

MATERIALS LICENSE

Amendment No. 37

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.

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| Licensee | | In accordance with letter dated October 22, 1996 | |
| 1. General Electric Company Medical Systems | | 3. License Number 48-00337-05 is amended in its entirety to read as follows: | |
| 2. P. O. Box 414 Milwaukee, Wisconsin 53201 | | 4. Expiration Date August 31, 2001 | |
| | | 5. Docket or Reference No. 030-06709 | |
| 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. Americium-241 | A. Sealed sources (which have been registered pursuant to 10 CFR 30.32(g) or equivalent Agreement State regulations) | A. 25 sources not to exceed 10 millicuries each | |
| B. Barium-133 | B. Sealed sources (which have been registered pursuant to 10 CFR 30.32(g) or equivalent Agreement State regulations) | B. 135 sources not to exceed 3 millicuries each | |
| C. Cesium-137 | C. Sealed sources (which have been registered pursuant to 10 CFR 30.32(g) or equivalent Agreement State regulations) | C. 10 sources not to exceed 1 millicurie each | |

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6. Byproduct, source,
and/or special nuclear
material

D. Iron-55

E. Molybdenum-99

F. Technetium-99m

G. Gadolinium-153

H. Strontium-90/Yttrium-90

7. Chemical and/or physical
form

D. Sealed sources
(which have been
registered pursuant
to 10 CFR 30.32(g)
or equivalent
Agreement State
regulations)

E. Elution Generator

F. Any

G. Sealed sources
(which have been
registered pursuant
to 10 CFR 30.32(g)
or equivalent Agreement
State regulations and which
are installed in shielded
collimators)

H. Sealed source

8. Maximum amount that
licensee may possess at
any one time under this
license

D. No single source to
exceed 100
microcuries. Total
not to exceed
10 millicuries.

E. 2 curies

F. 2 curies

G. 4 sources
not to exceed
500 millicuries each

H. One source not
to exceed
15 millicuries

9. Authorized Use:

A. through F. To be used in the calibration and testing of gamma cameras, image tubes, positron emission tomography equipment, and other electronic equipment.

G. Two sources installed in collimators to be used for research and development of a device for attenuation correction on medical imaging equipment. Two sources installed in collimators for possession as necessary for replacement of sources in the attenuation correction device.

H. For storage only, incident to disposal.

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located in the Milwaukee Metropolitan area.

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11. A. Licensed material shall only be used by, or under the supervision of, individuals designated by the Radiation Safety Committee, David F. Knight, Chairperson.
- B. The Radiation Safety Officer for the activities authorized by this license is David F. Knight.
12. 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 leak test has been made within 6 months prior to the transfer, 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 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 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.
- E. The leak 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 in accordance with 10 CFR 30.50(b)(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 III, ATTN: Chief, Nuclear Materials Safety Branch, 801 Warrenville Road, Lisle, Illinois 60532-4351. The report shall specify the source involved, the test results, and corrective action taken.

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- 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.
13. Sealed sources containing licensed material shall not be opened or removed from their respective source holders by the licensee.
14. Licensed material shall not be used in or on human beings or in products distributed to the public.
15. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
16. The licensee is authorized to hold radioactive material with a physical half-life of less than 65 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.
- 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.
17. 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 February 20, 1995 (Items 1 through 4 only); and
- B. Letters dated August 8, 1996 (with attachments) and October 22, 1996.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date December 2, 1996

By

Loren J. Huston
Nuclear Materials Licensing Branch, Region III

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