

# Test 23: AEC Device - Sensitivity

On acceptance & 3 monthly

SITE/ Room: <u>D-Room -&gt; Chest Bucky (ERECT)</u>						
III.1.2.1 Automatic Exposure Control AEC devices						
Test 9: Constancy (reproducibility) (test all chambers)						
Frequency: 3 Monthly			Limit: Baseline $\pm 20\%$			
1st Measured value Central chamber		1st Measured value Left chamber		1st Measured value Right chamber		Establish
EI	mAs	EI	mAs	EI	mAs	EI
49	1.5	61	1.8	59	1.7	56
Date	Name	Measured value Left chamber		Measured value Right chamber		Measured Central
		EI	mAs	EI	mAs	EI
28-06-13	H. Muller & A. Erasmus	61	1.8	59	1.7	49
9-10-13						

## PROCEDURE:

Set x-ray tube at 100cm SID (Source to Detector).

Place a 35 x 43cm cassette and IP in Bucky

Place the copper plate at center of photo timing sensors.

Choose ionization chamber 1.



Select a commonly used technique (i.e. 75kVp, auto-time) and record the factors used.

Read the imaging plate.

Repeat the test for chamber 2 and 3 (Automatic Exposure Control.)

Measure the output (mAs) for each of the chambers (photo timers) individually, and all together.

Work out the mean value of all three exposures together.