



HEART AND VASCULAR CENTER

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TO: FARRAH GASKINS FROM: RON INSCOE

FAX: 610 337 5269 PAGES PLUS COVER: 3

PHONE: 610 337 5143 DATE: 2.23.07

RE: 139-979

URGENT FOR REVIEW PLEASE COMMENT PLEASE REPLY PLEASE RECYCLE

*COMMENTS:

I have included ^{small} Sealed Leak Test performed on:
 2.2.07 (After move)
 8.4.06 (Before move)

Please contact me @ 276.238.3318 if more information is needed.

Thanks,
 Ron

139979
 NHC/RONI MATERIALS-002



BT Heart and Vascular Center
Galax, VA

Sources tested on 2/2/07		Background Count	1312 cpm			
Isotope	Serial Number	Calibratin Date	Calibration Act	Gross Count (cpm)	Net Count (cpm)	Removable Activity (μCi)
Cs-137	16419	3/1/2002	94.3 nCi	1300	*	*
Cs-137	16681	3/1/2002	192.8 μCi	1671	359	5.6×10^{-4}
Co-57	BM06567-038-24	3/29/2006	5.2 mCi	1308	*	*
Co-57	BM01101949	11/16/2005	10 mCi	1603	291	4.5×10^{-4}

All sources have removable activity of less than $5 \times 10^{-3} \mu\text{Ci}$, and thus all pass.

Note: The well counter was calibrated on 2/2/07. The minimum detectable activity with this counter is $1.7 \times 10^{-4} \mu\text{Ci}$

Judi H. K.

9/22/06 and needs to be recalibrated on 9/22/07. It was labeled with the check source information (6.0 mR/h) and read 6.5 mR/h on 11/3/06.

4. Sealed Source Leak Test

The laboratory currently has 4 sources as listed below under the inventory section. These sources were leak tested on 8/4/06. The maximum removable activity measured in these tests was 1.2×10^{-4} μ Ci, far less than that required 5×10^{-3} μ Ci, so the sources easily passed these tests. The sources need to be tested again by 2/4/07.

5. Sealed Source Inventory

The 4 sealed sources currently onsite are

<u>Source</u>	<u>Cal Activity</u>	<u>Cal Date</u>	<u>Serial Number</u>
Co-57 reference source	5.2 mCi	3/29/06	SN:BM06-57
Cs-137 reference source	192.8 μ Ci	3/1/02	SN:16681
Cs-137 standard source	0.0943 μ Ci	3/1/02	SN:16419
Co-57 sheet source	10 mCi	11/16/05	SN:BM01-10

All sources were inventoried 11/3/06. All sources are located in the hot lab. These sources need to be re-inventoried before on 2/3/07.

6. Patient Dose Log

Every patient injected with a radiopharmaceutical was logged with the patient's name, the assayed dose, the date and the time of injection. The records for 8/5/06 to 11/3/06 were reviewed and no deficiencies were found.

7. Radioactive Shipment Log

The radioactive shipment log was reviewed for accuracy for 8/5/06 to 11/3/06. All shipments during this period were appropriately logged and received.

8. Area Survey

Radioactive materials have been used in 3 rooms that are referred to as the hot lab, the imaging room and the treadmill room. These rooms were monitored with a survey meter at the end of each day that radioactivity was handled. They are not monitored on days when no patients are