Intra-oral Dental Diagnostic Radiography

Tools for Assisting Possession Licensees

The following tools have been developed to assist possession licensees in complying with their legislated requirements.

- Tool 1: The 'Radiation Safety Officer Annual Checklist' has been developed to assist radiation safety officers in performing their annual checks.
- Tool 2: The 'Operational Checks Daily Checklist' has been developed to assist persons who are to perform the daily operational checks on the radiation practice.
- Tool 3: The '*Operational Checks Monthly Checklist*' has been developed to assist persons who are to perform the monthly operational checks on the radiation practice.
- Tool 4: The 'Operational Checks Six Monthly Checklist' has been developed to assist persons who are to perform the six monthly operational checks on the radiation practice.
- Tool 5: The 'Maintenance of Manual Film Processors' has been developed to provide guidance on how to maintain a manual film processor. This procedure should be displayed in a prominent location adjacent to the processing equipment.
- Tool 6: The 'Contact List' has been developed to provide a list of contact details as well as the compliance status of equipment and premises. This list should be placed adjacent to each X-ray unit's control panel.
- Tool 7: The '*X-ray Equipment Details*' may assist possession licensees in maintaining an inventory (including location) of each X-ray unit in the possession of the possession licensee.
- Tool 8: The '*X-ray Register*' may assist possession licensees by providing an exposure register which is required to be completed by the user of the X-ray equipment.
- Tool 9: The '*Training Log*' is a means by which the possession licensee may keep a record of the training provided to each user, staff and other persons.
- Tool 10: The 'Maintenance Report' is a means by which the possession licensee may keep a record of maintenance and repair work that may be conducted on the X-ray unit, and other auxiliary equipment.

These tools should be checked to ensure that they cover the requirements detailed in the possession licensee's specific radiation safety and protection plan, and amended as required.

RADIATION SAFETY OFFICER

ANNUAL CHECKLIST

DATE	CONDUCTED:							
	all users and employees understand, and are co	mplying with, the radiation safety	and protection plan					
	the details of each X-ray unit, including location, are accurately recorded on the Possession Licence							
	and on the possession licensee's equipment register							
	the Possession Licence is current and appropriate							
	all users hold Use Licences which are current a	and appropriate, and are authorised	d by the possession					
	licensee to use the X-ray equipment							
	all maintenance is conducted and recorded							
	all operational checks are being conducted a	nd recorded, and any relevant pr	roblems have been					
	appropriately rectified							
	all repairs to the X-ray equipment are recorded	1						
	all repairs to the film processors are recorded							
	personal protective equipment is readily availa	ble						
	a suitable reference radiograph is available							
	the film processing solutions are suitable for th	ne type of film in use						
	all records required by the radiation safety and	l protection plan are maintained an	nd kept in a readily					
	accessible location							
	compliance certificates for the X-ray equipment	t and premises have been obtained v	within the necessary					
	time frames (3 years for equipment and 5 years	s for premises)						
Action	Required							
	Action required	Action to be taken by	Action date					
Name:	Radiation Safety Officer	1	Date:					

Note: A copy of this report should be provided to the possession licensee.

OPERATIONAL CHECKS

DAILY CHECKLIST

☐ Check the quality of a test film/digital image (e.g. first clinical image of the day) by comparing it with a reference radiograph.

Date	Performed by	Result	Action required

OPERATIONAL CHECKS

MONTHLY CHECKLIST

DATE CONDUCTED:			
	ns with the film, developing	the reason for the retake or rejec process, the X-ray unit or the oper	
Action Required			
Action	required	Action to be taken by	Action date
_			
Name:	Signature:		Date:

Date: _____

OPERATIONAL CHECKS

SIX MONTHLY CHECKLIST

DATE (CONDUCTED:						
	Check that the processing box is free of light leaks						
	Check that personal protective equipment is in	good condition					
	Check that unexposed X-ray films are stored in a container away from excessive heat, humidity chemicals), and adequately shielded against ion	or chemical contamination (e.g. fr	om film processing				
	Check that the oldest X-ray film is used first						
	Check that film is within the expiry date specif	fied by the manufacturer					
	Check that exposure factors for specific exami	nations are available					
	Check that the RSO details are displayed in a prominent location adjacent to the X-ray equipment and are correct						
	Check that the processor maintenance procedur film processor	res are displayed in a prominent loca	ation adjacent to the				
	Check that instructions for mixing chemicals a	and processing films are available					
	Check that a time/temperature chart, a timer ar	nd a thermometer are available for	manual processing				
	Check that radiation warning signs are display	ed on each X-ray unit and are in g	ood condition				
Action 1	Required						
	Action required	Action to be taken by	Action date				

Signature:

MAINTENANCE OF MANUAL FILM PROCESSORS

The following procedures will be conducted at least every 2 weeks or if the chemicals become contaminated.

Fixer

- 1. Dispose of old solution and thoroughly clean the tank with a 'fixer only' cloth and water. Steel wool and abrasive powders must not be used.
- 2. Prepare the fixer solution as specified by the chemical manufacturer.
- 3. Stir the fixer before use with a 'fixer only' stirrer.

Note: Always mix developer after fixer as contamination of developer is a greater problem and often requires immediate disposal of the developer. Contamination of developer with even a small quantity of fixer will result in fogging of the processed radiograph.

Developer

- 1. Dispose of old solution and thoroughly clean the tank with a 'developer only' cloth and water. Steel wool and abrasive powders must not be used.
- 2. Prepare the developer solution as specified by the chemical manufacturer.
- 3. Stir the developer before use with a 'developer only' stirrer.

Record that the above procedures have been carried out in the maintenance log book.

CONTACT DETAILS

Radiation Safety Officer	
Name:	
Phone:	

Mobile:_____

Chief Executive, Queensland Health

c/- Director Radiation Health Unit PO Box 2368

FORTITUDE VALLEY BC QLD 4006

Telephone: (07) 3328 9987 Facsimile: (07) 3328 9622

Mobile: 041 327 9672 (emergencies and out of hours calls)

Radiation Health

Radiation Health Unit PO Box 2368

FORTITUDE VALLEY BC QLD 4006

Telephone: (07) 3328 9987 Facsimile: (07) 3328 9622

Email: radiation_health@health.qld.gov.au Website: www.health.qld.gov.au/radiationhealth

X-RAY EQUIPMENT DETAILS

Manufacturer	Model	Serial Number		Location	Compliance Status – HR005		Compliance Status – PR100	
		Control panel	X-ray tube		Number	Assessment Due	Number	Assessment Due

X-RAY REGISTER

Room Number:	Equipment Details:

Date	Patient's Name	Gender	DOB	Particulars of examination	Name of User	Comments

Note: All exposures must be recorded, including retakes and rejects.

TRAINING LOG

Name	Type of Training	Date of Training	Satisfactorily Completed (y/n)

MAINTENANCE RECORD

Equipment Type:				
Make:	Model:	Serial No.:		
Date of Maintenance/Repair	Details		Comments	_
				_
				_
				_