



April 24, 2017

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

Dear Sir or Madam:

Deaconess Hospital would like to amend its Byproduct Materials License, Number 13-00142-02, to add Geoff Geoghegan, M.D. as an Authorized User for materials licensed under 10 CFR 35.100 and 35.200. Dr. Geoghegan is currently listed as an Authorized User on a Commonwealth of Kentucky Radioactive Materials License for the equivalents of 10 CFR 35.100 and 35.200. A copy of the Commonwealth of Kentucky Radioactive Materials License is enclosed.

Should there be any questions concerning this license amendment request, please contact our nuclear medicine physicist, Mr. Patrick Byrne, DABR, CHP, DABSNM, at 1-877-317-5811.

Sincerely,

A handwritten signature in black ink, appearing to read 'Susan Brumley'. The signature is fluid and cursive, written over a white background.

Susan Brumley, BS, CRA, RT(R)(CT)
Director of Radiology and Cardiology Services
susan.brumley@deaconess.com

RECEIVED MAY 01 2017

CABINET FOR HEALTH SERVICES
COMMONWEALTH OF KENTUCKY
RADIOACTIVE MATERIAL LICENSE

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1. LICENSEE AND 2. ADDRESS

BAPTIST HEALTH MADISONVILLE
INC.
900 HOSPITAL DRIVE
MADISONVILLE, KY 42431

ATTENTION: JIM BAILEY
TELEPHONE: 270-825-5638

PURSUANT TO KRS 211.842 ET SEQ., THE KENTUCKY CABINET FOR HUMAN
RESOURCES REGULATIONS, 902 KAR 100, AND IN RELIANCE ON STATEMENTS
AND REPRESENTATIONS HERETOFORE MADE BY THE LICENSEE, A LICENSE IS
HEREBY ISSUED TO RECEIVE, ACQUIRE, OWN, POSSESS AND TRANSFER
RADIOACTIVE MATERIAL LISTED BELOW; AND TO USE SUCH RADIOACTIVE
MATERIAL FOR THE PURPOSE(S) AND AT THE PLACE(S) DESIGNATED BELOW.
THIS LICENSE IS SUBJECT TO ALL APPLICABLE RULES, REGULATIONS, AND
ORDERS OF THE CABINET FOR HEALTH SERVICES, NOW OR HEREINAFTER IN
EFFECT AND TO ANY CONDITIONS SPECIFIED BELOW.

- 3. LICENSE NUMBER: 202-141-26
AMENDMENT NO. 80
- 4. EXPIRATION DATE: SEPTEMBER 30, 2017
- 5. REVIEWER: 44

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|--|---|--|
| ----- | | |
| 6. LICENSED MATERIAL | 7. FORM | 8. POSSESSION LIMIT |
| A. ANY RADIOACTIVE MATERIAL IDENTIFIED IN 902 KAR 100: 072, SECTIONS 30 AND 31 | A. ANY | A. AS NECESSARY |
| B. STRONTIUM 90 | B. SEALED SOURCE (ICN TRACERLAB MODEL RA-1) | B. NO SINGLE SOURCE TO EXCEED 100 MILLI-CURIES |

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C. CESIUM 137	C. SEALED SOURCES	C. 1250 MILLICURIES
D. IODINE 125	D. SEEDS	D. 125 MILLICURIES
E. IRIDIUM 192	E. SEEDS	E. 200 MILLICURIES
F. STRONTIUM 89	F. METASTRON (CHLORIDE)	F. 100 MILLICURIES
G. SAMARIUM 153	G. LEXIDRONAMM (SODIUM)	G. 500 MILLICURIES
H. YTTRIUM 90	H. LIQUID	H. 50 MILLICURIES
I. INDIUM 111	I. LIQUID	I. 50 MILLICURIES
J. GALLIUM 67	J. LIQUID	J. 50 MILLICURIES
K. IODINE 123	K. SOLID CAPSULES	K. 10 MILLICURIES
L. IODINE 131	L. LIQUID OR CAPSULE	L. 500 MILLICURIES
M. PHOSPHORUS 32	M. LIQUID	M. 100 MILLICURIES
N. CROMIUM 51	N. LIQUID	N. 5 MILLICURIES
O. RADIUM 223	O. ANY	O. 0.5 MILLICURIES

9. AUTHORIZED USE

- A. USES AUTHORIZED BY 902 KAR 100:072, SECTIONS 30 AND 31.
- B. TREATMENT OF SUPERFICIAL EYE CONDITIONS
- C. FOR INTERSTITIAL AND INTRACAVITARY TREATMENT OF CANCER.
- D. FOR INTERSTITIAL TREATMENT OF CANCER.
- E. FOR INTERSTITIAL TREATMENT OF CANCER.
- F. FOR USE IN TREATMENT OF METASTATIC BONE CANCER.

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- G. FOR USE IN TREATMENT OF METASTATIC BONE CANCER.
 - H. FOR TREATMENT OF NON-HODGKIN'S LYMPHOMA.
 - I. FOR DIAGNOSTIC INFECTION AND TUMOR LOCALIZATION.
 - J. FOR DIAGNOSTIC INFECTION AND TUMOR LOCALIZATION.
 - K. THYROID FUNCTION, UPTAKE STUDIES, AND LOCALIZATION OF THYROID CANCER.
 - L. THERAPEUTIC AND DIAGNOSTIC THYROID STUDIES.
 - M. INTERSTITIAL AND INTRACAVITARY THERAPY.
 - N. FOR DIAGNOSTIC MEDICAL USE.
 - O. ANY USE OF UNSEALED RADIOACTIVE MATERIAL FOR WHICH A WRITTEN DIRECTIVE IS REQUIRED AS PERMITTED BY 902 KAR 100:072, SECTION 33.

CONDITIONS:

- 10. THE LICENSEE SHALL COMPLY WITH THE PROVISIONS OF THE KENTUCKY CABINET FOR HEALTH SERVICES ADMINISTRATIVE RADIATION REGULATIONS, 902 KAR 100.
- 11. RADIOACTIVE MATERIAL SHALL BE USED ONLY AT THE LICENSEE'S FACILITIES LOCATED AT:

900 HOSPITAL DRIVE, MADISONVILLE, KY 42431
- 12. THIS LICENSE AND THE RIGHT TO POSSESS OR UTILIZE RADIOACTIVE MATERIAL GRANTED BY THIS LICENSE ISSUED UNDER 902 KAR CHAPTER 100 SHALL NOT BE TRANSFERRED, ASSIGNED, OR OTHERWISE DISPOSED OF, THROUGH TRANSFER OF CONTROL OF A LICENSE TO A PERSON UNLESS THE CABINET, AFTER SECURING FULL INFORMATION, FINDS THAT THE TRANSFER IS IN ACCORDANCE WITH THE REQUIREMENTS OF 902 KAR CHAPTER 100 AND GIVES ITS CONSENT IN WRITING IN ACCORDANCE WITH 902 KAR 100:040, SECTION 11.
- 13. COPIES OF RECORDS REQUIRED PURSUANT TO 902 KAR 100 OR CONDITIONS OF THE LICENSE SHALL BE MAINTAINED FOR INSPECTION BY THE CABINET AT 900 HOSPITAL DRIVE, MADISONVILLE, KY 42431

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14. RADIOACTIVE MATERIAL LISTED IN ITEM 6 ABOVE IS AUTHORIZED FOR USE BY, OR UNDER THE SUPERVISION OF, THE FOLLOWING INDIVIDUAL(S) FOR THE MATERIALS AND USES INDICATED:
- | | |
|--|---|
| A. STEVEN B. BUSH, M.D.
GEOFF GEOGHEGAN, M.D.
WILLIAM TAGG, M.D. | A. MATERIALS IDENTIFIED IN 902
KAR 100:072, SECTIONS 30 AND
31 |
| B. NEAL H. ROSNER, M.D. | B. MATERIALS IDENTIFIED IN 902
KAR 100:072, SECTIONS 30, 31,
AND 33. P-32, SM-153, SR-89,
Y-90 AND I-131 LESS THAN OR
GREATER THAN 33 MILLICURIES |
| C. SATISH J. SHAH, M.D. | C. MATERIAL IDENTIFIED IN 902
KAR 100:072, SECTIONS 33 AND
37. |
15. THE RADIATION SAFETY OFFICER FOR THE ACTIVITIES AUTHORIZED BY THIS LICENSE IS WILLIAM MCCOLL, PH.D. .
16. THE AUTHORIZED MEDICAL PHYSICIST FOR THIS LICENSE IS:
WILLIAM MCCOLL, PH.D., DABR
17. TESTS FOR LEAKAGE AND/OR CONTAMINATION SHALL BE PERFORMED BY PERSONS SPECIFICALLY AUTHORIZED BY THE CABINET, U.S. NUCLEAR REGULATORY COMMISSION, OR AN AGREEMENT STATE.
18. THE LICENSEE SHALL CONDUCT A PHYSICAL INVENTORY AT LEAST EVERY SIX (6) MONTHS TO ACCOUNT FOR ALL SEALED SOURCES AND/OR DEVICES RECEIVED AND POSSESSED UNDER THE LICENSE. THE RECORDS OF THE INVENTORIES SHALL BE MAINTAINED FOR THREE (3) YEARS FROM THE DATE OF THE INVENTORY FOR INSPECTION BY THE CABINET, AND SHALL INCLUDE THE MODEL NUMBER OF EACH SOURCE, SERIAL NUMBER IF ONE HAS BEEN ASSIGNED, THE IDENTITY OF EACH SOURCE BY RADIONUCLIDE AND ITS NOMINAL ACTIVITY, THE LOCATION OF EACH SOURCE, THE DATE OF THE INVENTORY, AND THE NAME OF THE INDIVIDUAL WHO PERFORMED THE INVENTORY.
19. THE LICENSEE MAY TRANSPORT RADIOACTIVE MATERIAL, OR DELIVER RADIOACTIVE MATERIAL TO A CARRIER FOR TRANSPORT, IN ACCORDANCE WITH THE PROVISIONS OF 902 KAR 100:070, AND OTHER DEPARTMENTS OF THE COMMONWEALTH OF KENTUCKY HAVING JURISDICTION.

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20. IN ADDITION TO THE POSSESSION LIMITS IN ITEM 8, THE LICENSEE SHALL FURTHER RESTRICT THE POSSESSION OF RADIOACTIVE MATERIAL TO QUANTITIES BELOW THE MINIMUM LIMIT SPECIFIED IN 902 KAR 100:042, SECTION 11, FOR ESTABLISHING DECOMMISSIONING FINANCIAL ASSURANCE.
21. FOR RADIOPHARMACEUTICALS WHERE THE BETA EMISSION IS OF PRIMARY INTEREST, LOCALLY PREPARED OR SUBDIVISION DOSES SHALL BE ASSAYED IN A PROPERLY CALIBRATED DOSE CALIBRATION AFTER PREPARATION AND BEFORE DISPENSING FOR USE. PROPER CALIBRATION OF AN IONIZATION-TYPE DOSE CALIBRATOR SHALL INCLUDE PARTICIPATION IN A STANDARDIZATION PROTOCOL WITH THE NATIONAL INSTITUTE FOR STANDARDS AND TECHNOLOGY (NIST), OR THE PHARMACEUTICAL MANUFACTURER, THAT INCLUDES USE OF NIST STANDARD SOLUTIONS AND CONTAINERS FOR THE RADIOPHARMACEUTICAL OF INTEREST. THE LICENSEE SHALL RETAIN DOCUMENTATION OF PARTICIPATION, INCLUDING THE NIST CALIBRATION CERTIFICATE OR MATERIAL DATA SHEET FOR THE CALIBRATION SOURCE, FOR THE DURATION OF THE LICENSE.
- THE DOSE CALIBRATOR SHALL BE RE-CALIBRATED ANNUALLY USING Y-90 NIST STANDARD SOLUTIONS AND CONTAINERS FOR THE RADIOPHARMACEUTICAL OF INTEREST.
22. THE LICENSEE SHALL COMPLY WITH THE PROVISIONS DESCRIBED IN THE MANUFACTURER'S FULL PRESCRIBING INFORMATION FOR XOFIGO RADIUM-223 DICHLORIDE INJECTION FOR INTRAVENOUS USE AS APPROVED BY THE FOOD AND DRUG ADMINISTRATION IN ACCORDANCE WITH 902 KAR 100:072, SECTION 79.
23. IN ADDITION TO THE POSSESSION LIMITS SPECIFIED IN ITEM 8, THE LICENSEE SHALL FURTHER RESTRICT POSSESSION OF RADIOACTIVE MATERIAL, IN AGGREGATED QUANTITIES; BELOW THE CATEGORY 2 VALUE (IN TERABECQUERELS) SPECIFIED IN APPENDIX A, TABLE 1 - "CATEGORY 1 AND CATEGORY 2 THRESHOLD" OF 10 CFR 37 "PHYSICAL PROTECTION OF CATEGORY 1 AND CATEGORY 2 QUANTITIES OF RADIOACTIVE MATERIAL".
24. EXCEPT AS SPECIFICALLY PROVIDED OTHERWISE IN THIS LICENSE, THE LICENSEE SHALL CONDUCT ITS PROGRAM IN ACCORDANCE WITH THE STATEMENTS, REPRESENTATIONS, AND PROCEDURES CONTAINED IN THE DOCUMENTS, INCLUDING ANY ENCLOSURES, LISTED BELOW. THE CABINET FOR HEALTH SERVICES REGULATIONS, 902 KAR 100, SHALL GOVERN UNLESS STATEMENTS, REPRESENTATIONS, AND PROCEDURES IN THE LICENSEE'S APPLICATION AND CORRESPONDENCE ARE MORE RESTRICTIVE THAN THE REGULATION.

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- A. APPLICATION DATED APRIL 27, 2006, SIGNED BY RON PETERSON, PRESIDENT.
- B. LETTERS DATED:
1. JANUARY 30, 2008, SIGNED BY BERTON WHITAKER, PRESIDENT AND CEO.
 2. MAY 5, 2008, SIGNED BY DONALD THOMPSON, RSO.
 3. JUNE 4, 2009, SIGNED BY BERTON WHITAKER, PRESIDENT AND CEO.
 4. MARCH 3, 2010, SIGNED BY DEWEY CRAWFORD, KY RCPD.
 5. MARCH 8, 2011, SIGNED BY BERTON WHITAKER, PRESIDENT/CEO.
 6. OCTOBER 11, 2012, SIGNED BY E. BERTON WHITAKER, PRESIDENT AND CEO, REGIONAL MEDICAL CENTER (ADD ONE AUTHORIZED USER AND REMOVE TWO AUTHORIZED USERS).
 7. OCTOBER 22, 2012, SIGNED BY E. BERTON WHITAKER, PRESIDENT AND CEO, REGIONAL MEDICAL CENTER (TRANSFER OF CONTROL RPS-12).
 8. MAY 17, 2013, SIGNED BY E. BERTON WHITAKER, PRESIDENT/CEO (ADD AUTHORIZED USER).
 9. OCTOBER 28, 2013, SIGNED BY MICHAEL BAUMGARTNER, PRESIDENT (ADD RA-223).
 10. FEBRUARY 26, 2015, SIGNED BY MICHAEL BAUMGARTNER, PRESIDENT, BAPTIST HEALTH MADISONVILLE (ADD AUTHORIZED USER).
 11. MARCH 19, 2015, SIGNED BY ROBERT RAMEY, INTERIM PRESIDENT, BAPTIST HEALTH MADISONVILLE AND WILLIAM MCCILL, PH.D., RSO (RSO DELEGATION OF AUTHORITY- DUPLICATE INFORMATION RECEIVED MARCH 20, 2015 BY FAX AND MARCH 25, 2015 BY MAIL).
 12. MAY 18, 2015, SIGNED BY ROBERT RAMEY, PRESIDENT, BAPTIST HEALTH MADISONVILLE (ADD AUTHORIZED USER, REMOVE AUTHORIZED USER).



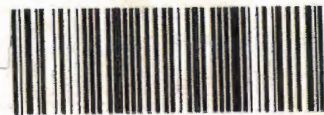
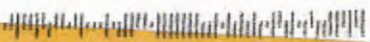
MANAGER
RADIATION HEALTH BRANCH

VICKIE YATES BROWN GLISSON

SECRETARY
CABINET FOR HEALTH AND FAMILY
SERVICES

DATE ISSUED AUGUST 18, 2016

CELTIC MAIL



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U.S. POSTAGE PITNEY BOWES



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FROM

DEACONESS HOSPITAL

RADIOLOGY

600 Mary Street
Evansville, Indiana 47747

TO

U.S. NUCLEAR REGULATORY COMMISSION
MATERIALS LICENSING SECTION
2443 WARRELVILLE ROAD, SUITE 210
WISLE, IL 60532-4352

CONTENTS: MERCHANDISE—RETURN REQUESTED

POSTMASTER This parcel may be opened for inspection if necessary.

F-0332 (F-06)