License Conditions

CEPHALOMETRIC X-Ray Equipment

Following the International and/or Canadian "Radiation Protection in Dentistry Recommended Safety Procedures for Dental X-Ray Equipment (Safety Code 30), the Licensee will comply with the following conditions:

1. The operator shall keep a distance of at least three meters from the x-ray tube during radiography.

2. All x-ray equipment shall be calibrated and kilo voltage accurate.
   (a) Radiography shall be done with calibrated equipment using an acceptable technique.
   (b) The irradiation times and kilo voltage shall be accurate.

3. Leakage radiation shall be less than 100 mR in one hour at one meter from the tube.

4. Manual film processing is not recommended. If used, the darkroom shall be well designed and a timer shall be used. Sight developing shall not be done.

5. Radiation leakage outside of the shielded room shall not exceed 7.5µSv/hr.

6. The beam limiting device shall collimate x-rays with light beam within 2% of SID.

7. The size of the radiation beam shall align to the cassette used within 2% of SID.

8. The patient shall be provided with a lead-rubber shielding apron.

9. The radiation dose to the patient shall be within the range of International acceptable values for kilo voltage used.

10. The tube head and arm shall be stable and shall not float, drift or vibrate. The suspension tube of the head shall be stable in all positions so that motion distortion is minimized.

11. Image quality shall be of an acceptable standard.

12. Operator and personnel doses shall fall within the annual recommended dose limits.

13. Radiation protection inspection shall be done bi-annually to verify that:
   (a) The cephalometric x-ray equipment functions properly.
   (b) Equipment is installed in a safe environment and is used in a way that provides maximum radiation safety for patients and operators.