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Columbia University Medical Center Radiation Safety - Laser Audit

		Princiț	Date of Audit: pal Investigator: Building: Floor/Room #:		Audit Performed by: Reviewed by: Date Reviewed:						
	Manufacturer			Model	Model			Serial Number			
			Laser Registration or Appendix D								
P F NA		NA	Personnel Qualifications								
	Personnel who will use laser system are appropiately trained										
			Name	C.U.II	D #	STATUS (student/staff/faculty)	Training Reco (Initial/Refre				
C	omm	ents:									
	Laser Safety Control Measures										
Р	F	NA	Administrative and Pr	Administrative and Procedural Controls							
			Columbia University La	Columbia University Laser Safety Policy available/posted							
			Operating Manual available								
			Appropriate laser class	Appropriate laser classification							
			Written Standard Operating Procedures (SOP) available								
			Written operating, maintenance, and alignment procedures kept with laser equipment								
			Laser is registered with EHS								
			Laser is included in the EHS inventory								
			Laser made or modified on Campus registered with EHS								
				Access limited to authorized users only							
			-	Viewing cards for non-visible beam available							
			-	Viewing cards are used for aligment procedures							
Operators do not wear watches, jewelry, and ties during laser operation											
C	omm	ents:									

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NA Labeling-Posting-Warnings

Laser sign posted on lab door (Danger/Warning/Caution) Laser sign posted on lab door for invisible radiation (Danger/Warning/Caution) Visible Warning Device when laser is energized Audible Warning Device when laser is energized Laser label on housing (Danger/Warning/Caution) Label of laser classification on housing Label of laser characteristics on housing (power,wavelength) Manufacturer's certification label on housing Laser controlled areas within the lab posted Label for the laser aperture on housing High voltage warning label on housing

Comments:

P F NA Personal Protective Equipment (PPE)

Appropriate eye protection (goggles) available for laser use

Description	Wavelength - OD	S/N #	Condition (Free of damage/clean)	Date checked



Warning lights can be seen through goggles

Protection from diffuse UV radiation available (eyes/skin)

Appropriate skin protection available/used (lab coats, long sleeved garments)

Comments:

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F	NA	Engineering Controls for Beam Hazards				
		Protective housing and interlocks in good condition				
		Access/entrance to laser use rooms, is controlled to prevent accidental exposure to the laser beam				
		Door interlock in good condition				
		Beam stops present at the end of all beam paths				
		Barriers/screens/black out curtains if present, are in use				
		Laser table level below eye level for standing or sitting position				
		Beam is not directed towards doors or windows				
		Windows and ports are covered or protected during laser operation				
		Surfaces minimize specular reflections				
		Optical bench free of unnecessary reflective items				
		Beam path enclosed when possible				
		Controls are located so that the operator is NOT exposed to beam hazards				
		Laser may be fired remotely				
		All beams are traced				
Con	Comments:					

P F NA

Non beam Hazards

No exposed wiring or electrical circuits High voltage equipment appropriately grounded Laser beam is not impinging on flammable or combustible materials Barriers/screens/black out curtains are fire resistant Laser is operated so that it does not cause an explosion hazard Ventilation available to extract/scavenge metallic flumes, chemical vapors, and/or biological plumes Laser operation incorporates the safe use of compressed gases Laser operation incorporates the safe use of laser dyes

Comments: