

Virginia Commonwealth University
Guidelines for Training and/or Experience for Non-Human Use Investigators

Level I: If the investigator is requesting approval for quantities of radioactive material at or below the exempt quantity levels listed in 10 CFR 30.71, Schedule B, the investigator will be required to successfully complete the on-line Radiation Safety training and test before work with radioactive material commences.

Level II: Approval for quantities of radioactive material at the exempt quantity to ten (10) times the exempt quantity level will require that the investigator enroll in the 15-hour Radiation Safety Short Course (BIOC 510) **and/or** have equivalent training **and/or** experience in radioisotope use. In addition, the investigator will be required to successfully complete the on-line Radiation Safety training and test.

Level III: Investigators requesting approval for quantities greater than ten (10) times the exempt quantity level will be required to enroll in the 15-hour Radiation Safety Short Course (BIOC 510) or have equivalent training **and** have previous experience using the isotopes and quantities requested. In addition, the investigator will be required to successfully complete the on-line Radiation Safety training and test.

Radioisotope	Level I Activity (mCi)	Level II Activity (mCi)	Level III Activity (mCi)
H-3	1.0	≤10.0	>10.0
C-14	0.1	≤1.0	>1.0
F-18	1.0	≤10.0	>10.0
Na-22	0.01	≤0.1	>0.1
Na-24	0.01	≤0.1	>0.1
P-32	0.01	≤0.1	>0.1
S-35	0.1	≤1.0	>1.0
Cl-36	0.01	≤0.1	>0.1
Ca-45	0.01	≤0.1	>0.1
Cr-51	1.0	≤10.0	>10.0
Co-57	0.01	≤0.1	>0.1
Cu-64	0.01	≤0.1	>0.1
Mn-54	0.01	≤0.1	>0.1
Fe-55	0.1	≤1.0	>1.0
Fe-59	0.01	≤0.1	>0.1
Zn-65	0.01	≤0.1	>0.1
Ge-68	0.01	≤0.1	>0.1
Tc-99m	0.1	≤1.0	>1.0
Cd-109	0.01	≤0.1	>0.1
In-111	0.1	≤1.0	>1.0
I-123	0.1	≤1.0	>1.0
I-124	0.0001	≤0.001	>0.001
I-125	0.001	≤0.01	>0.01
I-131	0.001	≤0.01	>0.01
Cs-137	0.01	≤0.1	>0.1
Ce-141	0.1	≤1.0	>1.0
Tl-201	0.1	≤1.0	>1.0