

**EXAMPLE FORM
EQUIPMENT PERFORMANCE EVALUATION (EPE)
FLUOROSCOPIC UNIT**

Facility Name: _____

Registration No.: _____ EPE Date: _____

Survey Instrument Used: _____

Instrument: Exposed sensor/detector OR Enclosed sensor/detector Calibration Date: _____

X-RAY UNIT IDENTIFICATION (CONTROL PANEL)

Manufacturer: _____ Location/Room: _____

Model No.: _____ Serial No.: _____

MINIMUM X-RAY FIELD SIZE AT MAXIMUM SID

Regulation: 25 TAC §289.227(m)(1)(C)(ii): Equipment with a fixed SID and the capability of a visible area of no greater than 300 cm² shall be provided with either stepless adjustment of the x-ray field or a means to further limit the x-ray field at the image receptor to 125 cm² or less. If the equipment is provided with stepless adjustment, the minimum x-ray field size at the maximum SID shall be less than or equal to 5 cm by 5 cm at the image receptor.

Minimum field size: _____ cm X _____ cm Pass () Fail () N/A ()

Regulation: 25 TAC §289.227(m)(1)(C)(iii): Equipment with a variable SID or a fixed SID with the capability of a visible area of greater than 300 cm² shall be provided with stepless adjustment of the field size. The minimum x-ray field size at the maximum SID shall be less than or equal to 5 cm by 5 cm at the image receptor.

Minimum field size: _____ cm X _____ cm Pass () Fail () N/A ()

X-RAY FIELD AT IMAGE RECEPTOR

Regulation: 25 TAC §289.227(m)(1)(C)(iv): Neither the length nor width of the x-ray field in the plane of the image receptor shall exceed that of the visible area of the image receptor (input phosphor) by more than 3% of the SID. The sum of the excess length and the excess width shall be no greater than 4% of the SID.

CIRCLE INCH OR CENTIMETER

IP SID: _____ (in/cm) IP size: _____ (in/cm)

measured OR calculated field size at IP: _____ X _____ (in/cm)
X-ray field at IP misalignment: _____ X _____ (in/cm)

Pass () Fail ()

Regulation: 25 TAC §289.227(m)(1)(C)(vi): For fluoroscopic equipment with only a manual mode of collimation, the x-ray field produced shall be limited to the area of the spot-film cassette at 16 inches above tabletop. Additionally, during fluoroscopy, the beam shall be restricted to the area of the input phosphor.

Spot film size: _____ (in/cm)

measured OR calculated field size
@ 16 inches: _____ (in/cm)

Pass () Fail () N/A ()

Manufacturer's Name: _____ Unit Serial No.: _____

SPOT FILM (SF) DEVICE

Regulation: 25 TAC §289.227(m)(1)(C)(vii)(I)(-b)-(-c-): Spot film devices shall meet the following requirements:...The total misalignment of the edges of the x-ray field with the respective edges of the selected portion of the image receptor (spot film) along the length or width dimensions of the x-ray field in the plane of the image receptor shall not exceed 3% of the SID when adjusted for full coverage of the selected portion of the image receptor. The sum, without regard to the sign, of the misalignment along any two orthogonal dimensions, shall not exceed 4% of the SID.

SF SID: _____ (in/cm) SF size: _____ X _____ (in/cm)
 measured OR calculated field size at SF: _____ X _____ (in/cm)
 X-ray field at SF misalignment: _____ X _____ (in/cm) Pass () Fail ()

CENTER ALIGNMENT

Regulation: 25 TAC §289.227(m)(1)(C)(vii)(II): The center of the x-ray field in the plane of the film shall be aligned with the center of the selected portion of the film to within 2% of the SID.

Total misalignment: _____ (in/cm) Pass () Fail ()

EXPOSURE RATE LIMITS

Regulation: ...fluoroscopic equipment manufactured prior to May 19, 1995: 25 TAC §289.227(m)(3)(A)
 ...fluoroscopic equipment manufactured on or after May 19, 1995: 25 TAC §289.227(m)(3)(B)

fluoro max. EER's R/min	before 5/19/95	on or after 5/19/95
No AEC	LL-5 HL-no limit	LL-5 HL-5
AEC only without HLC	LL-10	LL-10
AEC only with HLC	LL-5 HL-no limit	LL-10 HL-20
AEC & Manual without HLC	LL-10	LL-10
AEC & Manual with HLC	LL-5 HL-no limit	LL-10 HL-20

ANNUAL ENTRANCE EXPOSURE RATE

Regulation: 25 TAC §289.227(m)(3)(D): Periodic measurement of the entrance exposure rate shall be performed by a licensed medical physicist.

Manual Mode: (Use typical mA): _____ kVp _____ mA _____ R/min Pass () Fail () N/A ()
 Automatic Mode: _____ kVp _____ mA _____ R/min Pass () Fail ()
 High level mode: Pass () Fail () N/A ()
 High level continuous manual activation: Pass () Fail ()
 High level continuous audible signal: Pass () Fail ()
 Current results posted properly: Yes No

Physicist's Signature: _____ Date: _____

LMP License No.: _____ LMP Registration No.: _____