CABINET X-RAY SAFETY PROTOCOL

MUA#: _____________

Principal Investigator: __________________________________________________________ Phone: _______________________

Manufacturer: ________________________________________________________________ Model: _______________________

General Safety Guidelines

1. Only personnel listed on the Machine Use Authorization (MUA) shall operate the X-ray machine unsupervised. All authorized personnel must receive instruction in, demonstrate an understanding of, and pass a test on the operation of the machine before starting work. The principal investigator must document training.

2. Whole body and extremity dosimeters are required for all personnel working with a cabinet X-ray machine.

3. Do not use the safety interlock to turn the machine power off. Use the main switch.

4. Do not override the safety interlock unless a written procedure has been approved by the UC Davis Radiation Safety Committee and is on file in the Office of Environmental Health and Safety/UCDHS Health Physics (EH&S).

5. Make sure the machine power is OFF before changing the sample. Always check the current and voltage meters and/or use a hand held survey meter to detect X-rays.

6. Any operation involving modification of manufacturer installed shielding must be coordinated with EH&S. EH&S must schedule a safety audit subsequent to any modifications.

7. Use of the cabinet X-ray machine must follow the procedures described in the manufacturers’ operating manual and/or the MUA safety protocol. Any variations in those procedures must be approved, in writing, by the UC Davis Radiation Safety Committee.

8. The cabinet X-ray machine must be secured to prevent unauthorized use. This can be accomplished through key control of the room, key control of the machine, human surveillance and/or electrical surveillance.

9. The Principal Investigator must maintain an operating log, which includes the following information:
   a. Date of use
   b. Operator
   c. Voltage and current settings
   d. Duration of use
   e. System modifications

10. Immediately notify EH&S in the event an individual receives any abnormal radiation exposure.

11. Notify EH&S prior to changes in location, acquisition, disposal or transfer of a cabinet X-ray machine.

12. Copies of the California Code of Regulations - Title 17 and the Code of Federal Regulations - Title 10 are available at EH&S.

IN THE EVENT OF AN EMERGENCY CALL 911
OFFICE OF ENVIRONMENTAL HEALTH & SAFETY 752-1493
UCDHS HEALTH PHYSICS 734-3355