## Manufacturer's Recommendations for Alternate Dental CBCT QA Program J. Morita: Veraviewepocs Table 3 Requirements for Dental CBCT

	Required Test or			
Item	Procedure	Frequency	Substitute Test or Procedure	Standard
1	Equipment Function "Indicators, Mechanical & other Safety Checks	Daily	Must work properly	Must work properly
2	Film Processing QC Testing	Daily	None, not applicable	None, not applicable
3	CT Number for Water	Daily	Section 5.2.1. Noise and Gray Scale (Uniformity) Test Page 19-22 (Appendix A)	Acceptable Grayscale values for D_001 Recon Filter: Aluminum: 140-180 Bone EQ. Resin: 102-138 Acrylic: 54-86 Air: <21
4	Field Uniformity	Daily	Section 5.2.1. Noise and Gray Scale (Uniformity) Test Page 19-21 (Appendix A)	Make sure the value for "Gray Scale (SD of 5 means)" is less than 12.5
5	Laser Film Printer QC	Weekly	None, not applicable	None, not applicable
6	Low Contrast Resolution	Initial & Annually	Section 5.2.2. Contrast Resolution Test Page 22 (Appendix A)	Acceptable Grayscale values for G_001 Recon Filter: Aluminum: 187-233 Bone EQ. Resin: 87-123 Acrylic: 33-63 Air: <19
7	High Contrast Resolution	Initial & Annually	Section 5.2.3. Spatial Resolution Page 20-25 (Appendix A)	Verify that the value for "MTF at 2 LP / mm" is at least 10%.
8	Noise	Initial & Annually	Section 5.2.1 Noise and Gray Scale (Uniformity) Test Page 19-21 (Appendix A)	The value for Noise (SD at A) center region is less than 12.5
9	Scan Localization Light Accuracy	Initial & Annually	5.1.1. Positioning and Artifact Tests Page 9 (Appendix A)	Check that the centers for the X and Y planes are within ±2mm of the center of the phantom.
10	Medical Physicist's QC Survey	Initial & Annually	Same as alternate Dental CBCT	NJAC 7:28-22.10
11	Medical Physicist's Quality Assurance Program Review	Initial & Annually	Same as alternate Dental CBC	NJAC 7:28-22.4(a)7