



Cardinal Health
Medical & Health Physics Services
9668 Marion Ridge
Kansas City, MO 64137
816.965.0330 tel
816.966.2040 fax

www.cardinal.com

January 8, 2008

Materials Licensing Section
U.S. Nuclear Regulatory Commission, Region III
2443 Warrenville Road, Ste. 210
Lisle, IL 60532-4352

To Whom It May Concern:

This correspondence is in regard to the closing of a nuclear cardiology clinic. The facilities Radioactive Materials License number is #24-32492-01 (Cardiology and Critical Care Consultants; 3915 Watson, Suite 103; St. Louis, MO 63109).

1. In accordance with 10 CFR 20 Subpart E, the facility was decommissioned. Please see the attached documents.
2. There were three radioactive sealed sources identified at this site:

| | Nuclide | Type | Serial Number | Activity | Location |
|----|----------------|-------------|----------------------|-----------------|-----------------|
| a. | Co-57 | Flood | BM-02100358 | 1.95 mCi | Hot Lab |
| b. | Cs-137 | E-Vial | 1014-57-4 | 199.5 μ Ci | Hot Lab |
| c. | Cs-137 | Spot | 345 | 0.92 μ Ci | Hot Lab |

Please see the attached Final Sealed Source Inventory.

3. The Co-57 flood source and the Cs-137 vial source were leak tested to ensure the removable activity was less than 0.005 μ Ci. **Please see the attached Final Certificate of Leak Test.**
4. The Co-57 flood source, Cs-137 vial source and Cs-137 spot source were transferred to Cardinal Health 414, Inc. (Radioactive Materials License #01-59-01). They were transferred in a D.O.T. approved shipping container. **Please see the attached Shipping Papers and the Sealed Source Transfer Statements.**

RECEIVED JAN 17 2008

5. The Co-57 flood source and Cs-137 e-vial were returned to the manufacturer for disposal.
Please see the attached Return Authorization and Verification Receipt.
6. There was a box of short-life waste in the waste storage container. This waste was stored on 12-03-07. The container was monitored with the GM survey meter on 12-21-07 and found to be at background. The waste was placed into the Stericycle waste box for disposal.
7. When the decommissioning wipe test and surveys verified that there was no removable contamination in excess of 200 dpm/cm², the following final steps of the decommissioning were completed:
 - a. All "Caution: Radioactive Materials" signs were removed from the doors, I-Block and waste storage containers.
 - b. The NRC-"Notice to Employees" were removed.
 - c. The Emergency Procedures were removed.
 - d. All Radiation Safety Policies were removed.
 - e. All biohazard labels were removed.
 - f. All records pertaining to this Radioactive Materials license were placed in a manual for future reference.

Your attention to this matter is greatly appreciated.

Sincerely,



Marcia R. West
Regional Health Physicist
Cardinal Health Medical & Health Physics

(9-2007)
10 CFR 30.36(j)(1), 40.42(j)(1),
70.38(j)(1); and 72.54(k)(5)(1)(1)

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NE08-10202, (3150-0028), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

CERTIFICATE OF DISPOSITION OF MATERIALS

LICENSEE NAME AND ADDRESS

Cardiology & Critical Care Consultants
3915 Watson Street, Ste. 103 ; St. Louis, MO 63109

LICENSE NUMBER

24-32492-01

DOCKET NUMBER

030-36505

LICENSE EXPIRATION DATE

02/28/2014

A. LICENSE STATUS (Check the appropriate box)

- This license has expired. This license has not yet expired; please terminate it.

B. DISPOSAL OF RADIOACTIVE MATERIAL

(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)

The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:

- 1. No radioactive materials have ever been procured or possessed by the licensee under this license.
- 2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner:
 - a. Transfer of radioactive materials to the licensee listed below:
Cardinal Health, Inc.; 9668 Marion Ridge; Kansas City, MO 64137
 - b. Disposal of radioactive materials:
 - 1. Directly by the licensee:
 - 2. By licensed disposal site:
 - 3. By waste contractor:
 - c. All radioactive materials have been removed such that any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.

C. SURVEYS PERFORMED AND REPORTED

- 1. A radiation survey was conducted by the licensee. The survey confirms:
 - a. the absence of licensed radioactive materials
 - b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.
- 2. A copy of the radiation survey results:
 - a. is attached; or b. is not attached (Provide explanation); or c. was forwarded to NRC on: _____ Date
- 3. A radiation survey is not required as only sealed sources were ever possessed under this license, and
 - a. The results of the latest leak test are attached; and/or
 - b. No leaking sources have ever been identified.

The person to be contacted regarding the information provided on this form:

NAME: **Tina Kraus** TITLE: **Practice Manager** TELEPHONE (Include Area Code): **(314) 781-8082** E-MAIL ADDRESS: _____

Mail all future correspondence regarding this license to:

Tina Kraus; Cardiology & Critical Care Consultants; 3915 Watson St., Ste. 103; St. Louis, MO 63109

C. CERTIFYING OFFICIAL

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE

Dr. Basim Mikhail, RSO

SIGNATURE

B. Mikhail

DATE

12-21-07

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.



Cardinal Health Medical & Health Physics
9668 Marion Ridge
Kansas City, Missouri 64137
Tel 816.965.0330
Fax 816.966.2040

Section 11

Form 117A

**FINAL
CERTIFICATE OF LEAK TEST**

DATE: 12-21-2007

LICENSEE: Cardiology & Critical Care Consultants; St. Louis, MO

| NUCLIDE | TYPE | SERIAL # | ACTIVITY | RESULTS |
|-----------|-------|-------------|----------------|------------------|
| 1. Co-57 | Flood | BM-02100358 | 1.95 mCi | < 0.005 μ Ci |
| 2. Cs-137 | Vial | 1014-57-4 | 199.5 μ Ci | < 0.005 μ Ci |

REMARKS: The samples taken from each sealed source contained less than 0.005 microcuries of radioactive material. Each source meets the regulatory requirements for leaking testing and may remain in service until the next scheduled testing.

NOTE: The Co-57 flood source serial # BM-02100358, the Cs-137 vial serial # 1014-57-4, and the Cs-137 spot serial number 345 were transferred to Cardinal Health, 414 Inc. Ram License # 04-26507-01MD. Please see the attached return authorization shipping papers, and transfer statements.

PERFORMED BY:

For: CARDINAL HEALTH 414, MEDICAL & HEALTH PHYSICS
State of Nebraska Registry Number: 50

R.S.O.:

21 Dec 2007 14:17

Cardinal Medical & Health Physics

Page #1

Protocol #: 8

DECOMMISSIONING LEAK

User : KM

Tech ID: KM
 CARDIOLOGY & CRITICAL CARE COMS.; ST. LOUIS, MO
 Count Time(minutes): 1.00
 Assay Type: CPM
 Background Subtract : 1PA Bkg
 Outlier: 5.0 FLAG
 Dilution Operator : \$
 XSpillup: 0.00
 XSpilldown: 0.00
 Screening: OFF

| | Window A | | Window B | | Window C | |
|-------------------|----------|--------------|----------|---------------|----------|---------------|
| Nuclide: | Co-57 | 75 - 165 keV | MAN | 562 - 762 keV | MAN | 15 - 2000 keV |
| Bkg: | 60.3 | | 69.9 | | 470 | |
| Sigma: | 0.00 | | 0.00 | | 0.00 | |
| LCR: | 0 | | 0 | | 0 | |
| Half Life(hours): | 0.00 | | 0.00 | | | |
| Multiplier: | 2.0000 | | | | | |
| XCV Flag Limit: | 0.00 | | 0.00 | | | |

| S# | TIME | A:CPM | B:CPM | C:CPM | CCPM | PAT/ID |
|----|------|-------|-------|-------|------|--------------------------|
| 1 | 1.00 | 2 | 2 | 0 | 3 | BACKGROUND |
| 2 | 1.00 | 0 | 0 | 0 | 0 | CO-57 FLOGD #BM-02100358 |
| 3 | 1.00 | 0 | 0 | 7 | 0 | CS-137 VIAL #1014-57-4 |

| S# | TIME | CPMA | DPM1 | MDA at 95% CL: |
|----|------|------|------|---------------------------|
| 1 | 1.00 | 2 | | |
| 2 | 1.00 | 0 | 0 | 9.3 cpm above background. |
| 3 | 1.00 | 0 | 0 | |



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Section 7

Form 117B

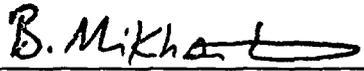
**FINAL
SEALED SOURCE INVENTORY**

DATE: 12-21-2007

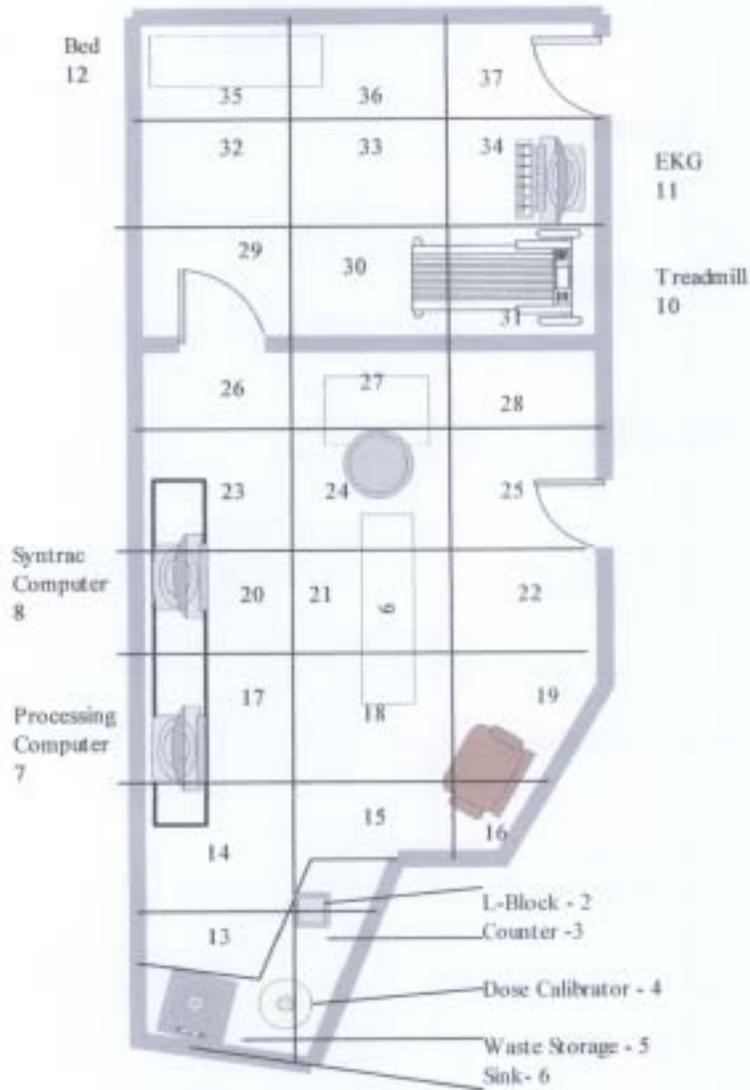
LICENSEE: Cardiology & Critical Care Consultants; St. Louis, MO.

| | NUCLIDE | TYPE | SERIAL # | CURRENT ACTIVITY | LOCATION |
|----|----------------|-------------|-----------------|-----------------------------|-----------------|
| 1. | Co-57 | Flood | BM-02100358 | 1.95 mCi | Hot Lab |
| 2. | Cs-137 | Vial | 1014-57-4 | 199.5 μ Ci | Hot Lab |
| 3. | Cs-137 | Spot | 345 | 0.92 μ Ci | Survey meter |

PERFORMED BY: 
FOR: CARDINAL HEALTH 414, MEDICAL & HEALTH PHYSICS
STATE OF NEBRASKA REGISTRY NUMBER: 50

R.S.O.: 

Decommissioning
 Cardiology & Critical Care Consultants
 12-21-2007





Cardinal Health Medical & Health Physics
9668 Marion Ridge
Kansas City, Missouri 64137
Tel 816.965.0330
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CLOSE-OUT AREA SURVEYS

DATE: 12-21-2007
LICENSEE: Cardiology & Critical Care Consultants; St. Louis, MO
INSTRUMENT: Ludlum Model 9 SN: 169637 Calibration Date: 4-28-2007
LOCATION: Imaging Room, Hot Lab, and Stress Lab

| | <u>Location</u> | <u>Results</u> |
|-----|---------------------|----------------|
| 1. | Background | 9-12 µR |
| 2. | L-Block | 9-12 µR |
| 3. | Counter | 9-12 µR |
| 4. | Dose Calibrator | 9-12 µR |
| 5. | Waste Storage | 9-12 µR |
| 6. | Sink | 9-12 µR |
| 7. | Processing Computer | 9-12 µR |
| 8. | Syntrac Computer | 9-12 µR |
| 9. | Camera Bed | 9-12 µR |
| 10. | Treadmill | 9-12 µR |
| 11. | EKG | 9-12 µR |
| 12. | Bed | 9-12 µR |
| 13. | Floor | 9-12 µR |
| 14. | Floor | 9-12 µR |
| 15. | Floor | 9-12 µR |
| 16. | Floor | 9-12 µR |
| 17. | Floor | 9-12 µR |
| 18. | Floor | 9-12 µR |
| 19. | Floor | 9-12 µR |
| 20. | Floor | 9-12 µR |
| 21. | Floor | 9-12 µR |
| 22. | Floor | 9-12 µR |
| 23. | Floor | 9-12 µR |
| 24. | Floor | 9-12 µR |
| 25. | Floor | 9-12 µR |
| 26. | Floor | 9-12 µR |
| 27. | Floor | 9-12 µR |
| 28. | Floor | 9-12 µR |
| 29. | Floor | 9-12 µR |
| 30. | Floor | 9-12 µR |
| 31. | Floor | 9-12 µR |
| 32. | Floor | 9-12 µR |
| 33. | Floor | 9-12 µR |
| 34. | Floor | 9-12 µR |
| 35. | Floor | 9-12 µR |
| 36. | Floor | 9-12 µR |
| 37. | Floor | 9-12 µR |

REMARKS: The above close-out area surveys were acquired of the assigned areas with a micro R meter. None of the areas exceeded the room background of 9-12 µR.

PERFORMED BY: 
For: Cardinal Health 414, Inc. Medical & Health Physics
Nebraska Registry #50



Cardinal Health Medical & Health Physics
9668 Marion Ridge
Kansas City, Missouri 64137
Tel 816.965.0330
Fax 816.966.2040

CLOSE-OUT WIPE TESTS

DATE: 12-21-2007
LICENSEE: Cardiology & Critical Care Consultants; St. Louis, MO
INSTRUMENT: Cobra II Auto Gamma MCA
LOCATION: Imaging Room, Hot Lab, and Stress Lab

| | <u>Location</u> | <u>Results</u> |
|-----|---------------------|------------------------------|
| 1. | Background | 0 CPM (110-170 KEV) |
| 2. | L-Block | <200 dpm/100 cm ² |
| 3. | Counter | <200 dpm/100 cm ² |
| 4. | Dose Calibrator | <200 dpm/100 cm ² |
| 5. | Waste Storage | <200 dpm/100 cm ² |
| 6. | Sink | <200 dpm/100 cm ² |
| 7. | Processing Computer | <200 dpm/100 cm ² |
| 8. | Syntrac Computer | <200 dpm/100 cm ² |
| 9. | Camera Bed | <200 dpm/100 cm ² |
| 10. | Treadmill | <200 dpm/100 cm ² |
| 11. | EKG | <200 dpm/100 cm ² |
| 12. | Bed | <200 dpm/100 cm ² |
| 13. | Floor | <200 dpm/100 cm ² |
| 14. | Floor | <200 dpm/100 cm ² |
| 15. | Floor | <200 dpm/100 cm ² |
| 16. | Floor | <200 dpm/100 cm ² |
| 17. | Floor | <200 dpm/100 cm ² |
| 18. | Floor | <200 dpm/100 cm ² |
| 19. | Floor | <200 dpm/100 cm ² |
| 20. | Floor | <200 dpm/100 cm ² |
| 21. | Floor | <200 dpm/100 cm ² |
| 22. | Floor | <200 dpm/100 cm ² |
| 23. | Floor | <200 dpm/100 cm ² |
| 24. | Floor | <200 dpm/100 cm ² |
| 25. | Floor | <200 dpm/100 cm ² |
| 26. | Floor | <200 dpm/100 cm ² |
| 27. | Floor | <200 dpm/100 cm ² |
| 28. | Floor | <200 dpm/100 cm ² |
| 29. | Floor | <200 dpm/100 cm ² |
| 30. | Floor | <200 dpm/100 cm ² |
| 31. | Floor | <200 dpm/100 cm ² |
| 32. | Floor | <200 dpm/100 cm ² |
| 33. | Floor | <200 dpm/100 cm ² |
| 34. | Floor | <200 dpm/100 cm ² |
| 35. | Floor | <200 dpm/100 cm ² |
| 36. | Floor | <200 dpm/100 cm ² |
| 37. | Floor | <200 dpm/100 cm ² |

REMARKS: The above close-out wipe tests were acquired of the assigned areas. The sample areas consisted of a contiguous wipe from a 3' X 3' area or approximately 8361 cm².

PERFORMED BY: 
For: Cardinal Health 414, Inc. Medical & Health Physics
Nebraska Registry #50

Protocol #: 8

LEAK TEST

User : I

Tech ID: DK
 CARDIOLOGY & CRITICAL CARE CONS. ST. LOUIS, MO.
 Count Time(minutes): 1.00
 Assay Type: CPM
 Background Subtract : IPA Bkg
 Outlier: 5.0 FLAG
 Dilution Operator : *
 %Spillup: 0.00
 %Spilldown: 0.00
 Screening: OFF

| | Window A | | Window B | | Window C | |
|-------------------|----------|--------------|----------|---------------|----------|---------------|
| Nuclide: | Co-57 | 75 - 165 keV | MAN | 562 - 762 keV | MAN | 15 - 2000 keV |
| Bkg: | 58.0 | | 68.6 | | 460 | |
| Sigma: | 0.00 | | 0.00 | | 0.00 | |
| LCR: | 0 | | 0 | | 0 | |
| Half Life(hours): | 0.00 | | 0.00 | | | |
| Multiplier: | 2.0000 | | | | | |
| XCV Flag Limit: | 0.00 | | 0.00 | | | |

| S# | TIME | A:CPM | B:CPM | C:CPM | CCPM | PAT/ID |
|----|------|-------|-------|-------|------|-------------------------|
| 1 | 1.00 | 0 | 9 | 0 | 0 | BACKGROUND |
| 2 | 1.00 | 6 | 3 | 26 | 12 | L-BLOCK |
| 3 | 1.00 | 0 | 0 | 0 | 0 | COUNTER TOP |
| 4 | 1.00 | 0 | 0 | 0 | 0 | DOSE CALIBRATOR |
| 5 | 1.00 | 0 | 0 | 14 | 0 | WASTE STORAGE CONTAINER |
| 6 | 1.00 | 0 | 0 | 0 | 0 | SINK |
| 7 | 1.00 | 0 | 5 | 0 | 0 | COMPUTER TERMINAL |
| 8 | 1.00 | 4 | 0 | 30 | 8 | SYNTRAC COMPUTER |
| 9 | 1.00 | 0 | 0 | 0 | 0 | GAMMA CAMERA TABLE |
| 10 | 1.00 | 0 | 1 | 0 | 0 | TREADMILL |
| 11 | 1.00 | 8 | 5 | 15 | 16 | EKG MACHINE |
| 12 | 1.00 | 2 | 0 | 0 | 4 | PHARM STRESS BED |
| 13 | 1.00 | 0 | 9 | 0 | 0 | FLOOR |
| 14 | 1.00 | 3 | 0 | 0 | 6 | FLOOR |
| 15 | 1.00 | 5 | 0 | 0 | 10 | FLOOR |
| 16 | 1.00 | 5 | 2 | 1 | 10 | FLOOR |
| 17 | 1.00 | 5 | 18 | 0 | 10 | FLOOR |
| 18 | 1.00 | 0 | 6 | 0 | 0 | FLOOR |
| 19 | 1.00 | 0 | 0 | 0 | 0 | FLOOR |
| 20 | 1.00 | 8 | 0 | 0 | 16 | FLOOR |
| 21 | 1.00 | 11 | 9 | 27 | 22 | FLOOR |
| 22 | 1.00 | 0 | 0 | 5 | 0 | FLOOR |
| 23 | 1.00 | 0 | 0 | 0 | 0 | FLOOR |
| 24 | 1.00 | 7 | 3 | 0 | 14 | FLOOR |
| 25 | 1.00 | 0 | 1 | 34 | 0 | FLOOR |
| 26 | 1.00 | 0 | 0 | 0 | 0 | FLOOR |
| 27 | 1.00 | 10 | 0 | 7 | 20 | FLOOR |
| 28 | 1.00 | 0 | 9 | 12 | 0 | FLOOR |
| 29 | 1.00 | 0 | 0 | 0 | 0 | FLOOR |
| 30 | 1.00 | 1 | 0 | 5 | 2 | FLOOR |
| 31 | 1.00 | 5 | 0 | 0 | 10 | FLOOR |

Protocol #: 8

LEAK TEST

User : 1

| S# | TIME | A:CPM | B:CPM | C:CPM | CCPM | PAT/ID |
|----|------|-------|-------|-------|------|--------|
| 32 | 1.00 | 0 | 0 | 0 | 0 | FLOOR |
| 33 | 1.00 | 0 | 10 | 0 | 0 | FLOOR |
| 34 | 1.00 | 0 | 13 | 0 | 0 | FLOOR |
| 35 | 1.00 | 0 | 6 | 0 | 0 | FLOOR |
| 36 | 1.00 | 0 | 8 | 4 | 0 | FLOOR |
| 37 | 1.00 | 0 | 0 | 0 | 0 | FLOOR |

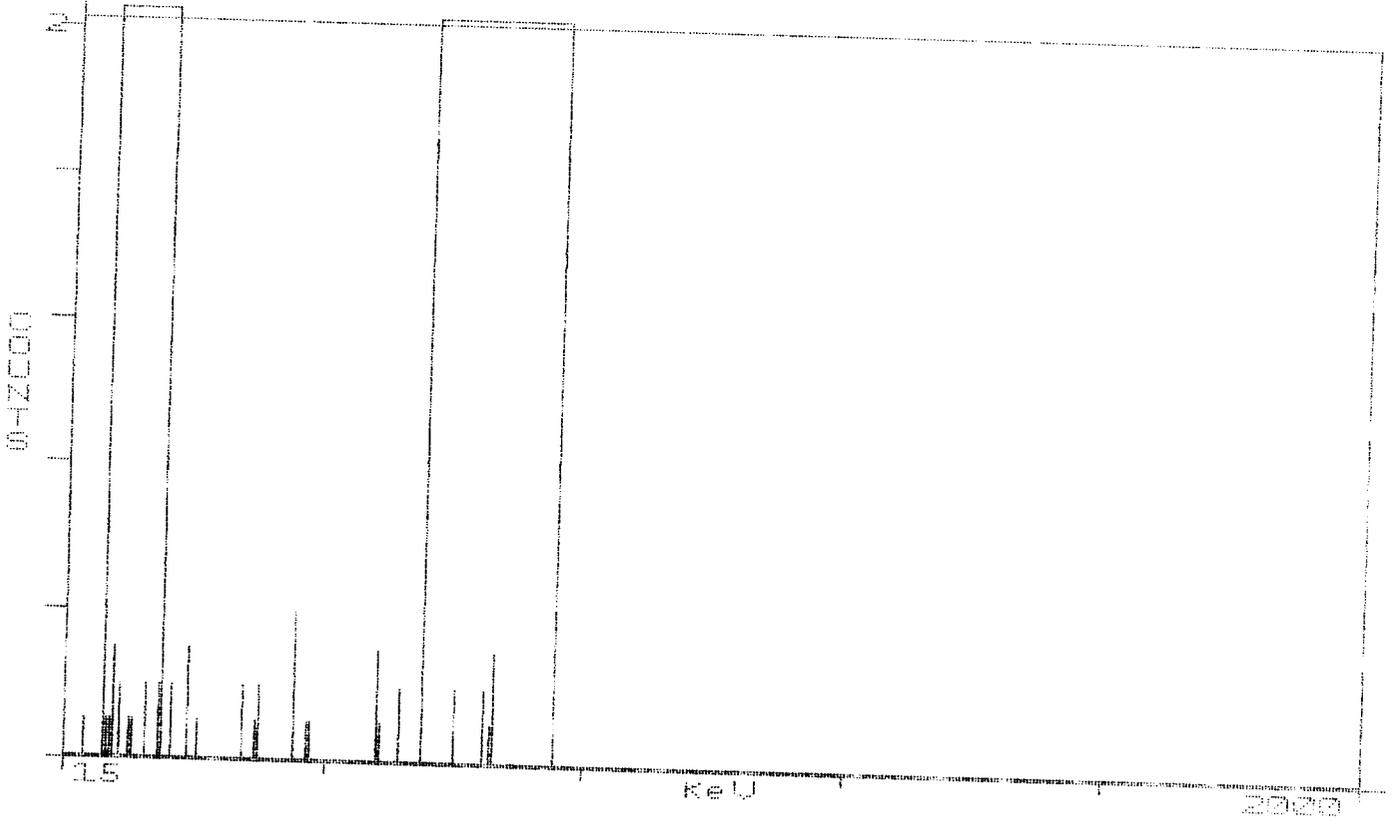
| S# | TIME | CPMA | DPM1 | MDA at 95% CL: |
|----|------|------|------|---------------------------|
| 1 | 1.00 | 0 | | |
| 2 | 1.00 | 6 | 12 | 2.7 cpm above background. |
| 3 | 1.00 | 0 | 0 | |
| 4 | 1.00 | 0 | 0 | |
| 5 | 1.00 | 0 | 0 | |
| 6 | 1.00 | 0 | 0 | |
| 7 | 1.00 | 0 | 0 | |
| 8 | 1.00 | 4 | 8 | |
| 9 | 1.00 | 0 | 0 | |
| 10 | 1.00 | 0 | 0 | |
| 11 | 1.00 | 8 | 16 | |
| 12 | 1.00 | 2 | 0 | |
| 13 | 1.00 | 0 | 0 | |
| 14 | 1.00 | 3 | 6 | |
| 15 | 1.00 | 5 | 10 | |
| 16 | 1.00 | 5 | 10 | |
| 17 | 1.00 | 5 | 10 | |
| 18 | 1.00 | 0 | 0 | |
| 19 | 1.00 | 0 | 0 | |
| 20 | 1.00 | 8 | 16 | |
| 21 | 1.00 | 11 | 22 | |
| 22 | 1.00 | 0 | 0 | |
| 23 | 1.00 | 0 | 0 | |
| 24 | 1.00 | 7 | 14 | |
| 25 | 1.00 | 0 | 0 | |
| 26 | 1.00 | 0 | 0 | |
| 27 | 1.00 | 10 | 20 | |
| 28 | 1.00 | 0 | 0 | |
| 29 | 1.00 | 0 | 0 | |
| 30 | 1.00 | 1 | 0 | |
| 31 | 1.00 | 5 | 10 | |
| 32 | 1.00 | 0 | 0 | |
| 33 | 1.00 | 0 | 0 | |
| 34 | 1.00 | 0 | 0 | |
| 35 | 1.00 | 0 | 0 | |
| 36 | 1.00 | 0 | 0 | |
| 37 | 1.00 | 0 | 0 | |

Cardinal Medical & Health Physics

S # : 37

Time : 1.00

| | LL | UL | CPM | %Sigma |
|------------|-----|------|-------|--------|
| Region A : | 75 | 165 | 0.000 | 13.2 |
| Region B : | 562 | 762 | 0 | 12.3 |
| Region C : | 15 | 2000 | 0 | 4.9 |



SHIPPING PAPER FOR DANGEROUS GOODS

CARRIER: Cardinal Health

ORIGIN: TIME: 11:00

DATE: 12-21-2007

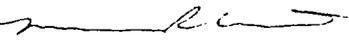
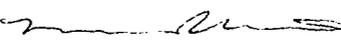
| | |
|---|---|
| <p>SHIPPER: Cardiology & Critical Care Consultants Watson Medical Plaza 3915 Watson Street, Ste. 103 St. Louis, MO 63109</p> | <p>CONSIGNEE NAME AND ADDRESS: Cardinal Health 414, Inc. Medical & Health Physics 9668 Marion Ridge Kansas City, MO 64137</p> <p>RAM # 04-26507-01MD</p> |
|---|---|

| | | |
|--|--------------------------|--------------------------|
| <u>Proper Shipping Name:</u> Radioactive Material, Type A Package | <u>Hazard Class</u> 7 | <u>UN No.</u> UN 2915 |
|--|--------------------------|--------------------------|

| NATURE AND QUANTITY OF DANGEROUS GOODS | | | | |
|--|---|-------------------------------------|-----------------------|-----------------------|
| <u>NO. PIECES</u> | <u>RADIONUCLIDE</u> | <u>CHEMICAL FORM/PHYSICAL STATE</u> | <u>ACTIVITY - MBq</u> | <u>ACTIVITY - mCi</u> |
| <u>WITHIN BOX</u> | | | | |
| 1 | Cobalt 57 (Flood Field Source SN: BM-02100358) | SOLID SEALED SOURCE | 72.2 MBq | 1.95 mCi |
| Total Activity Contained in one (1) box: | | | <u>72.2 MBq</u> | <u>1.95 mCi</u> |

| | | |
|--|-----------|-----------------------------|
| RADIOACTIVE LABEL CATEGORY: | | |
| <div style="border: 1px solid black; border-radius: 50%; padding: 2px; display: inline-block;">WHITE I</div> | YELLOW II | Transportation Index: _____ |
| EMERGENCY CONTACT: 816-966-2020 | | |

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to applicable regulations for the Department of Transportation.

| | | | | |
|---|-------|---|-------|--|
| Certified By: | | Name/Title of Signatory: | | |
|  | |  | | |
| Date: | Time: | Date: | Time: | |
| 12-21-07 | 12:00 | 12-21-07 | 12:00 | |

SHIPPING PAPER FOR DANGEROUS GOODS

CARRIER: SAME AS SHIPPER

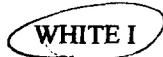
ORIGIN: TIME: 11:00

DATE: 12-21-2007

| | |
|---|---|
| <p>SHIPPER: Cardiology & Critical Care Consultants Watson Medical Plaza 3915 Watson Street, Ste. 103 St. Louis, MO 63109</p> | <p>CONSIGNEE NAME AND ADDRESS: Cardinal Health 414, Inc. Medical & Health Physics 9668 Marion Ridge Kansas City, MO 64137</p> <p>RAM # 04-26507-01MD</p> |
|---|---|

| | | |
|--|--------------------------|--------------------------|
| <u>Proper Shipping Name:</u> Radioactive Material, Type A Package | <u>Hazard Class</u> 7 | <u>UN No.</u> UN 2915 |
|--|--------------------------|--------------------------|

| NATURE AND QUANTITY OF DANGEROUS GOODS | | | | |
|--|---------------------|-------------------------------------|-----------------------|-----------------------|
| <u>NO. PIECES</u> | <u>RADIONUCLIDE</u> | <u>CHEMICAL FORM/PHYSICAL STATE</u> | <u>ACTIVITY - MBq</u> | <u>ACTIVITY - mCi</u> |
| 1 | Cs-137 | SOLID SEALED SOURCE | 4.42 MBq | 0.1195 mCi |
| 1 | Cs-137 | SOLID SEALED SOURCE | 0.034 MBq | 0.00092 mCi |
| Total Activity Contained in one (1) box: | | | <u>4.454 MBq</u> | <u>0.1195 mCi</u> |

| | | |
|---|-----------|-----------------------------|
| RADIOACTIVE LABEL CATEGORY: | | |
|  | YELLOW II | Transportation Index: _____ |
| EMERGENCY CONTACT: 816-807-8090 | | |

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to applicable regulations for the Department of Transportation.

| | | | | |
|---|-------|---|-------|--|
| Certified By: | | Name/Title of Signatory: | | |
|  | |  | | |
| Date: | Time: | Date: | Time: | |
| 12-21-07 | 12:00 | 12-21-07 | 12:00 | |



RETURN PACKING LIST

FROM:

Company Name CARDINAL HEALTH
 Address 91608 MARION RIDGE
 City KANSAS CITY State MO
 Zip 64137
 Contact Name MARCIA WEST
 Phone Number 816-807-8090

SEND TO:

 **Isotope Products
Laboratories**
 An Eckert & Ziegler Company
 1800 North Keystone Street
 Burbank, CA 91504
 Tel 661-309-1010
 Fax 661-257-8303
 E-mail: nucmedsales@isotopeproducts.com

RETURN #RA - 89040

STOP: Fill in the return number to the left. This packing list must be affixed to the outside of the package. Each returned source to IPL must be on a one-to-one exchange basis only. For additional returns, please contact IPL customer service for additional cost considerations.

Important: Please complete all requested information below.

| Nuclide | Activity | Reference Date | Serial Number | Capsule Description |
|------------------|------------------|--------------------|------------------|--------------------------|
| 1) <u>Cs-137</u> | <u>217.1 µCi</u> | <u>APR 1, 2004</u> | <u>1014-57-4</u> | <u>Sealed Solid Vial</u> |
| 2) _____ | _____ | _____ | _____ | _____ |
| 3) _____ | _____ | _____ | _____ | _____ |
| 4) _____ | _____ | _____ | _____ | _____ |
| 5) _____ | _____ | _____ | _____ | _____ |

FAX NUMBER:

816-974-1443

NOTE: FAX number must be provided to ensure acknowledgement of return receipt.

This section for IPL internal use only

Received at IPL By:

Print Name ISIDORO LANDEROS
 Date 7 JAN 08
 All source(s) received at IPL per packing slip? Yes No



RETURN PACKING LIST

FROM:

Company Name CARDINAL HEALTH

Address 9668 MARION RIDGE

City KANSAS CITY state MO

Zip 64137

Contact Name MARCIA WEST

Phone Number 816-807-8090

SEND TO:

 **Isotope Products
Laboratories**

An Eckert & Ziegler Company

1800 North Keystone Street
Burbank, CA 91504

Tel 661-309-1010
Fax 661-257-8303
E-mail: nucmedsales@isotopeproducts.com

RETURN #RA- 86812

STOP: Fill in the return number to the left. This packing list must be affixed to the outside of the package. Each returned source to IPL must be on a one-to-one exchange basis only. For additional returns, please contact IPL customer service for additional cost considerations.

Important: Please complete all requested information below.

| Nuclide | Activity | Reference Date | Serial Number | Capsule Description |
|-----------------|--------------|-----------------------|--------------------|---|
| 1) <u>Co-57</u> | <u>10mCi</u> | <u>March 22, 2006</u> | <u>Bm-02100358</u> | <u>Sealed Solid Flccl</u> <small>RADON</small> |
| 2) _____ | _____ | _____ | _____ | _____ |
| 3) _____ | _____ | _____ | _____ | _____ |
| 4) _____ | _____ | _____ | _____ | _____ |
| 5) _____ | _____ | _____ | _____ | _____ |

FAX NUMBER: 816-974-1443

NOTE: FAX number must be provided to ensure acknowledgement of return receipt.

This section for IPL internal use only

Received at IPL By:

Print Name ISIDORO LANDROS

Date 7 JAN 08

All source(s) received at IPL per packing slip? Yes No

Sealed Source Transfer Statement

Licensee: Cardiology & Critical Care Consultants **License #:** 24-32492-01

Location: 3915 Watson St.; Ste. 103 **Date:** 12-21-2007
St. Louis, MO 64137

Source Information

Isotope: Co-57 Flood Source **Manufacturer:** Benchmark
Model #: BM 02-01 **Serial #:** BM-02100358
Remaining Activity: 1.95 mCi **Calibration Date:** 3-22-06

T.I. Source Measurements

Bkg Reading: 0.08 mR/hr

| | | | |
|--------------------|-------------------|------------------|-------------------|
| 1. Surface Reading | <u>0.52</u> mR/hr | 1. Meter Reading | <u>0.08</u> mR/hr |
| 2. Surface Reading | _____ mR/hr | 2. Meter Reading | _____ mR/hr |
| 3. Surface Reading | _____ mR/hr | 3. Meter Reading | _____ mR/hr |

Transfer Information

Licensee: Cardinal Health 414, Inc. **License #:** 04-26507-01MD

Location: 9668 Marion Ridge **Date:** 12-21-2007
Kansas City, MO 64137

Shipper/Licensee

Radiation Safety Officer: B. Mikhael Date: _____

Recipient

Radiation Safety Officer: Amr Alkharzi Date: 12/24/07

Sealed Source Transfer Statement

Licensee: Cardiology & Critical Care Consultants **License #:** 24-32492-01

Location: 3915 Watson St.; Ste. 103 **Date:** 12-21-2007
St. Louis, MO 64137

Source Information

Isotope: Cs-137 Vial **Manufacturer:** Isotope Products
Model #: 217.1 uci **Serial #:** 1014-57-4
Remaining Activity: 119.5 uCi **Calibration Date:** 4-1-04

T.I. Source Measurements

Bkg Reading: 0.08 mR/hr

| | | | |
|--------------------|-------------------|------------------|-------------------|
| 1. Surface Reading | <u>1.86</u> mR/hr | 1. Meter Reading | <u>0.08</u> mR/hr |
| 2. Surface Reading | _____ mR/hr | 2. Meter Reading | _____ mR/hr |
| 3. Surface Reading | _____ mR/hr | 3. Meter Reading | _____ mR/hr |

Transfer Information

Licensee: Cardinal Health 414, Inc. **License #:** 04-26507-01MD

Location: 9668 Marion Ridge **Date:** 12-21-2007
Kansas City, MO 64137

Shipper/Licensee
X Radiation Safety Officer: B. Mikhael Date: _____

Recipient
Radiation Safety Officer: Amir Almasri Date: 12/24/07

Sealed Source Transfer Statement

Licensee: Cardiology & Critical Care Consultants **License #:** 24-32492-01

Location: 3915 Watson St.; Ste. 103 **Date:** 12-21-2007
St. Louis, MO 64137

Source Information

Isotope: Cs-137 Spot **Manufacturer:** Spectrum Technologies
Model #: _____ **Serial #:** 345
Remaining Activity: 0.92 uCi **Calibration Date:** 1.0 uCi on 3-04

T.I. Source Measurements

Bkg Reading: 0.08 mR/hr

| | | | |
|--------------------|--------------------|------------------|--------------------|
| 1. Surface Reading | <u>0.611</u> mR/hr | 1. Meter Reading | <u>0.049</u> mR/hr |
| 2. Surface Reading | _____ mR/hr | 2. Meter Reading | _____ mR/hr |
| 3. Surface Reading | _____ mR/hr | 3. Meter Reading | _____ mR/hr |

Transfer Information

Licensee: Cardinal Health 414, Inc. **License #:** 04-26507-01MD

Location: 9668 Marion Ridge **Date:** 12-21-2007
Kansas City, MO 64137

X Shipper/Licensee

Radiation Safety Officer: B. Mikhael Date: _____

Recipient

Radiation Safety Officer: Anna Wilson Date: 12/24/07

Cardinal Health
Medical & Health Physics Services
9668 Marion Drive
Kansas City, MO 64137



\$1.48 0
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FIRST-CLASS
062S0006245163
68105
CARDINAL HEALTH
062S0006245163

Materials Licensing Section
U.S. Nuclear Regulatory
Commission, Region III
2443 Warrenville Road, Ste 210
Lisle, IL 60532-4352

