Sirona Alternate Dental CBCT QA Program Orthophos XG 3D/Cephalometric: Table 3A Requirements for Dental CBCT

| Item | Required Test or Procedure | Frequency | Orthophos XG 3D/Cephalometric Substitute Test/Procedure | Standard |
|------|--|-----------------------|---|---|
| 1 | Equipment Function "Indicators, Mechanical & other Safety Checks | Daily | Same as alternate Dental CBCT | Must work properly |
| 2 | Film Processing QC Testing | None | Filmless Unit; test not applicable | None, not applicable |
| 3 | CT Number for Water | Daily | Quality Inspection Orthophos Manual Procedure 5.2-5.3 (pg 33-37) | Gray Scale Reference Value=5500; Maximum Tolerance = 11000 (100%); Minimum Tolerance = 4675 (-15%) |
| 4 | Field Uniformity | Daily | Quality Inspection Orthophos Manual Procedure 5.2-5.3 (pg 33-37) | No/few artifacts visible |
| 5 | Laser Film Printer QC | None | Not Applicable | None, not applicable |
| 6 | Low Contrast Resolution | Initial & Annually | Quality Inspection Orthophos Manual Procedure 5.2-5.3 (pg 33-37) | Reference Value = 0.002; Minimum Tolerance=0.001 (50%) |
| 7 | High Contrast Resolution | Initial & Annually | Quality Inspection Orthophos Manual Procedure 5.2-5.3 (pg 33-37) | Minimum Tolerance = 1.4 lp/mm |
| 8 | Noise | Initial & Annually | Quality Inspection Orthophos Manual Procedure 5.2-5.3 (pg 33-37) | Reference Value = 40; Tolerance (+50%) = 60; Tolerance (-25%) = 30 |
| 9 | Scan Localization Light Accuracy | Initial & Annually | Maintenance Instruction 3D Manual Procedure 10 Checking the Laser Light Localizers (pg 19-20) | No Alignment error allowed |
| 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 CBCT | NJAC 7:28-22.4(a)7 |