

Test 27: DR AEC Device : Sensitivity

On acceptance & 3 monthly

| | | SITE: _____ | | | | | | |
|------|------|--|-----|-----|----------|------|------|-------------------|
| | | TEST NO. 27: AUTOMATIC EXPOSURE CONTROL - ROOM _____ | | | | | | |
| DATE | NAME | MAS | MAS | MAS | BASELINE | PASS | FAIL | CORRECTIVE ACTION |
| | | | | | | | | |
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AEC Device - Sensitivity

On acceptance & 3 monthly

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|---|-----|---------------------------------|-----|----------------------------------|-----|------------------------------|--|
| SITE/Room : D-Room → Chest Bucky (ERECT) | | | | | | | |
| III.1.2.1 Automatic Exposure Control AEC devices | | | | | | | |
| Test 9: Constancy (reproducibility) (test all chambers) | | | | | | | |
| Frequency: 3 Monthly | | | | Limit: Baseline ±20% | | | |
| 1st Measured value Central chamber | | 1st Measured value Left chamber | | 1st Measured value Right chamber | | Establish | |
| El | mAs | El | mAs | El | mAs | El | |
| 49 | 1.5 | 61 | 1.8 | 59 | 1.7 | 56 | |
| Date | | Name | | Measured value Left chamber | | Measured value Right chamber | |
| 23-06-13 | | H. Muller & A. Erasmus | | El mAs | | El mAs | |
| 9-10-13 | | | | 61 1.8 | | 59 1.7 | |

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 ionization 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.