


Name of Policy: Sealed Sources Policy Number: 3364-106-N22 Approving Officer: Chief Operating Officer Responsible Agent: Director of Cardiovascular Services, Medical Director, Non-Invasive Cardiac Imaging Scope: University of Toledo Medical Center		 Effective date: 3/24/2025 Original effective date: 10/1990	
Key words: Radiation, Nuclear Testing, Stress Test, Inventory, Safety Procedures			
<input type="checkbox"/>	New policy proposal	<input type="checkbox"/>	Minor/technical revision of existing policy
<input type="checkbox"/>	Major revision of existing policy	<input checked="" type="checkbox"/>	Reaffirmation of existing policy

(A) Policy Statement

A Sealed Source Inventory of all sealed sources shall be kept in the Radiation Safety Office and will be checked and documented quarterly by the Chief, Cardiovascular Nuclear Medicine Technologist. The inventory must contain the following information: department; date of inventory; name of approved user(s); signature of approved user(s); name of person performing the inventory; location of sources; isotope; chemical/physical form; serial number of each source; date and activity of source at receipt; source activity at time of inventory; and amount of waste at time of inventory.

(B) Purpose of Policy

To ensure that proper safety procedures and regulations are followed to eliminate the possibility of unnecessary radiation exposure to patients, visitors, or personnel, due to sources leaking from their specific enclosures.

(C) Procedure

Procedures for Testing Leakage from Sealed Sources

*To be performed by the Radiation Safety Officer

1. Each sealed source containing radioactive material in amount greater than license exempt quantities and with a half-life of greater than 30 days, shall be tested for leakage contamination at intervals not to exceed six months.
2. The leak test shall be capable of detecting the presence of 0.005 microcuries of radioactive material.
3. The test sample will be taken from the surface of the sealed source or from the surfaces of the device in which the sealed source is permanently mounted or stored. If the test reveals an amount of surface contamination greater than 0.005 microcuries, the source shall not be used or transferred as a sealed source until it has been decontaminated, repaired, and then re-tested.
4. The Radiation Safety Officer will perform a Sealed Source Leak Test semi-annually and maintain the Sealed Source Leak Test records.
5. The Chief, Cardiovascular Nuclear Medicine Technologist will perform a Sealed Source Inventory quarterly. Sealed Source Inventory records will be maintained in the Radiation Safety Department.

<p>Approved by:</p> <p>/s/</p> <hr/> <p>Todd Korzec, RN, BSN Director, Cardiovascular Services</p> <p>1/31/2025</p> <hr/> <p>Date</p> <p>/s/</p> <hr/> <p>Samer Khouri, MD Medical Director, Non-Invasive Cardiac Imaging</p> <p>3/6/2025</p> <hr/> <p>Date</p> <p>/s/</p> <hr/> <p>Christine Stesney-Ridenour, FACHE Chief Operating Officer</p> <p>3/24/2025</p> <hr/> <p>Date</p> <p><i>Review/Revision Completed by:</i> <i>Director, Cardiovascular Services</i></p>	<p>Policies Superseded by This Policy:</p> <ul style="list-style-type: none">• <i>None</i> <p>Initial effective date: 10/1990</p> <p>Review/Revision Date:</p> <p>9/92 12/95 7/97 8/99 7/01 5/04 7/07 8/10 6/13 3/16 3/19 2/22 3/24 4/24 3/24/2025</p> <p>Next review date: 3/24/2028</p>
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