



**DEPARTMENT OF THE ENVIRONMENT
RADIOLOGICAL HEALTH PROGRAM
RADIOACTIVE MATERIAL LICENSE**

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Pursuant to the Maryland Radiation Act, 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 radioactive material listed below; and to use such radioactive material for the purpose(s) and at the place(s) designated below. The license is subject to all applicable rules, regulations and orders of the Maryland State Department of the Environment, now or hereinafter in effect and to any conditions specified below.

1. Name: Southern Maryland Hospital Center
2. Address: 7503 Surrats Road
Clinton, Maryland 20735

3. License No.: MD-33-035-01
4. Amendment No.: 47 Code (02120)
5. Expiration Date: October 31, 2007

6. Radioactive material (element and mass number)

- A. Any radioactive material listed in Section G.29 of COMAR 26.12.01.01 except iodine-125
- B. Any radioactive material listed in Section G.31 of COMAR 26.12.01.01
- C. Any radioactive material listed in Section G.35 of COMAR 26.12.01.01
- D. Strontium-90
- E. Xenon-133
- F. Cobalt-57
- G. Depleted Uranium
- H. Fluorine-18

7. Chemical and/or physical form

- A. Any radioactive material listed in Section G.29 of COMAR 26.12.01.01
- B. Any radioactive material listed in Section G.31 of COMAR 26.12.01.01
- C. Any radioactive material listed in Section G.35 of COMAR 26.12.01.01
- D. Sealed source (Nuclear Associates Models 67-850 & SIA-20)
- E. Gas
- F. Sealed Source
- G. Metal
- H. Any

8. Maximum amount of activity which licensee may possess at any one time

- A. As needed to perform diagnostic tests
- B. As needed to perform diagnostic tests
- C. 800 millicuries
- D. 300 millicuries
- E. 300 millicuries
- F. 18 millicuries per source
- G. 300 pounds
- H. 300 millicuries



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LICENSE CONDITIONS

9. Authorized Use(s):

- A. Any uptake, dilution, and excretion procedure approved in Section G.29 of COMAR 26.12.01.01.
- B. Any imaging and localization procedure approved in Section G.31 of COMAR 26.12.01.01.
- C. Any radiopharmaceutical therapy procedure approved in Section G.35 of COMAR 26.12.01.01.
- D. Treatment of superficial eye treatments.
- E. Pulmonary Imaging
- F. Reference, calibration and quality control
- G. Shielding.
- H. Imaging

10A. The authorized place of use is the licensee's address stated in Item 2. The licensee must notify the Radiological Health Program 30 days prior to vacating a permanent use address as is required by Section D.1301 of COMAR 26.12.01.01.

11A. The radiation protection program shall be under the supervision of William L. Higgins, M.D.

11B. Radioactive material shall be used by, or under the supervision of:

| Authorized User | Material and Use |
|----------------------------------|------------------|
| William L. Higgins, M.D. | 6A-6H |
| Varkey Mathew, M.D. | 6E, 6F |
| Gopalakrishnan Srinivasin, M.D. | 6E, 6F |
| Mohammed-Saeed Koolae, M.D. | 6E, 6F |
| Leon Lloyd Osbourne Dawson, M.D. | 6E, 6F, |
| Gary Staples, M.D. | 6A, 6B, 6 G, 6H |
| Mohammed Boukadoum, M.D. | 6A, 6B, 6 G, 6H |
| Dale Johnson, M.D. | 6A, 6B, 6 G, 6H |
| Bryan A. DeFranco, M.D. | 6A, 6B, 6 G, 6H |
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License Conditions

12. The licensee shall comply with all appropriate provisions of COMAR 26.12.01.01 "Regulations for Control of Ionizing Radiation."
- 13A. Each sealed source containing radioactive material, other than Hydrogen-3 with a half-life greater than thirty (30) days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six (6) months. In the absence of a certificate from a transferor indicating that a test has been made within six (6) months prior to the transfer, the sealed source shall not be put into use until tested. If there is reason to suspect that a sealed source might have been damaged, or might be leaking, it shall be tested for leakage before further use.
- 13B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of a device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate.
- 13C. Records of leak tests shall be kept in units of microcuries and maintained for inspection by the Department.
- 13D. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Department regulations. A report shall be filed within five (5) days of the test with the Administrator, Radiological Health Program, 2500 Broening Highway, Baltimore, Maryland 21224 describing the equipment involved, the test results, and the corrective action taken.
- 13E. Test for leakage and/or contamination shall be performed by or by other persons specifically authorized by the Department, the U.S. Nuclear Regulatory Commission or another Agreement State to perform such services.
- 13F. Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.
- 13G. Except for alpha sources, the periodic leak test required by this condition does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage prior to any use or transfer to another person unless they have been tested within six months prior to the date of use or transfer.



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LICENSE CONDITIONS

14. The licensee shall conduct a physical inventory every three (3) months to account for all sealed sources received and possessed under the license. The records of the inventories shall be maintained for two (2) years from the date of the inventory for inspection by the Department, and shall include the quantities and kinds of radioactive material; location of sealed sources, and the date of the inventory.
15. Sealed sources containing radioactive material shall not be opened.
16. The licensee may use the Calicheck or Lineator device for doing linearity tests of his dose calibrator provided he follows the procedures in the respective manual.
- 17A. The licensee shall perform a test to detect and quantify the activity of molybdenum-99 contamination in each elution of technetium-99m from a molybdenum-99/technetium-99m generator and in each extraction or separation of technetium-99m from molybdenum-99 not contained in a generator.
- 17B. The licensee shall not use technetium-99m for human use that contains more than 0.15 microcurie of molybdenum-99 per millicurie of technetium-99m. The limit for molybdenum-99 contamination represents a maximum value and molybdenum-99 contamination should be kept as low as reasonably achievable below this limit.
- 17C. The licensee shall establish written procedures for personnel performing tests to detect and quantify molybdenum-99 contamination. These procedures shall include all necessary calculations and steps to be taken if activities of molybdenum-99 in excess of the limit specified in Item 17B. above are detected.
- 17D. Personnel performing tests to detect and quantify molybdenum-99 contamination shall be given specific training in performing these tests prior to conducting such tests.
- (1) The licensee shall maintain for inspection by the Department records of the results of each test performed to detect and quantify molybdenum-99 contamination and records of training given to personnel performing these tests.
 - (2) Records described in Subitem (1) above shall be maintained for two (2) years following the performance of the tests and the training of personnel.
- 18 Food and beverage containers shall not be discarded in radioactive or normal trash containers in licensee's areas utilizing radioactive materials.



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LICENSE CONDITIONS

- 19A. The licensee shall not make any false statement, representation, or certification in any application, record, report, plan, or other document regarding radiation levels, tests performed or radiation safety conditions or practices. Additionally, the licensee shall not falsify, tamper with, or render inaccurate any monitoring device or method.
- 19B. Violation of any term, condition, or regulation could subject the licensee to administrative or civil penalty or criminal prosecution, as specified in Title 8, Radiation, of the Article Environment of the Annotated Code of Maryland.
20. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material authorized by this license in accordance with statements representations, and procedures contained in:
- application dated August 27, 2001, with attachments.
 - letter dated July 25, 2002, with attachments.
- COMAR 26.12.01.01 "Regulations for Control of Ionizing Radiation" shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.

FOR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

October 2, 2002

DKM DKM 10/2/02

Roland G. Fletcher
Radiological Health Program Manager III



MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Baltimore MD 21230

410-537-3000 • 1-800-633-6101

Parris N. Glendening
Governor

Kathleen Kennedy Townsend
Lt. Governor

Richard F. Pecora
Secretary

Merrilyn Zaw-Mon
Deputy Secretary

OCT 10 2002

William L. Higgins, M.D., Radiation Safety Officer
Southern Maryland Hospital Center
7503 Surrats Road
Clinton MD 20735

RE: Radioactive Material License # MD-33-035-01

Dear Dr. Higgins:

Enclosed is your renewed radioactive materials license, which is being issued in accordance with Maryland Radiation Law and Code of Maryland Regulations (COMAR) 26.12.01.01, Regulations for the Control of Ionizing Radiation. This renewal has been prepared based on your application dated August 27, 2001, and all relevant supplemental information received as of July 25, 2002. Please review it carefully to ensure it is complete and accurate.

Licenses are inspected at least once during the 5-year life of the license. Inspections are performed with greater frequency for more complex licenses. If you have any questions or need assistance on any aspect of this license renewal or any other matter regarding radioactive materials, please contact Mr. Raymond E. Manley, of the Radioactive Materials Division at (410) 537-3301. You may also reach our office toll-free (Maryland only) by dialing 1-800-633-6101 and requesting extension 3301 or via facsimile at (410) 537-3198. Finally the MDE web page, which contains information about all MDE areas of interest, can be accessed at <http://www.mde.state.md.us/arma/Programs/Radiolog/radiolog.html>.

Sincerely,

Roland G. Fletcher, Program Manager III
Radiological Health Program

RGF
RGF/REM/DKM/cc

Enclosures: License amendment renewal (47)
Code (02120)

"Together We Can Clean Up"