

Inspection Date	
Divilding and Dagge	
Building and Room	
Health Physics Inventory Number	MUX-
Facility Manager	
Contact Information	
Inspection Performed By	

General inspection items:

Description	Compliance	Comments
Location		
Location of the x-ray machine matches		
the approved plan (room number,		
location within room, etc.)		
X-Ray Machine		
 Ensure there have been no unapproved 		
changes to the x-ray machine, target or		
other components		
Entrance Signage		
 All entrances to the x-ray room have 		
proper signage.		
 Signs are consistent with those issued 		
by Health Physics		
Room Security		
 Entrances are secure. 		
 Doors are kept locked when authorized 		
users are not in attendance.		
 Proper key/password control in place 		
Warning Lights		
 "X-ray ON" light present and functional 		
on the machine		
 "X-ray ON" light present and functional 		
at the entrance to the enclosure (open-		
beam machines only)		



Dosimetry	
 Users have current dosimetry and are 	
wearing their badges (non-cabinet	
machines)	
Environmental dosimeters are in the	
proper location and are current	
(cabinet machines)	
Authorized User List	
List of all current authorized users for	
the machine is posted in the room	
List is up to date	
Safety System Check Records	
Interlock and safety system checks are	
performed quarterly.	
Emergency off devices are tested	
annually	
Records are kept in the room.	
User demonstrates that interlocks and	
safety systems are operational ¹	
SOP	
X-ray machine operating manual or	
other standard operating procedures	
kept in the room for access by users	
Clean Work Area	
No evidence of consumption of food or	
beverages	
Room allows for safe working space for	
using equipment	

¹ For open-beam x-ray machines, safety systems include:

[•] Audible or visual pre-exposure warning (10-30 seconds)

Audible or visual "beam-on" indicators within the enclosure

Appropriate emergency "x-ray-off" devices within the enclosure



Follow-up records review:

Description	Compliance	Comments
Dosimetry		
 All staff on the authorized users lists are assigned dosimetry (if required) Review dosimetry results for the users/area and confirm no Administrative Control Levels (ACLs) have been exceeded 		
Training		
 All staff on the authorized users 		
lists have completed required		
health physics training		

Additional requirements for x-ray machines used on people (Ministry of Health):

Description	Compliance	Comments
Supervision		
 Confirm contact information for Radiation Protection Officer 		
 Confirm contact information for supervisors for the use of the machine, if it is operated other than by medical radiation technologists or a physician 		
QC tests		
 Ensure that quality control tests are performed each day that the machine is used 		



Radiation	Survey:
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Survey Instrument Model	
Serial Number	
Calibration Due	
Background Reading	
Date Survey Performed	
Survey Performed By	

X-ray Machine Operating Characteristics:

Tube Voltage:	
Tube Current:	

Cabinet machines:

For cabinet x-ray machines, survey around all sides of the machine. Record the highest result and the location. The reading at 5 cm from any surface is not to exceed 5 μ Sv/h.

Highest reading	
Location	

Open beam:

Use a diagram to indicate the measurement points. Include the control console and any adjacent rooms/areas. Record the values in the table below.



Dose rate	Notes
	Dose rate