

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 nd SIDI (9.a)	3 rd 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 M10, V5, C7		
	_____ Tape lines:[measurements of lines] ---	_____ x _____ ; _____ x _____ ; _____ x _____		

kVp _____ actual kVp: _____
 mA: _____ or mas: _____
 sec: _____

HVL Measured: _____
 Total Filtration Measured: _____ OR
 _____ mmAl _____ mR / _____ time

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

NOTES

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

- Field size indicator _____ by _____ at _____ SID
- 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.

- Distance from the x-ray field center to the image receptor center (crosshair) **M17, V10, C13**
- Distance from the x-ray field center to the light field center **M18, V11, C14**
- Field Size Indicators (FSI) - **M19, V12, C15**
- X-ray field versus Light field dimensions - **M20, V13, C16**
- 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**
- Exposure reproducibly: Average of 4 shots taken = _____ mR > Max – Min x 5 = _____ (06-.05(2)(c)5.(iv)) **M23, C19**
- 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:

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