

RADIATION PROTECTION SURVEY

	Name:	Flight Dental Systems		
Facility Info	Address:	21 Kenview Blvd Unit 9		
		Brampton, ON		
	Country:	Canada	Telephone:	905-799-0517
Equipment	Room No:	NA	Type:	Portable Handheld X-Ray
	Manuf:	Flight Dental Systems	Model:	X-Vision
	System SN:	U00309/02929	DOM:	Not found
Cone	Model:	XR-3800BL	SN:	U00309BL
Housing	Model:	XR-3800	SN:	U00309/02929
Tube Insert	Model:	Canon D-045	SN:	Not found
Survey Information	Date:	February 28, 2022		
	Detector:	RaySafe	Model:	452
	SN:	278094	Last Cal Date:	6/2/2021

METHOD:

A radiation detector was used to measure stray radiation in areas immediately surrounding the x-ray unit. A 16 cm CTDI PMMA Phantom was used as a scatter medium. The technique used was 60 kV, 2 mA, 2.00 seconds.

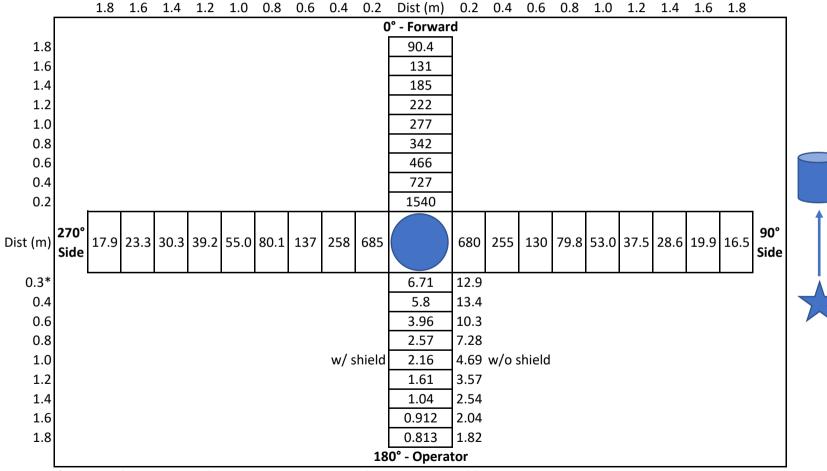
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Christopher A Lease, MS, DABR Board Certified Medical Physicist



Technique: 60 kV @ 4 mAs (2 mA, 2.0 seconds) Phantom: 16cm CTDI PMMA Background: 12 μ R/hr Scatter at 0.3 m with no phantom: 2.2 mR/hr Backscatter shield primary beam attenuation evaluation Technique: 80 kVp @ 20 mAs, 100 cm Source-to-Detector Dist Measured Exposure (without shield): 123.6 mR Measured Exposure (with shield): 3.859 mR Result: 97% of primary beam attenuated by backscatter shield

Measurements mR/hr



*30 cm is the minimum object scatter-to-operator distance measurable