CR Reader

Test 19: Image uniformity- free from dots and lines On acceptance & 3 monthly

			SITE:								
			TEST 19:	IMAGE UNIFORM	IITY- RM	Lice	ence l	No:			
Please inc	dicate PAS	S/FAIL in re	espective co	olumns							
DATE:		NAME:		CASSETTE ID	BANDING:	CALIBRA	TION:	DUST:	COMMEN	T:	

PURPOSE: To monitor image quality by assessing the uniformity of the system.

Select any cassette (test **different cassette** each time)

METHOD:

Use the same focal/detector distance as previously described (130cm), and open the collimators so as to cover the whole detector.

Mark the position of the detector with adhesive tape.

Place the Cu filtration in the beam.

Set the exposure:

75kVp; 12.5mAs, small focus.

Expose.

Turn the cassette 180 degrees.

Expose the plate a second time using the same exposure.

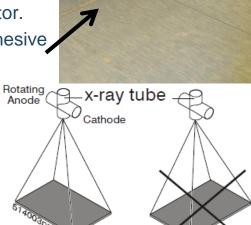


figure 11

Read the plate immediately using the following parameters: Agfa S = 200

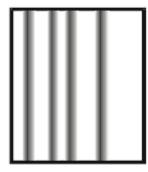
System diagnosis/flat field processing, Kodak Pattern mode and Fuji Semi-auto L==1 or 2



Flat field 100 (Agfa)

Visually inspect the image for calibration lines, banding lines or dust or any other non-uniformity.

<u>Lines</u> KCARE Commissioning and Annual QA Tests. CR QA Protocol. Draft 8.0 Release Date 01/06/2005

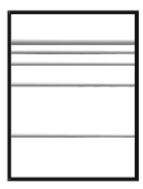


Calibration lines

Blurred dark lines in slow scan direction on the flat field (see figure 13).

Expose another flat field and compare it again with the sample.





Banding

Fine sharp white or grey lines in fast scan direction on the flat field (see figure 14).

Check diagnostic images.

If unsatisfactory, contact Field Service Engineer

figure 14

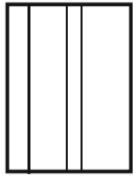
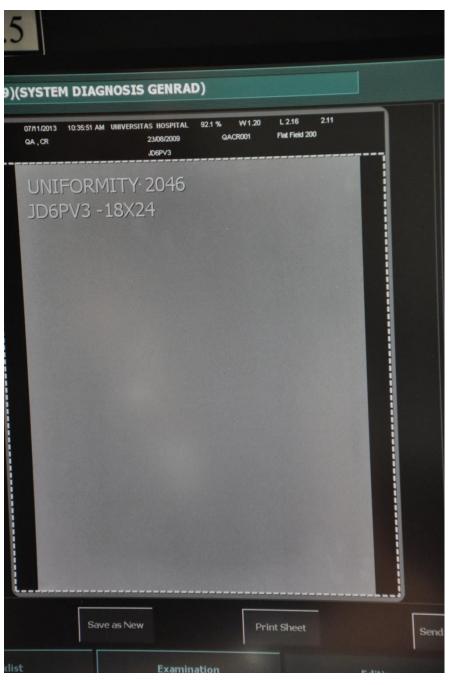


figure 15

Dust

Fine sharp lines in slow scan direction on the flat field (see figure 15).

Check if scanner is dusty. In case of, use the scan brush to remove it. Expose another flat field and compare it again with the sample.





CR Reader

Dark noise 3 monthly

		SITE:	SITE:							
		TEST AD	TEST ADDITIONAL: DARK NOISE- DIGITZER							
DATE:	NAME:		CASSETTE ID	PVI/EI	PASS	F	AIL	COMMEN	T:	

PURPOSE: To assess the level of noise inherent in the system

PROCEDURE:

Erase an image plate and without making an exposure, read it using the following parameters:

Agfa:	S=200 System diagnosis/flat field 200
Fuji	Readout mode – 'Fixed' S = 1000, L= 1
Kodak	Mode – 'pattern'
Konika	Readout Mode – 'fixed'

Examine the image visually and record the PVI Log Value and cassette ID.

Repeat with 3 other cassettes

TOLERANCE: Agfa systems should be PVI log ≤ 3064.

Fuji – pixel value < 280.

Kodak – El value < 380 for GP plates.

Konica – pixel value > 3975.

