



ARIZONA RADIATION REGULATORY AGENCY
RADIOACTIVE MATERIAL LICENSE

Pursuant to Chapter 4, Title 30, Arizona Revised Statutes, and Title 12, Chapter 1 of the Arizona Administrative Code, and in reliance on statements and representations made to the Agency by the licensee, a license is hereby issued authorizing the acquisition, reception, possession, use and transfer of the radioactive material listed in this license for the purposes and at the places specified. This license is subject to all applicable rules and Agency orders now or hereafter in effect and to the conditions specified. In accordance with renewal application dated August 28, 2008, signed by Daniel Silvaia, License Number 10-44, is hereby amended in its entirety to read as follows: **ALL CHANGES ARE IN BOLD**

LICENSEE

- | | | | |
|-------------|--|-----------------------|--------------------|
| 1. NAME: | University Medical Center Corporation
dba University Medical Center and
Board of Regents dba University of Arizona | 3. a. LICENSE NUMBER: | 10 - 44 |
| | | b. AMENDMENT NO.: | 63 |
| 2. ADDRESS: | P.O. Box 245101
Tucson, Arizona 85724 | 4. EXPIRATION DATE: | September 30, 2013 |
| | | 5. CATEGORY: | B1 - BROAD MEDICAL |

- | 6. Radioactive material
(element and mass number) | 7. Chemical or physical form | 8. Maximum quantity licensee
may possess at any time |
|---|---|---|
| A. Any radioactive material
with atomic number 3
through 83 inclusive | A. Any | A. 37 GBq (1 curie) each
nuclide |
| B. Hydrogen-3 | B. Any | B. 740 GBq (20 curies) |
| C. Phosphorus-32 | C. Source as approved in NRC
SS&D for system authorized in
9(C) | C. 2 sources, no single source to
exceed 22.2 GBq
(600 millicuries) |

This section is omitted for security reasons.

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|------------------|--|---|
| E. Cobalt-60 | E. Sealed source (U.S. Nuclear,
Type 375) S-400 | E. 2.8 GBq (76 millicuries) |
| F. Krypton-85 | F. Gaseous or dissolved in saline
solution | F. 74 GBq (2 curies) |
| G. Strontium-90 | G. Sealed sources | G. 37 GBq (1 curie) |
| H. Strontium-90 | H. Sealed Sources | H. 37 GBq (1 curie); no single
source in a source train shall
exceed 185 MBq
(5 millicuries) |
| I. Technicium-99 | I. Radiopharmaceuticals | I. 74 GBq (2 curies) |
| J. Palladium-103 | J. Seeds/Sealed sources | J. 185 GBq (5 curies) |

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K. Iodine-125	K. Seeds/Sealed sources	K. 37 GBq (1 curie)
L. Iodine-125	L. Liquid (Iotrex)	L. 185 GBq (5 curies)
M. Xenon-133	M. Gaseous or dissolved in saline solution	M. 74 GBq (2 curies)
N. Cesium-137	N. Sealed sources	N. 185 GBq (5 curies)
O. Cesium-137	O. Sealed source (ORNL Dwg #sk-193D) S-95	O. 333 GBq (9 curies)
P. Holmium-166	P. Radiopharmaceuticals	P. 370 GBq (10 curies)
Q. Iridium-192	Q. Sheathed wires or beads	Q. 74 GBq (2 curies)
R. Iridium-192	R. Source as approved in NRC SS&D for system authorized in 9(S)	R. 2 sources, no single source to exceed 370 GBq (10 curies)
S. Gold-198	S. Seeds	S. 18.5 GBq (500 millicuries)
T. Plutonium-239	T. Sealed sources	T. 37 MBq (1 millicurie)
U. Americium-241	U. Sealed sources	U. 37 GBq (1 curie)
V. Depleted Uranium	V. Metal	V. 550 Kilograms (1,200 pounds)

9. Authorized Use:

A., B., F., G., I. thru K., M., N., P. thru S., T., and U.:

Medical diagnosis, therapy and biomedical research and development.

C. For use in Guidant Corporation "Galileo" Intravascular Brachytherapy System (TX-1070-D-102-S).

This section is omitted for security reasons.

E. and O. For use in J.L. Shepard & Associates Model 78-12M Beam Calibrator

H. For use in Novoste Corporation "Beta-Cath" Intravascular Brachytherapy System A1000 Series (GA-1115-D-101-S).

L. For use in Proxima Therapeutics, Inc. GliaSite RTS System Models 1020, 1030, and 1040 (GA-1148-D-101-S).

V. Depleted Uranium used as radiation shielding.

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Pages 3 through 7 and this section omitted for security reasons.

30. Except as specifically provided otherwise by this license, the licensee shall possess and use the radioactive material described in Items 6, 7 and 8 of this license in accordance with the statements, representations and procedures contained in:
1. Letter dated January 8, 1997, signed b Melvin C. Young.
 2. Letter with attachments, dated May 25, 2000, signed by Melvin C. Young.
 3. Letter dated August 7, 2001, signed by Melvin C. Young.
 4. Letter with attachment, including the current Decommissioning Plan dated August 1, 2003.
 5. Application dated August 28, 2008, signed by Daniel Silvain.
 6. Letter with attachments dated March 18, 2009, signed by Daniel Silvain.

The most recent statements, representations, and procedures shall govern if they conflict with previously submitted documents, unless otherwise specified by a license condition; and the Agency's rules shall govern the licensee's statements in applications or letters.


AUBREY V. GODWIN, DIRECTOR

PRK:AVG:sec

DATE ISSUED:
MAY 08 2009

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