

**EXAMPLE FORM  
EQUIPMENT PERFORMANCE EVALUATION  
VETERINARY RADIOGRAPHIC UNIT  
25 TAC §289.233(i)(5)(N)**

**Facility Name:** \_\_\_\_\_ **Registration No.:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Service Company:** \_\_\_\_\_ **Service Company Registration No.:** \_\_\_\_\_

**Survey Instrument Used:** \_\_\_\_\_ **Calibration/Intercomparison Date:** \_\_\_\_\_

**Technician Signature:** \_\_\_\_\_

**X-RAY UNIT IDENTIFICATION (FROM CONTROL PANEL)**

Manufacturer: \_\_\_\_\_ Location/Room: \_\_\_\_\_

Model No.: \_\_\_\_\_ Serial No.: \_\_\_\_\_

**TIMER ACCURACY**

Pass ( ) Fail ( )

Regulation: The accuracy of the timer shall meet the manufacturer's specifications. If the manufacturer's specifications are not obtainable, the timer accuracy shall be ± 10 percent of the indicated time with the testing performed at 0.5 second. (See 25 TAC §289.233(i)(5)(N)(i)(I))

SELECT ONE:  Manufacturer specifications which are \_\_\_\_\_ **OR**  ± 10% tolerance

Time used for testing \_\_\_\_\_ msec **OR** \_\_\_\_\_ pulses (No time greater than 0.5 second (500 msec) to be used)

Perform four measurements \_\_\_\_\_ msec/pulses \_\_\_\_\_ msec/pulses  
 \_\_\_\_\_ msec/pulses \_\_\_\_\_ msec/pulses

When the timer is set to "zero" or "off", an exposure is not permitted. Y \_\_\_\_\_ N \_\_\_\_\_ NA \_\_\_\_\_

**KVP**

Pass ( ) Fail ( )

Regulation: The accuracy of the kVp shall meet the manufacturer's specifications. If the information is not available, the indicated kVp shall be accurate to within ± 10 percent of the indicated setting at no less than three points over the usual operating range of the machine. (For units with fewer than three fixed kVp settings, the unit shall be checked at those settings.) (See 25 TAC §289.233(i)(5)(N)(i)(II))

Select:  Manufacturer specifications used which are \_\_\_\_\_ **OR**  
 ± 10% of indicated setting

((Measured kVp – Indicated kVp) ÷ Indicated kVp) X 100 = % of Deviation

Indicated kVp \_\_\_\_\_ Measured kVp \_\_\_\_\_ Deviation \_\_\_\_\_ %  
 Indicated kVp \_\_\_\_\_ Measured kVp \_\_\_\_\_ Deviation \_\_\_\_\_ %  
 Indicated kVp \_\_\_\_\_ Measured kVp \_\_\_\_\_ Deviation \_\_\_\_\_ %  
 Indicated kVp \_\_\_\_\_ Measured kVp \_\_\_\_\_ Deviation \_\_\_\_\_ %

## VETERINARY EQUIPMENT PERFORMANCE EVALUATION

Registration No.: \_\_\_\_\_

X-ray unit Serial No.: \_\_\_\_\_

### TUBE STABILITY

Pass ( ) Fail ( )  
Hand Held Unit NA ( )

Regulation: The x-ray tube shall remain physically stable during exposures. (See 25 TAC §289.233(i)(5)(N)(i)(III) )

The tube is stable in all orientations with free movement where designed.

### IF THIS IS A DENTAL X-RAY UNIT USED FOR VETERINARY EXAMINATIONS, OMIT THE COLLIMATION SECTION. Complete this section for all other units.

### COLLIMATION

Pass ( ) Fail ( )

Regulation: See 25 TAC §289.233(i)(5)(N)(i)(IV)

Source to image distance (SID) numerical indicator present.

T \_\_\_\_\_ F \_\_\_\_\_

(Circle inches or centimeters for all testing in this section.)

Indicated SID: \_\_\_\_\_ in/cm x .02 = \_\_\_\_\_ in/cm tolerance

Measured SID: \_\_\_\_\_ in/cm

Misalignment : \_\_\_\_\_ in/cm

Indicator accurate to within 2% of indicated setting.

T \_\_\_\_\_ F \_\_\_\_\_

The beam limiting device must limit the x-ray field so that the field does not exceed 2.0% of the SID for the width or length of a rectangular image receptor (x-ray film).

Image Receptor: width \_\_\_\_\_ in/cm length \_\_\_\_\_ in/cm

X-ray field size: width \_\_\_\_\_ in/cm length \_\_\_\_\_ in/cm

Misalignment: width \_\_\_\_\_ in/cm length \_\_\_\_\_ in/cm

The width or length of the x-ray field does not exceed the image receptor by more than 2% of the SID.

T \_\_\_\_\_ F \_\_\_\_\_

(When using a rectangular image receptor with a circular x-ray field, the diameter of the circular field may not exceed the dimension equal to 2% of the SID plus the diagonal of the rectangular image receptor.)

The beam limiting device is capable of restricting the x-ray field to the area of clinical interest.

T \_\_\_\_\_ F \_\_\_\_\_

What means are used by the facility personnel to center the primary beam to the image receptor?

light field/cross hairs     pointer     other \_\_\_\_\_

The center of the primary beam to the center of the image receptor is within 2% of the SID.

T \_\_\_\_\_ F \_\_\_\_\_

**A written explanation must be provided for any test on this form that cannot be completed.**

**For any failure indicated during the Equipment Performance Evaluation, correction must begin within 30 days of the evaluation date and be completed within 90 days.**

**All records of the corrective action must be retained by the facility, in accordance with 25 TAC §289.233(j)(2), and made available to the Department of State Health Services upon request.**