

1. Radiation examinations may only be performed by qualified, registered radiographers, medical practitioners appropriately trained in radiation procedures and -protection or chiropractors.
- 2.1 Dental radiation examinations may only be performed by registered:
 - dentists,
 - radiographers,
 - dental therapists, and
 - oral hygienists
- 2.2 A worker must wear a personal dosimeter (TLD) when:
 - (i) the position of the worker during exposures is less than 2 metres
 - (ii) the weekly workload exceeds:
 - 100 intra-oral or
 - 50 pan/ceph exposures or
 - pro-rata combination of each type of examination (table 1)

Table 1

Examination	Exposures					
	100	80	60	40	20	0
Intra-oral and	100	80	60	40	20	0
Pan/ceph	0	10	20	30	40	50

- 2.3 An appropriate exposure technique chart (manual and automatic exposures) must be displayed near the control panel of the x-ray unit.
- 2.4 X-ray units below 50kV will not be licensed.
- 2.5 Intra-oral dental units with “point type” dental cones will no longer be licensed for use.
- 2.6 The licence holder must ensure that all the applicable requirements are implemented as stipulated in *REQUIREMENTS FOR LICENCE HOLDERS WITH RESPECT TO QUALITY CONTROL TESTS FOR DENTAL DIAGNOSTIC X-RAY IMAGING SYSTEMS* (Latest edition)), available at <https://sites.google.com/site/radiationcontroldoh/> → **Electronic devices - Use** → **Electronic devices – Ionising Radiation** → **Licence Conditions**
- 2.6.1 The licence holder shall ensure that only an Inspection Body (IB) approved by the Department of Health is used to perform all the acceptance tests as well as the routine tests. A list of approved Inspection Bodies is available at <https://sites.google.com/site/radiationcontroldoh/> → **Electronic devices - Use** → **Electronic devices – Ionising Radiation** → **Inspection bodies** and is regularly updated.

2.6.2 For the evaluation of the total image chain the following must be available:

Film & digital - intral-oral - UNI DENT phantom or similar

Film - Intra-oral, Panoramic & Cephalometric radiography - TOR DEN conventional phantom

Digital - Intra-oral, Panoramic & Cephalometric radiography - TOR DEN conventional phantom or similar

3. Fluoroscopic radiation examinations with mobile C-arm x-ray units may only be performed by *registered radiographers and radiologists*.
4. The medical use of this x-ray unit is limited to radiation examinations of extremities and chests only. A grid must be used for adult chest examinations.
5. The medical use of this x-ray unit is limited to radiation examinations of extremities only.
6. The medical use of this x-ray unit is limited to general radiography. Dynamic radiation examinations with contrast media i.e. barium studies, histerosalpingograms, etc. may not be undertaken.
7. The medical use of this x-ray unit is limited to bone densitometry.
8. The medical use of this x-ray unit is limited to dental radiation examinations.
9. The medical use of this x-ray unit is limited to radiation examinations of *chests*.
10. Radiation examinations utilising a grid is prohibited.
11. Mass-miniature radiographs may not be taken on *persons under the age of 14 years, or pregnant women*. Normal size radiographs must be taken instead.
12. The x-ray unit must be anchored to the floor so as to ensure that the focus film distance from the erect chest stand remains at 150cm minimum.
13. The x-ray unit must be anchored to the floor.
14. Radiation examinations of extremities must be done at a focus film distance of 100cm minimum.
15. The unit may not be resold without prior written authority from the Director-General. Prospective buyers will be limited to veterinarians, or institutions authorised to use such equipment as a mobile unit.
16. Due to the age of the x-ray unit the resale is limited to a veterinarian only.
17. Due to the age of the x-ray unit it will not be re-licenced. The re-sale thereof is prohibited.
18. A record / register must be kept of all patients undergoing x-ray examinations. The record / register must be preserved for 5 years containing the following information:
 - surname, name, date of birth/age and sex
 - date of examination
 - brief clinical indication of the examination
 - type of examination

- number of exposures (repeat exposures included)
 - fluoroscopy time (if applicable) and name of doctor performing the examination.
 - total dose read-out or Dose Area Product (DAP) reading (if applicable)
 - brief statement of the diagnostic information obtained from the examination
19. Non-compliance of any of the conditions would result in the licence being withdrawn.
 20. The medical use of this unit is limited to mobile radiography. The unit may not be used and installed as a fixed unit.
 21. Due to the age of the Odelca camera and the high radiation dose associated with mass mini radiography it will not be re-licensed. The re-sale thereof is prohibited.
 22. This CR reader is **not** approved to process mammography images.
 23. Second hand unit imported into South Africa - not allowed. No licence issued.
 24. A comprehensive quality management system for radiation safety must be compiled and protocols, procedures, policies, instructions, tests, evaluations and rules are performed and documented in accordance with the system. This local system must include, but not limited to, safety check protocol, the roles and responsibilities of the respective members of the radiation management team and an internal audit protocol which specifies frequencies for audits.
 25. The medical use of this x-ray unit is limited to paediatric radiation examinations.
 70. Radiation examinations may only be conducted on persons referred by a medical practitioner.
 71. The x-ray unit is not licensed for use. The x-ray unit may not be re-commissioned without prior written authority from the Director-General.
 72. Use is limited to commissioning and acceptance testing.
 73. The x-ray unit is not licensed for CLINICAL use.
 74. (i) This licence only permits clinical trials to be conducted with the x-ray unit.
(ii) The Director: Radiation Control must be informed in writing when the clinical trials have been completed.
 75. The unit may not be resold without prior written authority from the Director-General. Prospective buyers will be limited to veterinarians only.
 76. Only qualified, registered radiographers may perform radiation examinations.
 77. The licence holder shall comply with the requirements as specified in the Directorate's Code of Practice for Industrial Radiography and any amendments thereof.
<https://sites.google.com/site/radiationcontroldoh/> - Electronic devices - Electronic devices -Code
 78. Only qualified, registered radiographers may perform radiation examinations and only radiologists may interpret x-ray films.
 79. The x-ray unit is licensed for use until
 80. The use of the x-ray unit is limited to cardiology radiation examinations only.

81. An Image quality evaluation (phantom images) must be performed after each relocation of the vehicle containing the x-ray unit.
82. The use of the x-ray unit is limited to veterinary radiation examinations only.
- 83.1 Mammography examinations shall only be performed by radiographers in possession of a HPCSA recognized additional qualification (post graduate) in mammography.
- 83.2 A Radiologist must be at the premises during mammography examinations (screening programs are excluded from this condition).
84. This unit may only be used for training of operators and security personnel. No routine x-ray examinations for security purposes may be performed on this unit.
85. Only Dr may perform the radiation examinations.
86. At all times, there must be SUFFICIENT technical support and supervision available by a medical physicist during radiation therapy, to ensure patient safety.
87. Only may use the x-ray unit for demonstration purposes.
88. The user of mobile dental units may only operate the unit wearing a full frontal lead rubber apron.
89. Only Radiographers and Chiropractors may perform radiation examinations.
90. Radiation equipment used for Forensic Radiographic imaging may only be used by registered radiographers, radiologists and forensic personnel trained in the safe use of x-ray apparatus and radiation protection.
- 90.1 The licence holder must ensure that all the applicable requirements are implemented as stipulated in the following document:
“Code of Practice for users of non medical x-ray equipment – FORENSIC ” available at <https://sites.google.com/site/radiationcontroldoh/> → **Electronic devices** → **Electronic devices** → **Code**
91. The use of the x-ray unit in the physician’s consulting room is limited to fluoroscopic radiation examinations during surgical and manipulation procedures of extremities only.
- 92.1 Radiation examinations with this unit may only be performed by registered:
 - dentists
 - radiographers
- 92.2 The operator must wear a personal dosimeter (TLD)
- 92.3 The licence holder must ensure that all the applicable requirements are implemented as stipulated in *REQUIREMENTS FOR LICENCE HOLDERS WITH RESPECT TO QUALITY CONTROL TESTS FOR DENTAL DIAGNOSTIC X-RAY IMAGING SYSTEMS* (Latest edition)), available at <https://sites.google.com/site/radiationcontroldoh/> → **Electronic devices - Use** → **Electronic devices – Ionising Radiation** → **Licence Conditions**
- 92.3.1 The licence holder shall ensure that only an Inspection Body (IB) approved by the Department of Health is used to perform all the acceptance tests as well as the routine tests. A list of approved Inspection Bodies is available at <https://sites.google.com/site/radiationcontroldoh/>

➔ **Electronic devices - Use** ➔ **Electronic devices – Ionising Radiation** ➔ **Inspection bodies**

and is regularly updated.

93. Unit only for use with paediatric project patients.
94. Condition – Kimberley Hospital (CT Scanner)
95. The licence holder must ensure that all the applicable requirements are implemented as stipulated in the following documents:
 - 95.1 **DIAGNOSTIC QC** (*Requirements for Licence Holders with Respect to Quality Control Tests for Diagnostic X-ray Imaging Systems* (Latest edition)), available at <https://sites.google.com/site/radiationcontroldoh/> ➔ **Electronic devices** ➔ **Electronic devices** ➔ **Licence Conditions**
 - 95.1.1 The licence holder shall ensure that after **31 March 2009** only an Inspection Body (IB) approved by the Department of Health is used to perform all the acceptance tests as well as the routine tests. A list of approved Inspection Bodies is available at the above web site and is regularly updated.
 - 95.2. "*Code of Practice for users of medical x-ray equipment*" available at <https://sites.google.com/site/radiationcontroldoh/> ➔ **Electronic devices** ➔ **Electronic devices** ➔ **Code**
 - 95.3 The licence holder is responsible to ensure that QA / QC tests of **ALL additional components** are kept available on the licensed premises as per licensing documentation.
96. Radiation examinations may only be performed by qualified, registered radiographers or chiropractors.
97. Only radiologists may perform fluoroscopy examinations on fixed fluoroscopy units.
98. Fluoroscopic radiation examinations with the mobile C-arm x-ray unit may only be performed by registered radiographers.
- 98.1 The use of the C-arm x-ray unit is limited to pain management procedures at the XXXX Hospital.
99. The use of the fluoroscopy x-ray unit by a Gastro Enterologist is limited to Endoscopic Retro Cholangio Pancreatograms (ERCP) examinations.