


Name of Policy: <u>Sealed Sources</u> Policy Number: 3364-106-N22 Department: Heart Station Approving Officer: Chief Operating Officer - UTMC Responsible Agent: Director Cardiovascular Services Scope: University of Toledo Medical Center Heart Station	 Effective Date: 2/1/2022 Initial Effective Date: 10/1990
<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

An inventory of all sealed sources shall be kept in the department and will be checked and documented at least semi-annually. The inventory must contain the model/serial number of each source, the identity of each source by radionuclide, its appropriate activity, the location of each source, and the name of the individual who performed the inventory.

(B) Purpose of Policy

To ensure that proper safety procedures and regulations are followed in order 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

- 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.
- The leak test shall be capable of detecting the presence of 0.005 micro Curies of radioactive material.
- 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 micro Curies, the source shall not be used or transferred as a sealed source until it has been decontaminated, repaired, and then re-tested.
- The Radiation Safety Officer will maintain permanent records of the tests.

Current Inventory of Radioactivity kept in the Hot Lab:

Type:	Isotope:	Initial Activity:	Date:
Rod	Cs137	0.445 uCi	9/21/2007
Gel #S356032-036	Cs137	122 uCi	2/9/1996
Sheet #01L2017279201	Co57	6800 uCi	11/5/2017

Approved by:	Review/Revision Date:
<u>/s/</u> <u>03/16/2022</u> Todd Korzec, RN, BSN Director Cardiovascular Services Date	9/92 12/95 7/97 8/99 7/01 5/04 7/07
<u>/s/</u> <u>03/16/2022</u> Samer J. Khouri, MD Chief of Staff Director, Non-Invasive Cardiac Imaging Date	8/10 6/13 3/16 3/19 2/22
<u>/s/</u> <u>03/16/2022</u> Christine Stesney-Ridenour, FACHE Chief Operating Officer- UTMC Date	Next Review Date: 2/1/2025
<i>Review/Revision Completed By: Todd Korzec, RN, BSN Heart Station</i>	
Policies Superseded by This Policy:	