

# RADIOGRAPHIC WORKSHEET [for use with Medical, Vet and Ceph]

(All measurements in inches unless otherwise indicated - 1, 2, and 4 do not apply to cones or diaphragms - 10 and 11 do not apply to Vets)

Facility \_\_\_\_\_ Date \_\_\_\_\_

Reg # \_\_\_\_\_ - Room # \_\_\_\_\_ Control no. \_\_\_\_\_ Tube ID \_\_\_\_\_

Type of unit	Type of collimation (check one)	Measurements in inches for collimation shot	2 <sup>nd</sup> SIDI (9.a)	3 <sup>rd</sup> SIDI(9.b)
(check one)	_____ Light field only (can see film)	_____ Distance from Focal Spot to test film	_____	_____
_____ Fixed	_____ Light field, Bucky, FSI-SIDI	_____ Distance from test film to bucky film	_____	_____
_____ Mobile	_____ Automatic collimator	_____ Distance from end of collimator to test film	_____	_____
_____ Portable	_____ Semi-automatic collimator	_____ SID Indicator (SIDI)	_____	_____
_____ Ceph	_____ Diaphragms/Cones: -----	_____ x _____ at _____ SID <b>M10, V5, C7</b>		
	_____ Tape lines:[measurements of lines] ---	_____ x _____ ; _____ x _____ ; _____ x _____		

kVp \_\_\_\_\_ actual kVp: \_\_\_\_\_  
 mA: \_\_\_\_\_ or mas: \_\_\_\_\_  
 sec: \_\_\_\_\_

Exposure Readings		
	mR	Time
1.		
2.		
3.		
4.		

**NOTES**

SID Range Inches	1/10 In.=2%
<b>20-22</b>	<b>0.4</b>
<b>28-32</b>	<b>0.6</b>
<b>33-37</b>	<b>0.7</b>
<b>38-42</b>	<b>0.8</b>
<b>68-72</b>	<b>1.4</b>
<b>73-77</b>	<b>1.5</b>

1. Field size indicator \_\_\_\_\_ by \_\_\_\_\_ at \_\_\_\_\_ SID
2. Corrected field size \_\_\_\_\_ by \_\_\_\_\_ at \_\_\_\_\_ Test SID - 2% of Test SID = maximum deviation allowed \_\_\_\_\_ (2a)

**Compliance issue (if applicable):** \_\_\_\_\_

(reg references for this section are 0400-20-06-.05(2)(c)2. or 7; 3 – 7 in compliance if value determined less than value in 2a)

**P F N/A DNT** Select P for pass, F for fail, N/A for not applicable and DNT for did not test for questions 5-9.

3. Distance from the x-ray field center to the image receptor center (crosshair) **M17, V10, C13**
4. Distance from the x-ray field center to the light field center **M18, V11, C14**
5. Field Size Indicators (FSI) - **M19, V12, C15**
6. X-ray field versus Light field dimensions - **M20, V13, C16**
7. Distance from the x-ray field center to the bucky film center is less than 2% of the bucky SID **M21, V14, C17**
- 8a. SID indicator accuracy: (SIDI – SID / SID) \_\_\_\_\_ - \_\_\_\_\_ / \_\_\_\_\_ = \_\_\_\_\_ x 100 = \_\_\_\_\_ % (< 2%) **M22, V15, C18**
- 8b. SID indicator accuracy: (SIDI – SID / SID) \_\_\_\_\_ - \_\_\_\_\_ / \_\_\_\_\_ = \_\_\_\_\_ x 100 = \_\_\_\_\_ % (< 2%) **M22, V15, C18**
- 8c. SID indicator accuracy: (SIDI – SID / SID) \_\_\_\_\_ - \_\_\_\_\_ / \_\_\_\_\_ = \_\_\_\_\_ x 100 = \_\_\_\_\_ % (< 2%) **M22, V15, C18**
9. Exposure reproducibly: Average of 4 shots taken = \_\_\_\_\_ mR > Max – Min x 5 = \_\_\_\_\_ (06-.05(2)(c)5.(iv)) **M23, C19**
10. Timer reproducibility: Average of 4 shots taken = \_\_\_\_\_ ms > Max – Min x 5 = \_\_\_\_\_ (06-.05(2)(c)5.(v)) **M24, C20**

3% / 4% Calculations (06-.05(2)(a)1.)

(for auto and semi-automatic collimators, diaphragms, and tape lines use – Not for use with FSI and Light field)

Image receptor size \_\_\_\_\_ by \_\_\_\_\_  
 X-ray field dimensions \_\_\_\_\_ by \_\_\_\_\_ at \_\_\_\_\_ test SID (from line 3)  
 Corrected x-ray field dimensions \_\_\_\_\_ by \_\_\_\_\_ at \_\_\_\_\_ bucky SID

**Primary Barrier Measurements** M16  
 \_\_\_\_\_ kVp \_\_\_\_\_ mA \_\_\_\_\_ sec  
 Results in primary beam:

11. Excess width % =  $\frac{\text{Corrected x-ray field} - \text{Image receptor size}}{\text{Bucky SID}} = \frac{\quad - \quad}{\quad} = \quad \times 100 = \quad \% (< 3\%)$
12. Excess Length % =  $\frac{\text{Corrected x-ray field} - \text{Image receptor size}}{\text{Bucky SID}} = \frac{\quad - \quad}{\quad} = \quad \times 100 = \quad \% (< 3\%)$
13. Sum Excess % = Excess width % + Excess length % = \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ % (<4%) **M27, V16, C23**