## APPLICATION FOR NEW INVESTIGATORS PURCHASE AND USE RADIATION

Last Na	me	First	Gender	SS#	DOB
Departn	nent	Office room #	Building		Phone#
E-mail Address		Your Job	Title		
Masters  RADIATIO	ON USE: (plea	M.D Otherse check all that you	expect to wor	k with within 1	12 months)
H-3	_ C-14 P	-33 S-35 Ca	ner a-45 Fe-5	5 Other	needed) (no badge and ring)
Analytic Cesium Other: _	Blood Cell Irra	Medical X-ray Vediator Biologic	al x-ray irradi  ADIATION: Radion	ator Electro	X-rayon Microscope Activity used
LIST RAD Year		TURES/COURSES Y		ATTENDED: opics	
			-		ng, waste disposal, etc.)
Number: _			Exp. Date	·	

# HOW DO YOU FEEL ABOUT WORKING WITH RADIATION? No Concerns My Concerns are: PRIOR RADIATION DOSIMETER USE: Did you wear a whole body badge and/or ring at **another** institution? Yes\_\_\_\_\_ No\_\_\_\_ If you did, please fill out the attached **Radiation Exposure History** form. PRIOR AUTHORIZATION: Were you authorized or licensed as a principle investigator to purchase and use radioactive materials or radiation producing devices? No\_\_\_\_ Yes\_\_\_\_ Attach a copy of any documentation relative to your previous authorization. If none, please fill out the following information: Institution: City: \_\_\_\_\_ State: \_\_\_\_ Zip Code: \_\_\_\_ **CURRENT PERSONNEL:** List persons currently on your staff or students that will handle radioactive materials or use radiation producing devices under your authorization: *Note:* Each person must get authorized to use radiation if they have not already done so. **RADIOACTIVE WASTE DISPOSAL:** Identify the types of radioactive waste that you expect to generate: Dry solids (paper, plastic, glass, gloves, etc.) Bulk liquids [ ] Animal carcasses [ ] Liquid Scintillation vials If using short half-life (less then 90 days) radioactive materials do you plan to store the waste in your lab until it decays to "background"? No \_\_\_\_ Yes\_\_\_\_

Est. annual expendituated attached)	res for radioactive v	waste disposal?	(cu	rrent price list
LOCATION OF RA Identify the room(s) a Room #		radiation will be used. Shared	Is This I Lab Space?	Shared With?
		[ ]N	o [ ] Yes	
		[ ] N	o [ ] Yes	
		[ ]N	o [ ] Yes	
		[ ] N	o [ ] Yes	
Who will be responsib	ole for contamination	on surveys in your labs? _		
Manufacturer	Model  —  or RADIATION F	PRODUCING DEVICES  a possession limit.  Radionuclid	etor S: e Reque	ested Limit curies)
1		4		
2		5		
3		6		
Device	Тур	st the device(s) and type(s	Locat	ion
The above radiation w	vill be administered			

[ ] live humans	[ ] human tissue	
[ ] other (describe):		
Briefly describe the purpose for us	sing radiation in your research:	
I agree to follow all procedures in	n the <b>RADIATION SAFETY HANDBOOK</b> as well as all	l other
applicable documents indicated by		
Signature, Investigator	Date	
FEMALE APPLICANTS		
I received a copy of the University "Instruction Concerning Prenatal	y of Vermont's Pregnancy Policy entitled; Radiation Exposure".	
Signature, Applicant		
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## FOR RSO USE ONLY

	No Whole Body Badge Needed			
	Whole Body Badge Needed:			
	Landauer Series #			
	Whole Body Badge			
	Ring (Finger) R hand L hand			
	Size: Small Medium Large			
	Pelvic			
	Ankle			
	Neutron			
Se	end for Whole Body Badge History			
A	dd to PIF Data Base			
RK: _	Met On			
TK: _	Met On			
KB: _	Met On			
LI: _	Memo to Investigator re this user			

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A: UNSEALED RADIATION SOURCES	B: CESIUM-137 IRRADIATOR
Date Exam PassedExam Score:	I reviewed the SOP for the Cs-137 Gammacell irradiator with the applicant.
Certificate Number:	RSO signature Date
	This person was trained and tested by me and completed all requirements on:
	* Pat O'Neill Date
	* please sign and return to the RSO, 004 Rowell
C: IODINATIONS	D: RADIATION PRODUCING DEVICE
I reviewed the SOP for iodinations with the applicant and the iodination exam was taken and reviewed.	I reviewed radiation safety practices for radiation producing device users with the applicant.
RSO signature Date	RSO signature Date

\* Supervisor's signature

\* please sign & return to the RSO, 004 Rowell

Date

Date

Applicant's signature

### RADIATION EXPOSURE HISTORY REQUEST FORM

PHONE: 802-656-2570 FAX: 802-656-8876

TO:	Radiation Safety Office	
	mpliance with the Code of Federal Regula	itions, Title 10, Part 19, please mail or fax the
	Name:	
	Social Security Number:	
	Date of Birth:	
	Employed From: to	
to the	e following:	
	Keddy Bharathan, Associate Director Radiation Safety Office University of Vermont 106 Carrigan Drive Room 004 Rowell Building Burlington, VT 05405	
	eby authorize the release of my radiation eation Safety Office:	exposure history to the University of Vermont
Signe		Date

Phone: 656-2570, FAX: 656-8876

#### RADIOACTIVE WASTE DISPOSAL PRICE LIST

(as of 7/1/04)

## **Liquid Scintillation Waste: (Vials or Bulk Liquid)**

- A. Exempt Category scintillation fluid with  $^3H$  or  $^{14}C$  ( $\leq 0.05$  uCi/ml)
- B. Mixed Category scintillation fluid with isotope  $\leq 109$  day half-live
- C. Regulated Category in biodegradable scintillation fluid  $\geq$  110 day half-live

Vial Size	Exempt	Mixed / Regulated
4 ml	\$12.60 /100 vials	\$48.50 /100 vials
6 ml	\$21.35 /100 vials	\$72.75 /100 vials
7 ml	\$24.25 /100 vials	\$85.35 /100 vials
10 ml	\$34.90 /100 vials	\$122.30 /100 vials
20 ml	\$69.85 /100 vials	\$244.45/ 100 vials

#### D. Bulk Liquid Scintillation Fluid

Exempt, Organic Scintillation Fluid	\$24.25 /gallon
Mixed/Regulated, Organic Scintillation Fluid	\$169.75 /gallon
Exempt/Mixed/Regulated, Biodegradable Fluid	\$77.60 /gallon

## Waste Stored For Decay: Isotopes with a half-life less than 90 days stored for decay.

Isotopes	Solid Lab Trash	Bulk Liquid
P-32 or half-lives $\leq$ 14 days	\$ 7.10 /gallon	\$ 9.75 /gallon
Cr-51, I-125 or half-lives between 14-65 days	\$12.60 /gallon	\$14.70 /gallon
S-35 or half-lives between 65-90 days	\$15.80 /gallon	\$17.85 /gallon

Incineration of Decay-in-Storage: (When decayed by labs) - \$1.65 /pound

## **Long-Lived Waste:** All isotopes with a half-live greater than 90 days.

Category	Cost
Dry Lab Trash	\$58.20 /gallon
Bulk Liquid (non-hazardous)	\$77.60 /gallon
Animal Carcasses / Biological Tissue	\$58.20 /gallon

Please call the RSO at 656-2570 to make an appointment for a waste pickup.