## Manufacturer's Recommendations for Alternate Dental CBCT QA Program

## Yoshida Model: PreXion3D Eclipse Table 3A

## Computed Tomography QC Requirements

Item	Required Test or Procedure	Frequency	Substitute Test or Procedure	Standard
1	Equipment Function: Indicators, Mechanical & other Safety Checks	Daily	PreXion3D Eclipse Operation Manual Safety Information Pages: V to XVII	Must work properly
2	Film Processing QC Testing	Daily	(Appendix A) None – Not Applicable	None – Not Applicable
3	CT Number for Water	Daily	PreXion3D Eclipse Operation Manual 10. Quality Assurance (QA) Procedure 10.2 QA Procedure	Upper Limit -800 Lower Limit -1024
			10.2.6 Grey Scale equivalent  Pages: 7 & 9 (Appendix B)	
4	Field Uniformity	Daily	PreXion3D Eclipse Operation Manual 10. Quality Assurance (QA) Procedure 10.2 QA Procedure 10.2.5 Image Uniformity/Noise Standard Deviation/Artifact Evaluation	Standard Deviation (SDev): Upper Limit less than 50
			Pages: 6 & 9 (Appendix B)	
5	Laser Film Printer QC	Weekly	None – Not Applicable	None – Not Applicable
6	Low Contrast Resolution	Initial & Annually	PreXion3D Eclipse Operation Manual 10. Quality Assurance (QA) Procedure 10.2 QA Procedure 10.2.4 Low-contrast Resolution	Lower Limit 4.6 mm Upper Limit 5.3 mm
7	High Contrast	Initial & Annually	Pages: 5 & 9 (Appendix B) PreXion3D Eclipse Operation	Upper Limit 0.7 mm
	Resolution		Manual 10. Quality Assurance (QA) Procedure 10.2 QA Procedure 10.2.3 High-contrast (spatial) Resolution  Pages: 4 & 9 (Appendix B)	
8	Noise	Initial & Annually	PreXion3D Eclipse Operation Manual 10. Quality Assurance (QA) Procedure 10.2 QA Procedure	Standard Deviation (SDev): Upper Limit less than 50

			10.2.5 Image Uniformity/Noise Standard Deviation/Artifact Evaluation  Pages: 6 & 9 (Appendix B)	
9	Scan Localization Light Accuracy	Initial & Annually	PreXion3D Eclipse Operation Manual 2.1.9 Checking Scan Area (X-ray Scout Shot) Pages: 2-32 to 2-43 (Appendix A)	If the result after checking the display shows that the position is incorrect, adjust the patient's position again and repeat the operations from Step 7.
10	Medical Physicist's QC Survey	Initial & Annually	See N.J.A.C. 7:28-22.10(a)	N.J.A.C. 7:28-22.10(a)
11	Medical Physicist's Quality Assurance Program Review	Initial & Annually	See N.J.A.C. 7:28-22.10(a)	N.J.A.C. 7:28-22.4(a)7