

### 4.1.4 NUCLEAR SUBSTANCE ROOM DECOMMISSIONING FORM

The permit holder shall ensure that prior to decommissioning any area, room or enclosure where the permitted activity has been conducted: non-fixed contamination does not exceed 0.3 Bq/cm<sup>2</sup> for all class A radionuclides and 3 Bq/cm<sup>2</sup> for all class B & C radionuclides (see classification of selected radionuclides in the section 4.5 of UWO radiation safety manual.); averaged over an area not exceeding 100 cm<sup>2</sup>. Any area, room, or enclosure containing fixed contamination must be reported to the Radiation Safety Coordinator.

Permit Holder: \_\_\_\_\_ Permit Number: \_\_\_\_\_

Room Number/Building \_\_\_\_\_

Performed By: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

<i>1. Removal of required Postings/Signs:</i>	<i>Completed</i>		
1. Internal permit	Y	N	N/A
2. CNSC safety poster(s)	Y	N	N/A
3. UWO waste label(s)	Y	N	N/A
4. CNSC licence (if applicable)	Y	N	N/A
5. Entry door warning sign	Y	N	N/A
<i>2. Other labels:</i>			
1. Refrigerator/freezer label	Y	N	N/A
2. Storage areas	Y	N	N/A
3. Tape surrounding workstation	Y	N	N/A
4. Pipettors	Y	N	N/A
5. Other lab equipment	Y	N	N/A
<i>3. Inventory: records completed, all stock vials, sources, aliquots etc. disposed</i>	Y	N	N/A
<i>4. Radioactive Waste:</i>			
1. Dispose of all remaining waste	Y	N	N/A
2. Check frig/freezer & dispose of all labeled contents	Y	N	N/A
3. Return pails to Environmental Safety Personnel	Y	N	N/A
<i>5. Dosimetry: Inform the TLD badge coordinator to remove name(s) from from radiation exposure monitoring list (if applicable)</i>	Y	N	N/A

6. Radiation Measuring Instruments (e.g. Liquid Scintillation Counter): Will these be disposed or transferred to someone else (identify all)? Provide details below:

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### Contamination Monitoring Results

Provide a floor plan of the lab/area to be decommissioned. Indicate the locations of wipe test on the floor plan by a representative number and record results in the table below.

Radionuclides being sampled and monitored for:

Iodine 125                      Carbon 14                      Chromium 51  
 Hydrogen 3                      Sulfur 35                      Calcium 45  
 Phosphorous 32                Phosphorous 33                Other(s) \_\_\_\_\_

**Measurement Method:**

Counter (type, make and model): \_\_\_\_\_

Calibration Date: \_\_\_\_\_ Background in cpm: \_\_\_\_\_

Minimum detector efficiency E: (for example 35% efficiency, E = 0.35) \_\_\_\_\_

Area sampled on the attached floor plan	Gross counts in cpm	Net count in cpm (Gross counts – Background counts)	Contamination level in Bq/cm <sup>2</sup> (Net counts in cpm)/(E x 600)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Please attach any additional area sampled on the floor plan if required

Potential fixed contamination is measured using an appropriate contamination meter at the above locations. Any measured location that is higher than the background level must be reported to the Radiation Safety Coordinator.

Potential radiation field is measured with calibrated dose rate meter. If the radiation field is above the background, the source of radiation must be removed until the radiation field is equal to the radiation background level.

Meter(s) used: \_\_\_\_\_

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Permit Holder's signature

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Radiation Safety Coordinator's signature