



## **Laboratory Radiation Safety Inspection Checklist**

Permit Holder:	Permit No	Permit Status	
Building:	Department	Room(s)	
Auditor:	Date	Signature	
Other _	evel Laboratories	Intermediate Level Laboratory	
Radiation Safety Management			
1.1 Signs & Postings: There are appropriate CNSC spill procedures and guidelines f			
Compliant   Non-Compliant	Comments:		
1.2 Food & Drink: There is no evidence of any food/drink consumption in designated radiation work areas or rooms			
Compliant   Non-Compliant	Comments:		
1.3 Permit & Active Users: There is a valid permit posted in the lab. A list of authorized radiation users is available in the 'radiation folder'. If the permit is in 'Dormant Status', it is indicated in the 'radiation folder'. Radioisotopes in use in the designated lab are according to the valid permit.			
Compliant   Non-Compliant	Comments:		
1.4 Dosimetry: All personnel handling high energy beta particles & gamma emitters are wearing their assigned TLD badges when applicable. The badges are stored in an appropriate location and manner.			
Compliant   Non-Compliant	Comments:		
1.5 Dose Limit & Thyroid Screening: The PI is aware of Effective Dose limits and University of Guelph's Action level. Users of radioiodine such as I-125/I-131 are participating in thyroid screening if necessary.			
Compliant   Non-Compliant	Comments:		
1.6 Fume Hood: Fume hoods have had their performance verified within one year.			
Compliant   Non-Compliant	Comments:		
1.7 Radiation Instrument: Survey meters (portable) are in good condition and have been calibrated within one year.			
Compliant   Non-Compliant	Comments:		
<ul> <li>1.8 Area Posting:</li> <li>a) Active work stations, containers, storage areas, pipets, fridges etc. are labelled with appropriate radiation tape.</li> <li>b) There is no 'Frivolous Posting' of radiation warning signs on items, boxes, vials or areas where there is no</li> </ul>			
nuclear substance or radiation device	2 2	,	
Compliant Non-Compliant	Comments:		





## 1.9 Contamination:

a) Contamination monitoring is performed and recorded in the 'Radiation Folder' using the U of G monthly monitoring form. Records are easily accessible in the designated labs.

	Bq/cm <sup>2</sup> and is performed within seven (7) days after working with		
	s performed it is clearly recorded in the form. nitoring of work station and hands/clothing is performed		
immediately after working with isotopes.			
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Compliant Non-Compliant	Comments:		
1.9.1 Contamination Monitoring & Wipe Test			
a) Are Liquid Scintillation Counters (LSC) us	sed: Yes: □ No: □		
If Yes: Room Location for Counter: Condition of Counter;			
b) PI and radiation users are correctly and e. Manual.	ffectively conducting wipe tests as per the Radiation Safety		
c) Locations for contamination monitoring & in the "Radiation Folder".	k wipe tests are clearly labelled on the map and the records are kept		
d) Contaminated areas are cleaned and re-me	onitored.		
Compliant Non-Compliant	Comments:		
Inventory			
<b>2.0 Inventory:</b> All nuclear substances in storage or in use have inventory records. The total amount of activity for a radionuclides in use is tracked and known. If in 'Dormant Status' inventory is properly secured.			
Compliant Non-Compliant	Comments:		
2.1 Fridges: There is an up to date inventory sheet for items in the fridge. If the fridge has a locking mechanism,			
it is kept locked when not in use. Items no longer in use are disposed.			
Compliant   Non-Compliant	Comments:		
Training and Awareness			
3.0 EHS Radiation Safety Training: All workers including the PI and designated radiation users in the lab have			
	Cety training or refresher training in the last three (3) years.		
Compliant   Non-Compliant	Comments:		
3.1 Radiation Safety Awareness: Non-Radioactive workers in the lab are aware that radioactive sources are			
being used in their work area.			
Compliant Non-Compliant	Comments:		
Purchasing			
4.0 Purchase Records:			
	rchasing is done in accordance with the RSO and purchasing		
department at the University of Gue	•		
	. Proper U of G purchasing methods are followed while		
ordering/cancelling purchase orders. c) PI is aware of their purchasing limits			
Compliant			
	Comments:		
Operations			
<b>5.0 ALARA:</b> Radiation users are conducting experiments keeping the ALARA principle in mind. All users are operating equipment and using nuclear material using best practices. All users are using correct PPE.			
Compliant Non-Compliant	Comments:		





5.1 Change Management: Change in operation including relocation or transfer of radioactive material is in			
consultation with RSO if applicable.			
Compliant Non-Compliant Comments:			
Packaging			
6.0 Packaging:			
a) There is a valid CNSC poster with guidelines for handling packages containing nuclear substances in the			
lab. Users ensure that radioactive packages are delivered to them in good condition.			
b) Any shipping or transport of nuclear substances, radioactive materials, including devices such as LSC or			
ECD are done in consultation and approval from the RSO.			
Compliant Non-Compliant Comments:			
Compliant			
Disposal & Decommissioning			
7.0 Disposal: PI and workers are using the proper SOP for radioactive disposal. Containers for disposal are			
clearly marked and secure. Proper wipe test procedure is followed before disposal. Proper Disposal forms			
are used.			
Compliant			
7.1 Decommissioning: Rooms that are no longer in use for radioactive work have been decommissioned or are in			
the process of decommissioning.			
Compliant			
Security			
8.0 Security: Rooms are locked when not attended. Radiation storage areas are secure and locked. Only			
authorized users are allowed in rooms designated for radioactive use or storage.			
Compliant			
Emergency Preparedness			
9.0 Emergency Info:			
a) Emergency contacts are current and listed clearly. All radiation users are aware of U of G Radiation			
Safety Officers' contact information.			
b) Laboratories have updated CNSC spill posters and they are clearly posted in the lab.			
c) Radiation users are aware and have adequate information on contamination, spill response and reporting			
procedures. The RSO has been notified of any major spills since the last auditing period.			
d) Radiation users are aware of U of G's incident and injury reporting process. The RSO has been notified of any other incidents such theft, lost/damage to radiation devices and or sources.			
Compliant D Non-Compliant D			
Compliant Non-Compliant Comments:			

## **Grading System:**

- A (Exceeds Expectations, Complaint)
- B ( Meets Requirements, Complaint),
- © C (Below Requirements, but low risk),
- <sup>©</sup> D (Significantly below requirements, a follow up-audit will take place),
- E (Unacceptable, Radioactive work will be stopped immediately)