

GUIDE TO BASIC X-RAY REQUIREMENTS

Arkansas State Board of Health - Rules and Regulations for Control of Sources of Ionizing Radiation

A) Required Documentation/Information to be maintained at each facility performing X-ray Procedures:	
1) Arkansas Rules and Regulations or internet access to the same	RH-2802.a.1.

2) Arkansas License or certificate of registration RH-2802.a.2.

3) Operating Procedures RH-2802.a.3.

4) Notice to Employees, ADH FORM X RH-2802.c.

B) Operating Safety Procedures including holding of patients during X-ray Examinations:

1) Safety procedures shall be provided to all operators of equipment RH-1602.a.4.

2) Safety procedures to be implemented when auxiliary support is needed RH-1602.a.8.A.,B.

C) Required for each X-ray Unit:

1) Tube Rating Chart and Cooling Curves from manufacturer, RH-1602.a.12.D. Post near machine

2) Scale Room Drawing, maintain in the x-ray department RH-1602.a.12.F.

3) Technique Chart for Exams, posted near control panel RH-1602.a.3.

4) Patient Log, paper copy or electronic is acceptable RH-1602.a.13.

D) Posting of Area:

1) "Caution Radiation Area" RH-1303.b.

2) "High Radiation Area" where 100 mR/hr is possible RH-1303.c.1.

RH-1100.

E) X-ray System Requirements:

1) X-ray Control shall provide visual indicator RH-1604.b.2.C.

2) Multiple Tube Control must have visual indicator RH-1602.b.6.

3) Warning Label is to be placed on Control Panel RH-1602.b.1.

F) Personnel Exposure Monitoring required for anyone likely to receive 10% of annual limit of 5 rem:

1) Employees/Operators RH-1302.a.1.

2) Minors and Pregnant workers RH-1206., 1207.

RH-1302.a.2.,3.

3) Annual Notification pursuant to Regulation RH-2804.a.,b.

G) Shielding/Protective Requirements:

1) Gonadal Shielding required for patients unless interferes with area imaged RH-1602.a.6.

2) Lead Apron for whole body protection RH-1602.a.5.B.,C.

3) Protective Barrier, operator protection, holding of film or patient RH-1602.a.5.C,8.B.

SPECIFIC TO DENTAL FACILITIES

A) Diameter of useful beam

B) Length of cone or spacer, 18 cm above 50 kVp

C) Exposure Control

RH-1606.b.1.

RH-1606.a.

RH-1606.c.,d.,e.

D) Radiation Protection

Protective Barrier

Operator

Holding of Tube Head

Holding of film, image receptor or patient

RH-1606.e.3.A.

RH-1602.a.2.

RH-1602.a.2.

RH-1606.i.2.

RH-1602.a.8.B.

SPECIFIC TO VETERINARY FACILITIES

A) Radiation Protection

Operator should stand out of useful beam by at least 9 feet RH-1609.c.2. Holding of Film or Animal RH-1609.c.3.

No individual should be required to hold animals or film during exposures. If this is absolutely necessary, however, lead aprons and gloves shall be utilized, and these individuals shall have individual personnel monitoring.