Virginia Department of Health Radioactive materials Program (804) 864-8150



INITIAL APPLICATION FOR A RADIOACTIVE MATERIAL LICENSE FOR A COMMERICAL RADIOPHARMACY

The Virginia Department of Health is requesting disclosure of all information on this application for the purpose of obtaining a radioactive material license. Failure to provide any information may result in denial or delay of a radioactive material license.

Instructions: Complete all items if this is an initial application or an application for renewal of a license. Refer to VAREG-I "Guidance for Radiopharmacy Licenses." Use supplementary sheets where necessary. Submit the entire application either electronically or by mail to the Virginia Department of Health, Radioactive Materials Program, 109 Governor Street, Room 730, Richmond, VA 23219.

APPLICATION TYPE	
Item 1 New Application	
CONTACT INFORMATION	
Item 2 Name And Mailing Address Of Applicant:	Item 3 Person To Contact Regarding Application:
	Name:
	E-mail:
, -	
Applicant's Telephone Number (Include Area Code):	Telephone Number (Include area code)
() - x	() - x
LOCATION OF RADIOACTIVE MATERIAL	
Item 4 Address(es) Where Radioactive Material Will Be Used Or Posses	sed (Do not use Post Office Box):
Address	Telephone Number (Include area code)
	() - x
, -	
Address	Telephone Number (Include area code)
	() - x
, -	
Address	Telephone Number (Include area code)
	() - x

INITIAL APPLICATION FOR A RADIOACTIVE MATERIAL LICENSE FOR A RADIOPHARMACY Page 2 of 7 RADIATION SAFETY OFFICER Item 5 Radiation Safety Officer (RSO) (Check all that apply and attach evidence of training and experience) RSO Name: Tel (Include area code): () X E-mail: We will submit an organizational chart describing the management structure, reporting paths, and the flow of authority between executive management and the RSO. AND EITHER A copy of the license (VDH, the NRC or an Agreement State) that authorized the uses requested and on which the individual was specifically named as the RSO, an Authorized Nuclear Pharmacist, or an Authorized User. OR A description of the training and experience demonstrating that the proposed RSO is qualified by training and experience as applicable to commercial nuclear pharmacies. Appendix G in VAREG 'Guidance for Commercial Radiopharmacy' should be used in documenting and determining required training and experience. AUTHORIZED NUCLEAR PHARMACIST Item 6 Authorized Nuclear Pharmacist (ANP) (Check all that apply and attach evidence of training and experience) We will provide a copy of the State pharmacy licensure for each pharmacist. AND ONE OF THE FOLLOWING We will provide a copy of the license (VDH, the NRC or an Agreement State) on which the individual was specifically named as an ANP. OR We will provide a copy of the permit maintained by a broad scope licensee or NRC master material licensee. We will provide a copy of the certification(s) for the radiopharmacy board(s), and e will provide a written certification, signed by a preceptor ANP, that the training and experience as specified in 12VAC5-481-1770 has been completed and that the individual has achieved a level of competency sufficient to independently operate a nuclear pharmacy. OR We will provide a description of the training and experience demonstrating that the proposed ANP is qualified by training and experience, and we will provide a written certification, signed by a preceptor ANP, that the training and experience as specified in 12VAC5-481-1770 has been completed and that the individual has achieved a level of competency sufficient to independently operate a nuclear pharmacy. **AUTHORIZED USERS** Item 7 Authorized Users (AU) (Check all that apply) We will provide the individual's name and identify types, quantities, and proposed uses of licensed material. AND ONE OF THE FOLLOWING We will provide a copy of the license (VDH, the NRC or another Agreement State) on which the individual was specified as an AU for the types and quantities and proposed uses of licensed materials. OR We will provide a copy of the permit maintained by a broad scope licensee or NRC master material licensee that identifies the individual as an AU for the types, quantities, and proposed uses of licensed materials. OR We will provide a description of the training and experience demonstrating that the proposed AU is qualified to use the requested licensed materials. Appendix G in VAREG 'Guidance for Commercial Radiopharmacy' may be helpful in describing the training and experience required.

TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS

Item 8.1 Occupationally Exposed Workers And Ancillary Personnel (Check box if applicable)

We have developed and will implement and maintain written procedures for a training program for each group of workers, including: topics covered; qualifications of the instructors; method of training; method for assessing the success of the training; and the frequency of training and refresher training. (Procedures are attached)

Item 8.2 Personnel Involved In Hazardous Materials Package Preparation And Transport (Check box if applicable)			
We have developed and will implement and maintain written procedures for training personnel involved in hazardous materials package preparation and transport that meet the requirements in 49 CFR 172.700, 49 CFR 172.702 and 49 CFR 172.704, as applicable. (Procedures are attached)			
RADIO	ACTIVE MATERIALS		
Item 9 Ra	adioactive Material (Attach additional pages if necessary)		
Item 9.1	Radioisotope(s)		
Item 9.2	Chemical/Physical Form of radioisotopes requested.		
Are open	containers of potentially volatile materials (Iodine-131)	☐ Yes ☐ No	
	ed at this location?	If yes, process and engineering controls must be described.	
Are sealer	sources used at this location?	Yes No	
7 d o Soulo	socioco abou at ano rotation.	If yes, please fill out Items 9.3 – 9.5, otherwise proceed to Item 9.6	
Item 9 3	Sealed Source Manufacturer or Distributor and Model Numb		
110111 7.5	Scaled Source Manufactures of Distributor and Macdel Manu-	or or source sources requestion	
Item 9.4	Device Manufacturer or Distributor and Model Number of de	vices requested.	
is Deplete	d Uranium used as a shielding material?	Yes No	
Item 9 5 i	Maximum possession limit for each radioisotope requested.	If yes, specify the total amount (in Kilograms)	
11011 7.5	valuation possession time for each radioisotope requested.		
Item 9.6	Proposed use for each radioisotope requested.		
DIIDDO	SE(S) FOR WHICH LICENSED MATERIAL WILL I	DE HIGEN	
	Distribution And Redistribution Of Licensed Materials	DE COED	
Item 10.1	Radiopharmaceuticals (Check both boxes)		
	will confirm that radiopharmaceuticals will be prepared under the 2VAC5-481-480 I, or under equivalent NRC or other Agreement	e supervision of an ANP or will be obtained from a supplier authorized pursuant State requirements;	
		AND	
☐ We	will describe all licensed material to be distributed or redistribute	d.	
Item 10.2	Generators (Check all boxes if using generators)		
Con:	firm that the generators will be obtained from a manufacturer licent ement State requirements.	nsed pursuant to 12VAC5-481-480 I, or under equivalent NRC or other	
AND			
☐ Con	firm that unused generators will be redistributed without opening	or altering the manufacturer's packaging.	

	APPLICATION FOR A RADIOACTIVE MATERIAL LICENSE FOR A COMMERICIAL RADIOPHARMACY	
Iter	n 10.3 Redistribution Of Generators (Check all boxes if redistributing generators)	
	We will submit a description of the procedures and instructions for safely repackaging the generators, including the use of the manufacturer's original packaging and minimization of migration of radioactive fluids out of the generator during transport.	
	AND	
	Confirm that the manufacturer's packaging and labeling will not be altered.	
	AND	
	Confirm that the generator will not be distributed beyond the expiration date shown on the generator label.	
	AND	
	Confirm that the redistributed generator will be accompanied by the manufacturer-supplied leaflet or brochure that provides radiation safety instructions for handling and using the generator.	
	AND	
	Confirm that only generators used in accordance with the manufacturer's instructions will be redistributed.	
Not	e: Although redistribution of used generators may be authorized by VDH, VDH approval does not relieve the licensee from complying with applicable FDA or other Federal or state requirements.	
Iten	10.4 Redistribution Of Sealed Sources - For Brachytherapy Or Diagnosis (Check all boxes if redistributing sealed sources, for brachytherapy or diagnosis)	
	Confirm that the sealed sources for brachytherapy or diagnosis to be redistributed will be obtained from a manufacturer authorized to distribute sealed sources for brachytherapy or diagnosis in accordance with a specific license issued in pursuant to 12VAC5-481-480 J, or under equivalent NRC or other Agreement State requirements.	
	AND	
	Confirm that the manufacturer's packaging, labeling and shielding will not be altered and that redistributed sources will be accompanied by the manufacturer-supplied package insert, leaflet, brochure, or other document that provides radiation safety instructions for handling and storing the sources.	
Iten	10.5 Redistribution Of Calibration And Reference Sealed Sources (Check all boxes if redistributing calibration and reference sealed sources)	
	Confirm that calibration and reference sealed sources to be redistributed to medical use licensees will be obtained from a person licensed pursuant to 12VAC5-481-480 J, or under equivalent NRC or other Agreement State requirements, to initially distribute such sources.	
	AND	
	Confirm that the manufacturer's labeling and packaging will not be altered and that redistributed sources will be accompanied by the manufacturer-supplied calibration certificate and the leaflet, brochure, or other document that provides radiation safety instructions for handling and storing the sources.	
Item	10.6 Redistribution Of Prepackaged Units For In-Vitro Tests (Check box if redistributing prepackaged units for In-vitro tests)	
	Confirm that the prepackaged units for in-vitro tests to be redistributed will have been obtained from a manufacturer licensed to distribute the prepackaged units for in-vitro tests pursuant to 12VAC5-481-480 G, or under equivalent NRC or other Agreement State requirements.	
Item	10.7 Redistribution To General Licensee (Check all boxes if redistributing to a general licensee)	
	Confirm that the manufacturer's packaging and labeling of the prepackaged units for in-vitro tests will not be altered in any way.	
	AND	
	Confirm that each redistributed prepackaged unit for in-vitro tests will be accompanied by the manufacturer-supplied package insert, leaflet, or brochure that provides radiation safety instructions for general licensees.	
Item	10.8 Redistribution To Specific License (Check box)	
	Confirm that the labels, package insert, leaflet, brochure, or other documents accompanying the redistributed prepackaged units for in-vitro test will NOT reference general licenses, exempt quantities, or VDH, NRC, or Agreement State regulations that authorize a general license.	

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	EPARATION OF RADIOPHARMACEUTICALS 11 Preparation Of Radiopharmaceuticals (Check box and submit document)	
	We will attach a document that indicates the types of radiopharmaceuticals preparation activities we intend to perform (e.g.; compounding of Iodine-131 capsules, radioiodination, and technetium-99m kit preparation).	
SEI	RVICE ACTIVITIES	
Item	12 Service Activities (Check box and submit procedure)	
	We will submit specific procedures for all radiation protection services that we intend to provide to other licensees (e.g. customers).	
FA	CILITIES AND EQUIPMENT	
Iten	13 Facilities And Equipment (Check boxes and attach diagram.)	
	We will provide copies of a license from the State Board of Pharmacy; or evidence that we are operating as a nuclear pharmacy within a state medical institution.	
	Note: There may be a jurisdiction that does not recognize the practice of commercial radiopharmacy. In these cases, the applicant must submit evidence that it is registered or licensed with the FDA as a drug manufacturer.	
	AND	
	We will provide a description of the facilities and equipment to be made available where radioactive material will be used. A diagram should provide be submitted showing the entire facility and identify activities conducted in all contiguous areas surrounding the facility. Diagrams should be drawn to specified scale, or dimensions should be indicated. For additional information refer to VAREG 'Guidance for Commercial Radiopharmacy'. (Description is attached)	
RA.	RADIATION SAFETY PROGRAM	
Iten	ı 14 Radiation Safety Program	
Iten	14.1 Audit Program	
	The applicant is not required to, and should not, submit its audit program to the agency for review during the licensing phase. This matter will be examined during an inspection.	
Item	14.2 Radiation Monitoring Instruments (Check one box)	
	We will use equipment that meets the radiation monitoring instrument specifications and implement the survey meter calibration program published in Appendix J of VAREG 'Guidance for Commercial Radiopharmacy'.	
	OR	
	We will use equipment that meets the radiation monitoring instrument specifications published in Appendix J of VAREG 'Guidance for Commercial Radiopharmacy', and instruments will be calibrated by licensees authorized by VDH, the NRC or another Agreement State.	
	OR	
	We will provide a description of alternative equipment to be used for radiation monitoring and alternative procedures for the calibration of radiation monitoring equipment. (Procedures are Attached)	

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Item	14.3 Material Receipt And Accountability (Check all boxes and submit documents)		
	We have developed, and will implement and maintain, written procedures for safely opening packages that meet the requirements in 12VAC5-481-900.		
	AND		
	We will conduct physical inventories of sealed sources of licensed material at intervals not to exceed 6 months.		
	AND		
	We have developed, and will implement and maintain written procedures for radioactive material accountability and control to ensure that:		
	 License possession limits are not exceeded; Radioactive material in storage is secured from unauthorized access or removal; Radioactive material not in storage is maintained under constant surveillance and control; and Records of receipt, transfer, and disposal of licensed material are maintained. 		
Item	14.4 Occupational Dosimetry (Check all that apply)		
	We will provide dosimetry processed and evaluated by a NVLAP-approved processor that is exchanged at a frequency recommended by the processor.		
	AND / OR		
	We will maintain for inspection by the agency, documentation demonstrating that unmonitored individuals are not likely to receive, in one year, a radiation dose in excess of 10 percent of the allowable limits in 12VAC5-481-640.	a	
Item	14.5 Public Dose		
	No response is required, in this license application, however the licensee's evaluation of public dose will be examined during an inspection.		
Item	14.6 Safe Use Of Radionuclidies And Emergency Procedures (Check box and submit procedures)		
	We will develop, implement and maintain safe use of radionuclides and emergency procedures that meets the criteria in the section titled 'Safe U of Radionuclides and Emergency Procedures' in VAREG 'Guidance for Commercial Radiopharmacy'.	se	
Item	14.7 Surveys (Check one box)		
	We will survey our facility and maintain contamination levels in accordance with the survey frequencies and contamination levels published in Appendix R of VAREG 'Guidance for Commercial Radiopharmacy'.		
	OR		
	We will develop, implement and maintain written procedures for a survey program that specifies the performance of radiation and contamination level surveys in restricted and unrestricted areas, personnel contamination monitoring, action levels, and the frequencies and records maintenance those surveys and monitoring that meet the requirements in 12VAC5-481-100, 12VAC5-481-750 and 12VAC5-481-1000. (Procedures attached	of	
Item	14.8 Dose Calibrator And Other Dosage Measuring Equipment (Check all that apply and submit documents)		
	We will describe the types of systems (measurement or combination of measurement and calculation) that we intend to use for the measurement of alpha-beta, and photon-emitting radioactive drugs.	of	
	AND		
	We will develop, implement and maintain a written procedure for the performance of dose measurement system checks and tests that meet the requirements in 12VAC5-481-480 I.		
	AND EITHER		
	We will provide, if applicable, a sample calculation for determining beta-correction factors for dose calibrators with ionization chambers.		
	OR		
	We will include, if applicable, a means for ensuring the accuracy of beta-correction factors supplied by the instrument manufacturer, or other enti-	ity.	
Item	14.9 Radioactive Drug Labeling For Distribution (Check both boxes)		
	We will describe all labels, indicating the colors to be used, that will accompany the products and describe where each label is placed (e.g. on the "transport radiation shield" or the container used to hold the radioactive drug); (Description is attached)		
	AND		
	Agree to affix the required labels to all "transport radiation shields" and each container used to hold the radioactive drugs.		

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	Item 14.10 Radioactive Drug Shielding For Distribution (Check box)		
П	For each drug to be distributed, we will (except for products intended for redistribution without manipulation and in the manufacturer's original shipping package):		
	 Indicate the radionuclide and the maximum activity for each type of cont Describe the type and thickness of the "transport radiation shield" provid Indicate the maximum radiation level to be expected at the surface of eac container is filled with the maximum activity. 	led for each type of container; and	ug
	OTE: It is not acceptable to State that the applicant will comply with DOT regulations. The package, not the surface of the "Transport Radiation Shield."	The dose rate limits that DOT imposes apply to the sur	rface of
Item	em 14.11 Leak Test (Check one box)		
	Leak tests will be performed by an organization authorized by VDH, the NRC or another Agreement State to provide leak testing services to other licensees; or by using a leak test kit supplied by an organization licensed by VDH, the NRC or another Agreement State to provide leak test kits to other licensees according to kit supplier's instructions.		
	License number of organization authorized to perform or analyze leak test (Specify whether VDH, NRC, or another Agreement State):		
	Organization Name: License Number: Issuing Agency:		
	Note: An alternate organization may be used to perform or analyze leak test, without amending the license, provided the organization is specifically authorized by VDH, NRC or another Agreement State.		
	OR		
	We will perform our own leak testing and sample analysis. We will follow the proceed Radiopharmacy'.	dures in Appendix L of VAREG 'Guidance for Comm	ercial
	OR		
	We will submit alternative procedures. (Procedures are attached)		
WA	ASTE DISPOSAL AND TRANSFER		
Item	em 15 Waste Disposal And Transfer		
Item	em 15.1 Waste Management (Check box and submit procedure)		
	We will develop, implement and maintain procedures for waste collection, storage and disposal by any of the authorized methods described in the section titled 'Waste Management' of VAREG 'Guidance for Commercial Radiopharmacy'. We will contact VDH for guidance to obtain approval of any method(s) of waste disposal other than those discussed in the section titled 'Waste Management' of VAREG 'Guidance for Commercial Radiopharmacy'.		
Item	em 15.2 Returned Waste From Customers (Check one box)		
	We will follow the procedures for returned waste from customers in Appendix S of VA	AREG 'Guidance for Commercial Radiopharmacy'.	
	OR		
	We will develop, implement and maintain procedures for returned waste from customers, that will meet the criteria in the section titled 'Returned Waste from Customers' in VAREG 'Guidance for Commercial Radiopharmacy'. (Procedures are attached)		
SPE	PECIFIC LICENSE FEE		
Item	em 16 License Fees (Refer to 12VAC5-490)		
Categ	Amount Enc	losed	
CER	ERTIFICATION (To be signed by an individual authorized to make binding co	ommitments on behalf of the applicant.)	
ltem	em 17	-	
I hereby certify that this application was prepared in conformance with 12 VAC 5-481 'Virginia Radiation Protection Regulations' and that all information contained herein, including any supplements attached hereto, is true and correct to the best of my knowledge and belief.			
SIGN	GNATURE - Applicant Or Authorized Individual	Date signed	
Print	int Name and Title of above signatory		