

RADIOLOGICAL HEALTH PROGRAM

CEPH	IALOM	ETRI	IC/PA	NORA	L DENT	AL RADIATIO	ON MAC	CHINE PRI	EVENTIVE N	IAINTENANC	E REPORT
FACILI	ГҮ NAM	E:				FACILITY	CONTA	CT NAME:	CON	FACT TELEPH	ONE NO.:
FACILI	FY REGI	STR/	ATIO	N NO.:		Service Provider			REGISTERE		
-					1	Meter Manufact	urer:		PROVIDER N	AME:	
MDE MA	ACHINE	NO.	AND S	SUFFIX	: I	Meter Used –			Service Provid	ler	
]/			Γ	Model:			Registration Number:		
Compone	ent Use:				Ι	Model Number:			NAME OF SERVICE		
									PROVIDER:		
Machine Manufacturer:				(Calibration Date:			DATE OF SE	RVICE:		
Facility-l	Designate	ed Roo	om		1	Note any corrective servicesDoes Radiation Machineprovided:Meet PM Requirements?					
Number:					I						
Tube Ser	ial Numl	ber:				Date Facility Owner Made					
						Aware of Service Findings:					
Other info	ormation o	on tub	e servi	ced (optio	onal)				Date Correctiv		
									Action Taken:		
	As I	Found	Setti	ngs				Preventiv	e Maintenance	Data	
KVP						PM Interval (M	(onths)	6	1224	36 48	
mA						Next PM Due (Date)					
Time: mSec Pulses				Notes:							
HVL											
Source to			(poste								
Actual Length Width				X-ray Tube Voltage Minimu			m HVL				
film size								Designed	Measured		
TESTING			I	tem	Measur	ed	Operating		Manuf. Before	Manuf. After	
	KVP	Tim	or					Range	Potential	June 10, 2006	June 10, 2006
Eve 1	IX V I	1 111		X-ray f	ield Size	Length i	nches/cm			· ·	· · · · ·
Exp 1						Width ii	nches/cm	Below 51	30	0.3	0.3
Exp 2			-	SID (For	Cephalometr	ic			40	0.4	0.4
Exp 3				Machines)		inc	ches/cm	51 to 70	<u>50</u> 51	0.5	0.5
Avg								51 to 70			
% Diff									<u>60</u> 70	1.3 1.5	1.5 1.8
Mfr. Spec								Above 70	70	2.1	2.5
1								Above 70	80	2.1	2.9
	Item		Pass	Fail					90	2.5	3.2
KVP									100	2.7	3.6
Timer accuracy						110	3.0	3.9			
HVL							120	3.2	4.3		
				Timer reproducibility							
Timer repr									130	3.5	4.7
	nage dista									3.5 3.8	4.7 5.0 5.4

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 Cephalometric/Panoral Dental Preventative Maintenance Report

General Information

COMPLETE ONE FORM MDE RX-35 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, half layer value, source to image distance (for cephalometric machines) and film size used.

Preventive Maintenance Data

Timer Accuracy

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.

Third Recuracy					
For Certified Machine Tolerance-	For Uncertified Machine Tolerance (+/- 10%)-				
1. Average all exposures.	1. Average all exposures.				
2. Use formula- ((Average time measured – "as found" time)/ "as	2. Multiply the time set by .10 to get the $+$ or -10% variable.				
found" time) X $100 = \%$ of deviation [disregard the sign].					
3. If the % deviation is within the manufacturer's recommendation,	3. Add the variable to the time set, and then subtract the variable from				
the unit is in compliance.	the time set. The two numbers establish the range.				
4. Machine passes or fails with appropriate documentation.	4. If the average time measured falls between the two numbers, the				
	machine is in compliance.				

kVp Accuracy					
For Certified Machine Tolerance-	For Uncertified Machine Tolerance (+/- 10 %)-				
1. Average all exposures.	1. Average all exposures.				
2. Use formula- ((Average kVp measured – "as found" kVp)/"as	2. Multiply the kVp set by .10 to get the $+$ or -10% variable.				
found" kVp) X 100 = % of deviation [disregard the sign].					
3. If the % deviation is within the manufacturer's recommendation,	3. Add the variable to the kVp set, and then subtract the variable from				
the unit is in compliance.	the kVp set. The two numbers establish the range.				
4. Machine passes or fails with appropriate documentation.	4. If the Average kVp measured falls between the two numbers the				
	machine is in compliance.				

Timer Reproducibility: Timer: T > 5 (Tmax – Tmin)

- 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)

Field size – If x-ray beam exceeds any side by > 2% fail

SID - Measured to be within 2% of Indicated

For Dental Preventive Maintenance Use Only

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MENU

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