DEPARTMENT OF HEALTH SERVICES

STATE OF WISCONSIN

Bureau of Environmental and Occupational Health Radiation Protection Section (608) 267-4797

Division of Public Health F-45012 (Rev. 05/10)

APPLICATION FOR A RADIOACTIVE MATERIAL LICENSE FOR A NUCLEAR PHARMACY

The Wisconsin Department of Health Services 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. Refer to WISREG "Guidance for Radiopharmacies." Use supplementary sheets where necessary. Retain one copy and submit original of the entire application to the State of Wisconsin, Department of Health Services, P.O. Box 2659, Madison, WI 53701-2659

APPLICATION TYPE				
Item 1 Type Of Application (Check one box)				
New License Renewal, License Number				
CONTACT INFORMATION				
Item 2 Name And Mailing Address Of Applicant:	Item 3 Person To Contact Regarding Application:			
Amuliantia Talambana Niumban (Ingluda Araa Cada).	Contactic Telephone Number (Include Area Code):			
Applicant's Telephone Number (Include Area Code): () - x	Contact's Telephone Number (Include Area Code): () - x			
LOCATION OF RADIOACTIVE MATERIAL	() A			
Item 4 Address(es) Where Radioactive Material Will Be Used Or P	ossassad (Do not use Post Office Roy):			
Address	Telephone Number (Include area code)			
	() - x			
, - Address	Telephone Number (Include area code)			
Address	() - x			
	, , , , , , ,			
, -				
RADIATION SAFETY OFFICER Item 5 Radiation Safety Officer (RSO) (Check all that apply and atta	ah avidance of training and experience)			
(Check all that apply and atta	chi evidence or training and expenence)			
NAME	TELEPHONE NUMBER: (x x			
NAME:	(Include area code)			
We will submit an organizational chart describing the managemen	at structure, reporting paths, and the flow of authority between			
We will submit an organizational chart describing the management structure, reporting paths, and the flow of authority between executive management and the RSO.				
AND E	THER			
A copy of the license (DHS, 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 t	hat the proposed RSO is qualified by training and experience as			
	'Guidance for Radiopharmacies' should be used in documenting and			

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AUT	AUTHORIZED NUCLEAR PHARMACIST		
Item	Item 6 Authorized Nuclear Pharmacist (ANP) (Check all that apply and attach evidence of training and experience)		
NAM	NAME: Telephone Number (Include area code): () x		
	We	will provide a copy of the state pharmacy licensure or registration for each pharmacist.	
		AND ONE OF THE FOLLOWING	
		We will provide the previous license number (if issued by DHS) or a copy of the license (if issued by the NRC or an Agreement State) on which the individual was specifically named ANP.	
		OR	
		We will provide a copy of the permit maintained by a licensee of broad scope on which the individual was specifically named ANP.	
		OR	
	We will provide a copy of the certification(s) for the radiopharmacy board(s) approved by DHS. OR		
		We will provide a description of the training and experience specified in s. DHS 157.61(9)(b) 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 above training and experience as specified in s. DHS 157.61(9) has been completed and that the individual has achieved a level of competency sufficient to independently operate a nuclear pharmacy.	
AUT	HOF	RIZED USERS	
Item	7 Au	thorized Users (AU) (Check all that apply and attach evidence of training and experience)	
	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 (DHS, the NRC or an 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 licensee of broad scope 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 by training and experience to use the requested licensed materials is attached. Appendix G in WISREG 'Guidance for Radiopharmacies', may be helpful in describing the training and experience required.	
TRA	ININ	G FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS	
Item	8.1 C	Occupationally Exposed Workers And Ancillary Personnel (Check box)	
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 F	Personnel Involved In Hazardous Materials Package Preparation And Transport (Check box)	
	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)		
RADIOACTIVE MATERIALS			
ltem	9 Ra	dioactive Material (Attach additional pages if necessary)	
Item	9.1 F	Radioisotope(s)	

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Item 9.2 Chemical/Physical Form of radioisotopes requested.		
Annual contains and for the distributed distributed and the distributed distributed and the distributed distribute		
Are open containers of potentially volatile materials (lodine-131) manipulated at this location?	☐ Yes ☐ No	
Are cooled courses used at this leasting?	If yes, process and engineering controls must be described.	
Are sealed sources used at this location?	Yes No	
N	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	Number of sealed sources requested.	
Item 9.4 Device Manufacturer or Distributor and Model Number	of devices requested.	
Item 9.5 Sealed Source Device Registration Sheet Number of se	ealed sources requested.	
Is Depleted Uranium used as a shielding material?	Yes No	
	If yes, specify the total amount (in Kilograms)	
Item 9.6 Maximum possession limit for each radioisotope requ	ested.	
Item 9.7 Proposed use for each radioisotope requested.		
item 9.7 Proposed use for each radioisotope requested.		
PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL E	BE USED	
Item 10 Distribution And Redistribution Of Licensed Materials		
Item 10.1 Radiopharmaceuticals (Check both boxes)		
Confirm that radiopharmaceuticals will be prepared under the pursuant to s. DHS 157.13(4)(i), DHS 157.13(1)(j), or under ed	supervision of an ANP or will be obtained from a supplier authorized quivalent NRC or Agreement State requirements;	
	AND	
We will describe all licensed material to be distributed or redis	tributed.	
Item 10.2 Generators (Check both boxes if using generators)		
Confirm that the generators will be obtained from a manufacture Agreement State requirements.	rer licensed pursuant to s. DHS 157.13(4)(i), or under equivalent NRC or	
AND		
Confirm that unused generators will be redistributed without of	pening or altering the manufacturer's packaging.	

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Ш	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.		
Note	e: Although redistribution of used generators may be authorized by DHS, DHS approval does not relieve the licensee from complying with applicable FDA or other Federal or state requirements.		
Item	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 s. DHS 157.13(4)(j), or under equivalent NRC or 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.		
Item	10.5 Redistribution Of Calibration And Reference Sealed Sources (Check both 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 s. DHS 157.13(4)(j), or under equivalent NRC or 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 authorized to distribute the prepackaged units for in-vitro tests in accordance with a specific license issued pursuant to s. DHS 157.13(4)(g), or under equivalent license of the NRC or an Agreement State.		
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 both boxes)		
	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 DHS, NRC, or Agreement State regulations that authorize a general license. (s. DHS 157.11(2)(f))		
AND			
	Confirm that the labeling on redistributed prepackaged units for in-vitro tests will conform to the requirements of s. DHS 157.29(1) and s. DHS 157.29(4)		

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PREPARATION OF RADIOPHARMACEUTICALS			
Item	11 Preparation Of Radiopharmaceuticals (Check box)		
	We will indicate the types of radiopharmaceutical preparation activities we intend to perform (e.g. compounding of lodine-131 capsules, radioiodination, and technetium-99m kit preparation). (Document is attached)		
SER	VICE ACTIVITIES		
	12 Service Activities (Check box)		
	We will submit specific procedures for all radiation protection services that we intend to provide to other licensees (e.g. customers). (Procedures are attached)		
FAC	CILITIES AND EQUIPMENT		
Item	13 Facilities And Equipment (Check boxes and attach diagram.)		
	We will provide copies of registration or a license from a State Board of Pharmacy as a 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 nuclear pharmacy. 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 WISREG 'Guidance for Radiopharmacies'. (Description is attached)		
RAD	DIATION SAFETY PROGRAM		
Item	14 RADIATION SAFETY PROGRAM		
Item	14.1 Audit Program		
	The applicant is not required to submit its audit program to DHS 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 WISREG 'Guidance for Radiopharmacies'.		
	OR		
	We will use equipment that meets the radiation monitoring instrument specifications published in Appendix J of WISREG 'Guidance for Radiopharmacies', and instruments will be calibrated by other licensees authorized by DHS, the NRC or an Agreement State to perform that service.		
	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)		
Item	14.3 Material Receipt And Accountability (Check all boxes)		
	We have developed, and will implement and maintain, written procedures for safely opening packages that meet the requirements in s. DHS 157.29(6).		
	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: (Procedures are attached)		
	 License possession limits are not exceeded; Radioactive material in storage is secured from unauthorized access or removal; 		

- Radioactive material in storage is secured from unauthorized access of 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.

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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 EITHER	
	We will implement and maintain a bioassay program. Appendix R in WISREG 'Guidance for Radiopharmacies' should be used in developing your procedures.	
	OR	
	We will maintain for inspection by DHS, 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 s. DHS 157.22.	
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)	
	We will develop, implement and maintain safe use of radionuclides and emergency procedures that meets the criteria in the section titled 'Safe Use of Radionuclides and Emergency Procedures' in WISREG 'Guidance for Radiopharmacies'. (Procedures are attached)	
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 WISREG 'Guidance for Radiopharmacies'.	
	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 of those surveys and monitoring that meet the requirements in s. DHS 157.31; s. DHS 157.25; and s. DHS 157.06.	
Item	14.8 Dose Calibrator And Other Dosage Measuring Equipment (Check all that apply)	
	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.	
	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 s. DHS 157.13(4)(i). (Procedures are attached)	
	AND EITHER	
	We will provide, if applicable, a sample calculation for determining beta-correction factors for dose calibrators with ionization chambers.	
	OR	
Ш	We will include, if applicable, a means for ensuring the accuracy of beta-correction factors supplied by the instrument manufacturer, or other entity.	
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.	
Item	Item 14.10 Radioactive Drug Shielding For Distribution (Check box)	
	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 container (e.g. vial, syringe); 	

- Describe the type and thickness of the "transport radiation shield" provided for each type of container; and
- Indicate the maximum radiation level to be expected at the surface of each "transport radiation shield" when the radioactive drug container is filled with the maximum activity.

NOTE: It is not acceptable to state that the applicant will comply with DOT regulations. The dose rate limits that DOT imposes apply to the surface of the package, not the surface of the "Transport Radiation Shield."

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Item 14.11 Leak Test (Check one box)			
Leak tests will be performed by an organization authorized by DHS, the NRC or an Agreement State to provide leak testing services to other licensees; or by using a leak test kit supplied by an organization licensed by DHS, the NRC or an 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 DHS, NRC, or other Agreement State):		
Organization Name: License Number:			
Note: An alternate organization may be used to perform or analyze leak test, without amending the license, provided the organization is specifically authorized by DHS, NRC or an Agreement State.			
OR			
We will perform our own leak testing and sample analysis. We will follow the Radiopharmacies'.	ne procedures in Appendix L of WISREG 'Guidance for		
OR			
We will submit alternative procedures. (Procedures are attached)			
WASTE DISPOSAL AND TRANSFER	_		
Item 15 Waste Disposal And Transfer			
tem 15.1 Waste Management (Check box)			
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 WISREG 'Guidance for Radiopharmacies'. We will contact DHS for guidance to obtain approval of any method(s) of waste disposal other than those discussed in the section titled 'Waste Management of' WISREG 'Guidance for Radiopharmacies'. (Procedures are attached)			
Item 15.2 Returned Waste From Customers (Check one box)			
We will develop, implement and maintain procedures for returned waste fro 'Returned Waste from Customers' in WISREG 'Guidance for Radiopharmac			
OR			
We will follow the procedures for returned waste from customers in Append	lix S of WISREG 'Guidance for Radiopharmacies'.		
SPECIFIC LICENSE FEE			
Item 16 License Fees (Refer to Wisconsin Administrative Code DHS 157.10)			
Category: License f	ee enclosed (For new applications only) No Amount Enclosed:		
CERTIFICATION (To be signed by an individual authorized to make binding commitments on behalf of the applicant.)			
Item 17			
I hereby certify that this application was prepared in conformance with Chapter DHS 157 "Radiation Protection" and that all information contained herein, including any supplements attached hereto, is true and correct to the best of my knowledge and belief.			
SIGNATURE - Applicant Or Authorized Individual	Date signed		
Print Name and Title of above signatory	<u> </u>		

OPTIONAL: CORRESPONDENCE AUTHORITY

I have delegated correspondence authority for matters pertaining to our Radioactive Materials License to _______.

The designee named here has approval to submit amendment requests concerning this Radioactive Materials License. I understand that license renewal applications must be signed by a member of upper management.

SIGNATURE - Applicant Or Authorized Individual

Date signed