Manufacturer's Recommendations for Alternate Dental CBCT QA Program Carestream Health: Models 9500, CS 9300, CS 9300 Select, CS 9000 3D, and CS 8100 3D Table 3A

Computed Tomography QC Requirements

There	Required Test or	Eng and an ere	Substitute Test on Durant	Stondard
Item 1	Procedure Equipment Function "Indicators, Mechanical & other Safety Checks	Frequency Daily	Substitute Test or ProcedureSame as Alternate DentalCBCT and or;Reference: Safety, Regulatoryand Technical SpecificationUser Guide Pages 1-6 (9500)(Appendix D)	StandardUnit must pass all computerized system tests.CBCT unit must work properly
2	Film Processing QC Testing	Daily	None, not applicable	None, not applicable
3	CT Number for Water	Daily	QA Testing Procedure Carestream 3D Products Procedure –Page 4 Item 9 Noise & Homogeneity (Appendix B)	The software computes automatically the signal/noise and homogeneity values. The Green bar indicates test has passed.
4	Field Uniformity	Daily	QA Testing Procedure Carestream 3D Products Procedure –Page 4, Item 9 Noise & Homogeneity (Appendix B)	The software computes automatically the signal/noise and homogeneity values. The Green bar indicates test has passed.
5	Laser Film Printer QC	Weekly	None, not applicable	None, not applicable
6	Low Contrast Resolution	Initial & Annually	QA Testing Procedure Carestream Imaging Quality Control Procedure –Page 37, Item 2.5.1.3.3 Low Contrast measurement (Appendix C)	Test phantom contains 4 circles that are used to do the Low Contrast measurement. The intent of this test is to assure that contrast ability remains constant over time. Standard to be established by Medical Physicist.
7	High Contrast Resolution	Initial & Annually	QA Testing Procedure Carestream 3D Products Procedure Page 5, Item 12 MTF measurement (Appendix B)	MTF is automatically computed and its value at 10% is displayed
8	Noise	Initial & Annually	QA Testing Procedure Carestream 3D Products Procedure –Page 4 Item 9 Noise & Homogeneity (Appendix B)	The software computes automatically the signal/noise and homogeneity values. The Green bar indicates test has passed.
9	Scan Localization Light Accuracy	Initial & Annually	QA Testing Procedure Carestream 3D Products Procedure – Page 6, Item 13 Positioning Aid Checking (Appendix B)	The software computes automatically if test has passed. A green bar indicates test has passed.

	Medical Physicist's	Initial & Annually	Same as Alternate Dental	NJAC 7:28-22.10
10	QC Survey		CBCT	
	Medical Physicist's	Initial & Annually	Same as Alternate Dental CBC	NJAC 7:28-22.4(a)7
11	Quality Assurance			
	Program Review			

Where no performance standard is identified or expressed by the manufacture, the medical physicist shall establish the standard for the facility's CBCT unit with justification.