

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.

<p>Licensee</p> <p>1. Siemens Medical Solutions USA, Inc.</p>	<p>In accordance with letter dated November 27, 2017.</p>	<p>4. Expiration Date: November 30, 2024</p>
<p>2. 221 Gregson Drive Cary, NC 27511</p>	<p>3. License number: 32-35165-01 is amended in its entirety to read as follows:</p>	<p>5. Docket No.: 030-38762 Reference No.:</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	9. Authorized use
A. Fluorine-18	A. Any	A. Not applicable (see Condition 10)	A. Incident to services for other persons as defined in 10 CFR 20.1003 for installation, testing, repair, source exchange, calibration services, and routine and non-routine maintenance or repair of components related to the radiological safety of diagnostic imaging equipment.
B. Gallium-67	B. Any	B. Not applicable (see Condition 10)	B. Incident to services for other persons as defined in 10 CFR 20.1003 for installation, testing, repair, source exchange, calibration services, and routine and non-routine maintenance or repair of components related to the radiological safety of diagnostic imaging equipment.

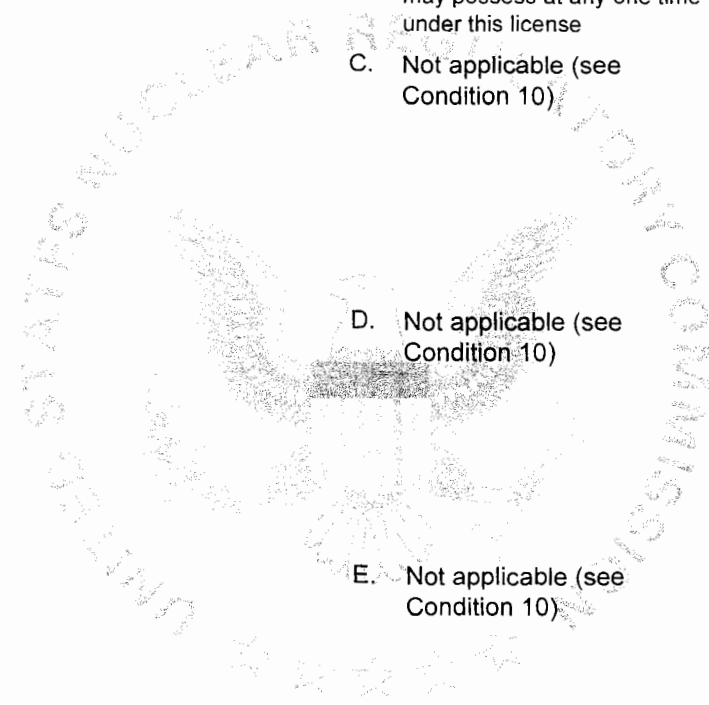
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C. Technetium-99m	C. Any	C. Not applicable (see Condition 10)	C. Incident to services for other persons as defined in 10 CFR 20.1003 for installation, testing, repair, source exchange, calibration services, and routine and non-routine maintenance or repair of components related to the radiological safety of diagnostic imaging equipment.
D. Iodine-131	D. Any	D. Not applicable (see Condition 10)	D. Incident to services for other persons as defined in 10 CFR 20.1003 for installation, testing, repair, source exchange, calibration services, and routine and non-routine maintenance or repair of components related to the radiological safety of diagnostic imaging equipment.
E. Thallium-201	E. Any	E. Not applicable (see Condition 10)	E. Incident to services for other persons as defined in 10 CFR 20.1003 for installation, testing, repair, source exchange, calibration services, and routine and non-routine maintenance or repair of components related to the radiological safety of diagnostic imaging equipment.



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F. Indium-111	F. Any	F. Not applicable (see Condition 10)	F. Incident to services for other persons as defined in 10 CFR 20.1003 for installation, testing, repair, source exchange, calibration services, and routine and non-routine maintenance or repair of components related to the radiological safety of diagnostic imaging equipment.
G. Cobalt-57	G. Sealed Sources	G. Not applicable (see Condition 10)	G. Incident to services for other persons as defined in 10 CFR 20.1003 for installation, testing, repair, source exchange, calibration services, and routine and non-routine maintenance or repair of components related to the radiological safety of diagnostic imaging equipment.
H. Germanium-68	H. Sealed Sources	H. Not applicable (see Condition 10)	H. Incident to services for other persons as defined in 10 CFR 20.1003 for installation, testing, repair, source exchange, calibration services, and routine and non-routine maintenance or repair of components related to the radiological safety of diagnostic imaging equipment.

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|---|---|--|--|
| I. Selenium-75 | I. Sealed Sources (Eckert & Ziegler Isotope Products, Model 3239, PP Series, PHI Series, GF D Series, GF M Series, CAL26aa Series, CDC.PLS, MED3505, MMS10, MMS16, POSK Series, POSN Series, SM Series, ISM Series, 3888, 3916) | I. Not applicable (see Condition 10) | I. Incident to services for other persons as defined in 10 CFR 20.1003 for installation, testing, repair, source exchange, calibration services, and routine and non-routine maintenance or repair of components related to the radiological safety of diagnostic imaging equipment. |
| J. Cesium-137 | J. Sealed Sources (Eckert & Ziegler Isotope Products, Model PHI-0089, GFS Series) | J. Not applicable (see Condition 10) | J. Incident to services for other persons as defined in 10 CFR 20.1003 for installation, testing, repair, source exchange, calibration services, and routine and non-routine maintenance or repair of components related to the radiological safety of diagnostic imaging equipment. |
| K. Gadolinium-153 | K. Sealed Sources (Eckert & Ziegler Isotope Products, Model NES8426-28, NES8426-4, HEGL-0133) | K. Not applicable (see Condition 10) | K. Incident to services for other persons as defined in 10 CFR 20.1003 for installation, testing, repair, source exchange, calibration services, and routine and non-routine maintenance or repair of components related to the radiological safety of diagnostic imaging equipment. |

CONDITIONS

10. The licensee does not take possession of the radioactive material(s) and/or source(s) while at the client's facility.

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11. Licensed material may be used only at temporary job sites of the licensee 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.
12. Licensed material shall only be used by, or under the supervision of, individuals who have received the training described in the application dated August 6, 2014, and the letter dated October 27, 2014, and have been designated in writing by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.
13. The Radiation Safety Officer (RSO) for this license is Matthew D. Daut.
14. The licensee shall not use licensed material in or on human beings.
15. The licensee shall not use licensed material in field applications where it is released except as provided otherwise by specific condition of this license.
16. 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. 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.

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- 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 by 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 185 becquerels (0.005 microcuries) of radioactive material on the test sample. If the test reveals the presence of 185 becquerels (0.005 microcuries) 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 other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- H. Records of leak test results shall be kept in units of becquerels (microcuries) and shall be maintained for 3 years.

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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. This license condition applies only to those procedures that are required to be submitted in accordance with the regulations. 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.
- A. Application dated August 6, 2014, except Appendix D and the "CX RC-US Memorandum of Understanding Regarding Service Provider Use of Radioactive Materials (ML14230A072)
 - B. Letter dated October 27, 2014 (ML14309A657)
 - C. Letter dated May 12, 2015 except Attachment 2 (ML15155B151)

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date: February 16, 2018By: *Michael Reichard*Michael Reichard
Region 1