

X-ray Safety Inspection Checklist

Department of Health and Safety

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Date of Inspection:	Inspector:
KED Responsible User:	XED Registration #:
Room Number:	XED NL OHS ID #:

XED Make/ Model:

Inspection	History:
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Deficiencies discovered last inspection (provide inspection date)	Status of Deficiency Correction (corrected, not corrected, other)	

The following inspection checklist is based on the requirements of the Health Canada Safety Code 32: Safety Requirements and Guidance for Analytical X-ray Equipment, and the NL Radiation Health and Safety Regulations.

Inspection Items	Rating	Comments
X-ray Emitting Device (XED) Safety Features		
1. Key lock control switch is installed and functional		
2. Power ON/OFF switch is present and is required to energize equipment		
 X-ray ON/OFF switch is installed and required to energize X-ray tube 		
 4. A guard or interlock which prevents entry of any part of the body into the primary beam path is used (wherever practical) Does it work as intended 		
 Open beam configuration devices equipped with means to prevent access to primary beam 		
 A permanent shield is used to absorb the primary beam transmitted beyond the detector (radiation levels < 4.39 μGy/hr @ 5 cm). 		
 Shielding, diaphragms, cones, and adjustable collimators or any other devices are used to ensure dose limits are not exceeded 		
 All lights, meters, controls and other indicators must be properly labelled and marked as to function. 		
 Fail-safe interlocks installed on accessories/components for which their removal leads to direct access to the primary beam or high radiation area of equipment 		
10. Unused beam ports permanently blocked off with lead		
REGISTRATION OF XED		
11. XED has been registered with Service NLDate of Original Registration		
12. Based on the original registration :a. has the installation and use changed?		
b. has the use of rooms or areas adjacent, horizontally or vertically changed?		
c. has the shielding of x-ray source changed?		
 d. Has any modification of system arrangement (filtration, specimen chamber, collimators, beam ports), major 		

maintenance or relocation of the device been made since after last registration?	
13. XED has been disposed of or transferred off University property	
- If yes date of disposal or transfer	
Signage/Warning lights	
14. Door sign is posted and displays correct contact information	
(Contains "caution x-ray room" signage and "restricted access")	
15. Registration certificate is posted near the XED	
 Registration stickers posted (expiry date?) 	
16. X-ray warning signs are posted conspicuously near XED (map	
location correct), contact names are referenced	
17. Separate fail-safe flashing light indicators are present to indicate	
when X-ray tube is energized <u>and</u> when X-rays are being	
produced	
- for control panels controlling multiple tubes, <u>each</u> tube must be	
equipped with <u>both</u> lights	
18. Control panel has a fail-safe visible indicator, in close proximity to	
the x-ray on/off switch that clearly indicates when x-rays are	
being produced	
19. Fail-safe warning indicators indicating the open/shut status of	
interlocked with X row production	
- Interlocked with X-ray production	
- normally in closed position until opened by positive action	
20. Control papel labeled with:	
20. Control patientabeled with.	
h. Caution: operated by gualified personnel statement	
s. Make model c/n date/sountry of manufacture	
d Somico NL OHS ID stickor	
u. Service NE OHS ID Sticker	
Training	
21. X-ray Users:	
a. Have general X-ray safety training (theoretical and practical) for	
safe operation of XED [provide training date(s)]	
b. have been informed of the characteristics, risk and safe	
practices (is this documented?)	

c. have access to documentation [SOPs-Safety code(s)]	
22. Authorized worker list is up to date and posted near the XED	
23. all users and workers are informed of the applicable dose limits	
24. Pregnant users and workers are informed of the dose limits	
which apply	
Dosimetry	
25. X-ray workers and all users are familiar with the basic principles	
of radiation safety and the "As Low As Reasonably Achievable"	
(ALARA) principle is practiced	
26. Dosimeter badges are worn appropriately, if required (and stored	
in an appropriate location)	
27. Dose limits are not exceeded	
 Any dose above action level is investigated and root cause 	
determined (RSO immediately informed)	
Security/Reporting	
28. Laboratory door is locked when unoccupied	
29. XED is locked when not in use	
30. Unauthorized workers cannot access XED	
31. Security breaches are reported	
32. Any accident / incident resulting in a possible exposure in excess	
of regulatory limits is reported immediately	

<u>Notes</u>

Item #	Action Items	Responsible Person(s)	Due Date
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11.			
12.			
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14.			
15.			

PI:_____

Date: ______

RSO: _____

Date: _____