



RADIOLOGICAL HEALTH PROGRAM

INTRAORAL DENTAL/VETERINARY DENTAL PREVENTIVE MAINTENANCE REPORT

FACILITY NAME:		FACILITY CONTACT NAME:		CONTACT TELEPHONE NO.:	
FACILITY REGISTRATION NO.: □□-□□□□		Service Provider Meter Manufacturer:		REGISTERED SERVICE PROVIDER NAME:	
MDE MACHINE NO. AND SUFFIX: □□□□□/□		Meter Used – Model:		Service Provider Registration Number:	
Component Use: □□	Film Speed: □	Model Number:		NAME OF SERVICE PROVIDER:	
Machine Manufacturer:		Calibration Date:		DATE OF SERVICE:	
Facility-Designated Room Number:		Note any corrective services provided:		Does Radiation Machine Meet PM Requirements?	
Tube Serial Number:				Date Facility Owner Made Aware of Service Findings:	
Other information on tube serviced (optional)				Date Corrective Action Taken:	

As Found Settings		Test Settings		Preventive Maintenance Data					
KVP		KVP		PM Interval (Months)	6	12	24	36	48
mA		mA		Next PM Due (Date)					
Time: _____ mSec _____ Pulses		Time		Notes:					
HVL									

TESTING		
	KVP	Timer
Exp 1		
Exp 2		
Exp 3		
Avg		
% Diff		
Mfr. Spec		

X-ray Tube Voltage		Min. HVL
Designed Operating Range	Measured Operating Range	Specified Dental Systems
Below 51	30	1.5
	40	1.5
	50	1.5
51 – 70	51	1.5
	60	1.5
	70	1.5
Above 70	71	2.1
	80	2.3
	90	2.5
	100	2.7
	110	3.0
	120	3.2
	130	3.5
	140	3.8
	150	4.1

Test Results		
Item	Pass	Fail
KVP		
Timer		
HVL		
Timer Reproducibility		

By physically and/or electronically signing this report, I attest that this radiation machine is operating within the specifications and guidelines provided by the manufacturer's manual and that the registrant has received a copy of this report for their records. Service Provider Initials []

Printed Name	Registrant Signature	Date
Printed Name	Service Provider Signature	Date



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Instructions for Intraoral Dental Preventative Maintenance Report

General Information

COMPLETE ONE FORM MDE RX-33 PER TUBE. Completely and legibly fill out the facility information, machine information and service provider information. Include facility room number or name as designated by the facility.

As Found Settings

Record the “as found” setting of the kVp, mA, time and half layer value of the radiation machine. If tested with values other than As Found Settings, document these test values in the block **Test Settings**.

Preventive Maintenance Data

Record the manufacturer’s recommended preventive maintenance schedule as indicated in the radiation machine manual. If no preventive maintenance schedule exists for the machine, a 12 month maintenance frequency should be used. Record the date of the next scheduled Preventive Maintenance.

Timer Accuracy

For Factory Tolerance-

1. Average all exposures.
2. Use formula- $((\text{Average time measured} - \text{“as found” time}) / \text{“as found” time}) \times 100 = \% \text{ of deviation}$ [disregard the sign].
3. If the % deviation is within the manufacturer’s recommendation, the unit is in compliance.
4. Machine passes or fails with appropriate documentation.

For Uncertified (+/- 10%)-

1. Average all exposures.
2. Multiply the time set by .10 to get the + or – 10% variable.
3. Add the variable to the time set, and then subtract the variable from the time set.
4. The two numbers establish the range.
5. If the average time measured falls between the two numbers, the machine is in compliance.

kVp Accuracy

For Factory Tolerance-

1. Average all exposures.
2. Use formula- $((\text{Average kVp measured} - \text{“as found” kVp}) / \text{“as found” kVp}) \times 100 = \% \text{ of deviation}$ [disregard the sign].
3. If the % deviation is within the manufacturer’s recommendation, the unit is in compliance.
4. Machine passes or fails with appropriate documentation.

For Uncertified (+/- 10 %)-

1. Average all exposures.
2. Multiply the kVp set by .10 to get the + or – 10% variable.
3. Add the variable to the kVp set, and then subtract the variable from the kVp set.
4. The two numbers establish the range.
5. If the Average kVp measured falls between the two numbers the machine is in compliance.

Timer Reproducibility: $T > 5 (T_{\max} - T_{\min})$

1. Use the timer data from the reverse of this form (Measured and Average).
2. Subtract the minimum time from the maximum time (Measured values).
3. Multiply the result by the factor of 5 as shown above.
4. Compare to the average of the measured values for time.
5. If the average of the measured values is greater than or equal to the multiplied result, the timer is reproducible. (PASS)

For Dental Preventive Maintenance Use Only



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RADIOLOGICAL HEALTH PROGRAM
MENU

<p>05. CODE PROFESSION</p> <p>10 Hospital 11 Chiropractor 12 Dentist 13 Physician 14 Podiatrist 15 Radiologist 16 Industrial/Field Radiography 17 Veterinarian 18 State/Local Government 19 Education/Research 20 Portable/Mobile X-ray 21 Other</p> <p>09. COMPONENT USE</p> <p>CODE DENTAL</p> <p>CBCT Cone Beam Computed Tomography CD Cephalometric CP Cephalometric/Intra-oral Comb. CX Pan/Ceph Combination HH Hand-held ID Intra-oral XD Panorex TD TMJ Work OD Other Dental</p> <p>CODE VETERINARY</p> <p>VP Veterinary Portable VS Veterinary Stationary VD Veterinary Dental</p> <p>CODE MEDICAL</p> <p>AD Angiography/Digital AN Angiography BD Bone Densitometry CA CAT Scanner CE Ceiling Tube (Leg Studies) CH Chest, Dedicated CI Chiropractic DI Diathermy GP General Purpose HN Head and Neck MA Mammography MI Magnetic Imaging OT Other Medical PD Podiatry PH Portable Hand Carried PM Portable Mobile SR Stereotactic TO Tomography UR Urology US Ultrasound</p>	<p>CODE DARKROOM</p> <p>AP Automatic Processor DD Complete Digital Imaging IP Insta-fix only processing MP Manual Processing NP No processing on-site</p> <p>CODE MEDICAL THERAPY</p> <p>AT Accelerator CT Contact Therapy DT Deep X-ray ST Superficial</p> <p>CODE INDUS/EDUC/RESEARCH</p> <p>IA Accelerator IC Cabinet Radiography IE Electron Microscope IF Field Radiography IG Gauge IN Diffraction IO Other Indus./Educ./Research IR Room Radiography IS Spectrographic</p> <p>CODE MEDICAL FLUOROSCOPE</p> <p>AF Above Table Tube BF Below Table Tube CF C-Arm MF Mobile Fluoroscope UF Upright Fluoroscope OF Other Medical Fluoroscope</p> <p>10. CODE MANUFACTURER</p> <p>00 Imagic Works 01 AS and E 02 Accuray 06 Accudex 07 Acoma 03 Agfa 08 Air Techniques 14 All Pro 04 Andrex 85 Aribex 05 Asoma 10 Astrophysics 12 Autoclear 16 Aztech 09 Belmont 11 Bennett X-ray 13 Bowie 18 Castle 15 Continental X-ray Corp. 17 Control Screening 19 Coromex 26 de Gotzen 29 Del Medical 22 Dentx</p>	<p>10. (continued)</p> <p>30 Dynavision 31 E.G. & G. 25 Elekta 20 Faxitron 21 Fischer Imaging Group 34 Fuji 23 Gendex 24 General Electric 35 Glenbrook 37 Global Marine 39 Golden 40 HCMI 41 Heimann 46 Heuft Systems Technik 27 Hewlett-Packard 28 Hitachi 38 Hologic 48 Hope 43 Instrumentarium 55 JEOL 32 J. Morita 33 Kodak 44 Konica 56 LG 47 Lorad 36 Lumix 49 Lunar 50 Midwest/Sybron 57 Min X-ray 61 Niton 42 OEC Disonics 66 PANalytical 59 Panoramic Corp. 45 Phillips 60 Planmeca 70 Progeny 72 Protec 74 Rapiscan 51 Raytheon 73 Rigaku 52 Ritter 53 S.S. White 54 Sanko 78 Sedecal 79 Seiko 58 Siemens 80 Sirona 64 Soredex 81 Spectro 68 Summit 62 Toshiba 63 Transworld 71 Trophy 65 Universal 67 Varian 82 Vet Ray, Inc. 69 Weber 83 XMA 84 X-Cel 76 Yoshida 77 Other</p>
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