

2013 ANNUAL CALIBRATION REPORT

RADIOLOGY DEPARTMENT

DATE: 2\12\2008

A. FACILITY

MED No. _____ Room No: _____ Other: _____
 _____ UNIT: _____

EQUIPMENT	Manufacturer	Model	Serial No.
CONSOLE:			
TUBE:			

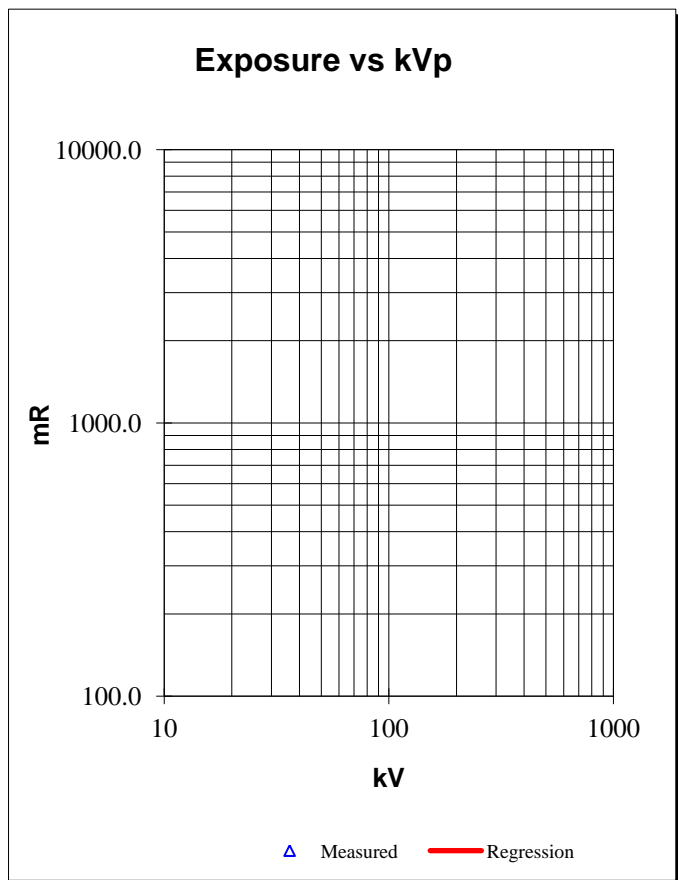
RATINGS: Maximum tube kV: _____ kVp. Maximum tube mA: _____ mA. Phase: 3
 Inherent filtration: _____ mm Al Total Filtration _____ mm Al

B. kVp ACCURACY AND EXPOSURE LINEARITY

Focal Spot: _____ Field Size: _____
 _____ mA _____ ms _____ mAs
 Radcal Accu-kV diagnostic sensor placed on table .
 @ _____ inches from target,
 Radcal Chamber at: _____ inches from target

Set kVp	Measured			kV Accuracy		Linearity	
	Dose mR	Time ms	HV kVp	Error kV	Pass/Fail	mR regrs.	% Error
50							
55							
60							
66							
70							
77							
81							
85							
90							
96							
102							
109							
125							
141							

Max.: _____ kV Max.: _____ 0.0%
 Limit ± 3 kV



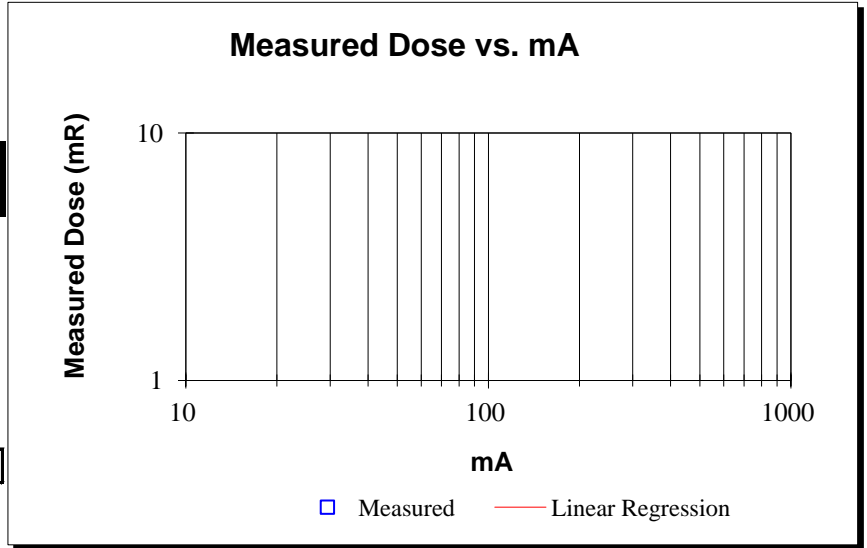
Comments:

kV Accuracy: _____
 Exposure Linearity: _____

C. mA AND EXPOSURE LINEARITY

Technique: 60 kV 50 ms
27.5 in. target to chamber distance

SET mA	Measured			Regression	
	Dose mR	Time ms	HV kVp	mR	Error
25				#####	
50				#####	
100				#####	
200				#####	
250				#####	
320				#####	
352				#####	
Regression Avg.:				Max. Error:	#####
0 mR/mAs @ 28 inches					



Comments:

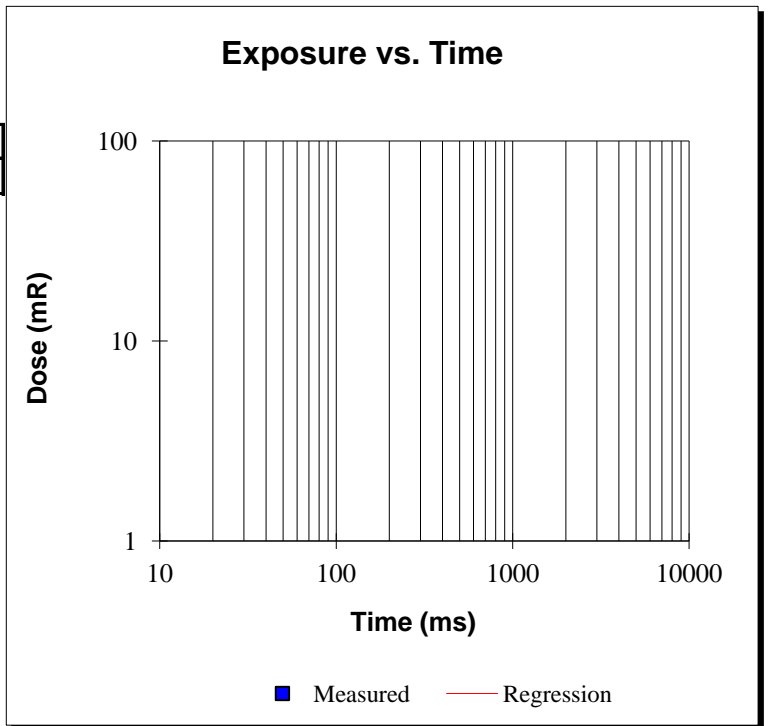
Results: _____

 Action: _____

D. TIMER AND EXPOSURE LINEARITY

Technique: _____ kV _____ mA
 _____ in. target to chamber distance

SET Time	Measured			Timer Error	Regression	
	Dose mR	Time ms	HV kVp		mR	Error
16						
25						
32						
50						
63						
100						
125						
160						
200						
250						
320						
400						
500						
630						
800						
1000						



Comments:

Results: Exposures should be linear to within +/-10%
At stations below 0.05 second the exposures are low
 Action: SERVICE REQUIRED

E. EXPOSURE REPRODUCIBILITY

Dose Time kVp mR/mAs

PASS/FAIL Criteria:

mA: _____
kVp: _____

Measured			
Dose	Time	HV	mR/
mR	ms	kVp	mAs

Measured			
Dose	Time	HV	mR/
mR	ms	kVp	mAs

Measured			
Dose	Time	HV	mR/
mR	ms	kVp	mAs

X1
X2
X3
X4
X5

X1
X2
X3
X4
X5

X1
X2
X3
X4
X5

Avg
CV

Avg
CV

Avg
CV

Pass/Fail

RESULTS: _____

COMMENT: _____

F. HALF VALUE LAYER

Technique

kV	mA	ms	added filtration
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mmAl

_____ in. target to chamber distance

mm Al	Measured			Calculated	
	Dose mR	Time ms	HV kVp	mR/s	Atten

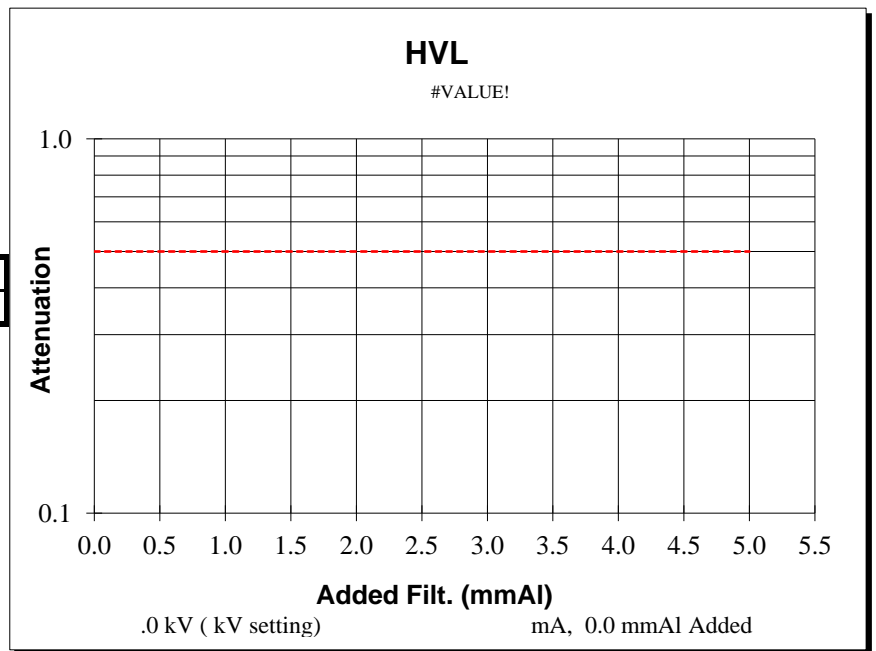
0.00
1.00
2.00
3.00
4.00
5.00

Calculated HVL: #REF! mmAl

Comments:

Results: [Acceptable](#)

Action: [None Required](#)



H. LIGHT FIELD/X-RAY FIELD ALIGNMENT

TABLE: _____

CHEST STAND: _____

Comments: _____

I. CENTERING OF X-RAY FIELD TO LIGHT FIELD

TABLE: _____

Comments: _____

WALL: _____

Comments: _____
