- E. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.
- F. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to perform such services.
- G. Records of leak test results shall be kept in units of microcuries and shall be maintained for 3 years.
15. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory, and shall include the quantities and kinds of byproduct material, manufacturer's name and model numbers, location of the sources and/or devices, and the date of the inventory.
16. A. 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 that specified by the manufacturer and approved by NRC.
- B. When in use, detector cells containing a titanium tritide foil or a scandium tritide foil shall be vented to the outside.
17. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders or detector cells by the licensee.
18. The licensee is authorized to hold radioactive material with a physical half-life of less than or equal to 120 days for decay-in-storage before disposal in ordinary trash provided:
- A. Before disposal as ordinary trash, byproduct material shall be surveyed at the container surface with the appropriate meter set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
- B. Generator columns shall be segregated so that they may be monitored separately to ensure decay to background levels prior to disposal.
- C. A record of each disposal permitted under this License Condition shall be retained for three years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.
- D. Radioactive waste being held for decay shall not be stored for a period greater than 4 years.

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19. Experimental animals, or the products from experimental animals, that have been administered licensed materials shall not be used for human consumption.
20. This license does not authorize commercial distribution of licensed material.
21. The licensee shall not use licensed material in or on human beings except as provided otherwise by specific condition of this license.
22. The licensee shall not use licensed material in field applications where activity is released except as provided otherwise by specific condition of this license.
23. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
24. The licensee shall maintain records of information important to safe and effective decommissioning at Chipmunk University – Treebark Campus, HappyLake, Michigan, per the provisions of 10 CFR 30.35(g,) until this license is terminated by the Commission.
25. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of unsealed licensed material or readily dispersible source material to quantities less than 10⁵ times the applicable limits in Appendix C of 10 CFR Part 20, as specified in 10 CFR 30.35.
26. 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. Applications dated February 25, 1992 and July 22, 2002; and
 - B. Letters dated July 14, 1992, April 29, 2005, and **July 27, 2009**; and
 - C. Facsimiles dated May 3, 2005, and August 16, 2005.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date _____

By _____
Aaron Elvis Presley, CHP
Materials Licensing Branch
Region III

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.

Licensee	
1. Sample Medical Institution Limited	3. License number 99-02120-01
2. 1234 Main Street Anytown, Pennsylvania 02120	4. Expiration date October 31, 2012
	5. Docket No. 030-02120 Reference No.

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 permitted by 10 CFR 35.100	A. Any	A. As needed
B. Any byproduct material permitted by 10 CFR 35.200	B. Any	B. As needed
C. Any byproduct material permitted by 10 CFR 35.300	C. Any	C. 900 millicuries
D. Any byproduct material permitted by 10 CFR 35.400	D. Sealed Sources (US Atomic Models Ir-192L, Cs-137V, and I-125M)	D. 2 curies
E. Strontium-90 permitted by 10 CFR 35.400	E. Sealed Source (Isotope Products, Inc. Model BF Ti Series)	E. 140 millicuries
F. Any byproduct material permitted by 10 CFR 35.500	F. Sealed Sources (US Atomic Models I-125P and GD-153A)	F. 0.3 curie per source and 2 curies total
G. Any byproduct material permitted by 10 CFR 31.11	G. Prepackaged Kits	G. 5 millicuries
H. Strontium 90	H. Sealed Sources (Bebig Model SrO.SO3; AEA Technology Model SICW Series [SICW.1 and SICW.2])	H. 5 millicuries per source and 800 millicuries total

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| 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 |
| I. Cesium 137 | I. Sealed Source (US Atomic Model CS-137C) | I. 200 millicuries |
| J. Iridium 192 permitted by 10 CFR 35.600 | J. Sealed Sources (US Atomic Model IR-192HDR2) | J. 10 curies per source and 20 curies total |
| K. Iridium-192 permitted by 10 CFR 35.600 | K. Sealed Sources (Varian Medical Systems Model VS2000) | K. 2 sources, 1 source not to exceed 13 curies and 1 source not to exceed 8 curies |
| L. Gadolinium 153 | L. Sealed sources (DuPont Merck Pharmaceutical Model NES-8426) | L. 300 millicuries |
| M. Depleted Uranium | M. Metal | M. 300 kilograms |

9. Authorized use:

- A. Any uptake, dilution and excretion study permitted by 10 CFR 35.100.(065)
- B. Any imaging and localization study permitted by 10 CFR 35.200.(067)
- C. Any diagnostic study or therapy procedure permitted by 10 CFR 35.300.(069)
- D. Any manual brachytherapy procedure permitted by 10 CFR 35.400.(073)
- E. Strontium-90 for ophthalmic radiotherapy permitted by 10 CFR 35.400.(075)
- F. Diagnostic medical use of sealed sources permitted by 10 CFR 35.500 in compatible devices registered pursuant to 10 CFR 30.32(g).(078)
- G. In vitro studies.(081)
- H. For use in Novoste A1000 series models for intravascular brachytherapy. (**custom**)
- I. For use in a US Atomic Model CS-137SC for calibrations and checking of licensee's survey instruments.(057)
- J. One source for medical use permitted by 10 CFR 35.600, in a US Atomic Model IR-192THER remote afterloader unit. One source in its shipping container as necessary for replacement of the source in the remote afterloader unit.(076)
- K. One source for medical use permitted by 10 CFR 35.600, in a Varian-TEM Ltd. Model VariSource HDR remote afterloader unit. The source may not exceed 10 curies at the time of use. One source in its shipping container as necessary for replacement of the source in the remote afterloader unit.(077)
- L. For use in a Siemens Medical Systems Model Profile Attenuation Correction System device for patient attenuation correction during S.P.E.C.T. imaging.(082)
- M. Shielding in a linear accelerator.(083)

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10. Licensed material may be used or stored only at the licensee's facilities located at 1234 Main Street, Anytown, Pennsylvania.(001)
11. The Radiation Safety Officer for this license is Melba Physicist, M.S.(033)
12. Licensed material is only authorized for use by, or under the supervision of:(014, except C)
- A. Individuals permitted to work as an authorized user, authorized nuclear pharmacist, and/or authorized medical physicist in accordance with 10 CFR 35.13 and 35.14.
- B. The following individuals are authorized users for medical use as indicated:

Authorized Users

Material and Use

Jane Diagnostic, M.D.

35.100; 35.200; 35.300; 35.500

Thomas Group, D.O.

35.100; 35.200; 35.300, except thyroid carcinoma
(Reviewer note: includes treatment of hyperthyroidism and cardiac dysfunction, as well as whole body scans and other diagnostic uses of Iodine-131, P-32, Sr-89, and Sm-153 for parenteral administration of radionuclides with energies greater than 150 keV. Addresses use of >33 mCi for hyperthyroidism.)

Gilbert Lawrence, M.D.

35.100; 35.200; 35.500; Oral administration of sodium iodide iodine-131 for imaging and localization studies and treatment of hyperthyroidism and cardiac dysfunction
(Reviewer note: includes treatment of hyperthyroidism and cardiac dysfunction, as well as whole body scans and other diagnostic uses of Iodine-131. Addresses use of >33 mCi for hyperthyroidism)

Harry Potter, M.D.

35.100; 35.200; Oral administration of sodium iodide iodine -131
(Reviewer note: includes treatment of thyroid carcinoma, hyperthyroidism, cardiac dysfunction, whole body scans, uptakes and other diagnostic uses of Iodine-131, but no use of other therapeutic radiopharmaceuticals)

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Authorized Users

John Therapy, M.D.

Material and Use

35.300, except Iodine-131 (**Reviewer note: includes P-32, Sr-89, and Sm-153 - for parenteral administration of radiopharmaceutical with energies greater than 150 keV, but no use of Iodine-131**); 35.400; Strontium-90 for intravascular brachytherapy procedures; Iridium-192 for uses in a High Dose Rate Remote Afterloader Unit; Depleted Uranium

Norma L. Vision, M.D.

Strontium-90 for ophthalmic radiotherapy

- C. The following individuals are authorized medical physicists as indicated:

Authorized Medical Physicists

Melba Physicist, M.S.

Material and Use

Strontium-90 ophthalmic sources for physical decay calculations and calibrations; Iridium-192 in a High Dose Rate Remote Afterloader Unit for calibrations, spot-checks, and training

Cecil Source, Ph.D.

Strontium-90 in an Intravascular Brachytherapy Device for calibrations, spot-checks, and training

- D. The following individuals are authorized users for non-medical uses as indicated:

Users

James Pathology

Material and Use

In vitro studies

Cecil Source, Ph.D.

Cesium-137 for calibration of instruments

- E. Intravascular brachytherapy procedures shall be conducted under the supervision of the authorized user, who will consult with the interventional cardiologist/physician and authorized medical physicist prior to initiating treatment. The procedures shall be conducted in the physical presence of the authorized user or the authorized medical physicist.

13. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance. **(168, with part 40 and 70 references deleted)**
14. The intravascular brachytherapy afterloader device shall be inspected and serviced at intervals recommended by the manufacturer, and maintenance and repair shall be performed by the manufacturer

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or persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services. **(097-Reviewer note: review HQ latest guidance on IVB for conditions)**

15. For sealed sources not associated with 10 CFR Part 35 use, the following conditions apply: **(166)**
- A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State.
 - B. Notwithstanding Paragraph A of this Condition, sealed sources designed to primarily emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
 - C. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.
 - D. Sealed sources need not be tested if they contain only hydrogen-3; or they contain only a radioactive gas; or the half-life of the isotope is 30 days or less; or they contain not more than 100 microcuries of beta- and/or gamma-emitting material or not more than 10 microcuries of alpha-emitting material.
 - E. Sealed sources need not be tested if they are in storage and are not being used; however, when they are removed from storage for use or transferred 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 shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
 - F. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.
 - G. Tests for leakage and/or contamination, including leak test sample collection and analysis, shall be performed by the licensee or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
 - I. Records of leak test results shall be kept in units of microcuries and shall be maintained for 5 years.
16. The licensee shall conduct a physical inventory every six months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory

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and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.(164)

17. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.(163)
18. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."(146)
19. 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. This license condition applies only to those procedures that are required to be submitted in accordance with the regulations. Additionally, this license condition does not limit the licensee's ability to make changes to the radiation protection program as provided for in 10 CFR 35.26. The U.S. 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.(038)
- A. Application dated June 10, 2002
B. Letter dated September 30, 2002

For the U.S. Nuclear Regulatory Commission

Date December 4, 2002

By

Original signed by Thomas K. Thompson

Thomas K. Thompson
Nuclear Materials Safety Branch 1
Division of Nuclear Materials Safety