

# Pre-operational safety checks for XRF device

When are safety checks required?

Safety checks are required after installing accessory components to the Emitting Devices (XEDs) and after conducting maintenance on the equipment.

Safety Checks Should Ensure:

- x The proper functioning of all protective and safety devices.
- x The proper assembly and functioning of all radiation shields, beam ports, accessories and fittings.
- x That ambient radiation levels are within the permissible regulatory limit ( $\sim 4.3 \mu\text{Sv/hr}$  at 5 cm from all external surfaces of the equipment) by using an appropriate survey.
- x That any safety bypass procedures are of the one time actuation type and revert to a failsafe situation at startup time of the X-ray generator.