



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 <sup>SMILE</sup> Sealed <sup>^</sup>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

KHCS/RGN MATERIALS-002

BT Heart and Vascular Center  
Galax, VA

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

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  $1.7 \times 10^{-4} \mu\text{Ci}$

*Jodi 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  $1.2 \times 10^{-4} \mu\text{Ci}$ , far less than that required  $5 \times 10^{-3} \mu\text{Ci}$ , 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

Source	Cal Activity	Cal Date	Serial Number
Co-57 reference source	5.2 mCi	3/29/06	SN:BM06-57
Cs-137 reference source	192.8 $\mu\text{Ci}$	3/1/02	SN:16681
Cs-137 standard source	0.0943 $\mu\text{Ci}$	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