

**KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT
1000 SOUTHWEST JACKSON SUITE 330
TOPEKA KANSAS 66612-1365**



APPLICATION FOR RADIOACTIVE MATERIALS LICENSE – MEDICAL/RADIOPHARMACY

INSTRUCTIONS - Complete Items 1 through 23. Use supplemental sheets where necessary. Item 23 must be completed on all applications. Maintain one copy for your records and mail one copy **along with applicable fee if applying for a new license** to: Kansas Department of Health and Environment, Bureau of Community Health Systems, Radiation Control Program, 1000 SW Jackson, Suite 330, Topeka, Kansas 66612-1365. Telephone: (785) 296-1560. Upon approval of this application, the applicant will receive a Kansas Radioactive Materials License, issued in accordance with the general requirements contained in State of Kansas, Department of Health and Environment, Radiation Protection Regulations and the Kansas Nuclear Energy Development and Radiation Control Act.

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| 1. a. Name And Complete Mailing Address of Applicant | 1.b. Street Address(es) where Radioactive Material Will Be Used |
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| | |
| Facility contact: | |
| Phone No. : _____ e-mail: _____ | |
| 2. Person to Contact Regarding this Application: | |
| | |
| Phone No. : _____ e-mail: _____ | |
| 3. Type of Application <input type="checkbox"/> New License <input type="checkbox"/> Amendment <input type="checkbox"/> Renewal License No.: | |
| 4. Individuals Who Will Use or Directly Supervise the Use of Radioactive Material (Attach Training and Experience and Preceptor Attestation for each requested Authorized User, or documentation of experience and relevant continuing education within previous 7 years) | |
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| 5. RADIATION SAFETY OFFICER (Attach Training and Experience and Preceptor Attestation, or documentation of experience and relevant continuing education within previous 7 years). Name: _____ <input type="checkbox"/> Completed Delegation of Authority signed by Executive Management representative and accepted by the prospective RSO is attached <input type="checkbox"/> The duties and responsibilities of the Radiation Safety Officer are attached | |

| 6. a. RADIOACTIVE MATERIAL FOR MEDICAL USE | | |
|---|--|--|
| Radionuclide | Chemical and/or physical form | MAXIMUM POSSESSION LIMIT (millicuries) |
| <input type="checkbox"/> Any radioactive material permitted by 10 CFR 35.100 as adopted by reference in K.A.R. 28-35-264 | Any radiopharmaceutical permitted by 10 CFR 35.100 for uptake, dilution and excretion studies that do not require a written directive | As Needed |
| <input type="checkbox"/> Any radioactive material permitted by 10 CFR 35.200 as adopted by reference in K.A.R. 28-35-264 | Any radiopharmaceutical permitted by 10 CFR 35.200 for imaging and tumor localizations that do not require a written directive | As Needed |
| <input type="checkbox"/> Iodine-131 | Sodium iodide referenced by 10 CFR 35.392 for oral administration requiring a written directive in quantities less than or equal to 1.22 gigabecquerels (33 millicuries) | |
| <input type="checkbox"/> Iodine-131 | Sodium iodide referenced by 10 CFR 35.394 for oral administration requiring a written directive in quantities greater than 1.22 gigabecquerels (33 millicuries) | |
| <input type="checkbox"/> Any radioactive material referenced by 10 CFR 35.396 as adopted by reference in K.A.R. 28-35-264 | Any radiopharmaceutical referenced by 10 CFR 35.396 for parenteral administration requiring a written directive | |
| <input type="checkbox"/> Any radioactive material permitted by 10 CFR 35.400 as adopted by reference in K.A.R. 28-35-264 | Any source permitted by 10 CFR 35.400 for manual brachytherapy therapeutic medical use requiring a written directive | |

| 6. b. RADIOACTIVE MATERIAL FOR USES NOT LISTED IN ITEM 6.a. This could include calibration and reference sources or isotopes not included in section 6.a | | | | |
|--|--|-----------------------------------|--------------------------------|--|
| Radionuclide | Chemical and/or physical form (If sealed source, state the manufacturer & model number). | Maximum Activity per Source (mCi) | Maximum Possession Limit (mCi) | Describe Use |
| Any | Sealed source permitted by 10 CFR 35.65 | | | Calibration, transmission, reference and quality control |
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| <p>7. RADIATION SAFETY COMMITTEE</p> <p><input type="checkbox"/> The duties, responsibilities and membership of the Radiation Safety Committee is attached</p> <p><input type="checkbox"/> This application is for a private practice and a Radiation Safety Committee is not required</p> |
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| <p>8. INSTRUMENTATION</p> <p><input type="checkbox"/> A description of the instrumentation used for survey, wipe counting and dose assay is attached</p> |
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9. a. CALIBRATION OF INSTRUMENTS

- Radiation survey instruments will be calibrated by a service company/consultant authorized to perform such services. A copy of the license authorizing such services will be maintained. Name and license number:
- Procedure to calibrate radiation survey instruments, individuals name and qualifications is attached

9. b. CALIBRATION OF DOSE CALIBRATORS

- Dose calibrators will be calibrated by a service company/consultant authorized to perform such services. A copy of the license authorizing such services will be maintained. Name and license number:
- Procedure to calibrate dose calibrators, individuals name and qualifications is attached

10. FACILITIES AND EQUIPMENT

- A sketch of the facility and equipment location is attached.
- A description of the physical security measures to prevent unauthorized removal of radioactive material is attached.

11. PERSONNEL TRAINING PROGRAM

- A description of the training program meeting the requirements of KAR 28-35-333 is attached.

12. ORDERING AND RECEIPT OF RADIOACTIVE MATERIAL

- Procedure to order and receive radioactive material is attached.

13. SAFELY OPENING PACKAGES CONTAINING RADIOACTIVE MATERIAL

- Procedure to open packages containing radioactive material is attached.

14. GENERAL RULES FOR THE SAFE USE OF RADIOACTIVE MATERIAL

- General rules for the safe use of radioactive material are attached.

15. EMERGENCY PROCEDURE

- Procedure for spill of radioactive liquids, nuclear medicine therapy patient autopsy or emergency surgery are attached.

16.a. BIOASSAY PROGRAM

- Procedure to perform bioassay sampling, trigger levels, dose calculation is attached
- There is no bioassay sampling requirement for this license.

16.b. SEALED SOURCE LEAK TESTING

- Sealed source leak testing is performed by a service company/consultant authorized to perform such services. A copy of the license authorizing such services will be maintained. Name and license number:
- Procedure to perform sealed source leak testing is attached.

16.c. ALARA PROGRAM

- ALARA program description, trigger levels, action taken is attached.

16.d. BREAKTHROUGH DETERMINATION

- Manufacturer procedure will be followed or procedure to determine Molybdenum-99 breakthrough is attached.
- Only unit doses will be used therefore the determination of Molybdenum-99 breakthrough is not required for this license.
- Manufacturer procedure will be followed or procedure to determine Strontium-82 and Strontium-85 breakthrough is attached.
- Use of Rubidium-82 generator is not requested therefore the determination of Strontium-82 and Strontium-85 breakthrough is not required for this license.

16.e. MOBILE NUCLEAR MEDICINE SERVICE

- Description of the Mobile Nuclear Medicine Service to be provided is attached.
- Mobile Nuclear Medicine Service will not be performed on this license.

17. AREA RADIATION AND CONTAMINATION SURVEY

- Procedure to perform area radiation and contamination surveys is attached.

18. DISPOSAL OF RADIOACTIVE WASTE

- Procedure to dispose of waste radioactive material is attached.

19. WRITTEN DIRECTIVE

- Procedure to develop, maintain and implement written directive is attached.
- Radioactive material requiring a written directive is not requested and will not be performed on this license.

20. RELEASE OF PATIENTS ADMINISTERED RADIOACTIVE MATERIAL

- Procedure for release of patients administered radioactive material is attached.
- Administered radioactive material will not exceed the quantity determined to cause public exposure greater than 0.5 rem.

21. RADIOACTIVE GASES AND AEROSOLS

- Procedure to use radioactive gases and aerosols, equipment, effluent release assumptions, room clearance calculation is attached
- Use of radioactive gases and aerosols is not requested and will not be performed on this license.

| 22. PERSONNEL MONITORING DEVICES | | | |
|----------------------------------|-----------------|----------|--------------------|
| TYPE | | SUPPLIER | EXCHANGE FREQUENCY |
| a. WHOLE BODY | FILM | | |
| | TLD | | |
| | OTHER (SPECIFY) | | |
| b. FINGER | FILM | | |
| | TLD | | |
| | OTHER (SPECIFY) | | |
| c. OTHER (SPECIFY) | FILM | | |
| | TLD | | |
| | OTHER (SPECIFY) | | |

CERTIFICATE

(This item must be completed by applicant)

23. The applicant and any official executing this certificate on behalf of the applicant in Item 1, certify that this application is prepared in conformity with State of Kansas, Department of Health and Environment, Radiation Protection Regulations and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.

a. APPLICANT OR CERTIFYING OFFICIAL (Signature)

NAME (Type or Print)

TITLE

b. DATE:

BUSINESS ID #

FEDERAL TAX ID #
