1. Name of individual user:	ampus address: 4. Telephone: idg. And room where material will be used: 6. Nearest Telephone: taterial requested: 6. Nearest Telephone: anopus address: 6. Nearest Telephone: In narrative form please discuss the following. Use additional sheets, if necessary. Proposed use and plan of investigation. (Include a diagram of the laboratory with storage/use locations) Indicate maximum activity per experiment and maximum per year. Procedures to be followed for the safe use of the material requested. Provision state of prevent generation of mixed (losic) wate. Plan for storage of material and red. wates. Plan for storage of material and red. wates. Will the proposed investigation involve the use of : Biohazard: Yes N o Addicate this application for Yes N o Plan for storage of material and red. wates. Will the proposed investigation sources? Yes N o Iodination or storage of radioindinfe? Yes N o Plan for storage of material and red. water. Procedures to be followed by the use of : Biohazard: Yes N o Radioactive gas chromatographic material? Pres N o Franking of material and red. wates. Will the proposed investigation involve the use of : Doftation or storage of radioindifte									
3. Campus address:										
5. Bldg. And room where material will be	used:	6. Nearest Te	elephone:							
7. Material requested: <u>Isotope Half Life Mai</u>	<u>n Radiation(s)</u> <u>Energie</u>	<u>es Form</u>	Possession Limit							
 a) Proposed use and plan of investigation b) Indicate maximum activity per experim c) Procedures to be followed for the safe d) Provisions taken to prevent generation e) Plan for personnel monitoring and rad f) Plan for storage of material and rad. w g) Will the proposed investigation involves Biohazards: Yes No Animals 	n. (Include a diagram of the lat ment and maximum per year. to use of the material requested. to of mixed (toxic) waste. liation protection. wastes. we the use of : s? Yes \square No \square P-32?	boratory with	storage/use locations)							
Iodination or storage of radioiodine? >100 mCi of tritiated water/Sodium B Radioactive gas chromatograph source For each of the above answered yes, p h) For each person working under this a	Yes \square No \square Forohydride or >24 mCi tritiate es? Yes \square No \square blease respond to the relevant of application list below : name,	questions listed social security	d on the attached questionnaire.							
<u>Name</u> <u>Job Title</u>	Birth Date	Date of L	ast Rad . Training							
Health Physics Evalution	Campus Review									
Date received:	Date received:		Applicant named in item							
Date Evaluated:	Date approved:		Applicant nameu in item							
Risk-level classification:										
Health Physicist responsible:	Committee chairman	ydride or >24 mCi tritiated organic material? Yes No Yes No respond to the relevant questions listed on the attached questionnaire. eation list below : name , social security number, on/training and job classification. (Use supplemental sheets if necessary) Birth Date Date of Last Rad . Training npus Review e received: Applicant named in item								

9.	Training and experience of user Type of training	Where trained	Dur	ation	<u>0</u>	n-the job	<u>Formal</u>
				raining		·	Course
a)	Principle s and practices of radiation protection						□ □ Yes No
b)	Radioactivity measurement techniques and instruments				-		□ □ Yes No
c)	Mathematics basic to measurement of radioactivity				-		□ □ Yes No
d)	Biological effects of radiation				-		The second secon
10	Experience with radiation sources:	(Actual use or equ	uivalent expe	rience)			
					Durat	tion (dates)	Type of use
	DESCRIPTION (OF EQUIPMENT	AND FAC	LITIES FO	R RADIAT	TION SAFETY	<i>X</i>
F	Radiation Detection Instruments: (U	se supplemental sh	neets if neces		Window		
(1	Type of Instrument	Number	Radiation	range	thickness	M	Use
radiation protection Yes No Yes No b) Radioactivity measurement techniques and instruments Image: Comparison of the co			(irveying,measuring)				
	Method, frequency, and standards	s used in calibrating	g instruments	s listed above	e:		
	Special facilities :						

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Questionnaire

If work will involve the use of biohazards, describe:

- 1. Biohazards/safety procedures/special waste handling
- 2. Experimental procedures to be used under this application
- 3. Radiation safety procedures to be used under this application

If the user plans to receive radionuclides via transfers form other users, list the following data for each such source(s) of radionuclides.

1. Name and address of source

- 2. Radionuclide
- 3. Annual activity to be received

If the user plans to transfer radionuclides to other users, list the following data for each recipient.

- 1. Name and address of recipient
- 2. Radionuclide
- 3. Annual activity to be transferred

If live animals will be used list/describe the following for all animals to be used.

- 1. Animals type (s)
- 2. Radionuclides used
- 3. Location where any live radioactive animals will be kept
- 4. Who will provide care for the animal(s)
- 5. All procedures related to animal use/Disposal

If you plan to iodinate or store radioiodine, list /describe the following for iodinations or storage with greater then 5 mCi/container.

1. Radionuclides involved

- 2. Maximum activity in any container
- 3. Storage /iodination building and room
- 4. Individuals who will be doing iodination or handling > 10 mCi/container
- 5. Procedures followed; include estimates of tagging efficiency

If > 100 mCi tritiated water/sodium borohydride or >25 mCi tritiated organic material will be used list the following:

- 1. Maximum activity in any container
- 2. Storage /Usage building and room
- 3. Individuals who will be handling such material

If P-32 will be used, list /describe the following .

- 1. All procedures used to minimize /detect contamination
- 2. All procedures used to minimize exposure (including use of Plexiglas shields)
- 3. Maximum activity in any stock solution
- 4. Maximum activity in any other container storing P-32 solution or waste
- 5. Storage/Usage building and room
- 6. Individuals who will be handling > 0.1 mCi or P-32

If you plan to use radioactive gas chromatograph source, list for each one :

Isotope, location, calibration date, manufacturer, model number, serial number, and date last leak test was done.